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
LF\BH01	09/07/2021 00:00	8.10m 50mm SP	7.28	4.57	2.71	No LNAPL/DNAPL detected.
LF\BH01	12/07/2021 00:00	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF\BH01	13/07/2021 00:00	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF\BH01	09/08/2021 16:59	8.10m 50mm SP	7.28	4.68	2.60	No LNAPL/DNAPL detected.
LF\BH01	17/09/2021 15:50	8.10m 50mm SP	7.28	4.71	2.57	No LNAPL/DNAPL detected.
LF\BH01	12/10/2021 15:07	8.10m 50mm SP	7.28	4.64	2.64	No LNAPL/DNAPL detected.
LF\BH01	15/11/2021 15:25	8.10m 50mm SP	7.28	4.58	2.70	No LNAPL/DNAPL detected.
LF\BH01	09/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF\BH01	12/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF\BH01	13/07/2021 00:00	38.00m 50mm SP	7.28	4.52	2.76	No LNAPL/DNAPL detected.
LF\BH01	09/08/2021 16:46	38.00m 50mm SP	7.28	4.73	2.55	No LNAPL/DNAPL detected.
LF\BH01	17/09/2021 16:12	38.00m 50mm SP	7.28	4.55	2.73	No LNAPL/DNAPL detected.
LF\BH01	12/10/2021 14:53	38.00m 50mm SP	7.28	4.61	2.67	No LNAPL/DNAPL detected.
LF\BH01	15/11/2021 15:12	38.00m 50mm SP	7.28	4.56	2.72	No LNAPL/DNAPL detected.
MS\BH03	30/06/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS\BH03	01/07/2021 00:00	2.70m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS\BH03	02/07/2021 00:00	2.70m 50mm SP	4.67	1.36	3.31	No LNAPL/DNAPL detected.
MS\BH03	05/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS\BH03	06/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS\BH03	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

Date of Issue :-
29/11/2021

Checked By :-
[redacted]

Approved By :-

AEG Contract No. :-
4339

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
MS\BH03	08/07/2021 00:00	2.70m 50mm SP	4.67	1.35	3.32	No LNAPL/DNAPL detected.
MS\BH03	09/07/2021 00:00	2.70m 50mm SP	4.67	1.40	3.27	No LNAPL/DNAPL detected.
MS\BH03	12/07/2021 00:00	2.70m 50mm SP	4.67	1.70	2.97	No LNAPL/DNAPL detected.
MS\BH03	13/07/2021 00:00	2.70m 50mm SP	4.67	1.70	2.97	No LNAPL/DNAPL detected.
MS\BH03	09/08/2021 14:49	2.70m 50mm SP	4.67	1.89	2.78	No LNAPL/DNAPL detected.
MS\BH03	17/09/2021 09:45	2.70m 50mm SP	4.67	1.97	2.70	No LNAPL/DNAPL detected.
MS\BH03	12/10/2021 09:49	2.70m 50mm SP	4.67	1.87	2.80	No LNAPL/DNAPL detected.
MS\BH03	15/11/2021 14:46	2.70m 50mm SP	4.67	1.91	2.76	No LNAPL/DNAPL detected.
MS\BH03	30/06/2021 00:00	28.50m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS\BH03	01/07/2021 00:00	28.50m 50mm SP	4.67	1.38	3.29	No LNAPL/DNAPL detected.
MS\BH03	02/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS\BH03	05/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS\BH03	06/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS\BH03	07/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS\BH03	08/07/2021 00:00	28.50m 50mm SP	4.67	1.37	3.30	No LNAPL/DNAPL detected.
MS\BH03	09/07/2021 00:00	28.50m 50mm SP	4.67	1.45	3.22	No LNAPL/DNAPL detected.
MS\BH03	12/07/2021 00:00	28.50m 50mm SP	4.67	1.50	3.17	No LNAPL/DNAPL detected.
MS\BH03	13/07/2021 00:00	28.50m 50mm SP	4.67	1.50	3.17	No LNAPL/DNAPL detected.
MS\BH03	09/08/2021 15:07	28.50m 50mm SP	4.67	1.77	2.90	No LNAPL/DNAPL detected.
MS\BH03	17/09/2021 11:49	28.50m 50mm SP	4.67	1.90	2.77	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM

Certificate No. :- GWMR/4339/2

Date of Issue :- 29/11/2021

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AEG Contract No. :- 4339

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
MS\BH03	12/10/2021 10:00	28.50m 50mm SP	4.67	1.87	2.80	No LNAPL/DNAPL detected.
MS\BH03	15/11/2021 14:34	28.50m 50mm SP	4.67	1.98	2.69	No LNAPL/DNAPL detected. Sulphur odour
MS\BH04	28/06/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS\BH04	29/06/2021 00:00	5.00m 50mm SP	5.01	2.11	2.90	No LNAPL/DNAPL detected.
MS\BH04	30/06/2021 00:00	5.00m 50mm SP	5.01	2.11	2.90	No LNAPL/DNAPL detected.
MS\BH04	01/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS\BH04	02/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS\BH04	05/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS\BH04	06/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS\BH04	07/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS\BH04	08/07/2021 00:00	5.00m 50mm SP	5.01	2.10	2.91	No LNAPL/DNAPL detected.
MS\BH04	09/07/2021 00:00	5.00m 50mm SP	5.01	2.12	2.89	No LNAPL/DNAPL detected.
MS\BH04	12/07/2021 00:00	5.00m 50mm SP	5.01	2.13	2.88	No LNAPL/DNAPL detected.
MS\BH04	13/07/2021 00:00	5.00m 50mm SP	5.01	2.13	2.88	No LNAPL/DNAPL detected.
MS\BH04	09/08/2021 15:39	5.00m 50mm SP	5.01	2.30	2.71	No LNAPL/DNAPL detected.
MS\BH04	17/09/2021 14:51	5.00m 50mm SP	5.01	2.34	2.67	No LNAPL/DNAPL detected.
MS\BH04	12/10/2021 09:35	5.00m 50mm SP	5.01	2.32	2.69	No LNAPL/DNAPL detected.
MS\BH04	15/11/2021 14:17	5.00m 50mm SP	5.01	2.35	2.66	No LNAPL/DNAPL detected.
MS\BH04	28/06/2021 00:00	28.50m 50mm SP	5.01	2.17	2.84	No LNAPL/DNAPL detected.
MS\BH04	29/06/2021 00:00	28.50m 50mm SP	5.01	2.17	2.84	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

Client :-
AECOM

Certificate No. :-
GWMR/4339/3

Date of Issue :-
29/11/2021

Checked By :

Approved By :

AEG Contract No. :-
4339

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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
MS\BH04	30/06/2021 00:00	28.50m 50mm SP	5.01	2.18	2.83	No LNAPL/DNAPL detected.
MS\BH04	01/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS\BH04	02/07/2021 00:00	28.50m 50mm SP	5.01	2.16	2.85	No LNAPL/DNAPL detected.
MS\BH04	05/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS\BH04	06/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS\BH04	07/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS\BH04	08/07/2021 00:00	28.50m 50mm SP	5.01	2.15	2.86	No LNAPL/DNAPL detected.
MS\BH04	09/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS\BH04	12/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS\BH04	13/07/2021 00:00	28.50m 50mm SP	5.01	2.14	2.87	No LNAPL/DNAPL detected.
MS\BH04	09/08/2021 15:22	28.50m 50mm SP	5.01	2.29	2.72	No LNAPL/DNAPL detected.
MS\BH04	17/09/2021 14:40	28.50m 50mm SP	5.01	2.34	2.67	No LNAPL/DNAPL detected.
MS\BH04	12/10/2021 09:26	28.50m 50mm SP	5.01	2.51	2.50	No LNAPL/DNAPL detected.
MS\BH04	15/11/2021 14:05	28.50m 50mm SP	5.01	2.40	2.61	No LNAPL/DNAPL detected.
MS\BH05	28/06/2021 00:00	12.50m 50mm SP	7.48	4.40	3.08	No LNAPL/DNAPL detected.
MS\BH05	29/06/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS\BH05	30/06/2021 00:00	12.50m 50mm SP	7.48	4.40	3.08	No LNAPL/DNAPL detected.
MS\BH05	01/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS\BH05	02/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS\BH05	05/07/2021 00:00	12.50m 50mm SP	7.48	4.00	3.48	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM

Certificate No. :- GWMR/4339/4

Date of Issue :- 29/11/2021

Checked By :- [redacted]

Approved By :-

AEG Contract No. :- 4339

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
MS\BH05	06/07/2021 00:00	12.50m 50mm SP	7.48	3.39	4.09	No LNAPL/DNAPL detected.
MS\BH05	07/07/2021 00:00	12.50m 50mm SP	7.48	3.45	4.03	No LNAPL/DNAPL detected.
MS\BH05	08/07/2021 00:00	12.50m 50mm SP	7.48	3.39	4.09	No LNAPL/DNAPL detected.
MS\BH05	09/07/2021 00:00	12.50m 50mm SP	7.48	4.39	3.09	No LNAPL/DNAPL detected.
MS\BH05	12/07/2021 00:00	12.50m 50mm SP	7.48	4.38	3.10	No LNAPL/DNAPL detected.
MS\BH05	13/07/2021 00:00	12.50m 50mm SP	7.48	4.38	3.10	No LNAPL/DNAPL detected.
MS\BH05	09/08/2021 11:45	12.50m 50mm SP	7.48	4.47	3.01	No LNAPL/DNAPL detected.
MS\BH05	17/09/2021 12:15	12.50m 50mm SP	7.48	4.55	2.93	No LNAPL/DNAPL detected.
MS\BH05	12/10/2021 08:46	12.50m 50mm SP	7.48	4.61	2.87	No LNAPL/DNAPL detected.
MS\BH05	15/11/2021 09:58	12.50m 50mm SP	7.48	4.61	2.87	No LNAPL/DNAPL detected.
MS\BH05	28/06/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS\BH05	29/06/2021 00:00	29.90m 50mm SP	7.48	5.11	2.37	No LNAPL/DNAPL detected.
MS\BH05	30/06/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS\BH05	01/07/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS\BH05	02/07/2021 00:00	29.90m 50mm SP	7.48	5.11	2.37	No LNAPL/DNAPL detected.
MS\BH05	05/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS\BH05	06/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS\BH05	07/07/2021 00:00	29.90m 50mm SP	7.48	5.09	2.39	No LNAPL/DNAPL detected.
MS\BH05	08/07/2021 00:00	29.90m 50mm SP	7.48	5.10	2.38	No LNAPL/DNAPL detected.
MS\BH05	09/07/2021 00:00	29.90m 50mm SP	7.48	5.15	2.33	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

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

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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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
MS\BH05	12/07/2021 00:00	29.90m 50mm SP	7.48	5.14	2.34	No LNAPL/DNAPL detected.
MS\BH05	13/07/2021 00:00	29.90m 50mm SP	7.48	5.14	2.34	No LNAPL/DNAPL detected.
MS\BH05	09/08/2021 11:59	29.90m 50mm SP	7.48	5.25	2.23	No LNAPL/DNAPL detected.
MS\BH05	17/09/2021 12:08	29.90m 50mm SP	7.48	5.61	1.87	No LNAPL/DNAPL detected.
MS\BH05	12/10/2021 08:36	29.90m 50mm SP	7.48	5.64	1.84	No LNAPL/DNAPL detected.
MS\BH05	15/11/2021 09:40	29.90m 50mm SP	7.48	5.69	1.79	No LNAPL/DNAPL detected.
MS\BH07	13/07/2021 00:00	4.60m 50mm SP	7.33	4.21	3.12	No LNAPL/DNAPL detected.
MS\BH07	09/08/2021 14:16	4.60m 50mm SP	7.33	4.29	3.04	No LNAPL/DNAPL detected.
MS\BH07	17/09/2021 09:18	4.60m 50mm SP	7.33	4.31	3.02	No LNAPL/DNAPL detected.
MS\BH07	12/10/2021 10:14	4.60m 50mm SP	7.33	Damp		No LNAPL/DNAPL detected.
MS\BH07	15/11/2021 11:17	4.60m 50mm SP	7.33	4.39	2.94	No LNAPL/DNAPL detected.
MS\BH07	13/07/2021 00:00	7.30m 50mm SP	7.33	4.16	3.17	No LNAPL/DNAPL detected.
MS\BH07	09/08/2021 14:28	7.30m 50mm SP	7.33	4.30	3.03	No LNAPL/DNAPL detected.
MS\BH07	17/09/2021 11:22	7.30m 50mm SP	7.33	4.33	3.00	No LNAPL/DNAPL detected.
MS\BH07	12/10/2021 10:23	7.30m 50mm SP	7.33	4.09	3.24	No LNAPL/DNAPL detected.
MS\BH07	15/11/2021 11:00	7.30m 50mm SP	7.33	4.38	2.95	No LNAPL/DNAPL detected.
MS\BH08	14/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	15/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	16/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	17/06/2021 00:00	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 :- AECOM

Certificate No. :- GWMR/4339/6

Date of Issue :- 29/11/2021

Checked By :- [redacted]

Approved By :-

AEG Contract No. :- 4339

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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
MS\BH08	18/06/2021 14:15	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	21/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	22/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	23/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	24/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	25/06/2021 15:40	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	28/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	29/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	30/06/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	01/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	02/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	05/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	06/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	07/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	08/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	09/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	12/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	13/07/2021 00:00	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	09/08/2021 13:58	5.70m 50mm SP	8.75	Damp		No LNAPL/DNAPL detected.
MS\BH08	17/09/2021 08:44	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

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

Certificate No. :-	Date of Issue :-	Page No. :-
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Checked By :- [redacted]	Approved By :- [redacted]	AEG Contract No. :- 4339

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
MS\BH08	12/10/2021 09:01	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	15/11/2021 10:42	5.70m 50mm SP	8.75	Dry		No LNAPL/DNAPL detected.
MS\BH08	14/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS\BH08	15/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS\BH08	16/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS\BH08	17/06/2021 00:00	13.30m 50mm SP	8.75	5.54	3.21	No LNAPL/DNAPL detected.
MS\BH08	18/06/2021 14:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS\BH08	21/06/2021 00:00	13.30m 50mm SP	8.75	5.57	3.18	No LNAPL/DNAPL detected.
MS\BH08	22/06/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS\BH08	23/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	24/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	25/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	28/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	29/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	30/06/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	01/07/2021 00:00	13.30m 50mm SP	8.75	5.60	3.15	No LNAPL/DNAPL detected.
MS\BH08	02/07/2021 00:00	13.30m 50mm SP	8.75	5.59	3.16	No LNAPL/DNAPL detected.
MS\BH08	05/07/2021 00:00	13.30m 50mm SP	8.75	5.62	3.13	No LNAPL/DNAPL detected.
MS\BH08	06/07/2021 00:00	13.30m 50mm SP	8.75	5.62	3.13	No LNAPL/DNAPL detected.
MS\BH08	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 :-	Client :-
Preliminary Onshore Ground Investigation for NZT	AECOM

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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, 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
MS\BH08	08/07/2021 00:00	13.30m 50mm SP	8.75	5.61	3.14	No LNAPL/DNAPL detected.
MS\BH08	09/07/2021 00:00	13.30m 50mm SP	8.75	5.59	3.16	No LNAPL/DNAPL detected.
MS\BH08	12/07/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS\BH08	13/07/2021 00:00	13.30m 50mm SP	8.75	5.58	3.17	No LNAPL/DNAPL detected.
MS\BH08	09/08/2021 13:45	13.30m 50mm SP	8.75	5.70	3.05	No LNAPL/DNAPL detected.
MS\BH08	17/09/2021 08:57	13.30m 50mm SP	8.75	5.73	3.02	No LNAPL/DNAPL detected.
MS\BH08	12/10/2021 09:13	13.30m 50mm SP	8.75	5.71	3.04	No LNAPL/DNAPL detected.
MS\BH08	15/11/2021 10:15	13.30m 50mm SP	8.75	5.74	3.01	No LNAPL/DNAPL detected.
MS\BH09	09/08/2021 16:02	4.50m 50mm SP	7.47	Damp		No LNAPL/DNAPL detected.
MS\BH09	17/09/2021 12:20	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS\BH09	12/10/2021 08:11	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS\BH09	15/11/2021 09:17	4.50m 50mm SP	7.47	Dry		No LNAPL/DNAPL detected.
MS\BH09	09/08/2021 16:16	8.70m 50mm SP	7.47	4.64	2.83	No LNAPL/DNAPL detected.
MS\BH09	17/09/2021 12:36	8.70m 50mm SP	7.47	4.43	3.04	No LNAPL/DNAPL detected.
MS\BH09	12/10/2021 08:23	8.70m 50mm SP	7.47	4.60	2.87	No LNAPL/DNAPL detected.
MS\BH09	15/11/2021 08:52	8.70m 50mm SP	7.47	4.34	3.13	No LNAPL/DNAPL detected.
MS\BH11	16/06/2021 00:00	4.40m 50mm SP	7.26	3.68	3.58	No LNAPL/DNAPL detected.
MS\BH11	17/06/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS\BH11	18/06/2021 14:45	4.40m 50mm SP	7.26	3.72	3.54	No LNAPL/DNAPL detected.
MS\BH11	21/06/2021 00:00	4.40m 50mm SP	7.26	3.71	3.55	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM

Certificate No. :- GWMR/4339/9

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AEG Contract No. :- 4339

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
MS\BH11	22/06/2021 00:00	4.40m 50mm SP	7.26	3.72	3.54	No LNAPL/DNAPL detected.
MS\BH11	23/06/2021 00:00	4.40m 50mm SP	7.26	3.75	3.51	No LNAPL/DNAPL detected.
MS\BH11	24/06/2021 00:00	4.40m 50mm SP	7.26	3.76	3.50	No LNAPL/DNAPL detected.
MS\BH11	25/06/2021 15:20	4.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MS\BH11	28/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	29/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	30/06/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	01/07/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	02/07/2021 00:00	4.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	05/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS\BH11	06/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS\BH11	07/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS\BH11	08/07/2021 00:00	4.40m 50mm SP	7.26	3.80	3.46	No LNAPL/DNAPL detected.
MS\BH11	09/07/2021 00:00	4.40m 50mm SP	7.26	3.75	3.51	No LNAPL/DNAPL detected.
MS\BH11	12/07/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS\BH11	13/07/2021 00:00	4.40m 50mm SP	7.26	3.70	3.56	No LNAPL/DNAPL detected.
MS\BH11	09/08/2021 13:29	4.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MS\BH11	17/09/2021 14:35	4.40m 50mm SP	7.26	Dry		No LNAPL/DNAPL detected.
MS\BH11	12/10/2021 10:58	4.40m 50mm SP	7.26	Dry		No LNAPL/DNAPL detected.
MS\BH11	15/11/2021 16:25	4.40m 50mm SP	7.26	Dry		

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

Client :-
AECOM

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29/11/2021

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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
MS\BH11	16/06/2021 00:00	11.40m 50mm SP	7.26	3.91	3.35	No LNAPL/DNAPL detected.
MS\BH11	17/06/2021 00:00	11.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MS\BH11	18/06/2021 14:30	11.40m 50mm SP	7.26	3.98	3.28	No LNAPL/DNAPL detected.
MS\BH11	21/06/2021 00:00	11.40m 50mm SP	7.26	3.99	3.27	No LNAPL/DNAPL detected.
MS\BH11	22/06/2021 00:00	11.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	23/06/2021 00:00	11.40m 50mm SP	7.26	3.89	3.37	No LNAPL/DNAPL detected.
MS\BH11	24/06/2021 00:00	11.40m 50mm SP	7.26	3.95	3.31	No LNAPL/DNAPL detected.
MS\BH11	25/06/2021 15:30	11.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MS\BH11	28/06/2021 00:00	11.40m 50mm SP	7.26	4.00	3.26	No LNAPL/DNAPL detected.
MS\BH11	29/06/2021 00:00	11.40m 50mm SP	7.26	4.05	3.21	No LNAPL/DNAPL detected.
MS\BH11	30/06/2021 00:00	11.40m 50mm SP	7.26	4.07	3.19	No LNAPL/DNAPL detected.
MS\BH11	01/07/2021 00:00	11.40m 50mm SP	7.26	4.08	3.18	No LNAPL/DNAPL detected.
MS\BH11	02/07/2021 00:00	11.40m 50mm SP	7.26	3.78	3.48	No LNAPL/DNAPL detected.
MS\BH11	02/07/2021 15:50	11.40m 50mm SP	7.26	4.10	3.16	No LNAPL/DNAPL detected.
MS\BH11	05/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MS\BH11	06/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MS\BH11	07/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MS\BH11	08/07/2021 00:00	11.40m 50mm SP	7.26	4.11	3.15	No LNAPL/DNAPL detected.
MS\BH11	09/07/2021 00:00	11.40m 50mm SP	7.26	4.05	3.21	No LNAPL/DNAPL detected.
MS\BH11	12/07/2021 00:00	11.40m 50mm SP	7.26	3.90	3.36	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

Client :-
AECOM

Certificate No. :-
GWMR/4339/11

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29/11/2021

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AEG Contract No. :-
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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
MS\BH11	13/07/2021 00:00	11.40m 50mm SP	7.26	3.90	3.36	No LNAPL/DNAPL detected.
MS\BH11	09/08/2021 13:18	11.40m 50mm SP	7.26	4.07	3.19	No LNAPL/DNAPL detected.
MS\BH11	17/09/2021 14:28	11.40m 50mm SP	7.26	4.12	3.14	No LNAPL/DNAPL detected.
MS\BH11	12/10/2021 11:12	11.40m 50mm SP	7.26	4.19	3.07	No LNAPL/DNAPL detected.
MS\BH11	15/11/2021 16:15	11.40m 50mm SP	7.26	4.17	3.09	No LNAPL/DNAPL detected.
MS\BH12	21/06/2021 00:00	20.50m 50mm SP	7.15	3.85	3.30	No LNAPL/DNAPL detected.
MS\BH12	22/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	23/06/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	24/06/2021 00:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS\BH12	25/06/2021 15:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS\BH12	28/06/2021 00:00	20.50m 50mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS\BH12	29/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	30/06/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	01/07/2021 00:00	20.50m 50mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS\BH12	02/07/2021 00:00	20.50m 50mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS\BH12	05/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	06/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	07/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	08/07/2021 00:00	20.50m 50mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	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

Client :- AECOM

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AEG Contract No. :- 4339

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
MS\BH12	12/07/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	13/07/2021 00:00	20.50m 50mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	09/08/2021 12:56	20.50m 50mm SP	7.15	3.81	3.34	No LNAPL/DNAPL detected.
MS\BH12	17/09/2021 12:43	20.50m 50mm SP	7.15	4.05	3.10	No LNAPL/DNAPL detected.
MS\BH12	12/10/2021 10:37	20.50m 50mm SP	7.15	4.09	3.06	No LNAPL/DNAPL detected.
MS\BH12	15/11/2021 16:03	20.50m 50mm SP	7.15	4.01	3.14	No LNAPL/DNAPL detected.
MS\BH12	22/06/2021 00:00	34.50m 25mm SP	7.15	3.85	3.30	No LNAPL/DNAPL detected.
MS\BH12	23/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	24/06/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	25/06/2021 15:10	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS\BH12	28/06/2021 00:00	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.
MS\BH12	29/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	30/06/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	01/07/2021 00:00	34.50m 25mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS\BH12	02/07/2021 00:00	34.50m 25mm SP	7.15	3.74	3.41	No LNAPL/DNAPL detected.
MS\BH12	05/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	06/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	07/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	08/07/2021 00:00	34.50m 25mm SP	7.15	3.72	3.43	No LNAPL/DNAPL detected.
MS\BH12	09/07/2021 00:00	34.50m 25mm SP	7.15	3.70	3.45	No LNAPL/DNAPL detected.

SP = Standpipe - SPIE = Standpipe Piezometer.

Contract Title :-
Preliminary Onshore Ground Investigation for NZT

Client :-
AECOM

Certificate No. :-
GWMR/4339/13

Date of Issue :-
29/11/2021

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AEG Contract No. :-
4339

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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
MS\BH12	12/07/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	13/07/2021 00:00	34.50m 25mm SP	7.15	3.71	3.44	No LNAPL/DNAPL detected.
MS\BH12	09/08/2021 12:40	34.50m 25mm SP	7.15	3.63	3.52	No LNAPL/DNAPL detected.
MS\BH12	17/09/2021 12:50	34.50m 25mm SP	7.15	3.99	3.16	No LNAPL/DNAPL detected.
MS\BH12	12/10/2021 10:47	34.50m 25mm SP	7.15	4.11	3.04	No LNAPL/DNAPL detected.
MS\BH12	15/11/2021 15:49	34.50m 25mm SP	7.15	3.98	3.17	No LNAPL/DNAPL detected.
MS\BH13	30/06/2021 00:00	9.50m 50mm SP	5.71	2.78	2.93	No LNAPL/DNAPL detected.
MS\BH13	01/07/2021 00:00	9.50m 50mm SP	5.71	2.20	3.51	No LNAPL/DNAPL detected.
MS\BH13	02/07/2021 00:00	9.50m 50mm SP	5.71	2.00	3.71	No LNAPL/DNAPL detected.
MS\BH13	05/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MS\BH13	06/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MS\BH13	07/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MS\BH13	08/07/2021 00:00	9.50m 50mm SP	5.71	2.25	3.46	No LNAPL/DNAPL detected.
MS\BH13	09/07/2021 00:00	9.50m 50mm SP	5.71	2.19	3.52	No LNAPL/DNAPL detected.
MS\BH13	12/07/2021 00:00	9.50m 50mm SP	5.71	2.18	3.53	No LNAPL/DNAPL detected.
MS\BH13	13/07/2021 00:00	9.50m 50mm SP	5.71	2.18	3.53	No LNAPL/DNAPL detected.
MS\BH13	09/08/2021 11:22	9.50m 50mm SP	5.71	2.11	3.60	No LNAPL/DNAPL detected.
MS\BH13	17/09/2021 13:08	9.50m 50mm SP	5.71	2.20	3.51	No LNAPL/DNAPL detected.
MS\BH13	12/10/2021 12:27	9.50m 50mm SP	5.71	2.29	3.42	No LNAPL/DNAPL detected.
MS\BH13	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

Certificate No. :- GWMR/4339/14

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AEG Contract No. :- 4339

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
MS\BH13	30/06/2021 00:00	20.00m 50mm SP	5.71	2.65	3.06	No LNAPL/DNAPL detected.
MS\BH13	01/07/2021 00:00	20.00m 50mm SP	5.71	2.69	3.02	No LNAPL/DNAPL detected.
MS\BH13	02/07/2021 00:00	20.00m 50mm SP	5.71	2.24	3.47	No LNAPL/DNAPL detected.
MS\BH13	05/07/2021 00:00	20.00m 50mm SP	5.71	1.95	3.76	No LNAPL/DNAPL detected.
MS\BH13	06/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS\BH13	07/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS\BH13	08/07/2021 00:00	20.00m 50mm SP	5.71	1.90	3.81	No LNAPL/DNAPL detected.
MS\BH13	09/07/2021 00:00	20.00m 50mm SP	5.71	1.85	3.86	No LNAPL/DNAPL detected.
MS\BH13	12/07/2021 00:00	20.00m 50mm SP	5.71	1.78	3.93	No LNAPL/DNAPL detected.
MS\BH13	13/07/2021 00:00	20.00m 50mm SP	5.71	1.78	3.93	No LNAPL/DNAPL detected.
MS\BH13	09/08/2021 11:09	20.00m 50mm SP	5.71	1.97	3.74	No LNAPL/DNAPL detected.
MS\BH13	17/09/2021 13:20	20.00m 50mm SP	5.71	2.13	3.58	No LNAPL/DNAPL detected.
MS\BH13	12/10/2021 12:18	20.00m 50mm SP	5.71	2.28	3.43	No LNAPL/DNAPL detected.
MS\BH13	15/11/2021 13:39	20.00m 50mm SP	5.71	2.35	3.36	No LNAPL/DNAPL detected.
MS\BH14	01/07/2021 00:00	8.00m 50mm SP	7.19	3.65	3.54	No LNAPL/DNAPL detected.
MS\BH14	02/07/2021 00:00	8.00m 50mm SP	7.19	3.54	3.65	No LNAPL/DNAPL detected.
MS\BH14	05/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS\BH14	06/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS\BH14	07/07/2021 00:00	8.00m 50mm SP	7.19	3.40	3.79	No LNAPL/DNAPL detected.
MS\BH14	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

Client :-
AECOM

Certificate No. :-
GWMR/4339/15

Date of Issue :-
29/11/2021

Checked By :-
[redacted]

Approved By :-

AEG Contract No. :-
4339

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
MS\BH14	09/07/2021 00:00	8.00m 50mm SP	7.19	3.38	3.81	No LNAPL/DNAPL detected.
MS\BH14	12/07/2021 00:00	8.00m 50mm SP	7.19	3.39	3.80	No LNAPL/DNAPL detected.
MS\BH14	13/07/2021 00:00	8.00m 50mm SP	7.19	3.39	3.80	No LNAPL/DNAPL detected.
MS\BH14	09/08/2021 09:55	8.00m 50mm SP	7.19	3.50	3.69	No LNAPL/DNAPL detected.
MS\BH14	17/09/2021 12:57	8.00m 50mm SP	7.19	3.55	3.64	No LNAPL/DNAPL detected.
MS\BH14	12/10/2021 12:51	8.00m 50mm SP	7.19	3.63	3.56	No LNAPL/DNAPL detected.
MS\BH14	15/11/2021 12:21	8.00m 50mm SP	7.19	3.60	3.59	No LNAPL/DNAPL detected.
MS\BH15	05/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	06/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	07/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	08/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	09/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	12/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	13/07/2021 00:00	5.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	09/08/2021 10:40	5.00m 50mm SP	7.25	3.28	3.97	No LNAPL/DNAPL detected.
MS\BH15	17/09/2021 15:10	5.00m 50mm SP	7.25	3.41	3.84	No LNAPL/DNAPL detected.
MS\BH15	12/10/2021 11:42	5.00m 50mm SP	7.25	3.49	3.76	No LNAPL/DNAPL detected.
MS\BH15	15/11/2021 13:21	5.00m 50mm SP	7.25	3.53	3.72	No LNAPL/DNAPL detected.
MS\BH15	05/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	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

Certificate No. :- GWMR/4339/16

Date of Issue :- 29/11/2021

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AEG Contract No. :- 4339

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
MS\BH15	07/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	08/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	09/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	12/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	13/07/2021 00:00	12.00m 50mm SP	7.25	3.30	3.95	No LNAPL/DNAPL detected.
MS\BH15	09/08/2021 10:23	12.00m 50mm SP	7.25	3.28	3.97	No LNAPL/DNAPL detected.
MS\BH15	17/09/2021 15:22	12.00m 50mm SP	7.25	3.41	3.84	No LNAPL/DNAPL detected.
MS\BH15	12/10/2021 11:33	12.00m 50mm SP	7.25	3.51	3.74	No LNAPL/DNAPL detected.
MS\BH15	15/11/2021 13:08	12.00m 50mm SP	7.25	3.57	3.68	No LNAPL/DNAPL detected.
MS\BH17	08/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	09/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	12/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	13/07/2021 00:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	09/08/2021 09:11	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	17/09/2021 13:50	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	12/10/2021 13:20	5.00m 50mm SP	9.25	Damp		No LNAPL/DNAPL detected.
MS\BH17	15/11/2021 12:00	5.00m 50mm SP	9.25	Dry		No LNAPL/DNAPL detected.
MS\BH17	08/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MS\BH17	09/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MS\BH17	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 :- Preliminary Onshore Ground Investigation for NZT

Client :- AECOM

Certificate No. :- GWMR/4339/17

Date of Issue :- 29/11/2021

Checked By :- [redacted]

Approved By :-

AEG Contract No. :- 4339

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
MS\BH17	13/07/2021 00:00	20.00m 50mm SP	9.25	5.45	3.80	No LNAPL/DNAPL detected.
MS\BH17	09/08/2021 09:32	20.00m 50mm SP	9.25	5.41	3.84	No LNAPL/DNAPL detected.
MS\BH17	17/09/2021 14:09	20.00m 50mm SP	9.25	5.54	3.71	No LNAPL/DNAPL detected.
MS\BH17	12/10/2021 13:10	20.00m 50mm SP	9.25	5.65	3.60	No LNAPL/DNAPL detected.
MS\BH17	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 :-	Client :-
Preliminary Onshore Ground Investigation for NZT	AECOM

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FIELD DATA ENCLOSURE 7

Gas Monitoring Results

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
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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)				
LF\BH01	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.
LF\BH01	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 :-	Client :-	AEG Contract No :-
Preliminary Onshore Ground Investigation for NZT	AECOM	4339

Date of Issue :-	Page No. :-	Checked By :-	Approved By :-	Certificate No. :-
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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

Date of Issue :-	Page No. :-	Checked By :-	Approved By :-	Certificate No. :-
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ALLIED EXPLORATION & GEOTECHNICS LIMITED

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

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

Date of Issue :-	Page No. :-	Checked By :-	Approved By :-	Certificate No. :-
20/12/2021	4 of 4			MON/4339/4

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

GAS DATA LTD
Unit 4, Fairfield Court
Seven Stars Estate
Wheler Rd
Coventry
CV3 4LJ
Tel 02476303311 Fax 02476307711

GFM435 Final Inspection & Calibration Check Certificate

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 Readings %	True Gas Value %	Instrument Gas Readings %	True Gas Value %	Instrument Gas Readings %	True Gas Value %
	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% N2	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	
H2S	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*	
	+1200mb	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 ^{0}C	
Applied Temperature ^{0}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:	Date Tested:
Jack Rutland	*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

4533

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.

CH_4, CO_2 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

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

4533

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_2S	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** [redacted] 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

4533

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.

CH_4, CO_2 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.

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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

4533

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_2S	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** [redacted] 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.

Calibration Instance:112 IGC Instance:112

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

FIELD DATA ENCLOSURE 8

Historical Borehole Condition Survey

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: 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

IN-SITU TESTING ENCLOSURES

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

UKAS TESTING
1367

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 Leman 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 [redacted] 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	*In-situ* 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

IN-SITU TESTING ENCLOSURE 1

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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
LF\BH01	1.20 (6.08)	(0.00)	1.20	RD48 2021	79	75	2	75	2	150	4	75	4	75	5	75	5	75	6	300	20	0.65	1.32	15.00	20	17	C	
LF\BH01	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	
LF\BH01	4.20 (3.08)	(4.20)	4.20	RD48 2021	79	75	1	75	8	150	9	75	7	75	7	75	9	75	8	300	31	0.77	1.32	9.68	31	32	C	
LF\BH01	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	
LF\BH01	7.20 (0.08)	(7.20)	7.20	RD48 2021	79	75	1	75	1	150	2	75	1	150	1			100	1	325	3	0.89	1.32	108.33	-	-	S	
LF\BH01	8.70 (-1.42)	(8.70)	8.70	RD48 2021	79	75	1	75	1	150	2	75	1	75	2	75	2	75	1	300	6	0.95	1.32	50.00	6	8	S	
LF\BH01	10.20 (-2.92)	(10.20)	10.20	RD48 2021	79	75	2	75	2	150	4	75	2	75	3	75	4	75	5	300	14	1.00	1.32	21.43	14	18	S	
LF\BH01	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	
LF\BH01	13.20 (-5.92)	(13.20)	13.20	RD48 2021	79	75	4	75	5	150	9	75	5	75	6	75	7	75	6	300	24	1.00	1.32	12.50	24	32	S	
LF\BH01	14.70 (-7.42)	(14.70)	14.70	RD48 2021	79	75	6	75	6	150	12	75	4	75	5	75	4	75	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 :-	Client :-	AEG Contract No :-
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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
LF\BH01	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	
LF\BH01	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	
LF\BH01	25.10 (-17.82)	0.00 (25.10)	25.10	ATH05	59	75	2	75	3	150	5	75	3	75	3	75	2	75	3	300	11	1.00	0.98	27.27	11	11	S	
LF\BH01	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	
LF\BH02	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	
LF\BH02	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	
LF\BH02	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	
LF\BH02	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	
LF\BH02	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	
LF\BH02	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 :-	Client :-	AEG Contract No :-
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UKAS TESTING 1367

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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
LF\BH02	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	1.00	1.32	21.43	14	18	S	
LF\BH02	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	1.00	1.32	13.04	23	30	S	
LF\BH02	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	1.00	1.32	20.00	15	20	S	
LF\BH02	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	1.00	1.32	60.00	5	7	S	
LF\BH02	19.90 (-13.57)	0.00 (19.90)	19.90	ATH05	59	75	6	75	7	150	13	75	7	75	6	75	6	75	7	300	26	1.00	0.98	11.54	26	25	S	
LF\BH02	22.90 (-16.57)	0.00 (22.90)	22.90	ATH05	59	75	4	75	4	150	8	75	3	75	4	75	4	75	4	300	15	1.00	0.98	20.00	15	15	S	
MS\BH02	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	0.65	1.25	5.70	-	-	S	
MS\BH02	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	0.71	1.25	9.38	32	28	S	
MS\BH02	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	0.77	1.25	7.32	41	39	S	
MS\BH02	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	0.83	1.25	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.

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UKAS TESTING 1367

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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH02	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	
MS\BH03	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 SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

Contract Title :-	Client :-	AEG Contract No :-
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UKAS TESTING 1367

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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH03	2.70 (1.97)	(2.70)	2.70	RD53 2021	75	75	1	75	2	150	3	75	6	75	23	70	27			220	56	0.71	1.25	3.93	-	-	S	
MS\BH03	4.20 (0.47)	(4.20)	4.20	RD53 2021	75	75	4	75	7	150	11	75	10	75	12	75	15	75	14	300	51	0.77	1.25	5.88	51	49	S	
MS\BH03	5.70 (-1.03)	(5.70)	5.70	RD53 2021	75	75	3	75	7	150	10	75	9	75	15	75	15	65	11	290	50	0.83	1.25	5.80	-	-	S	
MS\BH03	7.20 (-2.53)	(7.20)	7.20	RD53 2021	75	75	6	75	9	150	15	75	9	75	10	75	11	75	13	300	43	0.89	1.25	6.98	43	48	S	
MS\BH03	8.70 (-4.03)	(8.70)	8.70	RD53 2021	75	75	3	75	2	150	5	75	4	75	8	75	11	75	12	300	35	0.95	1.25	8.57	35	42	S	
MS\BH03	10.20 (-5.53)	(10.20)	10.20	RD53 2021	75	75	2	75	0	150	2	75	1	75	1	75	1	75	1	300	4	1.00	1.25	75.00	4	5	S	
MS\BH03	14.50 (-9.83)	0.00 (14.50)	14.50	R07	63	75	0	75	1	150	1	75	1	75	1	75	2	75	2	300	6	1.00	1.05	50.00	6	6	S	
MS\BH03	17.50 (-12.83)	0.00 (17.50)	17.50	R07	63	75	2	75	3	150	5	75	3	75	4	75	4	75	5	300	16	1.00	1.05	18.75	16	17	S	
MS\BH03	20.50 (-15.83)	0.00 (20.50)	20.50	R07	63	75	1	75	1	150	2	75	2	75	3	75	4	75	4	300	13	1.00	1.05	23.08	13	14	S	
MS\BH03	23.50 (-18.83)	0.00 (23.50)	23.50	R07	63	75	3	75	4	150	7	75	5	75	8	75	13	75	15	300	41	1.00	1.05	7.32	41	43	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 :-	Client :-	AEG Contract No :-
Preliminary Onshore Ground Investigation for NZT	AECOM	4339

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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH04	1.20 (3.81)	(0.00)	1.20	RD53 2021	75	75	1	75	2	150	3	75	1	75	2	75	2	75	3	300	8	0.65	1.25	37.50	8	7	C	
MS\BH04	2.70 (2.31)	(2.70)	2.70	RD53 2021	75	75	4	75	5	150	9	75	6	75	7	75	7	75	9	300	29	0.71	1.25	10.34	29	26	S	
MS\BH04	4.20 (0.81)	(4.20)	4.20	RD53 2021	75	75	2	75	5	150	7	75	6	75	9	75	13	75	16	300	44	0.77	1.25	6.82	44	42	S	
MS\BH04	5.70 (-0.69)	(5.70)	5.70	RD53 2021	75	75	2	75	6	150	8	75	8	75	9	75	11	75	13	300	41	0.83	1.25	7.32	41	43	S	
MS\BH04	7.20 (-2.19)	(7.20)	7.20	RD53 2021	75	75	9	75	11	150	20	75	13	75	14	75	16	25	7	250	50	0.89	1.25	5.00	-	-	S	
MS\BH04	8.70 (-3.69)	(8.70)	8.70	RD53 2021	75	75	4	75	7	150	11	75	12	75	13	75	13	75	13	300	51	0.95	1.25	5.88	51	61	S	
MS\BH04	10.20 (-5.19)	(10.20)	10.20	RD53 2021	75	75	3	75	5	150	8	75	5	75	7	75	6	75	7	300	25	1.00	1.25	12.00	25	31	S	
MS\BH04	11.70 (-6.69)	(11.70)	11.70	RD53 2021	75	75	0	75	0	150	0	75	1	75	0	75	1	75	1	300	3	1.00	1.25	100.00	3	4	S	
MS\BH04	14.50 (-9.49)	0.00 (14.50)	14.50	ATH05	59	75	2	75	2	150	4	75	3	75	2	75	2	75	2	300	9	1.00	0.98	33.33	9	9	S	
MS\BH04	17.80 (-12.79)	0.00 (17.80)	17.80	ATH05	59	75	4	75	5	150	9	75	4	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 SPT'N' values are presented on the attached graphical plot relative to each Exploratory Hole.

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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH04	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	1.00	0.98	20.00	15	15	S	
MS\BH04	23.80 (-18.79)	0.00 (23.80)	23.80	ATH05	59	75	16	75	14	150	30	11	50							11	50	1.00	0.98	0.22	-	-	S	
MS\BH05	1.20 (6.28)	(0.00)	1.20	RD53 2021	75	10	25			10	25	0	50							0	50	0.65	1.25	0.00	-	-	C	
MS\BH05	2.70 (4.78)	(2.70)	2.70	RD53 2021	75	0	25			0	25	0	50							0	50	0.71	1.25	0.00	-	-	C	
MS\BH05	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	0.77	1.25	12.50	24	23	C	
MS\BH05	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	0.83	1.25	15.79	19	20	S	
MS\BH05	7.20 (0.28)	(7.20)	7.20	RD53 2021	75	75	8	75	10	150	18	75	14	75	14	75	16	25	6	250	50	0.89	1.25	5.00	-	-	S	
MS\BH05	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	0.95	1.25	6.25	48	57	S	
MS\BH05	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	1.00	1.25	6.12	49	61	S	
MS\BH05	11.70 (-4.22)	(11.70)	11.70	RD53 2021	75	75	6	75	11	150	17	75	13	75	14	7	23			157	50	1.00	1.25	3.14	-	-	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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UKAS TESTING 1367

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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH05	13.20 (-5.72)	(13.20)	13.20	RD53 2021	75	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	
MS\BH05	15.80 (-8.32)	0.00 (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	
MS\BH05	16.80 (-9.32)	0.00 (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	
MS\BH05	18.30 (-10.82)	0.00 (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	
MS\BH05	19.30 (-11.82)	0.00 (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	
MS\BH05	21.50 (-14.02)	0.00 (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	
MS\BH06	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	
MS\BH06	2.70 (5.28)	(2.70)	2.70	RD53 2021	75	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	
MS\BH06	4.20 (3.78)	(4.20)	4.20	RD53 2021	75	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	
MS\BH06	5.70 (2.28)	(5.70)	5.70	RD53 2021	75	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.

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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH06	7.20 (0.78)	(7.20)	7.20	RD53 2021	75	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	
MS\BH06	8.70 (-0.72)	(8.70)	8.70	RD53 2021	75	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	
MS\BH06	10.20 (-2.22)	(10.20)	10.20	RD53 2021	75	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	
MS\BH06	11.70 (-3.72)	(11.70)	11.70	RD53 2021	75	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	
MS\BH06	13.20 (-5.22)	(13.20)	13.20	RD53 2021	75	75	2	75	6	150	8	75	12	75	12	75	15	55	11	280	50	1.00	1.25	5.60	-	-	S	
MS\BH06	14.70 (-6.72)	(14.70)	14.70	RD53 2021	75	75	0	75	0	150	0	75	0	75	0	75	0	75	0	300	0	1.00	1.25		0	0	S	SPT sunk under weight of hammer (500mm).
MS\BH06	17.30 (-9.32)	0.00 (17.30)	17.30	RO7	63	75	2	75	5	150	7	75	5	75	5	75	6	75	7	300	23	1.00	1.05	13.04	23	24	S	
MS\BH06	19.80 (-11.82)	0.00 (19.80)	19.80	RO7	63	75	2	75	2	150	4	75	4	75	4	75	5	75	6	300	19	1.00	1.05	15.79	19	20	S	
MS\BH06	21.30 (-13.32)	0.00 (21.30)	21.30	RO7	63	75	4	75	2	150	6	75	3	75	6	75	7	75	8	300	24	1.00	1.05	12.50	24	25	S	
MS\BH07	1.20 (6.13)	(1.20)	1.20	RD53 2021	75	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.

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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

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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH07	2.70 (4.63)	(2.70)	2.70	RD53 2021	75	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	
MS\BH07	4.20 (3.13)	(4.20)	4.20	RD53 2021	75	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	
MS\BH07	5.70 (1.63)	(5.70)	5.70	RD53 2021	75	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	
MS\BH07	7.20 (0.13)	(7.20)	7.20	RD53 2021	75	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	
MS\BH07	8.70 (-1.37)	(8.70)	8.70	RD53 2021	75	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	
MS\BH07	10.20 (-2.87)	(10.20)	10.20	RD53 2021	75	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	
MS\BH07	11.70 (-4.37)	(11.70)	11.70	RD53 2021	75	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	
MS\BH07	13.20 (-5.87)	(13.20)	13.20	RD53 2021	75	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	
MS\BH07	18.30 (-10.97)	0.00 (18.30)	18.30	R07	63	75	3	75	2	150	5	75	3	75	4	75	4	75	5	300	16	1.00	1.05	18.75	16	17	S	
MS\BH07	21.30 (-13.97)	0.00 (21.30)	21.30	R07	63	75	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.

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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH07	24.90 (-17.57)	0.00 (24.90)	24.90	R07	63	75	6	75	7	150	13	75	8	75	8	75	7	75	9	300	32	1.00	1.05	9.38	32	34	C	
MS\BH07	25.90 (-18.57)	0.00 (25.90)	25.90	R07	63	75	7	75	9	150	16	75	10	75	10	75	12	75	15	300	47	1.00	1.05	6.38	47	49	C	
MS\BH08	1.20 (7.55)	(1.20)	1.20	RD53 2021	75	75	10	75	7	150	17	75	16	75	14	75	6	75	10	300	46	0.65	1.25	6.52	46	37	C	
MS\BH08	2.70 (6.05)	(2.70)	2.70	RD53 2021	75	75	1	75	1	150	2	75	1	75	2	75	2	75	6	300	11	0.71	1.25	27.27	11	10	C	
MS\BH08	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	
MS\BH08	5.70 (3.05)	(5.70)	5.70	RD53 2021	75	75	4	75	12	150	16	75	17	75	28	15	5			165	50	0.83	1.25	3.30	-	-	C	
MS\BH08	7.20 (1.55)	(7.20)	7.20	RD53 2021	75	75	2	75	3	150	5	75	2	75	4	75	3	75	3	300	12	0.89	1.25	25.00	12	13	S	
MS\BH08	10.20 (-1.46)	(10.20)	10.20	RD53 2021	75	75	0	75	0	150	0	75	0	75	1	75	1	75	2	300	4	1.00	1.25	75.00	4	5	S	
MS\BH08	11.70 (-2.96)	(11.70)	11.70	RD53 2021	75	75	1	75	1	150	2	75	2	75	3	75	3	75	4	300	12	1.00	1.25	25.00	12	15	S	
MS\BH08	13.20 (-4.46)	(13.20)	13.20	RD53 2021	75	75	3	75	3	150	6	75	4	75	5	75	5	75	9	300	23	1.00	1.25	13.04	23	29	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 :-	Client :-	AEG Contract No :-
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UKAS TESTING 1367

ALLIED EXPLORATION & GEOTECHNICS LIMITED

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH08	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	
MS\BH08	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	
MS\BH08	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	
MS\BH09	1.20 (6.27)	(1.20)	1.20	RD53 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	
MS\BH09	2.70 (4.77)	(2.70)	2.70	RD53 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	
MS\BH09	4.20 (3.27)	(4.20)	4.20	RD53 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	
MS\BH09	5.70 (1.77)	(5.70)	5.70	RD53 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	
MS\BH09	7.20 (0.27)	(7.20)	7.20	RD53 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	
MS\BH09	8.70 (-1.23)	(8.70)	8.70	RD53 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	
MS\BH09	10.20 (-2.73)	(10.20)	10.20	RD53 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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UKAS TESTING 1367

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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	Total Blows							
	m	m	m		%	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.	mm	No.						S/C	
MS\BH09	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	1.00	1.25	6.25	48	60	S	
MS\BH09	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	1.00	1.25	13.64	22	28	S	
MS\BH09	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	1.00	1.25	10.71	28	35	S	
MS\BH10	1.20 (6.30)	(0.00)	1.20	RD53 2021	75	30	25			30	25	15	50							15	50	0.65	1.25	0.30	-	-	C	
MS\BH10	2.70 (4.80)	(2.70)	2.70	RD53 2021	75	75	1	75	2	150	3	75	15	75	35					150	50	0.71	1.25	3.00	-	-	C	
MS\BH10	4.20 (3.30)	(4.20)	4.20	RD53 2021	75	75	7	75	10	150	17	75	24	75	21	25	5			175	50	0.77	1.25	3.50	-	-	C	
MS\BH10	5.70 (1.80)	(5.70)	5.70	RD53 2021	75	75	5	75	9	150	14	75	11	75	15	75	15	75	16	300	57	0.83	1.25	5.26	57	59	S	
MS\BH10	7.20 (0.30)	(7.20)	7.20	RD53 2021	75	75	4	75	9	150	13	75	9	75	9	75	10	75	9	300	37	0.89	1.25	8.11	37	41	S	
MS\BH10	8.70 (-1.20)	(8.70)	8.70	RD53 2021	75	75	4	75	8	150	12	75	10	75	10	75	11	75	12	300	43	0.95	1.25	6.98	43	51	S	
MS\BH10	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	1.00	1.25	5.66	53	66	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 :-	Client :-	AEG Contract No :-
Preliminary Onshore Ground Investigation for NZT	AECOM	4339

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