GEOTECH TESTING PTY LTD ®
ABN 71 076 676 321

Job No: 8599/150
Our Ref: 8599/150-AA
12 September 2025

Daracon Engineering Pty Ltd
184 Adderley Street West
AUBURN NSW 2144
Email: Simpson.wong@daracon.com.au
Copy: Chandan.naidu@daracon.com.au & Sabina.moktan@daracon.com.au

Attention: Mr S Wong

Dear Sir

Re: **Proposed Residential Subdivision**
Newpark Precinct 7H, Marsden Park NSW
Post Earthworks Salinity Assessment – Exposure Classification

At your request, Geotech Testing Pty Ltd conducted a salinity and aggressivity assessment at the above site after completion of earthworks. This report provides exposure classification of the proposed lots at Precinct 7H of the above development. A total of two hundred and fifty (250) lots were included in this investigation (Lots 8701 to 8950).

Field Work
Field work for this investigation was carried out on 14, 28 and 29 August 2025, and consisted of the following:

- Carry out a walk over survey to assess existing geological and geotechnical conditions within and in the vicinity of the site.
- Excavate ninety (90) test pits (TP1 to TP90) to depths up to 1.5m using a small 5 tonne excavator. Test pits were excavated along the boundary lines between lots, and their locations are shown on the attached Drawing No 8599/150-AA1.
- Recovery of representative soil samples from test pits for laboratory testing.

The field work was supervised by a Geotechnical Engineer from this company, who was responsible for nominating test pit locations, recovering samples, and preparation of field logs.

Site Conditions
The site is of regular shape and is located at the end of Flametree Drive, Marsden Park, NSW. It is bounded by open grassland with limited vegetation to the north and west, and by bushland to the east, beyond which medium to high density residential areas are situated. The southern boundary adjoins medium to high density residential development. The topography of the site is relatively flat. At the time of the investigation, significant progress had been made in site preparation. Bulk earthworks for the lots and internal roads (excluding AC) had been completed, providing a level and appropriately graded surface for future construction.

Sub-surface Conditions

Sub-surface conditions encountered at the site are detailed in the attached Table A and are summarised below in Table 1.

Table 1: Sub-surface Conditions

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)
TP1	0.0-0.5	NE	0.0-0.3	0.3→0.5
TP2	0.0-1.5	NE	0.0-0.5	0.5→1.5
TP3	0.0-1.2	NE	0.0-0.3	0.0→1.2
TP4	0.0-0.6	NE	0.0-0.3	0.3→0.6
TP5	0.0-1.0	NE	0.0-0.3	0.3→1.0
TP6	0.0-0.6	NE	0.0-0.3	0.3→0.6
TP7	0.0-0.6	NE	0.0-0.2	0.2→0.6
TP8	0.0-0.6	NE	0.0-0.3	0.3→0.6
TP9	0.0-1.2	NE	0.0-0.3	0.3→1.2
TP10	0.0-0.7	NE	0.0-0.3	0.3→0.7
TP11	0.0-0.9	NE	0.0-0.5	0.5→0.9
TP12	0.0-1.2	NE	0.0-0.3	0.3→1.2
TP13	0.0-0.7	NE	0.0-0.3	0.3→0.7
TP14	0.0-0.8	NE	0.0-0.3	0.3→0.8
TP15	0.0-0.6	NE	0.0-0.3	0.3→0.6
TP16	0.0-0.7	NE	0.0-0.3	0.3→0.7
TP17	0.0-0.8	NE	0.0-0.3	0.3→1.0
TP18	0.0-1.5	NE	0.0-0.3	0.3→1.5
TP19	0.0-1.5	NE	0.0-0.3	0.3→1.5
TP20	0.0-1.5	NE	0.0-0.3	0.3→1.5
TP21	0.0-0.6	NE	0.0-0.2	0.2→0.6
TP22	0.0-0.7	NE	0.0-0.2	0.2→0.7
TP23	0.0-0.7	NE	0.0-0.2	0.2→0.7
TP24	0.0-0.7	NE	0.0-0.2	0.2→0.7
TP25	0.0-1.5	NE	0.0-0.5	0.5→1.5
TP26	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP27	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP28	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP29	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP30	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP31	0.0-1.5	0.0-0.2	0.2-1.5	NE
TP32	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP33	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP34	0.0-1.5	0.0-0.2	0.2-1.2	1.2→1.5
TP35	0.0-1.5	0.0-0.2	0.2-0.8	0.8→1.5
TP36	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)
TP37	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP38	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP39	0.0-1.5	0.0-0.3	0.3-0.5	0.5→1.5
TP40	0.0-1.5	0.0-0.3	0.3-0.5	0.5→1.5
TP41	0.0-1.5	0.0-0.3	0.3-0.5	0.5→1.5
TP42	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP43	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP44	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP45	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP46	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP47	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP48	0.0-1.5	0.0-0.3	0.3-0.5	0.5→1.5
TP49	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP50	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP51	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP52	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP53	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP54	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP55	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP56	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP57	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP58	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP59	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP60	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP61	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP62	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP63	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP64	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP65	0.0-1.5	0.0-0.2	0.2-0.6	0.6→1.5
TP66	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP67	0.0-1.5	0.0-0.2	0.2-0.4	0.4→1.5
TP68	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP69	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP70	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP71	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP72	0.0-1.5	NE	0.0-0.6	0.6→1.5
TP73	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP74	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP75	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP76	0.0-1.5	NE	0.0-0.2	0.2→1.5

Test Pit	Termination Depth (m)	Topsoil (m)	Fill (m)	Natural (m)
TP77	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP78	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP79	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP80	0.0-1.5	NE	0.0-0.5	0.5→1.5
TP81	0.0-1.5	NE	0.0-0.2	0.2→1.5
TP82	0.0-1.5	NE	0.0-0.5	0.5→1.5
TP83	0.0-1.5	NE	0.0-0.5	0.5→1.5
TP84	0.0-1.5	NE	0.0-0.7	0.7→1.5
TP85	0.0-1.5	NE	0.0-0.7	0.7→1.5
TP86	0.0-1.5	NE	0.0-0.7	0.7→1.5
TP87	0.0-1.5	0.0-0.2	0.2-0.5	0.5→1.5
TP88	0.0-1.5	NE	0.0-0.7	0.7→1.5
TP89	0.0-1.5	0.0-0.2	NE	0.2→1.5
TP90	0.0-1.5	0.0-0.5	NE	0.5→1.5

NE: Not encountered to the termination depth

The materials encountered in the test pits can be generalised as below:

Fill	Silty Clay, low plasticity, dark grey, trace gravel and organic matter
Natural	Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, trace sand Silty Clay, low to medium plasticity, brown, with fine to coarse subangular gravel, trace sand Silty Clay, medium to high plasticity, red-brown mottled grey-orange/brown mottled grey-red-orange, with fine to coarse grained sand and gravel Clayey Gravel, fine to coarse grained, brown-grey-red, medium plasticity clay, with sand, dense Clayey Gravel, fine to coarse grained, brown-grey-red, medium plasticity clay, with sand, dense
Bedrock	Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, very stiff Silty CLAY, medium to high plasticity, pale grey-orange-red/ brown mottled grey-red, with fine to cobble grained subrounded gravel, trace ironstone pockets, stiff Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, stiff Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, stiff Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand with fine to coarse subangular gravel, stiff Gravelly CLAY, medium plasticity/ medium to high plasticity, brown-orange-grey/ brown mottled grey-red-orange, medium grained subrounded cobbles, very stiff Clayey Sandy GRAVEL, fine to cobble grained, brown-grey-red, fine to coarse grained sand, moist, very dense

Groundwater Condition

Groundwater was not observed in the test pits during the short time that they remained open. It must be noted that fluctuations in the level of groundwater might occur due to variations in rainfall, temperature, and/or other factors not evident during the investigation.

Exposure Classification

Laboratory Testing

During field work, a total of 164 soil samples were collected (two from each test pit) for chemical testing in the NATA accredited laboratory of SGS for salinity and acidity properties. The laboratory test results certificates from SGS are attached at the end of this report and are summarised in Table 2 along with exposure classification.

Table 2: Laboratory Tests Results

Test Pit	Depth (m)	PH	EC (µS/cm)	MF	ECe (dS/m)	Exposure Classification
TP1	0.4-0.5	6.7	820	14	11.5	B1
TP2	0.4-0.5	7	470	8.5	4.0	A1
TP2	1.0-1.1	5	750	8.5	6.4	A2
TP3	0.4-0.5	5.7	120	7	0.8	A1
TP3	1.0-1.1	4.8	930	14	13.0	B1
TP4	0.4-0.5	5.2	300	14	4.2	A2
TP5	0.4-0.5	5.4	63	14	0.9	A2
TP6	0.4-0.5	5.8	78	14	1.1	A1
TP7	0.4-0.5	5.4	84	7	0.6	A2
TP8	0.4-0.5	4.7	210	7	1.5	A2
TP9	0.4-0.5	5.4	330	8.5	2.8	A2
TP9	1.0-1.1	5.1	590	7	4.1	A2
TP10	0.4-0.5	5.4	180	14	2.5	A1
TP11	0.4-0.5	8	720	9	6.5	A2
TP11	0.8-0.9	7.1	150	7	1.1	A1
TP12	0.4-0.5	5.4	66	7	0.5	A2
TP12	1.0-1.1	5.5	48	7	0.3	A1
TP13	0.4-0.5	4.9	250	7	1.8	A2
TP14	0.4-0.5	4.9	250	7	1.8	A2
TP15	0.4-0.5	4.9	410	7	2.9	A2
TP16	0.4-0.5	6	470	7	3.3	A1
TP17	0.4-0.5	6.2	210	8.5	1.8	A1
TP17	0.8-0.9	7.1	180	17	3.1	A2
TP18	0.4-0.5	5.9	130	8.5	1.1	A1

Test Pit	Depth (m)	PH	EC (µS/cm)	MF	ECe (dS/m)	Exposure Classification
TP19	0.4-0.5	6.2	180	8.5	1.5	A1
TP20	0.4-0.5	7	130	8.5	1.1	A1
TP21	0.4-0.5	5.7	480	8.5	4.1	A2
TP22	0.4-0.5	5.1	540	17	9.2	B1
TP23	0.4-0.5	5.3	53	7	0.4	A2
TP24	0.4-0.5	5.3	110	14	1.5	A2
TP25	0.4-0.5	5.5	130	9	1.2	A2
TP25	1.0-1.1	5.5	68	8.5	0.6	A1
TP26	0.4-0.5	5.9	180	9	1.6	A1
TP26	1.0-1.1	5.8	92	9	0.8	A1
TP27	0.4-0.5	5.6	290	8	2.3	A1
TP28	0.5-0.6	5.5	320	8	2.6	A1
TP29	0.4-0.5	6.7	580	6	3.5	A1
TP30	0.4-0.5	5.3	260	7	1.8	A2
TP31	0.4-0.5	5.7	58	7	0.4	A1
TP33	0.4-0.5	5.8	170	7	1.2	A1
TP34	0.4-0.5	7.4	320	7	2.2	A1
TP35	0.4-0.5	5.2	300	7	2.1	A2
TP36	0.4-0.5	5.2	180	7	1.3	A2
TP36	1.0-1.1	5.8	170	8	1.4	A1
TP37	0.4-0.5	5.7	270	8	2.2	A1
TP38	0.4-0.5	5.8	270	7	1.9	A1
TP39	0.4-0.5	7.8	770	7	5.4	A2
TP40	0.4-0.5	7.8	850	7	6.0	A2
TP41	0.4-0.5	6.6	310	7	2.2	A1
TP42	0.4-0.5	6.6	360	7	2.5	A1
TP43	0.4-0.5	5.5	270	7	1.9	A1
TP44	0.4-0.5	5.5	150	7	1.1	A1
TP44	1.0-1.1	5.2	350	6	2.1	A2
TP45	0.4-0.5	7	380	8	3.0	A1
TP46	0.4-0.5	7	260	7	1.8	A1
TP47	0.4-0.5	7.1	540	7	3.8	A1
TP48	0.4-0.5	6.4	180	7	1.3	A1
TP49	0.4-0.5	6.5	430	8	3.4	A1

Test Pit	Depth (m)	PH	EC (µS/cm)	MF	ECe (dS/m)	Exposure Classification
TP50	0.4-0.5	4.9	390	8	3.1	A2
TP50	1.0-1.1	5.9	400	8	3.2	A1
TP51	0.4-0.5	5.6	420	6	2.5	A1
TP52	0.4-0.5	5.5	530	7	3.7	A1
TP53	0.4-0.5	5.8	290	8	2.3	A1
TP54	0.4-0.5	5.5	180	8	1.4	A1
TP55	0.4-0.5	5.7	230	7	1.6	A1
TP56	0.4-0.5	5.9	270	7	1.9	A1
TP57	0.4-0.5	5.7	210	6	1.3	A1
TP58	0.4-0.5	6.1	180	6	1.1	A1
TP59	0.4-0.5	5.3	250	6	1.5	A2
TP60	0.4-0.5	6.1	220	7	1.5	A1
TP61	0.4-0.5	5	630	6	3.8	A2
TP62	0.4-0.5	6	370	6	2.2	A1
TP63	0.4-0.5	5.1	560	7	3.9	A2
TP64	0.4-0.5	6.1	560	7	3.9	A1
TP65	0.4-0.5	5.7	310	14	4.3	A2
TP66	0.4-0.5	5.6	290	6	1.7	A1
TP67	0.4-0.5	5.5	250	8	2.0	A1
TP68	0.4-0.5	5.3	190	6	1.1	A2
TP69	0.4-0.5	5.6	300	6	1.8	A1
TP70	0.4-0.5	5.9	220	8	1.8	A1
TP71	0.4-0.5	5.4	290	8	2.3	A2
TP72	0.4-0.5	5.5	240	7	1.7	A1
TP73	0.4-0.5	4.9	670	8	5.4	A2
TP74	0.4-0.5	5.6	260	8	2.1	A1
TP75	0.4-0.5	5.5	240	8	1.9	A1
TP76	0.4-0.5	5.3	340	8	2.7	A2
TP77	0.4-0.5	5.5	320	8	2.6	A1
TP78	0.4-0.5	5.9	120	7	0.8	A1
TP79	0.4-0.5	6.1	130	7	0.9	A1
TP80	0.4-0.5	5.6	180	7	1.3	A1
TP81	0.4-0.5	5.5	250	7	1.8	A1
TP82	0.4-0.5	6	120	7	0.8	A1

Test Pit	Depth (m)	PH	EC (µS/cm)	MF	ECe (dS/m)	Exposure Classification
TP83	0.4-0.5	6	170	6	1.0	A1
TP84	0.4-0.5	5.5	220	7	1.5	A1
TP85	0.4-0.5	5.2	480	8	3.8	A2
TP86	0.4-0.5	5	540	6	3.2	A2
TP87	0.4-0.5	5.8	110	7	0.8	A1
TP88	0.4-0.5	5.8	89	6	0.5	A1
TP89	0.4-0.5	5.4	140	6	0.8	A2
TP90	0.4-0.5	6.4	250	7	1.8	A1

** The multiplication factor (MF) is a function of the soil texture and description (Site Investigations for Urban Salinity – 2002)*

Specifications

Electrical Conductivity (EC) testing was carried out to assess soil salinity, as outlined in the Department of Environment and Heritage (DEH) publication, "*Site Investigations for Urban Salinity - 2002*". The test conducted on a soil sample for salinity is generally made up of 1:5 soil water suspension, which is one part air dried soil to five parts distilled water. The determined EC is multiplied by a factor based on the texture of the soil sample (varying from 6 to 17) to obtain Corrected Electrical Conductivity, designated as EC_e. Based on site observation, a multiplication factor of 6 to 17 was used for the soil encountered during field work. The DEH publication defines various classes of saline soils as detailed below.

Classification	EC_e (dS/m)	Exposure Classification AS2870-2011
Non-saline	<2	A1
Slightly saline	2 – 4	
Moderately saline	4 – 8	A2
Very saline	8 – 16	B1
Highly saline	>16	B2

Acidity (pH) testing was also conducted to determine the aggressivity of the soils to steel and concrete. The various classes of aggressive soils are defined as follows according to AS2870-2011.

Classification	pH	Exposure Classification AS2870-2011
Non-aggressive	>5.5	A1
Mild	4.5-5.5	A2
Moderate	4.0-4.5	B1
Severe	<4.0	B2

Based on the results, it is assessed that soils at the site are generally moderately saline and mildly aggressive to steel and concrete.

Conclusion

Based on the procedures described in AS2870-2011, the exposure classifications for the proposed lots are shown below in Tables 3.

Table 3 – Site Exposure Classifications (AS2870-2011)

Lot	Exposure Classification	Lot	Exposure Classification	Lot	Exposure Classification
8701	B1	8785	A2	8869	A1
8702	B1	8786	A2	8870	A1
8703	B1	8787	A2	8871	A1
8704	B1	8788	A1	8872	A1
8705	B1	8789	A1	8873	A1
8706	B1	8790	A1	8874	A1
8707	B1	8791	A1	8875	A1
8708	A2	8792	A1	8876	A1
8709	A2	8793	A1	8877	A1
8710	A2	8794	A1	8878	A2
8711	A2	8795	A1	8879	A2
8712	A2	8796	A1	8880	A1
8713	A2	8797	A1	8881	A1
8714	A2	8798	A1	8882	A1
8715	A2	8799	A1	8883	A1
8716	A2	8800	A1	8884	A2
8717	A2	8801	A1	8885	A2
8718	A2	8802	A1	8886	A2
8719	A2	8803	A1	8887	A2
8720	A2	8804	A1	8888	A2
8721	A2	8805	A1	8889	A1
8722	A2	8806	A1	8890	A1
8723	A2	8807	A1	8891	A1
8724	A2	8808	A1	8892	A1
8725	A2	8809	A1	8893	A1
8726	A2	8810	A1	8894	A1
8727	A2	8811	A1	8895	A1
8728	A2	8812	A2	8896	A1
8729	A2	8813	A2	8897	A1
8730	A2	8814	A2	8898	A1
8731	B1	8815	A2	8899	A1
8732	B1	8816	A2	8900	A1
8733	B1	8817	A1	8901	A1
8734	A1	8818	A1	8902	A1
8735	A1	8819	A1	8903	A1

Lot	Exposure Classification	Lot	Exposure Classification	Lot	Exposure Classification
8736	A1	8820	A1	8904	A1
8737	A1	8821	A1	8905	A1
8738	A1	8822	A1	8906	A1
8739	A2	8823	A1	8907	A1
8740	A2	8824	A1	8908	A1
8741	A2	8825	A1	8909	A2
8742	B1	8826	A1	8910	A1
8743	B1	8827	A1	8911	A1
8744	A2	8828	A1	8912	A2
8745	A2	8829	A1	8913	A2
8746	A2	8830	A1	8914	A2
8747	A2	8831	A1	8915	A2
8748	A2	8832	A1	8916	A2
8749	A2	8833	A1	8917	A1
8750	A2	8834	A1	8918	A1
8751	A2	8835	A1	8919	A1
8752	A2	8836	A1	8920	A1
8753	A1	8837	A1	8921	A1
8754	A1	8838	A1	8922	A1
8755	A1	8839	A1	8923	A1
8756	A2	8840	A1	8924	A1
8757	A2	8841	A1	8925	A1
8758	A2	8842	A2	8926	A1
8759	A2	8843	A2	8927	A1
8760	A2	8844	A2	8928	A1
8761	A2	8845	A1	8929	A1
8762	A2	8846	A1	8930	A1
8763	A2	8847	A1	8931	A1
8764	A2	8848	A1	8932	A1
8765	A2	8849	A1	8933	A2
8766	A2	8850	A2	8934	A2
8767	A2	8851	A2	8935	A2
8768	A2	8852	A2	8936	A2
8769	A2	8853	A2	8937	A2
8770	A1	8854	A1	8938	A1
8771	A1	8855	A1	8939	A1
8772	A1	8856	A1	8940	A1
8773	A1	8857	A1	8941	A1
8774	A1	8858	A1	8942	A1

Lot	Exposure Classification	Lot	Exposure Classification	Lot	Exposure Classification
8775	A1	8859	A1	8943	A1
8776	A1	8860	A1	8944	A1
8777	A1	8861	A1	8945	A2
8778	A1	8862	A1	8946	A2
8779	A1	8863	A1	8947	A2
8780	A1	8864	A1	8948	A1
8781	A1	8865	A1	8949	A1
8782	A2	8866	A1	8950	A1
8783	A2	8867	A1		
8784	A2	8868	A1		

Based on the results of the post site works salinity assessment, the site is suitable for the residential subdivision development. The construction requirements for A1, A2 and B1 classifications are shown below (AS2870-2011, Table 5.3).

Classification	Minimum Design Characteristic Strength	Minimum Initial Curing
A1	20 MPa	3 days
A2	25 MPa	3 days
B1	32 MPa	7 days

If you have any questions, please do not hesitate to contact the undersigned.

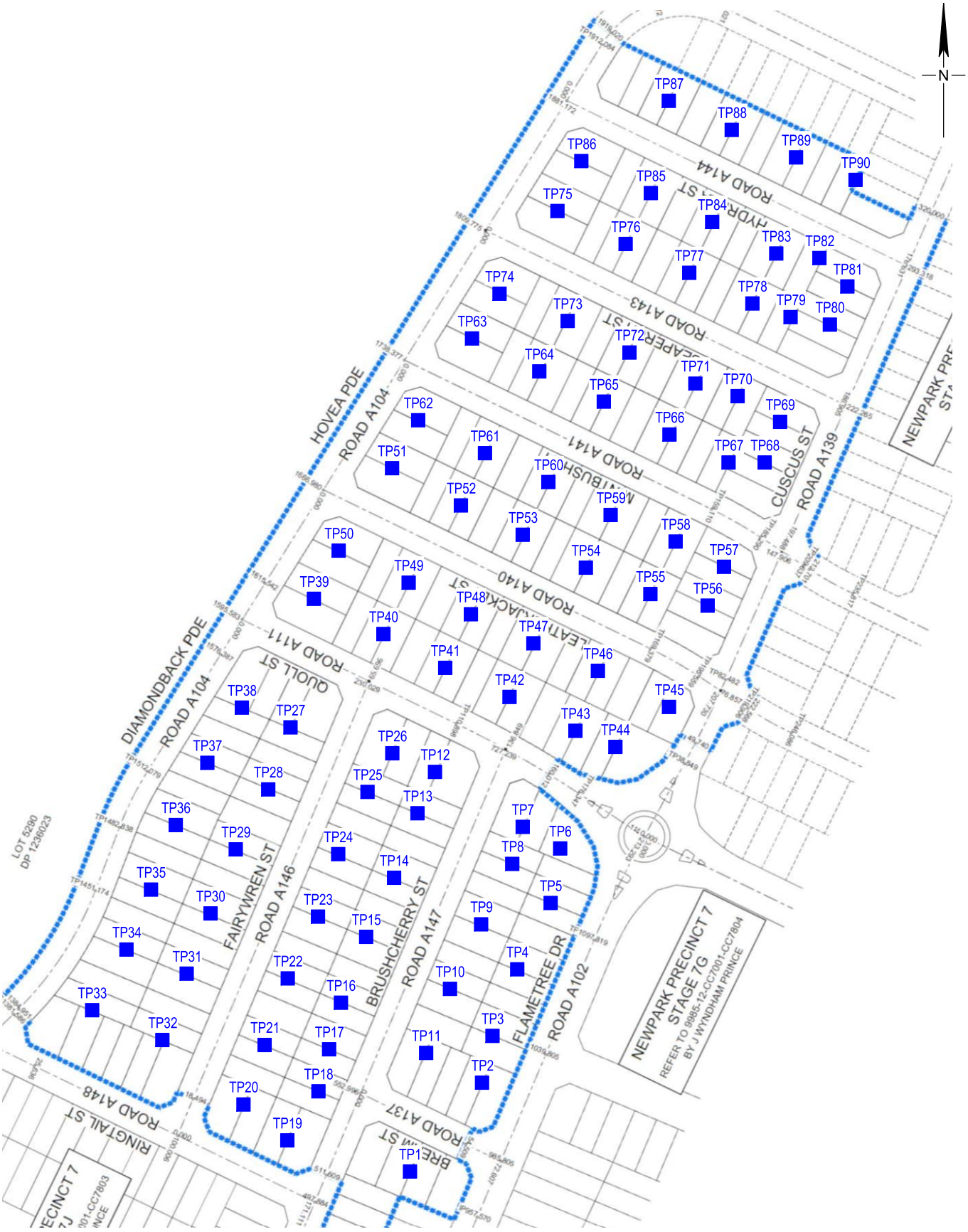
Yours faithfully
GEOTECH TESTING PTY LTD

Reviewed By:

KUBER KHADKA
Geotechnical Engineer

EMGED RIZKALLA
Director

Attached Drawing No 8599/149-AA1 - Test Pit Location Plan
Table A – Summary of Test Pits
SGS Laboratory Test Results



GEOTECH TESTING PTY LTD ®
34 Borec Road
Penrith
NSW 2750
ABN 71 076 676 321
Ph: 02 4722 2744
e-mail:info@geotech.com.au
www.geotech.com.au

Daracon Engineering Pty Limited
Newpark Precinct 7H
Marsden Park

Test Pit Locations

Drawing No: 8599/149-AA1
Job No: 8599/149
Drawn By: MH
Date: 8 September 2025
Checked By: SB/MM/JC

File No: 8599-149
Layers: 0, AA1

TABLE A

Job No: 8599/149
Our Ref: 8599/149-AA

TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP1	0.0-0.3		FILL: Silty Clay, low to medium plasticity, brown, with fine to coarse subangular gravel, trace sand M<PL, well compacted
	0.3-0.5	(0.4-0.5) DS	(GP) Sandy GRAVEL, fine to cobble grained, grey brown, moist, Very Stiff
			Refusal on gravel
TP2	0.0-0.5	(0.4-0.5) DS	FILL: Silty Clay, low to medium plasticity, brown, with fine to coarse subangular gravel, trace sand M<PL, well compacted
	0.5-1.5	(1.0-1.1) DS	(CL-CI) Silty CLAY, low to medium plasticity, pale grey orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
TP3	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.1	(0.4-0.5) DS	(CL-CH) Silty CLAY, medium to high plasticity, pale grey-orange red, with fine to cobble grained subrounded gravel, trace ironstone pockets, M≤PL, stiff
	1.1-1.2	(0.5-0.7) U50 (1.0-1.1) DS	(GP) Sandy GRAVEL, fine to cobble grained, grey-brown, moist, Very Stiff
			Refusal on gravel
TP4	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.6	(0.4-0.5) DS	(GM) Clayey Sandy GRAVEL, fine to cobble grained, brown-grey-red, fine to coarse grained sand, moist, very dense
			Refusal on gravel
TP5	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-1.0	(0.4-0.5) DS	(GM) Clayey Sandy GRAVEL, fine to cobble grained, brown-grey-red, fine to coarse grained sand, moist, very dense
			Refusal on gravel

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
P6	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.6	(0.4-0.5) DS	(GP) Sandy GRAVEL, fine to cobble grained, grey, fine to medium grained sand, moist, very dense
			Refusal on gravel
TP7	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.5	(0.4-0.5) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
	0.5-0.6		(GP) Sandy GRAVEL, fine to cobble grained, grey-brown, moist, Very Stiff
			Refusal on gravel
TP8	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.6	(0.4-0.6) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP9	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.0	(0.4-0.5) DS (0.5-0.7) U50	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
	1.0-1.2	(1.0-1.1) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP10	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.7	(0.4-0.5) DS	(GP) Sandy GRAVEL, fine to cobble grained, pale grey, fine to coarse grained sand, trace ironstone pockets, moist, very dense
			Refusal on gravel

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP11	0.0-0.5	(0.4-0.5) DS	FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.5-0.9	(0.8-0.9) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP12	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.2	(0.4-0.5) DS (1.0-1.1) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP13	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.7	(0.4-0.5) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP14	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.8	0.4-0.5 DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel
TP15	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.6	(0.4-0.5) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
			Refusal on gravel

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP16	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.7	(0.4-0.5) DS	(CL-CH) Silty CLAY, medium to high plasticity, pale grey-orange-red, with fine to cobble grained subrounded gravel, trace ironstone pockets, M≤PL, stiff
			Refusal on gravel
TP17	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-0.8	(0.4-0.5) DS	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
	0.8-1.0	(0.8-0.9) DS	(GM) Clayey Sandy GRAVEL, fine to cobble grained, brown-grey-red, fine to coarse grained sand, moist, very dense
			Refusal on gravel
TP18	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.5	(0.4-0.5) DS (0.5-0.7) U50	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
TP19	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.5	(0.4-0.5) DS	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
TP20	0.0-0.3		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.3-1.5	(0.4-0.5) DS	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
			Refusal on gravel

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP21	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.6	(0.4-0.5) DS	(CL-CI) Silty CLAY, low to medium plasticity, pale grey-orange, with fine to cobble subrounded gravel, trace ironstone pockets, M≤PL, very stiff
			Refusal on gravel
TP22	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.4		(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
	0.4-0.7	(0.4-0.5) DS	(GP) Sandy GRAVEL, fine to cobble grained, grey-brown, moist, Very Stiff
			Refusal on gravel
TP23	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.5	(0.4-0.5) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
	0.5-0.7		(GP) Sandy GRAVEL, fine to cobble grained, grey-brown, moist, Very Stiff
			Refusal on gravel
TP24	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.5	(0.4-0.5) DS	(CL-CH) Gravelly CLAY, medium to high plasticity, brown-orange-grey, medium grained subrounded cobbles, M≤PL, very stiff
	0.5-0.7	1.0-1.1 DS	(GP) Sandy GRAVEL, fine to cobble grained, grey-brown, moist, Very Stiff
			Refusal on gravel

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP25	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-0.5	(0.4-0.5) DS	FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.5-1.0	(0.5-0.7) ATT	(CL-CH) Silty CLAY, medium to high plasticity, brown, orange, with fine to cobble grained subrounded gravel, trace sand, M≤PL, stiff
	1.0-1.5		(CL) Silty CLAY, low to medium plasticity, pale brown, orange, with fine to cobble subrounded gravel, trace sand, M≤PL, stiff
TP26	0.0-0.2		FILL: Silty Clay, low plasticity, dark brown, with fine to coarse subangular gravel, M≤PL, well compacted
	0.2-1.5	(0.4-0.5) DS (1.0-1.1) DS	(CL) Gravelly CLAY, low plasticity brown, fine to cobble grained gravel, trace sand M≤PL, very stiff
TP27	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.5-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, very stiff
TP28	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.4-1.5	0.4-0.5(DS) 0.5-0.6(DS)	(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red-orange, fine to coarse grained gravel with sand, M≤PL, very stiff
TP29	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M< PL, stiff – very stiff
	0.4-1.5	0.4-0.5(DS) 0.4-0.6(U50)	(CH) Silty CLAY, high plasticity, grey mottled brown, trace gravel and sand, M< PL, stiff – very stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP30	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M≤PL, well compacted
	0.5-1.5		(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
TP31	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-1.2	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<PL, stiff
	1.2-1.5		FILL: Silty Clay, medium to high plasticity, red brown mottled orange, with fine to coarse grained sand and gravel, M<PL, well compacted
TP32	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Clayey Gravel, fine to coarse gravel, brown-grey-red, medium plasticity clay, with sand, dense, M≤PL well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP33	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, dark brown mottled grey, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-0.7		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff-very stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP34	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-1.2	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	1.2-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP35	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.8	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red-orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.8-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP36	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M≈PL, well compacted
	0.5-1.2	1.0-1.1(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled red-brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	1.2-1.5		(GC) Clayey GRAVEL, fine to coarse gravel, pale grey mottled brown, medium plasticity with sand, moist, dense
TP37	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Silty Clay, medium to high plasticity, red brown mottled grey-orange, with fine to coarse grained sand and gravel, M<PL, well compacted
	0.4-1.0	0.4-0.5(DS) 0.5-0.7(ATT)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	1.0-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff - very stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP38	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red brown mottled grey-orange, with fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL, well compacted
	0.5-1.2		(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M<PL, stiff-very stiff
	1.2-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M≤PL, stiff
TP39	0.0-0.3		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.3-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5		(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
TP40	0.0-0.3		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.3-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand, with fine to coarse sub-angular gravel gravel, M≤PL well compacted
	0.5-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP41	0.0-0.3		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.3-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP42	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Silty Clay, medium to high plasticity, red brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.4-1.5	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP43	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP44	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.4-1.0		(CH) Silty CLAY, high plasticity, red brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
	1.0-1.5	1.0-1.5(DS)	(CI-CH) Silty CLAY, medium to high plasticity, red-brown mottled grey, with fine to coarse sub-angular gravel, M≈PL, stiff
TP45	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Silty Clay, medium to high plasticity, red brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.4-1.0	0.4-0.5(DS) 0.5-0.7(U50)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	1.0-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP46	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.4-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP47	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP48	0.0-0.3		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.3-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP49	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.4-1.5	0.4-0.5(DS) 0.5-07(U50)	(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red orange, fine to coarse grained gravel with sand, M≤PL, very stiff
TP50	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		(CH) Silty CLAY, high plasticity, red brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
	0.4-1.5	0.4-0.5(DS) 1.0-1.1(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP51	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red-orange, fine to coarse grained gravel with sand, M≤PL, very stiff
	0.4-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP52	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.5-1.5		(CH) Silty CLAY, high plasticity, red brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP53	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.8	0.4-0.5(DS)	(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red orange, fine to coarse grained gravel, M≤PL, very stiff
	0.8-1.5		(CI-CH) Silty CLAY, medium to high plasticity, red brown mottled grey, fine to coarse grained gravel, M<PL, very stiff
TP54	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP55	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP56	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5	0.5-0.7(U50)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP57	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red-orange, fine to coarse grained sand, with fine to coarse sub-angular gravel, M≤PL well compacted
	0.4-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP58	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP59	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.6	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
	0.6-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP60	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red-orange, fine to coarse grained sand with fine to coarse sub-angular gravel, M≤PL well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP61	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.6	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
	0.6-1.5	0.5-07(ATT)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP62	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.6	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, grey mottled brown, trace gravel and sand, M≈PL, stiff
	0.6-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP63	0.0-0.2		FILL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-1.5	0.4-0.5(DS)	(CI-CH)Silty CLAY, medium to high plasticity, brown mottled grey-red, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff @0.5m, red-brown mottled grey-orange
TP64	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	(CI-CH) Silty CLAY, medium to high plasticity, brown mottled grey-red, fine to coarse grained sand with fine to coarse sub-angular gravel, M<PL, stiff
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP65	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.6	0.4-0.5(DS)	FILL: Clayey Gravel, fine to coarse gravel, brown-grey-red, medium plasticity clay, trace sand, M≤PL well compacted
	0.6-1.5	0.5-0.7(ATT)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP66	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel
	0.4-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP67	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.4		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel
	0.4-0.6	0.4-0.5(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.6-1.5		(CH) Silty CLAY, medium to high plasticity, red brown mottled grey, fine to coarse grained sand and gravel, M≤ PL, very stiff
TP68	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.6	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, grey mottled brown, trace gravel and sand, M≈PL, stiff
	0.6-1.5		(CI-CH)) Silty CLAY, medium to high plasticity, red-brown mottled-grey, fine to coarse grained sand and gravel, M≤PL, very stiff
TP69	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.6	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, grey mottled brown, trace gravel and sand, M≈PL, stiff
	0.6-1.5		(CI-CH) Silty CLAY, medium to high plasticity, red brown mottled grey, with fine to coarse grained sand and gravel, M≤ PL, very stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP70	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.5	0.4-0.5(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.5-1.5		(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red orange, fine to coarse grained gravel, with sand, M≤PL, very stiff
TP71	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.7	0.4-0.5(DS) 0.5-0.7 (U50)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP72	0.0-0.6	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.6-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP73	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.7	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP74	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-1.5	0.4-0.5(DS)	(CI) Gravelly CLAY, medium plasticity, brown mottled grey-red orange, fine to coarse grained gravel with sand, M≤PL, very stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP75	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.7	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, very stiff
TP76	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.6	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	0.6-1.5	0.5-0.7(ATT)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, very stiff
TP77	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.8	0.4-0.5(DS)	(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
	0.8-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP78	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, well compacted
	0.5-1.5		(CI-CH) Silty CLAY, medium to high plasticity, red-brown mottled grey-orange, fine to coarse grained sand and, M<PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP79	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-1.5	05-0.7(ATT)	(CI) Sandy CLAY, medium plasticity, pale grey, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff @0.7m, grey mottled brown
TP80	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP81	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.5	0.4-0.5(DS)	(CI) Silty CLAY, medium plasticity, brown mottled grey-red, trace sand and gravel, M≈PL, stiff
	0.5-1.5	0.5-0.7(U50)	(CI-CH) Silty CLAY, medium to high plasticity, red brown mottled grey, fine to coarse grained sand and gravel, M≤ PL, very stiff
TP82	0.0-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP83	0.0-0.2		FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.2-0.5	0.4-0.5(DS)	FILL: Silty Clay, high plasticity, grey mottled orange, fine to coarse grained sand and gravel, M<PL, well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, fine to coarse grained sand and gravel M≤PL, very stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP84	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-0.7		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel well compacted
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange fine to coarse grained sand and gravel M≤PL, very stiff
TP85	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, high plasticity, red brown mottled grey, fine to coarse grained sand and gravel M≤PL, well compacted
	0.5-0.7		FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand with fine to coarse sub-angular gravel, well compacted
	0.7-1.5		(CH) Silty CLAY, high plasticity, grey mottled brown, trace gravel and sand, M≈PL, stiff
TP86	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, high plasticity, red brown mottled grey, fine to coarse grained sand and gravel M≤PL, well compacted
	0.5-0.7		FILL: Sandy Clay, medium to high plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, well compacted
	0.7-1.5		(CI) Sandy CLAY, medium plasticity, grey mottled brown, fine to coarse grained sand, with fine to coarse sub-angular gravel, M<PL, stiff
TP87	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-0.5	0.4-0.5(DS)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand, with fine to coarse sub-angular gravel well compacted
	0.5-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff

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TEST PIT	DEPTH (m)	SAMPLE DEPTH (m)	MATERIAL DESCRIPTION
TP88	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, high plasticity, grey mottled orange, fine to coarse grained sand and gravel, M<PL, well compacted
	0.6-0.7	0.5-0.7(ATT)	FILL: Sandy Clay, medium to high plasticity, brown mottled grey-red orange, fine to coarse grained sand, with fine to coarse sub-angular gravel, well compacted
	0.7-1.5		(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff
TP89	0.0-0.2		TOPSOIL: Silt Clay, low plasticity, dark grey, trace gravel and organic matter
	0.2-1.5	0.4-0.5(DS)	(CH) Silty CLAY, high plasticity, red-brown mottled grey-orange, trace gravel and sand, M≈PL, stiff @0.6m, grey mottled yellow brown
TP90	0.0-0.5	0.4-0.5(DS)	FILL: Silty Clay, medium to high plasticity, red-brown mottled grey-orange, with fine to coarse grained sand and gravel, M<<PL, well compacted
	0.5-1.5	0.5-0.7(U50)	(CI-CH) Silty CLAY, medium to high plasticity, grey mottled yellow brown, with fine to coarse grained sand and gravel, M≤PL, very stiff

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kuber Khadka
Client	Geotech Testing Pty Ltd
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	kuber@geotech.com.au
Project	**8599/149 Newpark Pct 7H, Marsden Park**
Order Number	**8599/149**
Samples	34

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288672 R0**
Date Received	2/9/2025
Date Reported	8/9/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ly Kim HA
Organic Section Head

Ying Ying ZHANG
Laboratory Technician

pH in soil (1:5) [AN101] Tested: 4/9/2025

PARAMETER	UOM	LOR	TP1 SOIL 0.4-0.5 2/9/2025 SE288672.001	TP2 SOIL 0.4-0.5 2/9/2025 SE288672.002	TP2 SOIL 1.0-1.1 2/9/2025 SE288672.003	TP3 SOIL 0.4-0.5 2/9/2025 SE288672.004	TP3 SOIL 1.0-1.1 2/9/2025 SE288672.005
pH	pH Units	0.1	6.7	7.0	5.0	5.7	4.8

PARAMETER	UOM	LOR	TP4 SOIL 0.4-0.5 2/9/2025 SE288672.006	TP5 SOIL 0.4-0.5 2/9/2025 SE288672.007	TP6 SOIL 0.4-0.5 2/9/2025 SE288672.008	TP7 SOIL 0.4-0.5 2/9/2025 SE288672.009	TP8 SOIL 0.4-0.5 2/9/2025 SE288672.010
pH	pH Units	0.1	5.2	5.4	5.8	5.4	4.7

PARAMETER	UOM	LOR	TP9 SOIL 0.4-0.5 2/9/2025 SE288672.011	TP9 SOIL 1.0-1.1 2/9/2025 SE288672.012	TP10 SOIL 0.4-0.5 2/9/2025 SE288672.013	TP11 SOIL 0.4-0.5 2/9/2025 SE288672.014	TP11 SOIL 0.8-0.9 2/9/2025 SE288672.015
pH	pH Units	0.1	5.4	5.1	5.4	8.0	7.1

PARAMETER	UOM	LOR	TP12 SOIL 0.4-0.5 2/9/2025 SE288672.016	TP12 SOIL 1.0-1.1 2/9/2025 SE288672.017	TP13 SOIL 0.4-0.5 2/9/2025 SE288672.018	TP14 SOIL 0.4-0.5 2/9/2025 SE288672.019	TP15 SOIL 0.4-0.5 2/9/2025 SE288672.020
pH	pH Units	0.1	5.4	5.5	4.9	4.9	4.9

PARAMETER	UOM	LOR	TP16 SOIL 0.4-0.5 2/9/2025 SE288672.021	TP17 SOIL 0.4-0.5 2/9/2025 SE288672.022	TP17 SOIL 0.8-0.9 2/9/2025 SE288672.023	TP18 SOIL 0.4-0.5 2/9/2025 SE288672.024	TP19 SOIL 0.4-0.5 2/9/2025 SE288672.025
pH	pH Units	0.1	6.0	6.2	7.1	5.9	6.2

PARAMETER	UOM	LOR	TP20 SOIL 0.4-0.5 2/9/2025 SE288672.026	TP21 SOIL 0.4-0.5 2/9/2025 SE288672.027	TP22 SOIL 0.4-0.5 2/9/2025 SE288672.028	TP23 SOIL 0.4-0.5 2/9/2025 SE288672.029	TP24 SOIL 0.4-0.5 2/9/2025 SE288672.030
pH	pH Units	0.1	7.0	5.7	5.1	5.3	5.3

PARAMETER	UOM	LOR	TP25 SOIL 0.4-0.5 2/9/2025 SE288672.031	TP25 SOIL 1.0-1.1 2/9/2025 SE288672.032	TP26 SOIL 0.4-0.5 2/9/2025 SE288672.033	TP26 SOIL 1.0-1.1 2/9/2025 SE288672.034
pH	pH Units	0.1	5.5	5.5	5.9	5.8

Conductivity and TDS by Calculation - Soil [AN106] Tested: 4/9/2025

PARAMETER	UOM	LOR	TP1 SOIL 0.4-0.5 2/9/2025 SE288672.001	TP2 SOIL 0.4-0.5 2/9/2025 SE288672.002	TP2 SOIL 1.0-1.1 2/9/2025 SE288672.003	TP3 SOIL 0.4-0.5 2/9/2025 SE288672.004	TP3 SOIL 1.0-1.1 2/9/2025 SE288672.005
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	820	470	750	120	930

PARAMETER	UOM	LOR	TP4 SOIL 0.4-0.5 2/9/2025 SE288672.006	TP5 SOIL 0.4-0.5 2/9/2025 SE288672.007	TP6 SOIL 0.4-0.5 2/9/2025 SE288672.008	TP7 SOIL 0.4-0.5 2/9/2025 SE288672.009	TP8 SOIL 0.4-0.5 2/9/2025 SE288672.010
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	300	63	78	84	210

PARAMETER	UOM	LOR	TP9 SOIL 0.4-0.5 2/9/2025 SE288672.011	TP9 SOIL 1.0-1.1 2/9/2025 SE288672.012	TP10 SOIL 0.4-0.5 2/9/2025 SE288672.013	TP11 SOIL 0.4-0.5 2/9/2025 SE288672.014	TP11 SOIL 0.8-0.9 2/9/2025 SE288672.015
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	330	590	180	720	150

PARAMETER	UOM	LOR	TP12 SOIL 0.4-0.5 2/9/2025 SE288672.016	TP12 SOIL 1.0-1.1 2/9/2025 SE288672.017	TP13 SOIL 0.4-0.5 2/9/2025 SE288672.018	TP14 SOIL 0.4-0.5 2/9/2025 SE288672.019	TP15 SOIL 0.4-0.5 2/9/2025 SE288672.020
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	66	48	250	250	410

PARAMETER	UOM	LOR	TP16 SOIL 0.4-0.5 2/9/2025 SE288672.021	TP17 SOIL 0.4-0.5 2/9/2025 SE288672.022	TP17 SOIL 0.8-0.9 2/9/2025 SE288672.023	TP18 SOIL 0.4-0.5 2/9/2025 SE288672.024	TP19 SOIL 0.4-0.5 2/9/2025 SE288672.025
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	470	210	180	130	180

PARAMETER	UOM	LOR	TP20 SOIL 0.4-0.5 2/9/2025 SE288672.026	TP21 SOIL 0.4-0.5 2/9/2025 SE288672.027	TP22 SOIL 0.4-0.5 2/9/2025 SE288672.028	TP23 SOIL 0.4-0.5 2/9/2025 SE288672.029	TP24 SOIL 0.4-0.5 2/9/2025 SE288672.030
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	130	480	540	53	110

PARAMETER	UOM	LOR	TP25 SOIL 0.4-0.5 2/9/2025 SE288672.031	TP25 SOIL 1.0-1.1 2/9/2025 SE288672.032	TP26 SOIL 0.4-0.5 2/9/2025 SE288672.033	TP26 SOIL 1.0-1.1 2/9/2025 SE288672.034
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	130	68	180	92

Moisture Content [AN002] Tested: 3/9/2025

PARAMETER	UOM	LOR	TP1 SOIL 0.4-0.5 2/9/2025 SE288672.001	TP2 SOIL 0.4-0.5 2/9/2025 SE288672.002	TP2 SOIL 1.0-1.1 2/9/2025 SE288672.003	TP3 SOIL 0.4-0.5 2/9/2025 SE288672.004	TP3 SOIL 1.0-1.1 2/9/2025 SE288672.005
% Moisture	%w/w	1	13.2	7.3	14.5	15.2	16.9

PARAMETER	UOM	LOR	TP4 SOIL 0.4-0.5 2/9/2025 SE288672.006	TP5 SOIL 0.4-0.5 2/9/2025 SE288672.007	TP6 SOIL 0.4-0.5 2/9/2025 SE288672.008	TP7 SOIL 0.4-0.5 2/9/2025 SE288672.009	TP8 SOIL 0.4-0.5 2/9/2025 SE288672.010
% Moisture	%w/w	1	14.4	16.6	9.1	16.8	21.2

PARAMETER	UOM	LOR	TP9 SOIL 0.4-0.5 2/9/2025 SE288672.011	TP9 SOIL 1.0-1.1 2/9/2025 SE288672.012	TP10 SOIL 0.4-0.5 2/9/2025 SE288672.013	TP11 SOIL 0.4-0.5 2/9/2025 SE288672.014	TP11 SOIL 0.8-0.9 2/9/2025 SE288672.015
% Moisture	%w/w	1	12.6	14.1	8.2	14.4	9.7

PARAMETER	UOM	LOR	TP12 SOIL 0.4-0.5 2/9/2025 SE288672.016	TP12 SOIL 1.0-1.1 2/9/2025 SE288672.017	TP13 SOIL 0.4-0.5 2/9/2025 SE288672.018	TP14 SOIL 0.4-0.5 2/9/2025 SE288672.019	TP15 SOIL 0.4-0.5 2/9/2025 SE288672.020
% Moisture	%w/w	1	15.5	20.3	17.1	13.3	19.9

PARAMETER	UOM	LOR	TP16 SOIL 0.4-0.5 2/9/2025 SE288672.021	TP17 SOIL 0.4-0.5 2/9/2025 SE288672.022	TP17 SOIL 0.8-0.9 2/9/2025 SE288672.023	TP18 SOIL 0.4-0.5 2/9/2025 SE288672.024	TP19 SOIL 0.4-0.5 2/9/2025 SE288672.025
% Moisture	%w/w	1	14.7	9.9	11.3	9.9	13.4

PARAMETER	UOM	LOR	TP20 SOIL 0.4-0.5 2/9/2025 SE288672.026	TP21 SOIL 0.4-0.5 2/9/2025 SE288672.027	TP22 SOIL 0.4-0.5 2/9/2025 SE288672.028	TP23 SOIL 0.4-0.5 2/9/2025 SE288672.029	TP24 SOIL 0.4-0.5 2/9/2025 SE288672.030
% Moisture	%w/w	1	11.0	15.4	22.3	13.7	18.7

PARAMETER	UOM	LOR	TP25 SOIL 0.4-0.5 2/9/2025 SE288672.031	TP25 SOIL 1.0-1.1 2/9/2025 SE288672.032	TP26 SOIL 0.4-0.5 2/9/2025 SE288672.033	TP26 SOIL 1.0-1.1 2/9/2025 SE288672.034
% Moisture	%w/w	1	17.0	13.8	9.0	8.8

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos /cm or µS/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

STATEMENT OF QA/QC PERFORMANCE

SE288672 R0

CLIENT DETAILS

Contact	Kuber Khadka
Client	Geotech Testing Pty Ltd
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	kuber@geotech.com.au
Project	**8599/149 Newpark Pct 7H, Marsden Park**
Order Number	**8599/149**
Samples	34

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288672 R0**
Date Received	02 Sep 2025
Date Reported	08 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

Sample counts by matrix	34 Soil	Type of documentation received	COC
Date documentation received	2/9/2025	Samples received in good order	Yes
Samples received without headspace	N/A	Sample temperature upon receipt	21°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes	Number of eskies/boxes received	

HOLDING TIME SUMMARY

SE288672 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE288672.001	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP2	SE288672.002	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP2	SE288672.003	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP3	SE288672.004	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP3	SE288672.005	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP4	SE288672.006	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP5	SE288672.007	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP6	SE288672.008	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP7	SE288672.009	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP8	SE288672.010	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP9	SE288672.011	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP9	SE288672.012	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP10	SE288672.013	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP11	SE288672.014	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP11	SE288672.015	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP12	SE288672.016	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP12	SE288672.017	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP13	SE288672.018	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP14	SE288672.019	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP15	SE288672.020	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP16	SE288672.021	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP17	SE288672.022	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP17	SE288672.023	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP18	SE288672.024	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP19	SE288672.025	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP20	SE288672.026	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP21	SE288672.027	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP22	SE288672.028	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP23	SE288672.029	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP24	SE288672.030	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP25	SE288672.031	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP25	SE288672.032	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP26	SE288672.033	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025
TP26	SE288672.034	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	09 Sep 2025	05 Sep 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE288672.001	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP2	SE288672.002	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP2	SE288672.003	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP3	SE288672.004	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP3	SE288672.005	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP4	SE288672.006	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP5	SE288672.007	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP6	SE288672.008	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP7	SE288672.009	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP8	SE288672.010	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP9	SE288672.011	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP9	SE288672.012	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP10	SE288672.013	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP11	SE288672.014	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP11	SE288672.015	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP12	SE288672.016	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP12	SE288672.017	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP13	SE288672.018	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP14	SE288672.019	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP15	SE288672.020	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP16	SE288672.021	LB359522	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	08 Sep 2025
TP17	SE288672.022	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP17	SE288672.023	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025

HOLDING TIME SUMMARY

SE288672 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP18	SE288672.024	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP19	SE288672.025	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP20	SE288672.026	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP21	SE288672.027	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP22	SE288672.028	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP23	SE288672.029	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP24	SE288672.030	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP25	SE288672.031	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP25	SE288672.032	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP26	SE288672.033	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025
TP26	SE288672.034	LB359523	02 Sep 2025	02 Sep 2025	16 Sep 2025	03 Sep 2025	08 Sep 2025	05 Sep 2025

pH in soil (1:5) — **Method: ME-(AU)-[ENV]AN101**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP1	SE288672.001	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP2	SE288672.002	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP2	SE288672.003	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP3	SE288672.004	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP3	SE288672.005	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP4	SE288672.006	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP5	SE288672.007	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP6	SE288672.008	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP7	SE288672.009	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP8	SE288672.010	LB360006	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP9	SE288672.011	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP9	SE288672.012	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP10	SE288672.013	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP11	SE288672.014	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP11	SE288672.015	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP12	SE288672.016	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP12	SE288672.017	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP13	SE288672.018	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP14	SE288672.019	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP15	SE288672.020	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP16	SE288672.021	LB360008	02 Sep 2025	02 Sep 2025	09 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP17	SE288672.022	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP17	SE288672.023	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP18	SE288672.024	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP19	SE288672.025	LB359682	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP20	SE288672.026	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP21	SE288672.027	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP22	SE288672.028	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP23	SE288672.029	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP24	SE288672.030	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP25	SE288672.031	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP25	SE288672.032	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP26	SE288672.033	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP26	SE288672.034	LB359681	02 Sep 2025	02 Sep 2025	09 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Conductivity and TDS by Calculation - Soil — **Method: ME-(AU)-[ENV]AN106**

Sample Number	Parameter	Units	LOR	Result
LB359681.001	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.2
LB359682.001	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.23
LB360006.001	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.14
LB360008.001	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.14

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288667.001	LB359682.019	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	51	59	34	14
SE288672.010	LB360006.014	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	210	208.951669316	31	2
SE288672.020	LB360008.014	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	410	379.495351925	31	8
SE288672.023	LB359682.020	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	180	180	31	3
SE288672.034	LB359681.013	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	92	89.1902948402	32	3

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288672.010	LB359522.011	% Moisture	%w/w	1	21.2	20.4	35	4
SE288672.020	LB359522.022	% Moisture	%w/w	1	19.9	22.2	35	11
SE288672.021	LB359522.024	% Moisture	%w/w	1	14.7	15.7	37	7
SE288672.023	LB359523.011	% Moisture	%w/w	1	11.3	13.1	38	15
SE288672.034	LB359523.024	% Moisture	%w/w	1	8.8	7.9	42	11

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288667.001	LB359682.019	pH	pH Units	0.1	6.8	7.0	31	3
SE288672.010	LB360006.014	pH	pH Units	0.1	4.7	4.8	32	1
SE288672.020	LB360008.014	pH	pH Units	0.1	4.9	4.9	32	0
SE288672.023	LB359682.020	pH	pH Units	0.1	7.1	7.2	31	2
SE288672.034	LB359681.013	pH	pH Units	0.1	5.8	5.7	32	1

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Conductivity and TDS by Calculation - Soil — **Method: ME-(AU)-[ENV]AN106**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359681.002	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	98
LB359682.002	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	99
LB360006.002	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	99
LB360008.002	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	99

pH in soil (1:5) — **Method: ME-(AU)-[ENV]AN101**

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359681.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB359682.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB360006.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB360008.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE288672 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO:	**SGS ENVIRONMENTAL SERVICES** **UNIT 16** **33 MADDOX STREET** **ALEXANDRIA NSW 2015**	**Sampling By:**	KK & SB
PH:	**02 8594 0400** **FAX:** **02 8594 0499**	**Project Manager:**	KK
ATTN:	**Ms Emily Yin**		

Job No	8599/149
Project:	**Newpark Precinct 7H, Marsden Park**
Location:	68-69 Flametree Drive

Sampling details

Results required by:

	Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
1	TP1	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
2	TP2	0.4-0.5	DSP		✓	✓								
3	TP2	1.0-1.1	DSP		✓	✓								
4	TP3	0.4-0.5	DSP		✓	✓								
5	TP3	1.0-1.1	DSP		✓	✓								
6	TP4	0.4-0.5	DSP		✓	✓								
7	TP5	0.4-0.5	DSP		✓	✓								
8	TP6	0.4-0.5	DSP		✓	✓								
9	TP7	0.4-0.5	DSP		✓	✓								
10	TP8	0.4-0.5	DSP		✓	✓								
11	TP9	0.4-0.5	DSP		✓	✓								
12	TP9	1.0-1.1	DSP		✓	✓								
13	TP10	0.4-0.5	DSP		✓	✓								
14	TP11	0.4-0.5	DSP		✓	✓								
15	TP11	0.8-0.9	DSP		✓	✓								
16	TP 12	0.4-0.5	DSP		✓	✓								
17	TP12	1.0-1.1	DSP		✓	✓								
18	TP13	0.4-0.5	DSP		✓	✓								
19	TP14	0.4-0.5	DSP		✓	✓								
20	TP15	0.4-0.5	DSP		✓	✓								
21	TP16	0.4-0.5	DSP		✓	✓								
22	TP17	0.4-0.5	DSP		✓	✓								
23	TP17	0.8-0.9	DSP		✓	✓								
24	TP18	0.4-0.5	DSP		✓	✓								
25	TP19	0.4-0.5	DSP		✓	✓								

SGS EHS Sydney COC
SE288672

Please Use Geotechnical Engineering Templete for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
SB	SB	2/09/2025			2.9.25 2.45

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WP Form No 4.7F2-5 SGS	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO: SGS ENVIRONMENTAL SERVICES
UNIT 16
33 MADDOX STREET
ALEXANDRIA NSW 2015

PH: 02 8594 0400 FAX: 02 8594 0499
ATTN: Ms Emily Yin

Sampling By: KK & SB
Job No: 8599/149
Project: Newpark Precinct 7H, Marsden Park
Project Manager: KK
Location: 68-69 Flametree Drive

Sampling details

Results required by:

	Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
26	TP20	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
27	TP21	0.4-0.5	DSP		✓	✓								
28	TP22	0.4-0.5	DSP		✓	✓								
29	TP23	0.4-0.5	DSP		✓	✓								
30	TP24	0.4-0.5	DSP		✓	✓								
31	TP25	0.4-0.5	DSP		✓	✓								
32	TP25	1.0-1.1	DSP		✓	✓								
33	TP26	0.4-0.5	DSP		✓	✓								
34	TP26	1.0-1.1	DSP		✓	✓								

Please Use Geotechnical Engineering Templete for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
SB	SB	2/09/2025			2/9/25 2:45

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WP	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen

SAMPLE RECEIPT ADVICE

SE288672

CLIENT DETAILS

Contact	Kuber Khadka
Client	Geotech Testing Pty Ltd
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	kuber@geotech.com.au
Project	**8599/149 Newpark Pct 7H, Marsden Park**
Order Number	**8599/149**
Samples	34

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Tue 2/9/2025
Report Due	Tue 9/9/2025
SGS Reference	**SE288672**

SUBMISSION DETAILS

This is to confirm that 34 samples were received on Tuesday 2/9/2025. Results are expected to be ready by COB Tuesday 9/9/2025. Please quote SGS reference SE288672 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	34 Soil	Type of documentation received	COC
Date documentation received	2/9/2025	Samples received in good order	Yes
Samples received without headspace	N/A	Sample temperature upon receipt	21°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes	Number of eskies/boxes received	

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

SAMPLE RECEIPT ADVICE

SE288672

CLIENT DETAILS

Client Geotech Testing Pty Ltd

Project 8599/149 Newpark Pct 7H, Marsden Park

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Soil	Moisture Content	pH in soil (1:5)
001	TP1 0.4-0.5	1	1	1
002	TP2 0.4-0.5	1	1	1
003	TP2 1.0-1.1	1	1	1
004	TP3 0.4-0.5	1	1	1
005	TP3 1.0-1.1	1	1	1
006	TP4 0.4-0.5	1	1	1
007	TP5 0.4-0.5	1	1	1
008	TP6 0.4-0.5	1	1	1
009	TP7 0.4-0.5	1	1	1
010	TP8 0.4-0.5	1	1	1
011	TP9 0.4-0.5	1	1	1
012	TP9 1.0-1.1	1	1	1
013	TP10 0.4-0.5	1	1	1
014	TP11 0.4-0.5	1	1	1
015	TP11 0.8-0.9	1	1	1
016	TP12 0.4-0.5	1	1	1
017	TP12 1.0-1.1	1	1	1
018	TP13 0.4-0.5	1	1	1
019	TP14 0.4-0.5	1	1	1
020	TP15 0.4-0.5	1	1	1
021	TP16 0.4-0.5	1	1	1
022	TP17 0.4-0.5	1	1	1
023	TP17 0.8-0.9	1	1	1
024	TP18 0.4-0.5	1	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE288672

CLIENT DETAILS

Client Geotech Testing Pty Ltd

Project 8599/149 Newpark Pct 7H, Marsden Park

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Soil	Moisture Content	pH in soil (1:5)
025	TP19 0.4-0.5	1	1	1
026	TP20 0.4-0.5	1	1	1
027	TP21 0.4-0.5	1	1	1
028	TP22 0.4-0.5	1	1	1
029	TP23 0.4-0.5	1	1	1
030	TP24 0.4-0.5	1	1	1
031	TP25 0.4-0.5	1	1	1
032	TP25 1.0-1.1	1	1	1
033	TP26 0.4-0.5	1	1	1
034	TP26 1.0-1.1	1	1	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Joe Chen
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	joe@geotech.com.au
Project	**8599/149 68-69 Flametree Drive Newpark P**
Order Number	**8599/149**
Samples	67

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288619A R0**
Date Received	8/9/2025
Date Reported	10/9/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Ly Kim HA
Organic Section Head

Ying Ying ZHANG
Laboratory Technician

pH in soil (1:5) [AN101] Tested: 9/9/2025

PARAMETER	UOM	LOR	TP28 SOIL 0.4-0.5 SE288619A.058	TP28 SOIL 0.5-0.6 SE288619A.059	TP29 SOIL 0.4-0.5 SE288619A.060	TP30 SOIL 0.4-0.5 SE288619A.061	TP31 SOIL 0.4-0.5 SE288619A.062
pH	pH Units	0.1	**5.6**	**5.5**	**6.7**	**5.3**	**5.7**

PARAMETER	UOM	LOR	TP32 SOIL 0.4-0.5 SE288619A.063	TP33 SOIL 0.4-0.5 SE288619A.064	TP36 SOIL 1.0-1.1 SE288619A.065	TP44 SOIL 1.0-1.1 SE288619A.066	TP50 SOIL 1.0-1.1 SE288619A.067
pH	pH Units	0.1	**6.0**	**5.8**	**5.8**	**5.2**	**5.9**

Conductivity and TDS by Calculation - Soil [AN106] Tested: 9/9/2025

PARAMETER	UOM	LOR	TP28 SOIL 0.4-0.5 SE288619A.058	TP28 SOIL 0.5-0.6 SE288619A.059	TP29 SOIL 0.4-0.5 SE288619A.060	TP30 SOIL 0.4-0.5 SE288619A.061	TP31 SOIL 0.4-0.5 SE288619A.062
Conductivity of Extract (1:5 as received)	µS/cm	1	260	290	490	220	54
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	290	320	580	260	58

PARAMETER	UOM	LOR	TP32 SOIL 0.4-0.5 SE288619A.063	TP33 SOIL 0.4-0.5 SE288619A.064	TP36 SOIL 1.0-1.1 SE288619A.065	TP44 SOIL 1.0-1.1 SE288619A.066	TP50 SOIL 1.0-1.1 SE288619A.067
Conductivity of Extract (1:5 as received)	µS/cm	1	7	140	160	300	360
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	8	170	170	350	400

Moisture Content [AN002] Tested: 9/9/2025

PARAMETER	UOM	LOR	TP28 SOIL 0.4-0.5 SE288619A.058	TP28 SOIL 0.5-0.6 SE288619A.059	TP29 SOIL 0.4-0.5 SE288619A.060	TP30 SOIL 0.4-0.5 SE288619A.061	TP31 SOIL 0.4-0.5 SE288619A.062
% Moisture	%w/w	1	**10.3**	**10.1**	**15.5**	**16.4**	**7.3**

PARAMETER	UOM	LOR	TP32 SOIL 0.4-0.5 SE288619A.063	TP33 SOIL 0.4-0.5 SE288619A.064	TP36 SOIL 1.0-1.1 SE288619A.065	TP44 SOIL 1.0-1.1 SE288619A.066	TP50 SOIL 1.0-1.1 SE288619A.067
% Moisture	%w/w	1	**6.1**	**16.0**	**6.2**	**14.5**	**10.6**

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos /cm or µS/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Joe Chen
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	joe@geotech.com.au
Project	**8599/149 68-69 Flametree Drive Newpark P**
Order Number	**8599/149**
Samples	57

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288619 R0**
Date Received	1/9/2025
Date Reported	8/9/2025

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

SIGNATORIES

Ly Kim HA
Organic Section Head

Ying Ying ZHANG
Laboratory Technician

pH in soil (1:5) [AN101] Tested: 4/9/2025

PARAMETER	UOM	LOR	TP34 SOIL 0.4-0.5 1/9/2025 SE288619.001	TP35 SOIL 0.4-0.5 1/9/2025 SE288619.002	TP36 SOIL 0.4-0.5 1/9/2025 SE288619.003	TP37 SOIL 0.4-0.5 1/9/2025 SE288619.004	TP38 SOIL 0.4-0.5 1/9/2025 SE288619.005
pH	pH Units	0.1	7.4	5.2	5.2	5.7	5.8

PARAMETER	UOM	LOR	TP39 SOIL 0.4-0.5 1/9/2025 SE288619.006	TP40 SOIL 0.4-0.5 1/9/2025 SE288619.007	TP41 SOIL 0.4-0.5 1/9/2025 SE288619.008	TP42 SOIL 0.4-0.5 1/9/2025 SE288619.009	TP43 SOIL 0.4-0.5 1/9/2025 SE288619.010
pH	pH Units	0.1	7.8	7.8	6.6	6.6	5.5

PARAMETER	UOM	LOR	TP44 SOIL 0.4-0.5 1/9/2025 SE288619.011	TP45 SOIL 0.4-0.5 1/9/2025 SE288619.012	TP46 SOIL 0.4-0.5 1/9/2025 SE288619.013	TP47 SOIL 0.4-0.5 1/9/2025 SE288619.014	TP48 SOIL 0.4-0.5 1/9/2025 SE288619.015
pH	pH Units	0.1	5.5	7.0	7.0	7.1	6.4

PARAMETER	UOM	LOR	TP49 SOIL 0.4-0.5 1/9/2025 SE288619.016	TP50 SOIL 0.4-0.5 1/9/2025 SE288619.017	TP51 SOIL 0.4-0.5 1/9/2025 SE288619.018	TP52 SOIL 0.4-0.5 1/9/2025 SE288619.019	TP53 SOIL 0.4-0.5 1/9/2025 SE288619.020
pH	pH Units	0.1	6.5	4.9	5.6	5.5	5.8

PARAMETER	UOM	LOR	TP54 SOIL 0.4-0.5 1/9/2025 SE288619.021	TP55 SOIL 0.4-0.5 1/9/2025 SE288619.022	TP56 SOIL 0.4-0.5 1/9/2025 SE288619.023	TP57 SOIL 0.4-0.5 1/9/2025 SE288619.024	TP58 SOIL 0.4-0.5 1/9/2025 SE288619.025
pH	pH Units	0.1	5.5	5.7	5.9	5.7	6.1

PARAMETER	UOM	LOR	TP59 SOIL 0.4-0.5 1/9/2025 SE288619.026	TP60 SOIL 0.4-0.5 1/9/2025 SE288619.027	TP61 SOIL 0.4-0.5 1/9/2025 SE288619.028	TP62 SOIL 0.4-0.5 1/9/2025 SE288619.029	TP63 SOIL 0.4-0.5 1/9/2025 SE288619.030
pH	pH Units	0.1	5.3	6.1	5.0	6.0	5.1

PARAMETER	UOM	LOR	TP64 SOIL 0.4-0.5 1/9/2025 SE288619.031	TP65 SOIL 0.4-0.5 1/9/2025 SE288619.032	TP66 SOIL 0.4-0.5 1/9/2025 SE288619.033	TP67 SOIL 0.4-0.5 1/9/2025 SE288619.034	TP68 SOIL 0.4-0.5 1/9/2025 SE288619.035
pH	pH Units	0.1	6.1	5.7	5.6	5.5	5.3

pH in soil (1:5) [AN101] Tested: 4/9/2025 (continued)

PARAMETER	UOM	LOR	TP69 SOIL 0.4-0.5 1/9/2025 SE288619.036	TP70 SOIL 0.4-0.5 1/9/2025 SE288619.037	TP71 SOIL 0.4-0.5 1/9/2025 SE288619.038	TP72 SOIL 0.4-0.5 1/9/2025 SE288619.039	TP73 SOIL 0.4-0.5 1/9/2025 SE288619.040
pH	pH Units	0.1	5.6	5.9	5.4	5.5	4.9

PARAMETER	UOM	LOR	TP74 SOIL 0.4-0.5 1/9/2025 SE288619.041	TP75 SOIL 0.4-0.5 1/9/2025 SE288619.042	TP76 SOIL 0.4-0.5 1/9/2025 SE288619.043	TP77 SOIL 0.4-0.5 1/9/2025 SE288619.044	TP78 SOIL 0.4-0.5 1/9/2025 SE288619.045
pH	pH Units	0.1	5.6	5.5	5.3	5.5	5.9

PARAMETER	UOM	LOR	TP79 SOIL 0.4-0.5 1/9/2025 SE288619.046	TP80 SOIL 0.4-0.5 1/9/2025 SE288619.047	TP81 SOIL 0.4-0.5 1/9/2025 SE288619.048	TP82 SOIL 0.4-0.5 1/9/2025 SE288619.049	TP83 SOIL 0.4-0.5 1/9/2025 SE288619.050
pH	pH Units	0.1	6.1	5.6	5.5	6.0	6.0

PARAMETER	UOM	LOR	TP84 SOIL 0.4-0.5 1/9/2025 SE288619.051	TP85 SOIL 0.4-0.5 1/9/2025 SE288619.052	TP86 SOIL 0.4-0.5 1/9/2025 SE288619.053	TP87 SOIL 0.4-0.5 1/9/2025 SE288619.054	TP88 SOIL 0.4-0.5 1/9/2025 SE288619.055
pH	pH Units	0.1	5.5	5.2	5.0	5.8	5.8

PARAMETER	UOM	LOR	TP89 SOIL 0.4-0.5 1/9/2025 SE288619.056	TP90 SOIL 0.4-0.5 1/9/2025 SE288619.057
pH	pH Units	0.1	5.4	6.4

Conductivity and TDS by Calculation - Soil [AN106] Tested: 4/9/2025

PARAMETER	UOM	LOR	TP34 SOIL 0.4-0.5 1/9/2025 SE288619.001	TP35 SOIL 0.4-0.5 1/9/2025 SE288619.002	TP36 SOIL 0.4-0.5 1/9/2025 SE288619.003	TP37 SOIL 0.4-0.5 1/9/2025 SE288619.004	TP38 SOIL 0.4-0.5 1/9/2025 SE288619.005
Conductivity of Extract (1:5 as received)	µS/cm	1	290	260	160	250	250
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	320	300	180	270	270

PARAMETER	UOM	LOR	TP39 SOIL 0.4-0.5 1/9/2025 SE288619.006	TP40 SOIL 0.4-0.5 1/9/2025 SE288619.007	TP41 SOIL 0.4-0.5 1/9/2025 SE288619.008	TP42 SOIL 0.4-0.5 1/9/2025 SE288619.009	TP43 SOIL 0.4-0.5 1/9/2025 SE288619.010
Conductivity of Extract (1:5 as received)	µS/cm	1	700	760	280	330	240
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	770	850	310	360	270

PARAMETER	UOM	LOR	TP44 SOIL 0.4-0.5 1/9/2025 SE288619.011	TP45 SOIL 0.4-0.5 1/9/2025 SE288619.012	TP46 SOIL 0.4-0.5 1/9/2025 SE288619.013	TP47 SOIL 0.4-0.5 1/9/2025 SE288619.014	TP48 SOIL 0.4-0.5 1/9/2025 SE288619.015
Conductivity of Extract (1:5 as received)	µS/cm	1	130	350	240	480	170
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	150	380	260	540	180

PARAMETER	UOM	LOR	TP49 SOIL 0.4-0.5 1/9/2025 SE288619.016	TP50 SOIL 0.4-0.5 1/9/2025 SE288619.017	TP51 SOIL 0.4-0.5 1/9/2025 SE288619.018	TP52 SOIL 0.4-0.5 1/9/2025 SE288619.019	TP53 SOIL 0.4-0.5 1/9/2025 SE288619.020
Conductivity of Extract (1:5 as received)	µS/cm	1	370	340	350	450	260
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	430	390	420	530	290

PARAMETER	UOM	LOR	TP54 SOIL 0.4-0.5 1/9/2025 SE288619.021	TP55 SOIL 0.4-0.5 1/9/2025 SE288619.022	TP56 SOIL 0.4-0.5 1/9/2025 SE288619.023	TP57 SOIL 0.4-0.5 1/9/2025 SE288619.024	TP58 SOIL 0.4-0.5 1/9/2025 SE288619.025
Conductivity of Extract (1:5 as received)	µS/cm	1	160	200	240	190	170
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	180	230	270	210	180

PARAMETER	UOM	LOR	TP59 SOIL 0.4-0.5 1/9/2025 SE288619.026	TP60 SOIL 0.4-0.5 1/9/2025 SE288619.027	TP61 SOIL 0.4-0.5 1/9/2025 SE288619.028	TP62 SOIL 0.4-0.5 1/9/2025 SE288619.029	TP63 SOIL 0.4-0.5 1/9/2025 SE288619.030
Conductivity of Extract (1:5 as received)	µS/cm	1	210	200	530	320	480
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	250	220	630	370	560

PARAMETER	UOM	LOR	TP64 SOIL 0.4-0.5 1/9/2025 SE288619.031	TP65 SOIL 0.4-0.5 1/9/2025 SE288619.032	TP66 SOIL 0.4-0.5 1/9/2025 SE288619.033	TP67 SOIL 0.4-0.5 1/9/2025 SE288619.034	TP68 SOIL 0.4-0.5 1/9/2025 SE288619.035
Conductivity of Extract (1:5 as received)	µS/cm	1	480	280	250	210	160
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	560	310	290	250	190

Conductivity and TDS by Calculation - Soil [AN106] Tested: 4/9/2025 (continued)

PARAMETER	UOM	LOR	TP69 SOIL 0.4-0.5 1/9/2025 SE288619.036	TP70 SOIL 0.4-0.5 1/9/2025 SE288619.037	TP71 SOIL 0.4-0.5 1/9/2025 SE288619.038	TP72 SOIL 0.4-0.5 1/9/2025 SE288619.039	TP73 SOIL 0.4-0.5 1/9/2025 SE288619.040
Conductivity of Extract (1:5 as received)	µS/cm	1	240	190	240	210	600
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	300	220	290	240	670

PARAMETER	UOM	LOR	TP74 SOIL 0.4-0.5 1/9/2025 SE288619.041	TP75 SOIL 0.4-0.5 1/9/2025 SE288619.042	TP76 SOIL 0.4-0.5 1/9/2025 SE288619.043	TP77 SOIL 0.4-0.5 1/9/2025 SE288619.044	TP78 SOIL 0.4-0.5 1/9/2025 SE288619.045
Conductivity of Extract (1:5 as received)	µS/cm	1	210	200	290	270	100
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	260	240	340	320	120

PARAMETER	UOM	LOR	TP79 SOIL 0.4-0.5 1/9/2025 SE288619.046	TP80 SOIL 0.4-0.5 1/9/2025 SE288619.047	TP81 SOIL 0.4-0.5 1/9/2025 SE288619.048	TP82 SOIL 0.4-0.5 1/9/2025 SE288619.049	TP83 SOIL 0.4-0.5 1/9/2025 SE288619.050
Conductivity of Extract (1:5 as received)	µS/cm	1	120	150	220	110	150
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	130	180	250	120	170

PARAMETER	UOM	LOR	TP84 SOIL 0.4-0.5 1/9/2025 SE288619.051	TP85 SOIL 0.4-0.5 1/9/2025 SE288619.052	TP86 SOIL 0.4-0.5 1/9/2025 SE288619.053	TP87 SOIL 0.4-0.5 1/9/2025 SE288619.054	TP88 SOIL 0.4-0.5 1/9/2025 SE288619.055
Conductivity of Extract (1:5 as received)	µS/cm	1	190	390	440	100	77
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	220	480	540	110	89

PARAMETER	UOM	LOR	TP89 SOIL 0.4-0.5 1/9/2025 SE288619.056	TP90 SOIL 0.4-0.5 1/9/2025 SE288619.057
Conductivity of Extract (1:5 as received)	µS/cm	1	120	230
Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	140	250

Moisture Content [AN002] Tested: 2/9/2025

PARAMETER	UOM	LOR	TP34 SOIL 0.4-0.5 1/9/2025 SE288619.001	TP35 SOIL 0.4-0.5 1/9/2025 SE288619.002	TP36 SOIL 0.4-0.5 1/9/2025 SE288619.003	TP37 SOIL 0.4-0.5 1/9/2025 SE288619.004	TP38 SOIL 0.4-0.5 1/9/2025 SE288619.005
% Moisture	%w/w	1	8.1	14.8	10.8	6.4	8.1

PARAMETER	UOM	LOR	TP39 SOIL 0.4-0.5 1/9/2025 SE288619.006	TP40 SOIL 0.4-0.5 1/9/2025 SE288619.007	TP41 SOIL 0.4-0.5 1/9/2025 SE288619.008	TP42 SOIL 0.4-0.5 1/9/2025 SE288619.009	TP43 SOIL 0.4-0.5 1/9/2025 SE288619.010
% Moisture	%w/w	1	9.2	10.8	10.3	8.1	13.1

PARAMETER	UOM	LOR	TP44 SOIL 0.4-0.5 1/9/2025 SE288619.011	TP45 SOIL 0.4-0.5 1/9/2025 SE288619.012	TP46 SOIL 0.4-0.5 1/9/2025 SE288619.013	TP47 SOIL 0.4-0.5 1/9/2025 SE288619.014	TP48 SOIL 0.4-0.5 1/9/2025 SE288619.015
% Moisture	%w/w	1	10.3	7.4	9.0	10.4	8.0

PARAMETER	UOM	LOR	TP49 SOIL 0.4-0.5 1/9/2025 SE288619.016	TP50 SOIL 0.4-0.5 1/9/2025 SE288619.017	TP51 SOIL 0.4-0.5 1/9/2025 SE288619.018	TP52 SOIL 0.4-0.5 1/9/2025 SE288619.019	TP53 SOIL 0.4-0.5 1/9/2025 SE288619.020
% Moisture	%w/w	1	13.7	12.2	15.6	15.6	12.4

PARAMETER	UOM	LOR	TP54 SOIL 0.4-0.5 1/9/2025 SE288619.021	TP55 SOIL 0.4-0.5 1/9/2025 SE288619.022	TP56 SOIL 0.4-0.5 1/9/2025 SE288619.023	TP57 SOIL 0.4-0.5 1/9/2025 SE288619.024	TP58 SOIL 0.4-0.5 1/9/2025 SE288619.025
% Moisture	%w/w	1	12.3	13.4	13.6	9.7	8.4

PARAMETER	UOM	LOR	TP59 SOIL 0.4-0.5 1/9/2025 SE288619.026	TP60 SOIL 0.4-0.5 1/9/2025 SE288619.027	TP61 SOIL 0.4-0.5 1/9/2025 SE288619.028	TP62 SOIL 0.4-0.5 1/9/2025 SE288619.029	TP63 SOIL 0.4-0.5 1/9/2025 SE288619.030
% Moisture	%w/w	1	16.0	9.6	15.5	13.2	14.2

PARAMETER	UOM	LOR	TP64 SOIL 0.4-0.5 1/9/2025 SE288619.031	TP65 SOIL 0.4-0.5 1/9/2025 SE288619.032	TP66 SOIL 0.4-0.5 1/9/2025 SE288619.033	TP67 SOIL 0.4-0.5 1/9/2025 SE288619.034	TP68 SOIL 0.4-0.5 1/9/2025 SE288619.035
% Moisture	%w/w	1	13.9	10.6	12.7	17.6	15.1

Moisture Content [AN002] Tested: 2/9/2025 (continued)

PARAMETER	UOM	LOR	TP69 SOIL 0.4-0.5 1/9/2025 SE288619.036	TP70 SOIL 0.4-0.5 1/9/2025 SE288619.037	TP71 SOIL 0.4-0.5 1/9/2025 SE288619.038	TP72 SOIL 0.4-0.5 1/9/2025 SE288619.039	TP73 SOIL 0.4-0.5 1/9/2025 SE288619.040
% Moisture	%w/w	1	21.0	12.2	18.4	12.2	11.6

PARAMETER	UOM	LOR	TP74 SOIL 0.4-0.5 1/9/2025 SE288619.041	TP75 SOIL 0.4-0.5 1/9/2025 SE288619.042	TP76 SOIL 0.4-0.5 1/9/2025 SE288619.043	TP77 SOIL 0.4-0.5 1/9/2025 SE288619.044	TP78 SOIL 0.4-0.5 1/9/2025 SE288619.045
% Moisture	%w/w	1	19.4	14.3	15.5	16.2	16.1

PARAMETER	UOM	LOR	TP79 SOIL 0.4-0.5 1/9/2025 SE288619.046	TP80 SOIL 0.4-0.5 1/9/2025 SE288619.047	TP81 SOIL 0.4-0.5 1/9/2025 SE288619.048	TP82 SOIL 0.4-0.5 1/9/2025 SE288619.049	TP83 SOIL 0.4-0.5 1/9/2025 SE288619.050
% Moisture	%w/w	1	10.5	15.7	14.0	13.2	13.7

PARAMETER	UOM	LOR	TP84 SOIL 0.4-0.5 1/9/2025 SE288619.051	TP85 SOIL 0.4-0.5 1/9/2025 SE288619.052	TP86 SOIL 0.4-0.5 1/9/2025 SE288619.053	TP87 SOIL 0.4-0.5 1/9/2025 SE288619.054	TP88 SOIL 0.4-0.5 1/9/2025 SE288619.055
% Moisture	%w/w	1	14.1	18.0	18.5	9.1	13.9

PARAMETER	UOM	LOR	TP89 SOIL 0.4-0.5 1/9/2025 SE288619.056	TP90 SOIL 0.4-0.5 1/9/2025 SE288619.057
% Moisture	%w/w	1	17.1	9.4

METHOD	METHODOLOGY SUMMARY
AN002	The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water.
AN101	pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.
AN106	Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as µmhos /cm or µS/cm @ 25°C. For soils, an extract of as received sample with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Salinity can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. Reference APHA 2510 B.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		
***	Indicates that both * and ** apply.				

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety .

STATEMENT OF QA/QC PERFORMANCE

SE288619 R0

CLIENT DETAILS

Contact	Joe Chen
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	joe@geotech.com.au
Project	**8599/149 68-69 Flametree Drive Newpark P**
Order Number	**8599/149**
Samples	57

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE288619 R0**
Date Received	01 Sep 2025
Date Reported	08 Sep 2025

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Analysis Date	Moisture Content	38 items

SAMPLE SUMMARY

Sample counts by matrix	57 Soil	Type of documentation received	COC
Date documentation received	2/9/2025@11:11am	Samples received in good order	Yes
Samples received without headspace	N/A	Sample temperature upon receipt	20.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes		

HOLDING TIME SUMMARY

SE288619 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP34	SE288619.001	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP35	SE288619.002	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP36	SE288619.003	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP37	SE288619.004	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP38	SE288619.005	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP39	SE288619.006	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP40	SE288619.007	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP41	SE288619.008	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP42	SE288619.009	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP43	SE288619.010	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP44	SE288619.011	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP45	SE288619.012	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP46	SE288619.013	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP47	SE288619.014	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP48	SE288619.015	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP49	SE288619.016	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP50	SE288619.017	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP51	SE288619.018	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP52	SE288619.019	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	08 Sep 2025	05 Sep 2025
TP53	SE288619.020	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP54	SE288619.021	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP55	SE288619.022	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP56	SE288619.023	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP57	SE288619.024	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP58	SE288619.025	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP59	SE288619.026	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP60	SE288619.027	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP61	SE288619.028	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP62	SE288619.029	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP63	SE288619.030	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP64	SE288619.031	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP65	SE288619.032	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP66	SE288619.033	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP67	SE288619.034	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP68	SE288619.035	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP69	SE288619.036	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP70	SE288619.037	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP71	SE288619.038	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP72	SE288619.039	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP73	SE288619.040	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP74	SE288619.041	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP75	SE288619.042	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP76	SE288619.043	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP77	SE288619.044	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP78	SE288619.045	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP79	SE288619.046	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP80	SE288619.047	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP81	SE288619.048	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP82	SE288619.049	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP83	SE288619.050	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP84	SE288619.051	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP85	SE288619.052	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP86	SE288619.053	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP87	SE288619.054	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP88	SE288619.055	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP89	SE288619.056	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025
TP90	SE288619.057	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025	08 Sep 2025

Moisture Content

Method: ME-(AU)-[ENV]AN002

Sample Name	Sample No.	QC Ref

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

Moisture Content (continued) — **Method: ME-(AU)-[ENV]AN002**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP34	SE288619.001	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP35	SE288619.002	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP36	SE288619.003	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP37	SE288619.004	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP38	SE288619.005	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP39	SE288619.006	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP40	SE288619.007	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP41	SE288619.008	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP42	SE288619.009	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP43	SE288619.010	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP44	SE288619.011	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP45	SE288619.012	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP46	SE288619.013	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP47	SE288619.014	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP48	SE288619.015	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP49	SE288619.016	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP50	SE288619.017	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP51	SE288619.018	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP52	SE288619.019	LB359391	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	05 Sep 2025
TP53	SE288619.020	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP54	SE288619.021	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP55	SE288619.022	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP56	SE288619.023	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP57	SE288619.024	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP58	SE288619.025	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP59	SE288619.026	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP60	SE288619.027	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP61	SE288619.028	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP62	SE288619.029	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP63	SE288619.030	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP64	SE288619.031	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP65	SE288619.032	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP66	SE288619.033	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP67	SE288619.034	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP68	SE288619.035	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP69	SE288619.036	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP70	SE288619.037	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP71	SE288619.038	LB359392	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP72	SE288619.039	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP73	SE288619.040	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP74	SE288619.041	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP75	SE288619.042	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP76	SE288619.043	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP77	SE288619.044	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP78	SE288619.045	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP79	SE288619.046	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP80	SE288619.047	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP81	SE288619.048	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP82	SE288619.049	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP83	SE288619.050	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP84	SE288619.051	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP85	SE288619.052	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP86	SE288619.053	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP87	SE288619.054	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP88	SE288619.055	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP89	SE288619.056	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†
TP90	SE288619.057	LB359393	01 Sep 2025	01 Sep 2025	15 Sep 2025	02 Sep 2025	07 Sep 2025	08 Sep 2025†

pH in soil (1:5) — **Method: ME-(AU)-[ENV]AN101**

Sample Name	Sample No.	QC Ref

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the

pH in soil (1:5) (continued) — **Method: ME-(AU)-[ENV]AN101**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
TP34	SE288619.001	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP35	SE288619.002	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP36	SE288619.003	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP37	SE288619.004	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP38	SE288619.005	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP39	SE288619.006	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP40	SE288619.007	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP41	SE288619.008	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP42	SE288619.009	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP43	SE288619.010	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP44	SE288619.011	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP45	SE288619.012	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP46	SE288619.013	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP47	SE288619.014	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP48	SE288619.015	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP49	SE288619.016	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP50	SE288619.017	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP51	SE288619.018	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP52	SE288619.019	LB359720	01 Sep 2025	01 Sep 2025	08 Sep 2025	04 Sep 2025	05 Sep 2025	04 Sep 2025
TP53	SE288619.020	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP54	SE288619.021	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP55	SE288619.022	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP56	SE288619.023	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP57	SE288619.024	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP58	SE288619.025	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP59	SE288619.026	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP60	SE288619.027	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP61	SE288619.028	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP62	SE288619.029	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP63	SE288619.030	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP64	SE288619.031	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP65	SE288619.032	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP66	SE288619.033	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP67	SE288619.034	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP68	SE288619.035	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP69	SE288619.036	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP70	SE288619.037	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP71	SE288619.038	LB360004	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP72	SE288619.039	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP73	SE288619.040	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP74	SE288619.041	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP75	SE288619.042	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP76	SE288619.043	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP77	SE288619.044	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP78	SE288619.045	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP79	SE288619.046	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP80	SE288619.047	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP81	SE288619.048	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP82	SE288619.049	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP83	SE288619.050	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP84	SE288619.051	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP85	SE288619.052	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP86	SE288619.053	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP87	SE288619.054	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP88	SE288619.055	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP89	SE288619.056	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025
TP90	SE288619.057	LB360005	01 Sep 2025	01 Sep 2025	08 Sep 2025	08 Sep 2025	09 Sep 2025	08 Sep 2025

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Conductivity and TDS by Calculation - Soil — **Method: ME-(AU)-[ENV]AN106**

Sample Number	Parameter	Units	LOR	Result
LB359720.001	Conductivity of Extract (1:5 as received)	µS/cm	1	<1
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.16
LB360004.001	Conductivity of Extract (1:5 as received)	µS/cm	1	<1
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.11
LB360005.001	Conductivity of Extract (1:5 as received)	µS/cm	1	<1
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	0.17

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may

Conductivity and TDS by Calculation - Soil

Method: ME-(AU)-[ENV]AN106

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288619.010	LB359720.014	Conductivity of Extract (1:5 as received)	µS/cm	1	240	250	31	5
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	270	285.520295202	31	5
SE288619.019	LB359720.024	Conductivity of Extract (1:5 as received)	µS/cm	1	450	450	30	2
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	530	538.138996138	30	2
SE288619.029	LB360004.014	Conductivity of Extract (1:5 as received)	µS/cm	1	320	270	31	19
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	370	306.598612487	31	19
SE288619.038	LB360004.024	Conductivity of Extract (1:5 as received)	µS/cm	1	240	290	31	19
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	290	356.631264916	31	19
SE288619.048	LB360005.014	Conductivity of Extract (1:5 as received)	µS/cm	1	220	220	31	1
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	250	255.705529953	31	1
SE288619.057	LB360005.024	Conductivity of Extract (1:5 as received)	µS/cm	1	230	220	31	1
		Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	250	247.350375	31	1

Moisture Content

Method: ME-(AU)-[ENV]AN002

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288619.010	LB359391.011	% Moisture	%w/w	1	13.1	11.8	38	11
SE288619.019	LB359391.021	% Moisture	%w/w	1	15.6	15.3	36	2
SE288619.029	LB359392.011	% Moisture	%w/w	1	13.2	14.4	37	8
SE288619.038	LB359392.021	% Moisture	%w/w	1	18.4	17.4	36	5
SE288619.048	LB359393.011	% Moisture	%w/w	1	14.0	16.3	37	15
SE288619.057	LB359393.021	% Moisture	%w/w	1	9.4	9.9	40	5

pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE288619.010	LB359720.014	pH	pH Units	0.1	5.5	5.4	32	1
SE288619.019	LB359720.024	pH	pH Units	0.1	5.5	5.5	32	0
SE288619.029	LB360004.014	pH	pH Units	0.1	6.0	6.1	32	1
SE288619.038	LB360004.024	pH	pH Units	0.1	5.4	5.2	32	4
SE288619.048	LB360005.014	pH	pH Units	0.1	5.5	5.5	32	0
SE288619.057	LB360005.024	pH	pH Units	0.1	6.4	6.3	32	1

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Conductivity and TDS by Calculation - Soil — Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359720.002	Conductivity of Extract (1:5 as received)	µS/cm	1	1000	1015	85 - 115	99
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	99
LB360004.002	Conductivity of Extract (1:5 as received)	µS/cm	1	1000	1015	85 - 115	100
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	100
LB360005.002	Conductivity of Extract (1:5 as received)	µS/cm	1	1000	1015	85 - 115	100
	Conductivity of Extract (1:5 dry sample basis)	µS/cm	1	NA	1015	85 - 115	100

pH in soil (1:5) — Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB359720.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB360004.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100
LB360005.003	pH	pH Units	0.1	7.4	7.415	98 - 102	100

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE288619 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com/en-au/industry/environmental-health-and-safety

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
***	Indicates that both * and ** apply.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.
NA	Not Applicable
①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO:	SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015	Sampling By:	JC & SB	Job No	8599/149
				Project:	Newpark Precinct 7H, Marsden Park
PH:	02 8594 0400	FAX:	02 8594 0499	Project Manager:	JC
ATTN:	Ms Emily Yin			Location:	68-69 Flametree Drive

E-MAILED 2/9/25 11:11 am

SGS EHS Sydney COC
SE288619

Sampling details / Results required by:

	Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
1	TP34	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
2	TP35	0.4-0.5	DSP		✓	✓								
3	TP36	0.4-0.5	DSP		✓	✓								
4	TP37	0.4-0.5	DSP		✓	✓								
5	TP38	0.4-0.5	DSP		✓	✓								
6	TP39	0.4-0.5	DSP		✓	✓								
7	TP40	0.4-0.5	DSP		✓	✓								
8	TP41	0.4-0.5	DSP		✓	✓								
9	TP42	0.4-0.5	DSP		✓	✓								
10	TP43	0.4-0.5	DSP		✓	✓								
11	TP44	0.4-0.5	DSP		✓	✓								
12	TP45	0.4-0.5	DSP		✓	✓								
13	TP46	0.4-0.5	DSP		✓	✓								
14	TP47	0.4-0.5	DSP		✓	✓								
15	TP48	0.4-0.5	DSP		✓	✓								
16	TP49	0.4-0.5	DSP		✓	✓								
17	TP50	0.4-0.5	DSP		✓	✓								
18	TP51	0.4-0.5	DSP		✓	✓								
19	TP52	0.4-0.5	DSP		✓	✓								
20	TP53	0.4-0.5	DSP		✓	✓								
21	TP54	0.4-0.5	DSP		✓	✓								
22	TP55	0.4-0.5	DSP		✓	✓								
23	TP56	0.4-0.5	DSP		✓	✓								
24	TP57	0.4-0.5	DSP		✓	✓								
25	TP58	0.4-0.5	DSP		✓	✓								

Please Use Geotechnical Engineering Templete for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Joe	JC	29/08/2025	Joel K		1/9/25 3:10

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WP	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen

Form No 4.7F2-5 SGS

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO:	SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015	Sampling By:	JC & SB	Job No	8599/149
				Project:	Newpark Precinct 7H, Marsden Park
PH:	02 8594 0400 FAX: 02 8594 0499	Project Manager:	JC	Location:	68-69 Flametree Drive
ATTN:	Ms Emily Yin				

Sampling details / Results required by:

	Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
26	TP59	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
27	TP60	0.4-0.5	DSP		✓	✓								
28	TP61	0.4-0.5	DSP		✓	✓								
29	TP62	0.4-0.5	DSP		✓	✓								
30	TP63	0.4-0.5	DSP		✓	✓								
31	TP64	0.4-0.5	DSP		✓	✓								
32	TP65	0.4-0.5	DSP		✓	✓								
33	TP66	0.4-0.5	DSP		✓	✓								
34	TP67	0.4-0.5	DSP		✓	✓								
35	TP68	0.4-0.5	DSP		✓	✓								
36	TP69	0.4-0.5	DSP		✓	✓								
37	TP70	0.4-0.5	DSP		✓	✓								
38	TP71	0.4-0.5	DSP		✓	✓								
39	TP72	0.4-0.5	DSP		✓	✓								
40	TP73	0.4-0.5	DSP		✓	✓								
41	TP74	0.4-0.5	DSP		✓	✓								
42	TP75	0.4-0.5	DSP		✓	✓								
43	TP76	0.4-0.5	DSP		✓	✓								
44	TP77	0.4-0.5	DSP		✓	✓								
45	TP78	0.4-0.5	DSP		✓	✓								
46	TP79	0.4-0.5	DSP		✓	✓								
47	TP80	0.4-0.5	DSP		✓	✓								
48	TP81	0.4-0.5	DSP		✓	✓								
49	TP82	0.4-0.5	DSP		✓	✓								
50	TP83	0.4-0.5	DSP		✓	✓								

Please Use Geotechnical Engineering Templete for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Joe	JC	29/08/2025	Joelk		1/9/25 3:10

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WP	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen

GEOTECH TESTING PTY LTD

Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750

P O Box 880
PENRITH NSW 2751

Tel: (02) 4722 2700
Fax: (02) 4722 6161
email: info@geotech.com.au

TO:	SGS ENVIRONMENTAL SERVICES UNIT 16 33 MADDOX STREET ALEXANDRIA NSW 2015	Sampling By:	JC & SB
		Job No	8599/149
		Project:	Newpark Precinct 7H, Marsden Park
PH:	02 8594 0400	Project Manager:	JC
FAX:	02 8594 0499	Location:	68-69 Flametree Drive
ATTN:	Ms Emily Yin		

Sampling details

Results required by:

	Location	Depth	Soil	Water	EC (1:5)	pH	Sulphate	Chloride	ESP				Notes	Keep Sample
S1	TP84	0.4-0.5	DSP		✓	✓							ESP=Exchnageable Sodium Percentage	
S2	TP85	0.4-0.5	DSP		✓	✓								
S3	TP86	0.4-0.5	DSP		✓	✓								
S4	TP87	0.4-0.5	DSP		✓	✓								
S5	TP88	0.4-0.5	DSP		✓	✓								
S6	TP89	0.4-0.5	DSP		✓	✓								
S7	TP90	0.4-0.5	DSP		✓	✓								

Please Use Geotechnical Engineering Templete for Reporting

Relinquished by			Received by		
Name	Signature	Date	Name	Signature	
Joe	JC	29/08/2025	Joel K		1/9/25 3:10

Legend:

WG	USG	Undisturbed soil sample (glass j	DSP	Disturbed soil sample (small plastic bag)	* Purge & Trap
WP	DSG	Disturbed soil sample (glass jar)	✓	Test required	# Geotechnique Screen

SAMPLE RECEIPT ADVICE

SE288619

CLIENT DETAILS

Contact	Joe Chen
Client	Geotechnique
Address	P.O. Box 880 PENRITH NSW 2751
Telephone	02 4722 2700
Facsimile	02 4722 6161
Email	joe@geotech.com.au
Project	**8599/149 68-69 Flametree Drive Newpark P**
Order Number	**8599/149**
Samples	57

LABORATORY DETAILS

Manager	Shane McDermott
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Mon 1/9/2025
Report Due	Tue 9/9/2025
SGS Reference	**SE288619**

SUBMISSION DETAILS

This is to confirm that 57 samples were received on Monday 1/9/2025. Results are expected to be ready by COB Tuesday 9/9/2025. Please quote SGS reference SE288619 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Sample counts by matrix	57 Soil	Type of documentation received	COC
Date documentation received	2/9/2025@11:11am	Samples received in good order	Yes
Samples received without headspace	N/A	Sample temperature upon receipt	20.1°C
Sample container provider	SGS	Turnaround time requested	Standard
Samples received in correct containers	Yes	Sufficient sample for analysis	Yes
Sample cooling method	None	Samples clearly labelled	Yes
Complete documentation received	Yes		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

Where sampled date has not been indicated on the CoC, SGS assumes it is the same as the date of sample receipt at SGS. Should it differ and require correction, please contact us as soon as possible
11 extra soil sample received.

SAMPLE RECEIPT ADVICE

SE288619

CLIENT DETAILS

Client Geotechnique

Project 8599/149 68-69 Flametree Drive Newpark P

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Soil	Moisture Content	pH in soil (1:5)
001	TP34 0.4-0.5	2	1	1
002	TP35 0.4-0.5	2	1	1
003	TP36 0.4-0.5	2	1	1
004	TP37 0.4-0.5	2	1	1
005	TP38 0.4-0.5	2	1	1
006	TP39 0.4-0.5	2	1	1
007	TP40 0.4-0.5	2	1	1
008	TP41 0.4-0.5	2	1	1
009	TP42 0.4-0.5	2	1	1
010	TP43 0.4-0.5	2	1	1
011	TP44 0.4-0.5	2	1	1
012	TP45 0.4-0.5	2	1	1
013	TP46 0.4-0.5	2	1	1
014	TP47 0.4-0.5	2	1	1
015	TP48 0.4-0.5	2	1	1
016	TP49 0.4-0.5	2	1	1
017	TP50 0.4-0.5	2	1	1
018	TP51 0.4-0.5	2	1	1
019	TP52 0.4-0.5	2	1	1
020	TP53 0.4-0.5	2	1	1
021	TP54 0.4-0.5	2	1	1
022	TP55 0.4-0.5	2	1	1
023	TP56 0.4-0.5	2	1	1
024	TP57 0.4-0.5	2	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE288619

CLIENT DETAILS

Client Geotechnique

Project 8599/149 68-69 Flametree Drive Newpark P

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Soil	Moisture Content	pH in soil (1:5)
025	TP58 0.4-0.5	2	1	1
026	TP59 0.4-0.5	2	1	1
027	TP60 0.4-0.5	2	1	1
028	TP61 0.4-0.5	2	1	1
029	TP62 0.4-0.5	2	1	1
030	TP63 0.4-0.5	2	1	1
031	TP64 0.4-0.5	2	1	1
032	TP65 0.4-0.5	2	1	1
033	TP66 0.4-0.5	2	1	1
034	TP67 0.4-0.5	2	1	1
035	TP68 0.4-0.5	2	1	1
036	TP69 0.4-0.5	2	1	1
037	TP70 0.4-0.5	2	1	1
038	TP71 0.4-0.5	2	1	1
039	TP72 0.4-0.5	2	1	1
040	TP73 0.4-0.5	2	1	1
041	TP74 0.4-0.5	2	1	1
042	TP75 0.4-0.5	2	1	1
043	TP76 0.4-0.5	2	1	1
044	TP77 0.4-0.5	2	1	1
045	TP78 0.4-0.5	2	1	1
046	TP79 0.4-0.5	2	1	1
047	TP80 0.4-0.5	2	1	1
048	TP81 0.4-0.5	2	1	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE288619

CLIENT DETAILS

Client Geotechnique

Project 8599/149 68-69 Flametree Drive Newpark P

SUMMARY OF ANALYSIS

No.	Sample ID	Conductivity and TDS by Calculation - Soil	Moisture Content	pH in soil (1:5)
049	TP82 0.4-0.5	2	1	1
050	TP83 0.4-0.5	2	1	1
051	TP84 0.4-0.5	2	1	1
052	TP85 0.4-0.5	2	1	1
053	TP86 0.4-0.5	2	1	1
054	TP87 0.4-0.5	2	1	1
055	TP88 0.4-0.5	2	1	1
056	TP89 0.4-0.5	2	1	1
057	TP90 0.4-0.5	2	1	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .