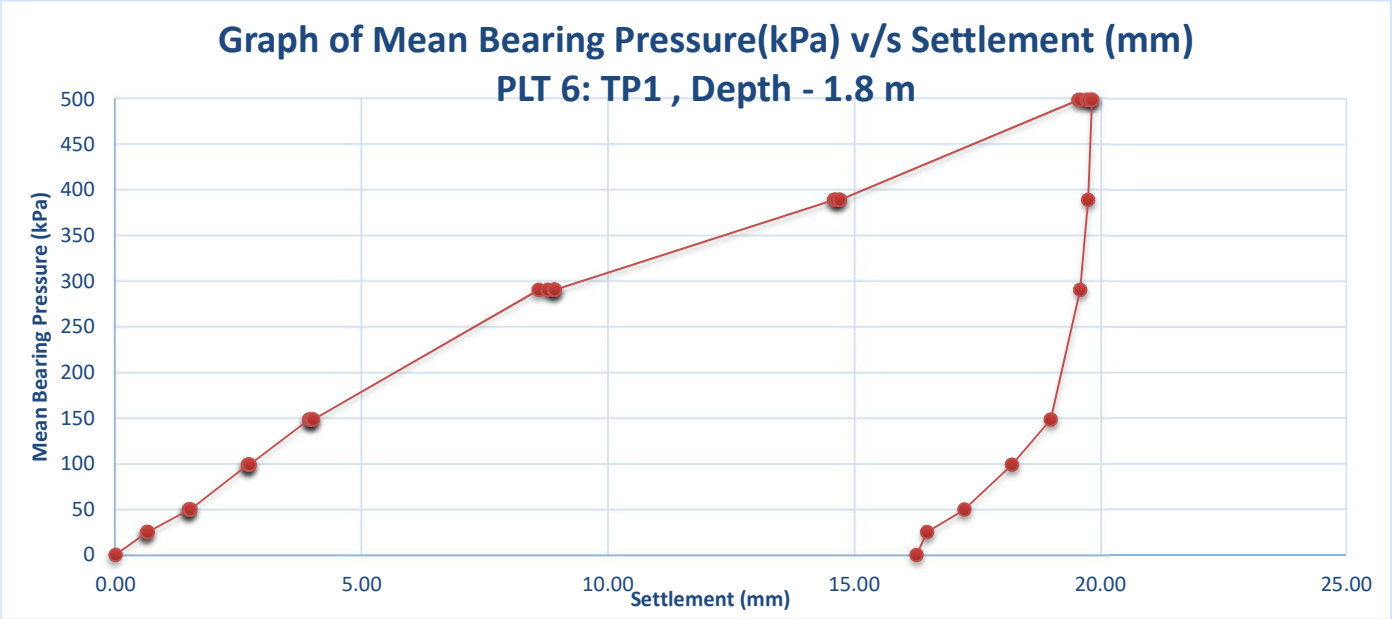
RESULTS: PB 6 (TP1)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					40	13	20					Initial gauge reading
1	27.8	138	28.4	389.1	1501	1552	1461	14.39	15.21	14.21	14.60	
Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
1	27.8	138	28.4	389.1	1501	1555	1470	14.39	15.24	14.30	14.64	
1	27.8	138	28.4	389.1	1510	1565	1472	14.48	15.34	14.32	14.71	
1	27.8	138	28.4	389.1	1510	1565	1472	14.48	15.34	14.32	14.71	
1	35.8	178	36.4	498.6	1998	2101	1901	19.36	20.70	18.61	19.56	
1	35.8	178	36.4	498.6	2000	2102	1910	19.38	20.71	18.70	19.60	
1	35.8	178	36.4	498.6	2020	2120	1912	19.58	20.89	18.72	19.73	
1	35.8	178	36.4	498.6	2026	2120	1915	19.64	20.89	18.75	19.76	
1	35.8	178	36.4	498.6	2041	2121	1917	19.79	20.90	18.77	19.82	
1	35.8	178	36.4	498.6	2042	2121	1920	19.80	20.90	18.80	19.83	
1	35.8	178	36.4	498.6	2042	2121	1920	19.80	20.90	18.80	19.83	
1	27.8	138	28.4	389.1	2040	2120	1900	19.78	20.89	18.60	19.76	
1	20.6	102	21.2	290.6	2020	2100	1892	19.58	20.69	18.52	19.60	
1	10.2	50	10.8	148.3	1980	1989	1863	19.18	19.58	18.23	19.00	
1	6.6	32	7.2	99.0	1890	1900	1805	18.28	18.69	17.65	18.21	
1	3.0	14	3.6	49.7	1710	1840	1755	16.48	18.09	17.15	17.24	
1	1.2	5	1.8	25.1	1633	1749	1697	15.71	17.18	16.57	16.49	
1	0	0	0.0	0.0	1605	1721	1689	15.43	16.90	16.49	16.27	



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Laboratory Technician

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General Manager
Dr. Emilio Saldivar

RESULTS: PB 6 (TP1)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					40	13	20					Initial gauge reading

GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-

PLATE LOAD TEST

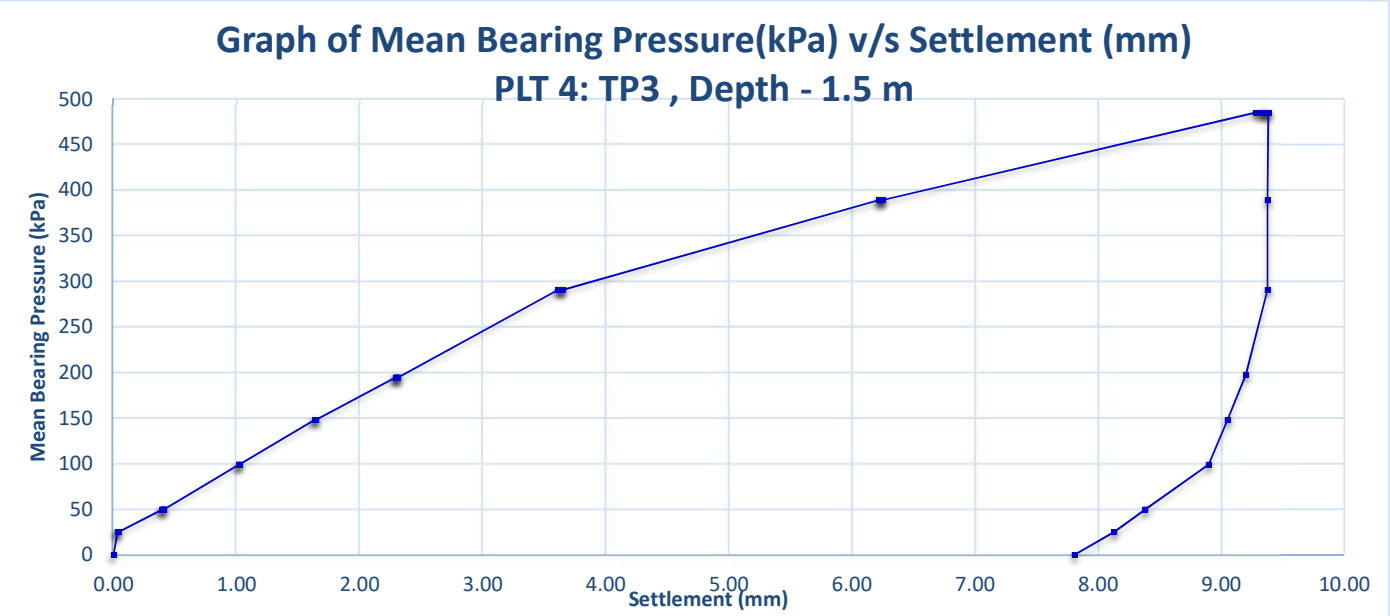
Client:	**Water Research Co.Ltd**
Project:	**G.I For CEB**
Location:	**Henrietta**
Date of request:	**13.03.2019**
Test Method:	**As per British Standard BS 1377-9**
Test Start Date:	**19.03.19**
Report Date:	**02.04.2019**
Test Report No.:	**GETS-2019-027(4) : CM/2019/0226**
Plate diameter (mm):	**305**
Plate Area (mm^2):	**73,062**
Depth of testing Area:	**2m below ground level**
Description of Strata:	**Greyish to reddish brown silty clay with occassional subrounded gravels. CWB to RS**

RESULTS

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					15	24	12					Initial gauge reading
	0.6	3	1.4	19.6	16	25	12	0.01	0.01	0.00	0.01	Seating load
	0.0	0	0.0	0.0	16	25	12	0.01	0.01	0.00	0.01	Unloading
	0.2	1	1.0	14.1	16	25	12	0.01	0.01	0.00	0.01	Half Seating load
			0.0	0							0.00	
1	1.2	5	1.8	25.1	20	26	17	0.04	0.01	0.05	0.03	Loading
1	1.2	5	1.8	25.1	21	27	17	0.05	0.02	0.05	0.04	
1	1.2	5	1.8	25.1	21	27	17	0.05	0.02	0.05	0.04	
1	3.0	14	3.6	49.7	44	70	58	0.28	0.45	0.46	0.40	
1	3.0	14	3.6	49.7	44	71	59	0.28	0.46	0.47	0.40	
1	3.0	14	3.6	49.7	45	71	59	0.29	0.46	0.47	0.41	
1	3.0	14	3.6	49.7	46	71	59	0.30	0.46	0.47	0.41	
1	6.6	32	7.2	99.0	79	147	133	0.63	1.22	1.21	1.02	
1	6.6	32	7.2	99.0	80	147	133	0.64	1.22	1.21	1.02	
1	6.6	32	7.2	99.0	80	147	133	0.64	1.22	1.21	1.02	
1	10.2	50	10.8	148.3	104	218	222	0.88	1.93	2.10	1.64	
1	10.2	50	10.8	148.3	104	219	223	0.88	1.94	2.11	1.64	
1	10.2	50	10.8	148.3	105	219	223	0.89	1.94	2.11	1.65	
1	13.6	67	14.2	194.8	141	280	319	1.25	2.55	3.07	2.29	
1	13.6	67	14.2	194.8	142	281	319	1.26	2.56	3.07	2.30	
1	13.6	67	14.2	194.8	142	282	320	1.26	2.57	3.08	2.30	
1	13.6	67	14.2	194.8	143	282	321	1.27	2.57	3.09	2.31	
1	13.6	67	14.2	194.8	143	282	322	1.27	2.57	3.10	2.31	
1	20.6	102	21.2	290.6	240	392	505	2.24	3.67	4.93	3.61	
1	20.6	102	21.2	290.6	242	393	506	2.26	3.68	4.94	3.63	
1	20.6	102	21.2	290.6	243	394	507	2.27	3.69	4.95	3.64	
1	20.6	102	21.2	290.6	244	394	509	2.28	3.69	4.97	3.65	
1	20.6	102	21.2	290.6	245	394	509	2.29	3.69	4.97	3.65	
1	27.8	138	28.4	389.1	482	704	732	4.66	6.79	7.20	6.22	

RESULTS

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					15	24	12					Initial gauge reading
Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
1	27.8	138	28.4	389.1	483	705	733	4.67	6.80	7.21	6.23	
1	27.8	138	28.4	389.1	483	705	736	4.67	6.80	7.24	6.24	
1	27.8	138	28.4	389.1	483	705	737	4.67	6.80	7.25	6.24	
1	27.8	138	28.4	389.1	483	706	738	4.67	6.81	7.26	6.25	
1	34.8	173	35.4	484.9	815	972	1050	7.99	9.47	10.38	9.28	
1	34.8	173	35.4	484.9	816	974	1053	8.00	9.49	10.41	9.30	
1	34.8	173	35.4	484.9	819	976	1059	8.03	9.51	10.47	9.34	
1	34.8	173	35.4	484.9	819	976	1060	8.03	9.51	10.48	9.34	
1	34.8	173	35.4	484.9	819	976	1063	8.03	9.51	10.51	9.35	
1	34.8	173	35.4	484.9	819	976	1066	8.03	9.51	10.54	9.36	
1	34.8	173	35.4	484.9	823	976	1066	8.07	9.51	10.54	9.37	
1	34.8	173	35.4	484.9	823	979	1066	8.07	9.54	10.54	9.38	
1	27.8	138	28.4	389.1	823	978	1065	8.07	9.53	10.53	9.38	
	20.6	102	21.2	290.6	823	978	1065	8.07	9.53	10.53	9.38	
	13.8	68	14.4	197.5	800	969	1044	7.84	9.44	10.32	9.20	
	10.2	50	10.8	148.3	781	953	1034	7.65	9.28	10.22	9.05	
	6.6	32	7.2	99.0	771	940	1011	7.55	9.15	9.99	8.90	
	3.0	14	3.6	49.7	695	888	985	6.79	8.63	9.73	8.38	
	1.2	5	1.8	25.1	678	857	957	6.62	8.32	9.45	8.13	
	0.0	0	0.0	0.0	633	829	933	6.17	8.04	9.21	7.81	



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Laboratory Technician

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General Manager
Dr. Emilio Saldivar

GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-

PLATE LOAD TEST

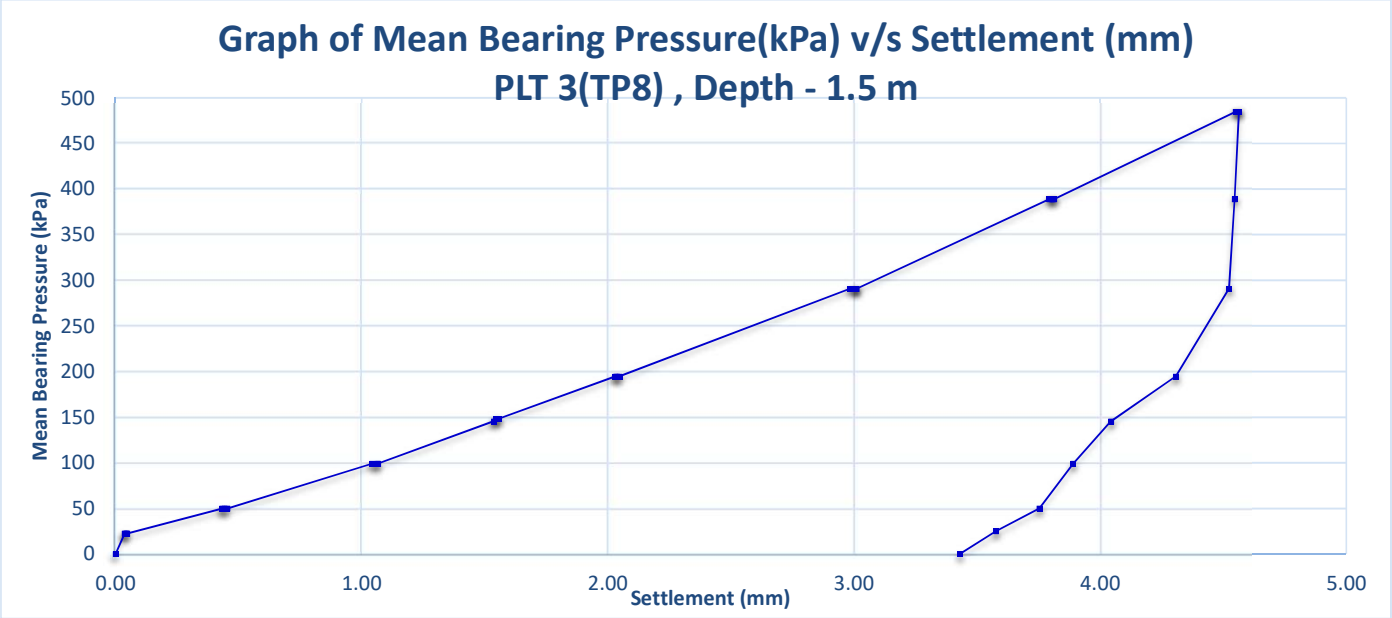
Client:	**Water Research Co.Ltd**
Project:	**G.I For CEB**
Location:	**Henrietta**
Date of request:	**13.03.2019**
Test Method:	**As per British Standard BS 1377-9**
Test Start Date:	**19.03.19**
Report Date:	**02.04.2019**
Test Report No.:	**GETS-2019-027(03): CM/2019/0225**
Plate diameter (mm):	**305**
Plate Area (mm^2):	**73,062**
Depth of testing Area:	**2m below ground level**
Description of Strata:	**Greyish brown high plasticity silty clay. CWB to RS**

RESULTS : PLT 3 (TP8)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					5	32	44					Initial gauge reading
	0.6	3	1.4	19.6	12	42	69	0.07	0.10	0.25	0.14	Seating load
	0.0	0	0.0	0.0	12	42	69	0.07	0.10	0.25	0.14	Unloading
	0.2	1	1.0	14.1	12	42	69	0.07	0.10	0.25	0.14	Half Seating load
			0.0	0							0.00	
1	1.0	4	1.6	22.4	16	45	73	0.04	0.03	0.04	0.04	Loading
1	1.0	4	1.6	22.4	16	46	74	0.04	0.04	0.05	0.04	
1	1.0	4	1.6	22.4	16	46	75	0.04	0.04	0.06	0.05	
1	3.0	14	3.6	49.7	40	83	130	0.28	0.41	0.61	0.43	
1	3.0	14	3.6	49.7	42	84	130	0.30	0.42	0.61	0.44	
1	3.0	14	3.6	49.7	42	85	132	0.30	0.43	0.63	0.45	
1	6.6	32	7.2	99.0	76	157	203	0.64	1.15	1.34	1.04	
1	6.6	32	7.2	99.0	78	159	205	0.66	1.17	1.36	1.06	
1	6.6	32	7.2	99.0	78	160	205	0.66	1.18	1.36	1.07	
1	10.0	49	10.6	145.5	116	207	261	1.04	1.65	1.92	1.54	
1	10.2	50	10.8	148.3	117	208	262	1.05	1.66	1.93	1.55	
1	10.2	50	10.8	148.3	118	209	262	1.06	1.67	1.93	1.55	
1	10.2	50	10.8	148.3	119	209	262	1.07	1.67	1.93	1.56	
1	13.6	67	14.2	194.8	146	261	325	1.34	2.19	2.56	2.03	
1	13.6	67	14.2	194.8	147	261	326	1.35	2.19	2.57	2.04	
1	13.6	67	14.2	194.8	148	263	326	1.36	2.21	2.57	2.05	
1	20.6	102	21.2	290.6	209	371	438	1.97	3.29	3.69	2.98	
1	20.6	102	21.2	290.6	210	376	439	1.98	3.34	3.70	3.01	
1	20.6	102	21.2	290.6	210	376	439	1.98	3.34	3.70	3.01	
1	20.6	102	21.2	290.6	210	377	439	1.98	3.35	3.70	3.01	
1	20.6	102	21.2	290.6	210	377	439	1.98	3.35	3.70	3.01	
1	27.8	138	28.4	389.1	295	401	565	2.83	3.59	4.96	3.79	
1	27.8	138	28.4	389.1	296	402	566	2.84	3.60	4.97	3.80	
1	27.8	138	28.4	389.1	296	402	567	2.84	3.60	4.98	3.81	

RESULTS : PLT 3 (TP8)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					5	32	44					Initial gauge reading
Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
1	27.8	138	28.4	389.1	297	403	567	2.85	3.61	4.98	3.81	
1	34.8	173	35.4	484.9	367	499	622	3.55	4.57	5.53	4.55	
1	34.8	173	35.4	484.9	367	499	623	3.55	4.57	5.54	4.55	
1	34.8	173	35.4	484.9	368	500	624	3.56	4.58	5.55	4.56	
1	34.8	173	35.4	484.9	368	500	624	3.56	4.58	5.55	4.56	
1	27.8	138	28.4	389.1	367	500	620	3.55	4.58	5.51	4.55	
1	20.6	102	21.2	290.6	365	500	615	3.53	4.58	5.46	4.52	
1	13.6	67	14.2	194.8	335	487	593	3.23	4.45	5.24	4.31	
1	10.0	49	10.6	145.5	325	422	589	3.13	3.80	5.20	4.04	
1	6.6	32	7.2	99.0	305	415	570	2.93	3.73	5.01	3.89	
1	3.0	14	3.6	49.7	298	398	553	2.86	3.56	4.84	3.75	
1	1.2	5	1.8	25.1	274	382	540	2.62	3.40	4.71	3.58	
1	0.0	0	0.8	0.0	260	372	520	2.48	3.30	4.51	3.43	



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Laboratory Technician

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General Manager
Dr. Emilio Saldivar

RESULTS : PLT 3 (TP8)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					5	32	44					Initial gauge reading

GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-

PLATE LOAD TEST

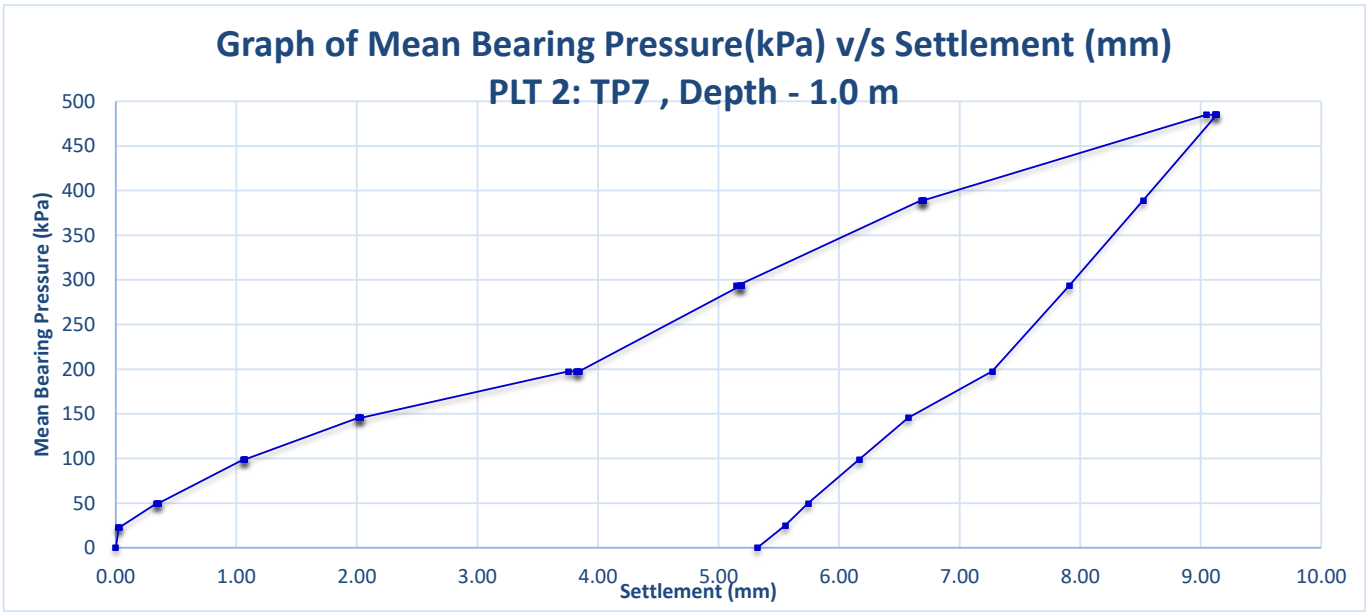
Client:	**Water Research Co.Ltd**
Project:	**G.I For CEB**
Location:	**Henrietta**
Date of request:	**13.03.2019**
Test Method:	**As per British Standard BS 1377-9**
Test Start Date:	**15.03.2019**
Report Date:	**02.04.2019**
Test Report No.:	**GETS-2019-027 PLT(2): CM/2019/0224**
Plate diameter (mm):	**305**
Plate Area (mm^2):	**73,062**
Depth of testing Area:	**1.5 m below ground level**
Description of Strata:	**Greyish to reddish brown high plasticity CLAY. CWB to RS**

RESULTS: PLT 2 (TP7)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					13	**27**	**0**					**Initial gauge reading**
	0.6	3	1.4	19.6	14	28	2	0.01	0.01	0.02	0.01	**Seating load**
	0.0	0	0.0	0.0	14	27	2	0.01	0.00	0.02	0.01	**Unloading**
	0.2	1	1.0	14.1	14	27	2	0.01	0.00	0.02	0.01	**Half Seating load**
				0							0.00	
1	1.0	4	1.6	22.4	15	29	6	0.01	0.02	0.04	0.02	**Loading**
1	1.0	4	1.6	22.4	15	29	6	0.01	0.02	0.04	0.02	
1	1.0	4	1.6	22.4	16	29	6	0.02	0.02	0.04	0.03	
1	3.0	14	3.6	49.7	48	49	48	0.34	0.22	0.46	0.34	
1	3.0	14	3.6	49.7	48	49	50	0.34	0.22	0.48	0.35	
1	3.0	14	3.6	49.7	49	49	51	0.35	0.22	0.49	0.35	
1	3.0	14	3.6	49.7	49	49	51	0.35	0.22	0.49	0.35	
1	6.6	32	7.2	99.0	121	110	130	1.07	0.83	1.28	1.06	
1	6.6	32	7.2	99.0	122	111	130	1.08	0.84	1.28	1.07	
1	6.6	32	7.2	99.0	122	112	131	1.08	0.85	1.29	1.07	
1	6.6	32	7.2	99.0	122	112	131	1.08	0.85	1.29	1.07	
1	10.0	49	10.6	145.5	228	200	218	2.14	1.73	2.16	2.01	
1	10.0	49	10.6	145.5	229	201	220	2.15	1.74	2.18	2.02	
1	10.0	49	10.6	145.5	229	201	220	2.15	1.74	2.18	2.02	
1	10.0	49	10.6	145.5	230	202	221	2.16	1.75	2.19	2.03	
1	10.0	49	10.6	145.5	230	202	221	2.16	1.75	2.19	2.03	
1	13.8	68	14.4	197.5	400	370	400	3.86	3.43	3.98	3.76	
1	13.8	68	14.4	197.5	410	378	401	3.96	3.51	3.99	3.82	
1	13.8	68	14.4	197.5	412	379	402	3.98	3.52	4.00	3.83	
1	13.8	68	14.4	197.5	412	380	402	3.98	3.53	4.00	3.84	
1	13.8	68	14.4	197.5	413	381	402	3.99	3.54	4.00	3.84	
1	20.8	103	21.4	293.3	590	487	520	5.76	4.60	5.18	5.18	
1	20.8	103	21.4	293.3	591	487	521	5.77	4.60	5.19	5.19	
1	20.8	103	21.4	293.3	591	487	522	5.77	4.60	5.20	5.19	

RESULTS: PLT 2 (TP7)

Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
					G 1	G 2	G 3	G 1	G 2	G 3		
					13	27	0					Initial gauge reading
Time Interval (mins)	Ring Gauge reading/ mm	Divs	Load (kN)	Mean bearing pressure (kPa)	Gauge readings (div)			Gauge readings (mm)			Average settlement (mm)	Remarks
1	20.8	103	21.4	293.3	591	487	523	5.77	4.60	5.21	5.19	
1	20.8	103	21.4	293.3	591	487	523	5.64	4.60	5.21	5.15	
1	27.8	138	28.4	389.1	721	656	684	6.94	6.29	6.82	6.68	
1	27.8	138	28.4	389.1	722	657	684	6.95	6.30	6.82	6.69	
1	27.8	138	28.4	389.1	723	658	684	6.96	6.31	6.82	6.70	
1	27.8	138	28.4	389.1	725	658	684	6.98	6.31	6.82	6.70	
1	27.8	138	28.4	389.1	725	658	684	6.98	6.31	6.82	6.70	
1	34.8	173	35.4	484.9	939	900	931	9.12	8.73	9.29	9.05	
1	34.8	173	35.4	484.9	959	901	932	9.32	8.74	9.30	9.12	
1	34.8	173	35.4	484.9	960	901	932	9.33	8.74	9.30	9.12	
1	34.8	173	35.4	484.9	961	901	932	9.34	8.74	9.30	9.13	
1	34.8	173	35.4	484.9	962	901	933	9.35	8.74	9.31	9.13	
1	27.8	138	28.4	389.1	890	890	833	8.63	8.63	8.31	8.52	
1	20.8	103	21.4	293.3	824	805	799	7.97	7.78	7.97	7.91	
1	13.8	68	14.4	197.5	763	799	675	7.36	7.72	6.73	7.27	
1	10.0	49	10.6	145.5	703	700	625	6.76	6.73	6.23	6.57	
1	6.6	32	7.2	99.0	653	644	609	6.26	6.17	6.07	6.17	
1	3.0	14	3.6	49.7	600	599	580	5.73	5.72	5.78	5.74	
1	1.2	5	1.8	25.1	599	591	532	5.72	5.64	5.30	5.55	
1	0	0	0.0	0.0	583	575	495	5.56	5.48	4.93	5.32	



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Laboratory Technician

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General Manager
Dr. Emilio Saldivar

Appendix F: DCPT Results

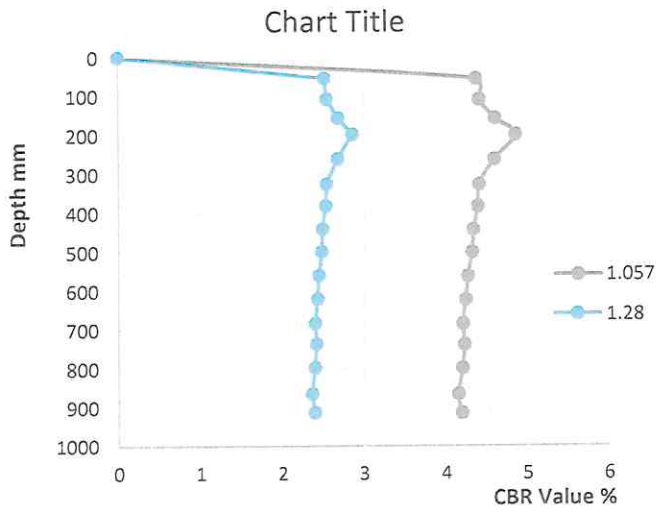
GEOTECHNICAL SERVICES LIMITED

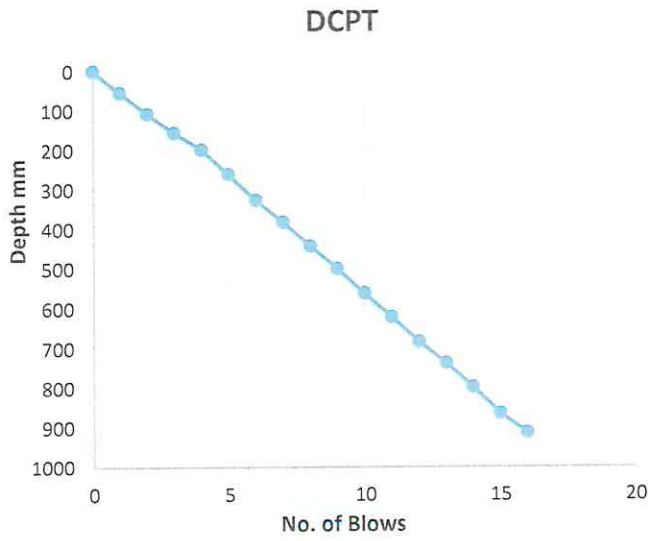
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (1) DCPT
Client Ref No.	TP 1
GETS Sample No.	CM/2019/0229
Depth (m)	1.8 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	22.03.19
Technicians:	A.S, A.G,A.C
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	55	55.00	3.45
1	2	109	54.50	3.48
1	3	157	52.33	3.65
1	4	199	49.75	3.86
1	5	262	52.40	3.64
1	6	327	54.50	3.48
1	7	383	54.71	3.47
1	8	443	55.38	3.42
1	9	500	55.56	3.41
1	10	562	56.20	3.36
1	11	622	56.55	3.34
1	12	684	57.00	3.31
1	13	738	56.77	3.33
1	14	799	57.07	3.31
1	15	866	57.73	3.26
1	16	915	57.19	3.30





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

-End Of Test Report-

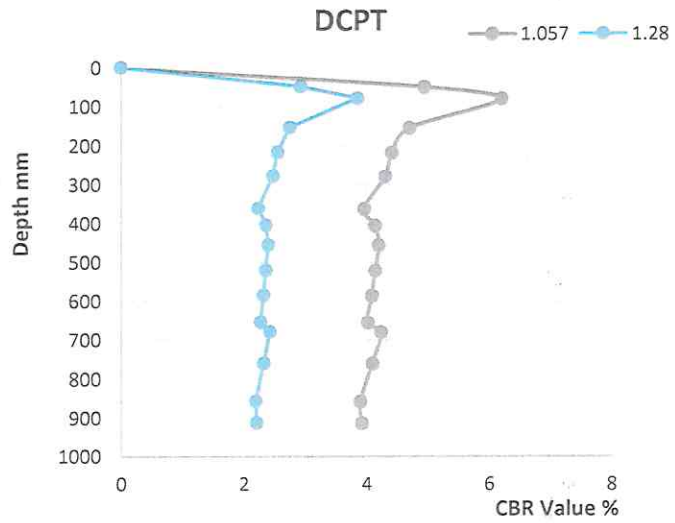
GEOTECHNICAL SERVICES LIMITED

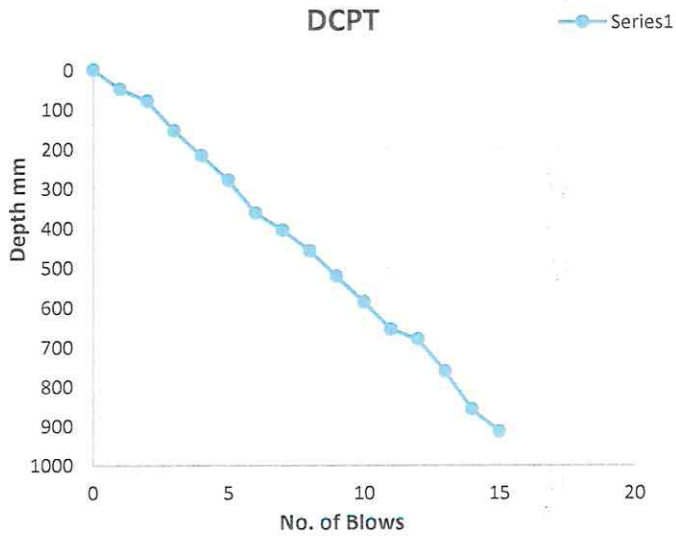
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (2) DCPT
Client Ref No.	TP 2
GETS Sample No.	CM/2019/0230
Depth (m)	1.2 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	20.03.19
Technicians:	A.S, A.G
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	49	49.00	3.93
1	2	79	39.50	5.03
1	3	154	51.33	3.73
1	4	218	54.50	3.48
1	5	279	55.80	3.39
1	6	362	60.33	3.10
1	7	405	57.86	3.25
1	8	457	57.13	3.30
1	9	521	57.89	3.25
1	10	586	58.60	3.21
1	11	655	59.55	3.15
1	12	680	56.67	3.33
1	13	761	58.54	3.21
1	14	858	61.29	3.05
1	15	914	60.93	3.07





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

-End Of Test Report-

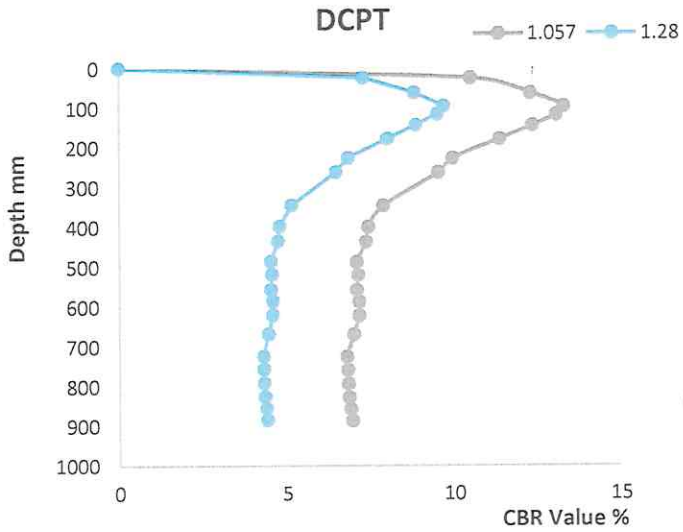
GEOTECHNICAL SERVICES LIMITED

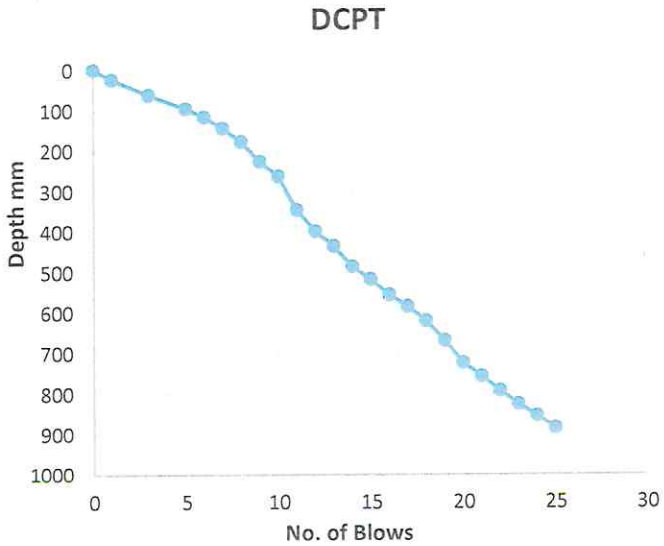
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (3) DCPT
Client Ref No.	TP 3
GETS Sample No.	CM/2019/0231
Depth (m)	2.0 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	19.03.19
Technicians:	A.S, A.G, A.C
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	24	24.00	8.90
2	3	62	20.67	10.57
2	5	96	19.20	11.50
1	6	117	19.50	11.30
1	7	144	20.57	10.62
1	8	178	22.25	9.71
1	9	227	25.22	8.41
1	10	263	26.30	8.01
1	11	346	31.45	6.53
1	12	399	33.25	6.12
1	13	436	33.54	6.06
1	14	487	34.79	5.82
1	15	519	34.60	5.85
1	16	557	34.81	5.81
1	17	586	34.47	5.88
1	18	621	34.50	5.87
1	19	669	35.21	5.74
1	20	725	36.25	5.55
1	21	758	36.10	5.57
1	22	793	36.05	5.58
1	23	827	35.96	5.60
1	24	856	35.67	5.65
1	25	886	35.44	5.69





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

-End Of Test Report-

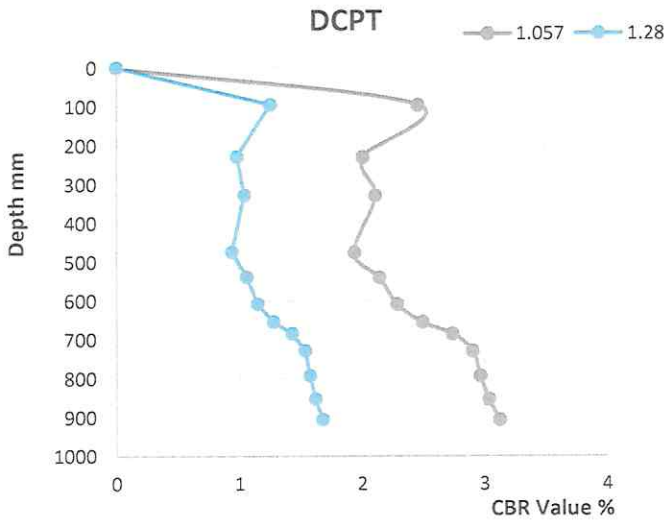
GEOTECHNICAL SERVICES LIMITED

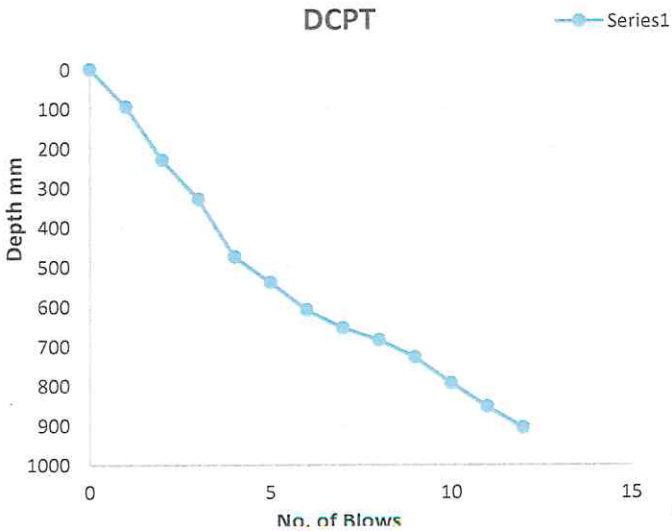
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (8) DCPT
Client Ref No.	TP 5
GETS Sample No.	CM/2019/0236
Depth (m)	1.5 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	25.03.2019
Technicians:	A.S, A.G
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	95	95.00	1.85
1	2	230	115.00	1.49
1	3	329	109.67	1.58
1	4	475	118.75	1.44
1	5	540	108.00	1.60
1	6	609	101.50	1.72
1	7	655	93.57	1.89
1	8	685	85.63	2.08
1	9	729	81.00	2.22
1	10	794	79.40	2.27
1	11	854	77.64	2.33
1	12	907	75.58	2.40





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

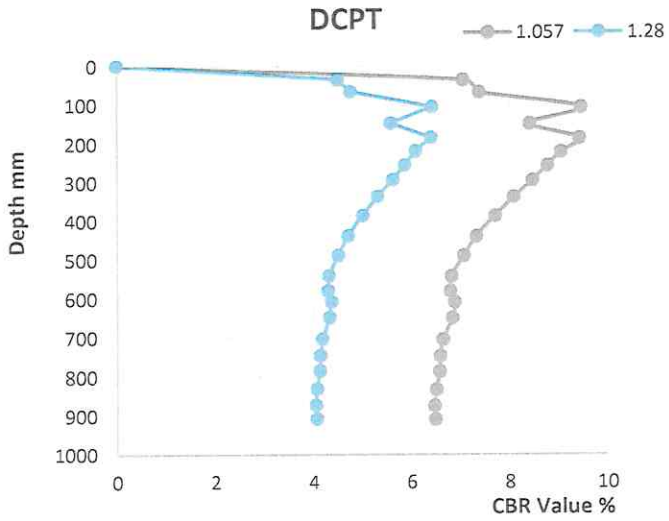
GEOTECHNICAL SERVICES LIMITED

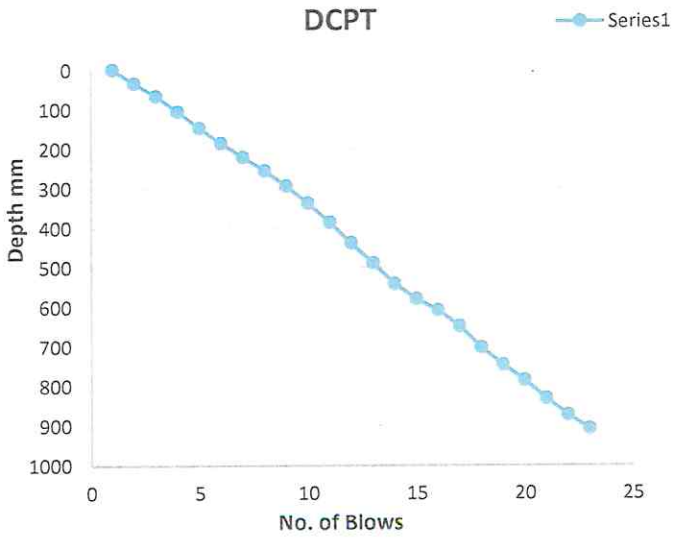
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (6) DCPT
Client Ref No.	TP 6
GETS Sample No.	CM/2019/0234
Depth (m)	1.5 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	14.03.19
Technicians:	A.S, A.G, A.C
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	35	35.00	5.77
1	2	67	33.50	6.07
2	4	106	26.50	7.94
1	5	148	29.60	7.00
2	7	186	26.57	7.92
1	8	221	27.63	7.57
1	9	256	28.44	7.32
1	10	294	29.40	7.05
1	11	338	30.73	6.70
1	12	386	32.17	6.36
1	13	439	33.77	6.02
1	14	489	34.93	5.79
1	15	542	36.13	5.57
1	16	580	36.25	5.55
1	17	609	35.82	5.62
1	18	649	36.06	5.58
1	19	704	37.05	5.41
1	20	747	37.35	5.36
1	21	786	37.43	5.35
1	22	832	37.82	5.29
1	23	874	38.00	5.26
1	24	909	37.88	5.28





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

-End Of Test Report-

Note: The results are produced to the best of our knowledge with the test method on the sample submitted by the Client. However the organisation bears no responsibility whatsoever for misinterpretation and misuse of the contents of the results. Results cannot be reproduced partially or fully without written permission from GETS Laboratory.

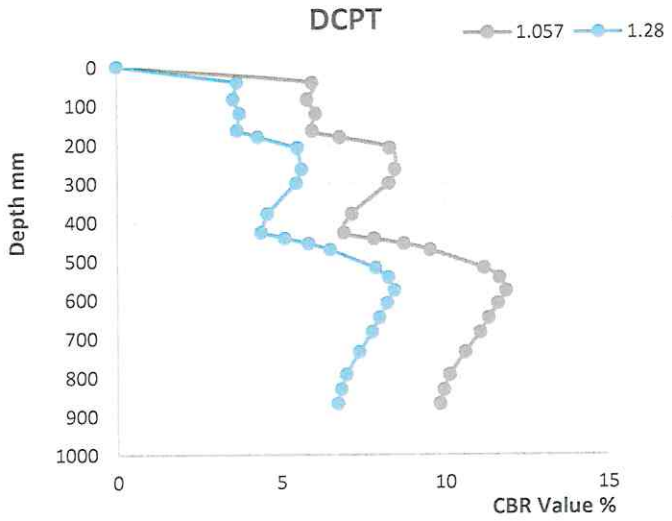
GEOTECHNICAL SERVICES LIMITED

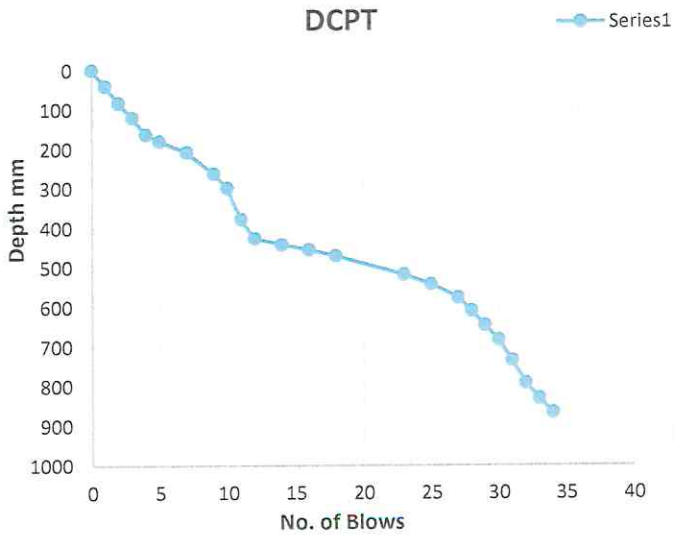
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (5) DCPT
Client Ref No.	TP 7
GETS Sample No.	CM/2019/0233
Depth (m)	1.5 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	15.03.19
Technicians:	A.S, A.G, A.C
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	41	41.00	4.82
1	2	84	42.00	4.69
1	3	121	40.33	4.91
1	4	164	41.00	4.82
1	5	181	36.20	5.56
2	7	209	29.86	6.93
2	9	264	29.33	7.07
1	10	300	30.00	6.89
1	11	379	34.45	5.88
1	12	427	35.58	5.67
2	14	443	31.64	6.48
2	16	456	28.50	7.31
2	18	472	26.22	8.04
5	23	519	22.57	9.55
2	25	543	21.72	9.98
2	27	577	21.37	10.17
1	28	610	21.79	9.95
1	29	647	22.31	9.68
1	30	684	22.80	9.44
1	31	736	23.74	9.01
1	32	793	24.78	8.58
1	33	832	25.21	8.41
1	34	868	25.53	8.29





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

-End Of Test Report-

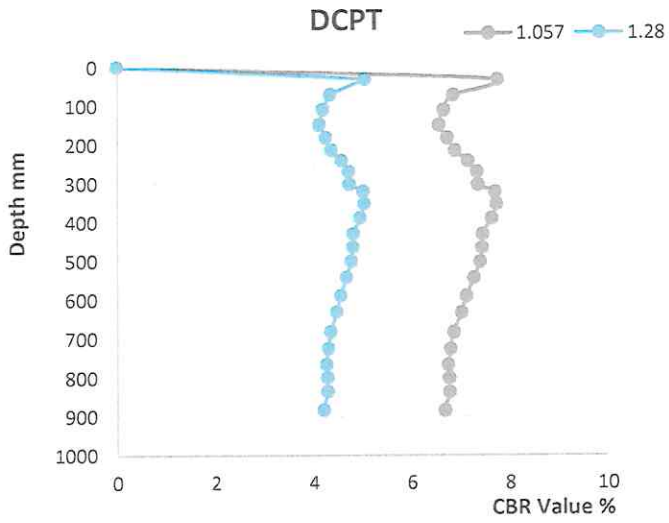
GEOTECHNICAL SERVICES LIMITED

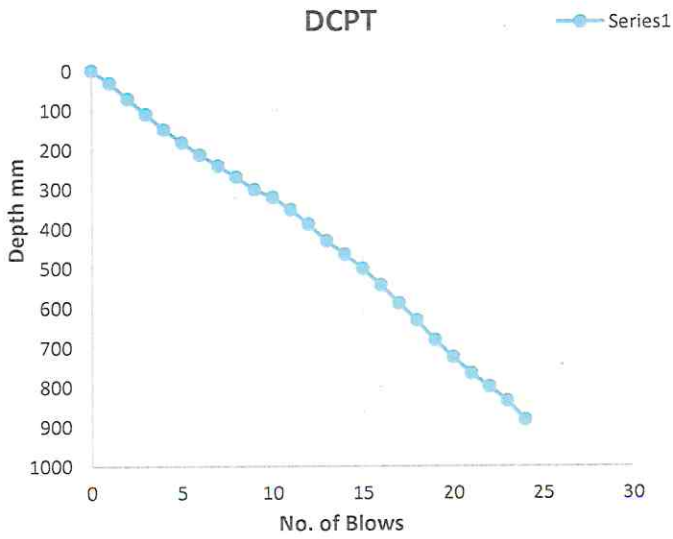
-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (4) DCPT
Client Ref No.	TP 8
GETS Sample No.	CM/2019/0232
Depth (m)	2m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	19.03.19
Technicians:	A.S, A.G, A.C
Report by:	A.C

Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	32	32.00	6.40
1	2	72	36.00	5.59
1	3	111	37.00	5.42
1	4	150	37.50	5.34
1	5	183	36.60	5.49
1	6	215	35.83	5.62
1	7	242	34.57	5.86
1	8	270	33.75	6.02
1	9	303	33.67	6.04
1	10	322	32.20	6.35
1	11	353	32.09	6.38
1	12	390	32.50	6.29
1	13	432	33.23	6.13
1	14	466	33.29	6.12
1	15	502	33.47	6.08
1	16	544	34.00	5.97
1	17	590	34.71	5.83
1	18	633	35.17	5.74
1	19	683	35.95	5.60
1	20	726	36.30	5.54
1	21	767	36.52	5.50
1	22	801	36.41	5.52
1	23	837	36.39	5.52
1	24	885	36.88	5.44





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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

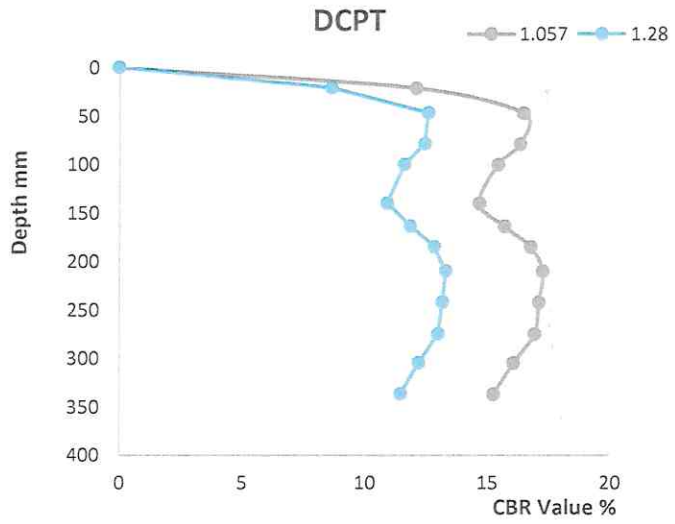
-End Of Test Report-

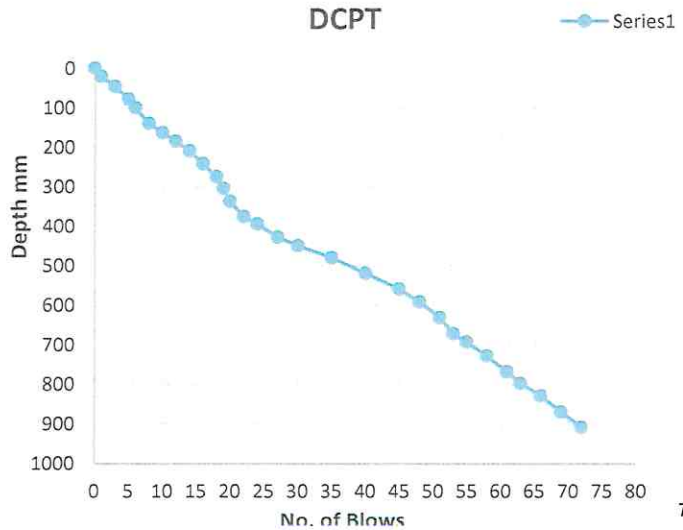
GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-

DYNAMIC CONE PENETRATION TEST

Client	Water Research Co.Ltd
Project:	CEB- Henritta
Location:	Henritta
Lab Ref Number:	GETS-2019-027 (10) DCPT
Client Ref No.	TP 9
GETS Sample No.	CM/2019/0238
Depth (m)	1.3 m below G.L
Test Method:	BS 1377-9:1990 Part 3
Date of Testing:	25.03.19
Technicians:	A.S, A.G
Report by:	A.C





Blows	Σ Blows	Depth (mm)	Depth/Blows (mm/blow)	Estimated CBR Value (%)
0	0	0	0.00	0.00
1	1	21	21.00	10.38
2	3	47	15.67	14.54
2	5	79	15.80	14.40
1	6	100	16.67	13.54
2	8	140	17.50	12.80
2	10	164	16.40	13.79
2	12	185	15.42	14.81
2	14	210	15.00	15.29
2	16	242	15.13	15.14
2	18	275	15.28	14.97
1	19	305	16.05	14.14
1	20	337	16.85	13.37
2	22	376	17.09	13.15
2	24	395	16.46	13.74
3	27	429	15.89	14.31
3	30	450	15.00	15.29
5	35	481	13.74	16.91
5	40	520	13.00	18.04
5	45	560	12.44	18.97
3	48	592	12.33	19.17
3	51	632	12.39	19.06
2	53	672	12.68	18.56
2	55	694	12.62	18.67
3	58	729	12.57	18.75
3	61	769	12.61	18.69
2	63	798	12.67	18.59
3	66	829	12.56	18.77
3	69	870	12.61	18.68
3	72	909	12.63	18.66

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Laboratory Technician

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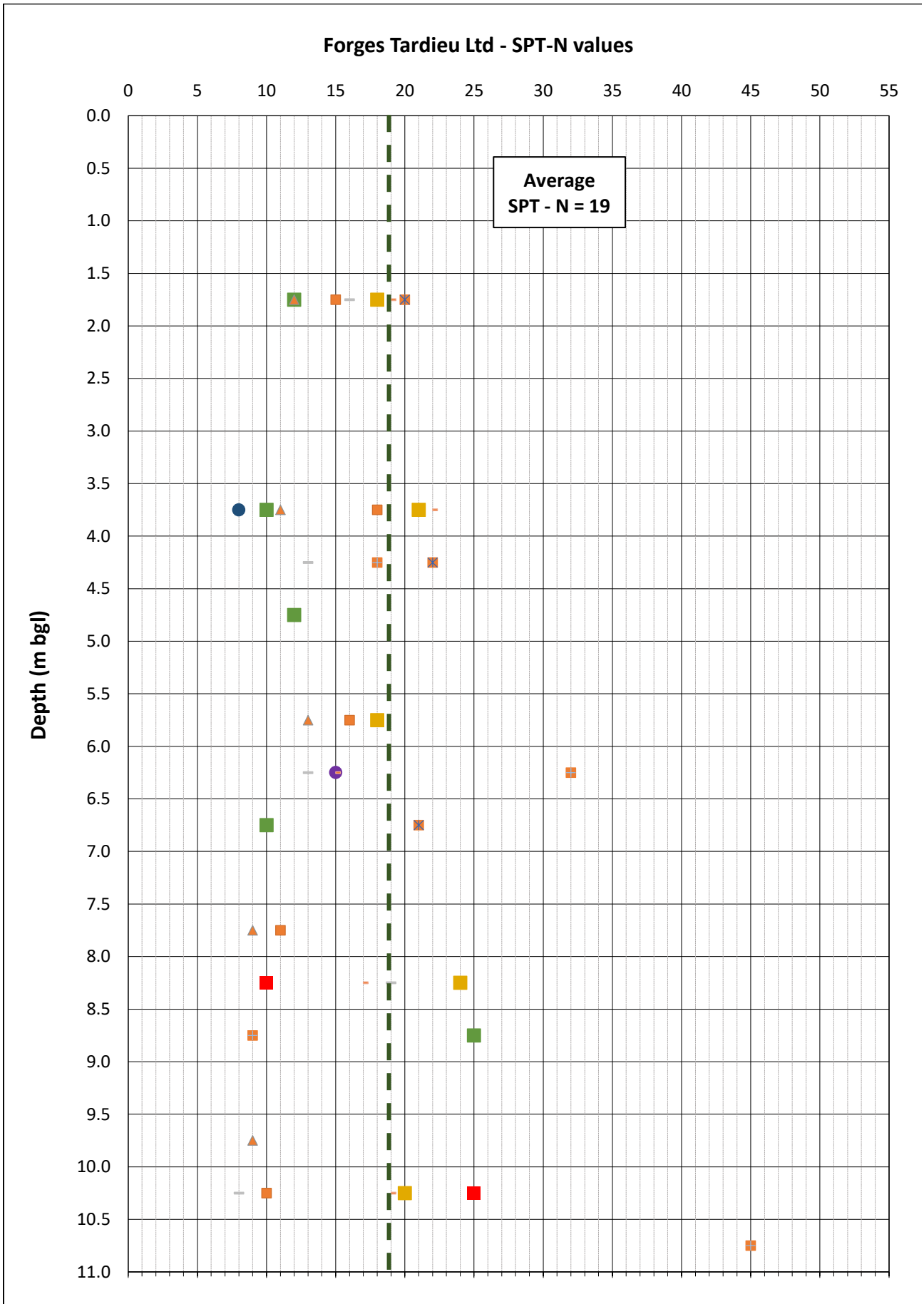
Dr. Emilio Saldivar

General Manager

Appendix G: SPT Graph


Forges Tardieu Ltd - SPT-N values
Average
SPT - N = 19
Depth (m bgl)
0
5
10
15
20
25
30
35
40
45
50
55
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
9.0
9.5
10.0
10.5
11.0

Appendix H: Lab Results

GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-

MOISTURE CONTENT

Client:	Water Research Co.Ltd
Project:	G.I at Proposed Henrietta PV Farm Phase 2
Location:	Henrietta
Date of request:	20-Feb-19
Test Method:	In accordance with BS 1377-2:1990 Section 3.2
Test Start Date:	07-Mar-19
Report Date:	08-Mar-19
Test Report No:	GETS2019-029-01

Test End Date	Gets Sample Reference	Client Reference	Depth (m)	Sample Description	Average Moisture Content (%)
08-Mar-19	CM/2019/0240	TP 1	0.20 - 1.50	Clayey SILT	60
08-Mar-19	CM/2019/0241	TP 1	1.50 - 3.40	Clayey SILT	64
08-Mar-19	CM/2019/0242	TP 2	0.40 -1.50	Very gravelly SAND	64
08-Mar-19	CM/2019/0243	TP 2	1.50 - 3.50	Very gravelly SAND	64
08-Mar-19	CM/2019/0244	TP 3	0.40 - 1.70	Silty CLAY	56
08-Mar-19	CM/2019/0245	TP 3	1.70 - 3.70	Silty CLAY	58
08-Mar-19	CM/2019/0246	TP 5	0.50 - 3.00	Gravelly SILT	49
08-Mar-19	CM/2019/0247	TP 6	0.30 - 2.10	Gravelly SAND	56
08-Mar-19	CM/2019/0248	TP 6	2.10 - 3.20	Gravelly SAND	56
08-Mar-19	CM/2019/0249	TP 7	0.40 - 2.20	Very Silty GRAVEL	43
08-Mar-19	CM/2019/0250	TP 7	2.20 - 3.30	Very Silty GRAVEL	50
08-Mar-19	CM/2019/0251	TP 8	0.30 - 1.10	Clayey SILT	60
08-Mar-19	CM/2019/0252	TP 8	1.10 - 3.20	Clayey SILT	54
08-Mar-19	CM/2019/0253	TP 9	0.20 - 1.20	Very Silty GRAVEL	33
08-Mar-19	CM/2019/0254	TP 9	1.20 - 3.00	Very Silty GRAVEL	31

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Laboratory Technician

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Dr. Emilio Saldivar

General Manager

GEOTECHNICAL SERVICES LTD

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-TEST REPORT-

MOISTURE CONTENT

Client:	Water Research Co.Ltd
Project:	G.I at Proposed Henrietta PV Farm Phase 2
Location:	Henrietta
Date of request:	20-Feb-19
Test Method:	In accordance with BS 1377-2:1990 Section 3.2
Test Start Date:	07-Mar-19
Report Date:	08-Mar-19
Test Report No:	GETS2019-029-01

Test End Date	Gets Sample Reference	Client Reference	Depth (m)	Sample Description	Average Moisture Content (%)
08-Mar-19	CM/2019/0240	TP 1	0.20 - 1.50	Clayey SILT	60
08-Mar-19	CM/2019/0241	TP 1	1.50 - 3.40	Clayey SILT	64
08-Mar-19	CM/2019/0242	TP 2	0.40 -1.50	Very gravelly SAND	64
08-Mar-19	CM/2019/0243	TP 2	1.50 - 3.50	Very gravelly SAND	64
08-Mar-19	CM/2019/0244	TP 3	0.40 - 1.70	Silty CLAY	56
08-Mar-19	CM/2019/0245	TP 3	1.70 - 3.70	Silty CLAY	58
08-Mar-19	CM/2019/0246	TP 5	0.50 - 3.00	Gravelly SILT	49
08-Mar-19	CM/2019/0247	TP 6	0.30 - 2.10	Gravelly SAND	56
08-Mar-19	CM/2019/0248	TP 6	2.10 - 3.20	Gravelly SAND	56
08-Mar-19	CM/2019/0249	TP 7	0.40 - 2.20	Very Silty GRAVEL	43
08-Mar-19	CM/2019/0250	TP 7	2.20 - 3.30	Very Silty GRAVEL	50
08-Mar-19	CM/2019/0251	TP 8	0.30 - 1.10	Clayey SILT	60
08-Mar-19	CM/2019/0252	TP 8	1.10 - 3.20	Clayey SILT	54
08-Mar-19	CM/2019/0253	TP 9	0.20 - 1.20	Very Silty GRAVEL	33
08-Mar-19	CM/2019/0254	TP 10	1.20 - 3.00	Very Silty GRAVEL	31

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Laboratory Technician

fes Dr. Emilio Saldivar
General Manager

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-TEST REPORT-

ATTERBERG LIMITS

Client:	Water Research Co.Ltd
Project:	G.I at Proposed Henrietta PV Farm Phase 2
Location:	Henrietta
Date of request:	20-Feb-19
Test Method:	BS 1377-2:1990 4.3/5.3/5.4
Test Start Date:	06-Mar-19
Report Date:	29-Mar-19
Test Report No:	GETS2019-029-02

Test End Date	Gets Sample Reference	Client Reference	Depth (m)	Sample Description	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)
29-Mar-19	CM/2019/0240	TP 1	0.20 - 1.50	Clayey SILT	52	85	34
29-Mar-19	CM/2019/0241	TP 1	1.50 - 3.40	Clayey SILT	55	95	39
29-Mar-19	CM/2019/0242	TP 2	0.40 - 1.50	Very gravelly SAND	60	116	57
29-Mar-19	CM/2019/0243	TP 2	1.50 - 3.50	Very gravelly SAND	54	115	61
29-Mar-19	CM/2019/0244	TP 3	0.40 - 1.70	Silty CLAY	50	78	28
29-Mar-19	CM/2019/0245	TP 3	1.70 - 3.70	Silty CLAY	50	84	34
29-Mar-19	CM/2019/0246	TP 5	0.50 - 3.00	Gravelly SILT	42	57	15

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Laboratory Technician

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for ***Dr. Emilio Saldivar***

General Manager

-End of Test Report-

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-TEST REPORT-
ATTERBERG LIMITS

Client:	Water Research Co.Ltd
Project:	G.I at Proposed Henrietta PV Farm Phase 2
Location:	Henrietta
Date of request:	20-Feb-19
Test Method:	BS 1377-2:1990 4.3/5.3/5.4
Test Start Date:	06-Mar-19
Report Date:	29-Mar-19
Test Report No:	GETS2019-029-02

Test End Date	Gets Sample Reference	Client Reference	Depth (m)	Sample Description	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)
29-Mar-19	CM/2019/027	TP 6	0.30 - 2.10	Gravelly SAND	49	77	29
29-Mar-19	CM/2019/028	TP 6	2.10 - 3.20	Gravelly SAND	44	79	35
29-Mar-19	CM/2019/029	TP 7	0.40 - 2.20	Very Silty GRAVEL	36	56	20
29-Mar-19	CM/2019/030	TP 7	2.20 - 3.30	Very Silty GRAVEL	35	52	17
29-Mar-19	CM/2019/031	TP 8	0.30 - 1.10	Clayey SILT	64	133	69
29-Mar-19	CM/2019/032	TP 8	1.10 - 3.20	Clayey SILT	64	143	79
29-Mar-19	CM/2019/033	TP 9	0.20 - 1.20	Very Silty GRAVEL	30	40	10
29-Mar-19	CM/2019/034	TP 9	1.20 - 3.00	Very Silty GRAVEL	36	44	8

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for ***Dr. Emilio Saldivar***

General Manager

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-TEST REPORT-

pH Value

Client:	Water Research Co. Ltd
Project	Geotechnical Investigation at Proposed Henrietta Pv Farm Phase 2
Location:	Henrietta
Date of request:	20/02/2019
Test Method:	In accordance with BS 1377-3- 1990 Clause 9.5
Sample Preparation:	As per British Standard
Test Start Date:	26/02/2019
Test End Date:	26/02/2019
Report Date:	07/03/2019
Test Report No:	GETS2019-029-19-pH

GETS Sample Reference	Client Reference	Depth (m)	pH Value
CM/2019/0240	TP1	0.20-1.50	4.79
CM/2019/0242	TP2	0.40-1.50	6.42
CM/2019/0244	TP3	0.40-1.70	5.14
CM/2019/0246	TP5	0.50-3.00	5.41
CM/2019/0247	TP6	0.30-2.10	5.00
CM/2019/0249	TP7	0.40-2.20	5.19
CM/2019/0251	TP8	0.30-1.10	5.1
CM/2019/0253	TP9	0.20-1.20	5.04

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S. MARTIAL

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For *Dr Emilio Saldivar*

General Manager

-End of Test Report-

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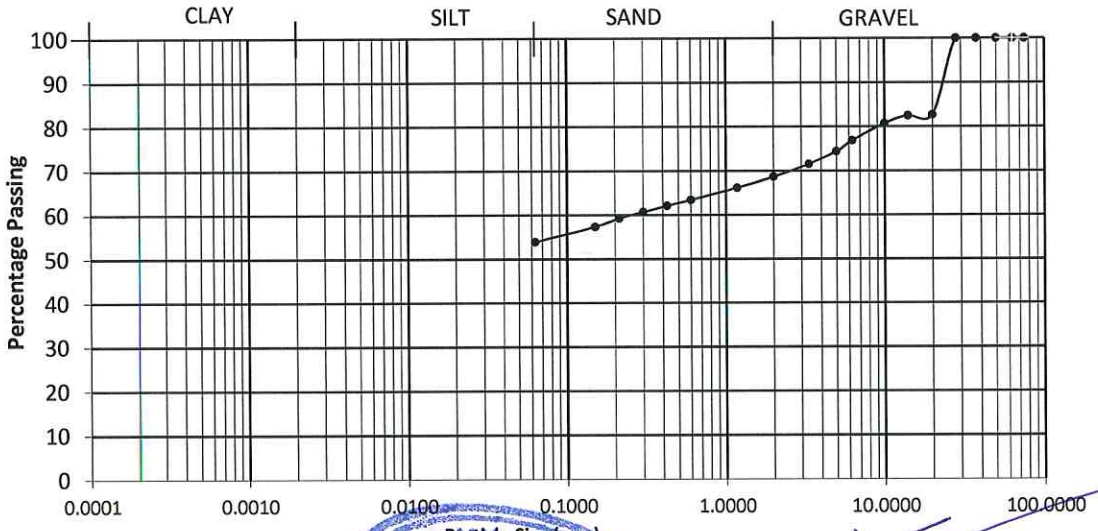
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0240
Location:	Henrietta	**Client Reference:**	TP 1
Date of Request:	20/Feb/19	**Depth (m):**	0.20 - 1.50
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-03-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	5915.0	17.3	82.7
14	68.8	0.2	82.5
10	596.6	1.7	80.7
6.3	1320.1	3.9	76.8
5	843.8	2.5	74.4
3.35	968.3	2.8	71.5
2	986.6	2.9	68.6
1.18	856.9	2.5	66.1
0.6	926.8	2.7	63.4
0.425	449.2	1.3	62.1
0.3	486.7	1.4	60.7
0.212	487.7	1.4	59.2
0.15	645.2	1.9	57.3
0.063	1177.5	3.5	53.9

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Laboratory Technician

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Dr Emilio Saldivar
General Manager

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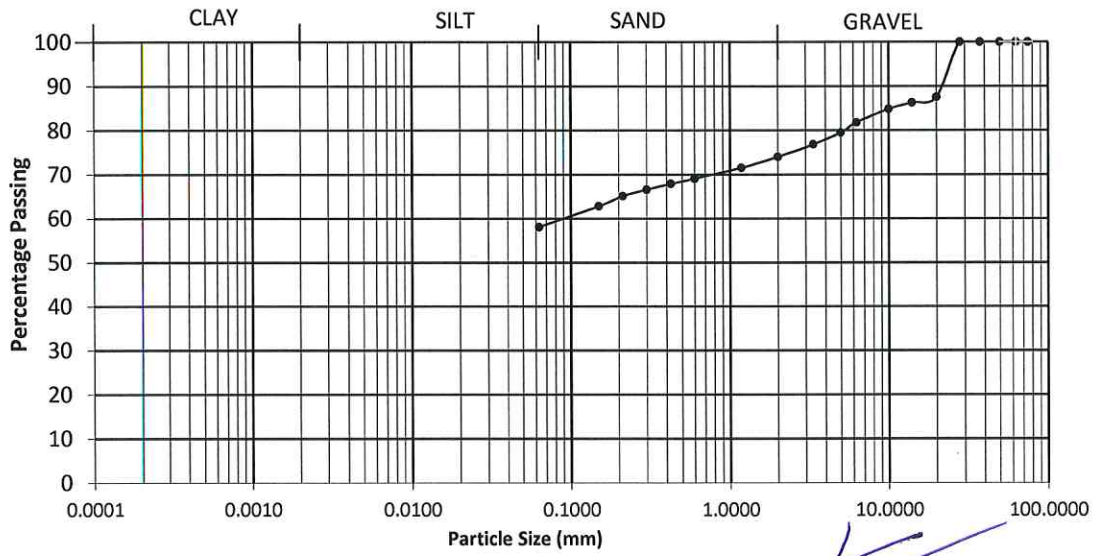
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0241
Location:	Henrietta	**Client Reference:**	TP 1
Date of Request:	20/Feb/19	**Depth (m):**	1.50 - 3.40
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-04-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	5000.0	12.5	87.5
14	517.4	1.3	86.2
10	586.4	1.5	84.8
6.3	1200.0	3.0	81.8
5	925.8	2.3	79.5
3.35	1074.2	2.7	76.8
2	1137.6	2.8	74.0
1.18	993.7	2.5	71.5
0.6	982.9	2.4	69.0
0.425	471.1	1.2	67.9
0.3	527.6	1.3	66.6
0.212	589.1	1.5	65.1
0.15	915.0	2.3	62.8
0.063	1897.9	4.7	58.1

R.B.
Laboratory Technician

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Dr Emilio Saldivar
General Manager

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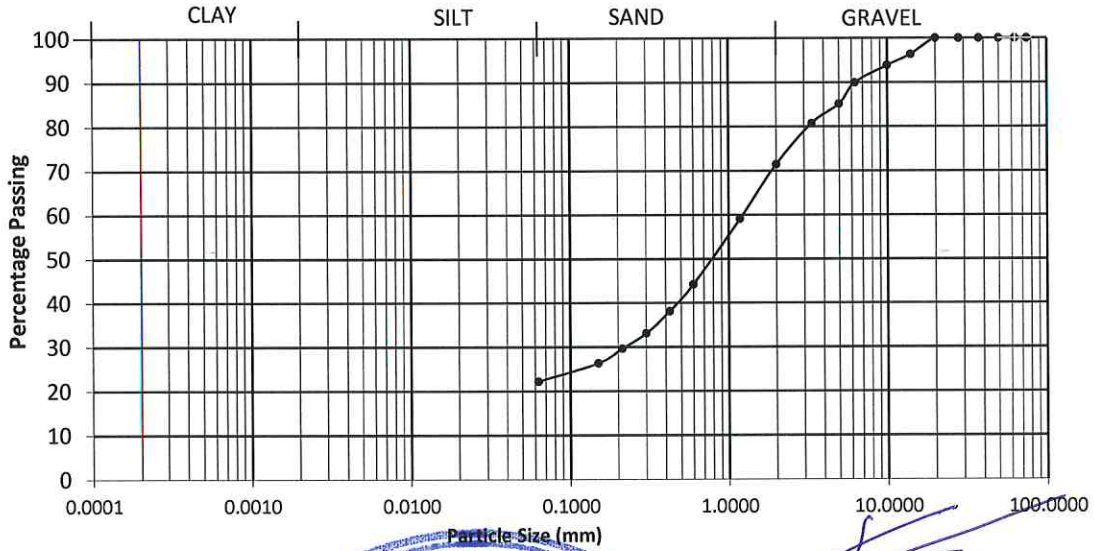
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0241
Location:	Henrietta	**Client Reference:**	TP 2
Date of Request:	20/Feb/19	**Depth (m):**	0.40 - 1.50
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-05-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	1314.3	3.7	96.3
10	906.2	2.5	93.8
6.3	1397.3	3.9	90.0
5	1735.8	4.8	85.1
3.35	1588.9	4.4	80.7
2	3339.0	9.3	71.4
1.18	4452.0	12.4	59.1
0.6	5346.3	14.9	44.2
0.425	2189.3	6.1	38.1
0.3	1810.8	5.0	33.1
0.212	1251.9	3.5	29.6
0.15	1181.7	3.3	26.4
0.063	1475.5	4.1	22.3

Laboratory Technician

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For Dr Emilio Saldivar
General Manager

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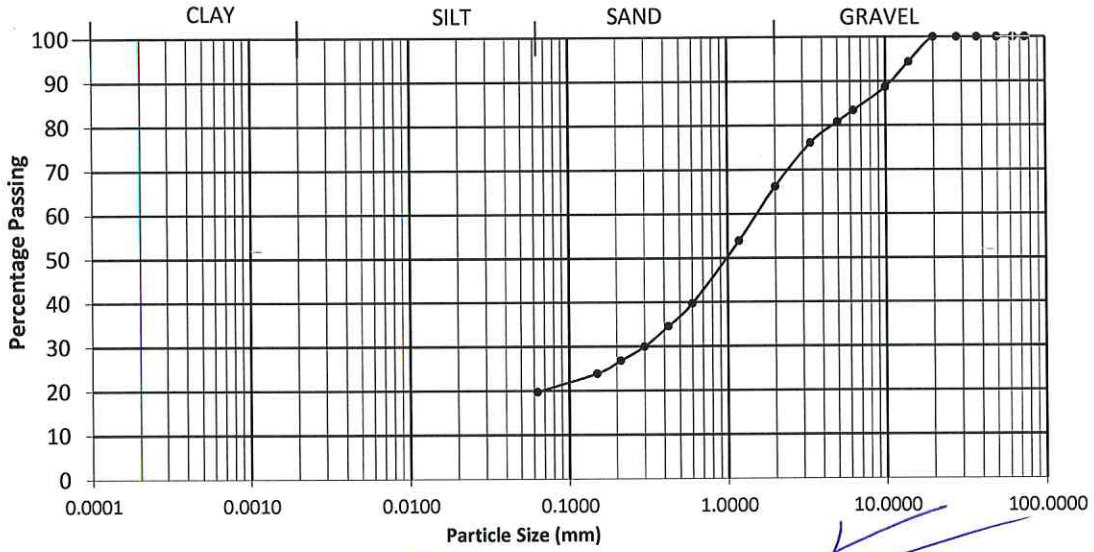
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0243
Location:	Henrietta	**Client Reference:**	TP 2
Date of Request:	20/Feb/19	**Depth (m):**	1.50 - 3.50
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-06-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	2961.6	5.6	94.4
10	3015.4	5.7	88.7
6.3	2781.1	5.3	83.4
5	1363.8	2.6	80.8
3.35	2525.9	4.8	76.1
2	5199.2	9.8	66.2
1.18	6504.4	12.3	53.9
0.6	7495.2	14.2	39.7
0.425	2705.8	5.1	34.6
0.3	2424.0	4.6	30.0
0.212	1704.2	3.2	26.8
0.15	1509.0	2.9	23.9
0.063	2174.6	4.1	19.8

RB

Laboratory Technician

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S. MARTIAL

for Dr Emilio Saldivar
General Manager

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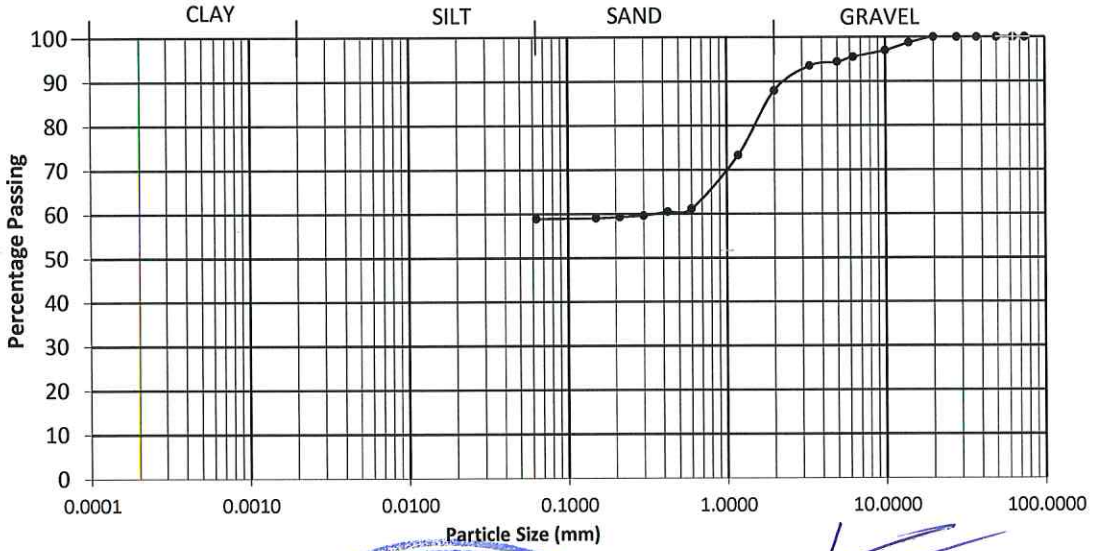
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0244
Location:	Henrietta	**Client Reference:**	TP 3
Date of Request:	20/Feb/19	**Depth (m):**	0.40 - 1.70
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-07-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	25.4	1.3	98.7
10	33.7	1.7	97.0
6.3	29.0	1.5	95.5
5	21.6	1.1	94.4
3.35	17.4	0.9	93.5
2	110.0	5.6	87.9
1.18	286.7	14.6	73.3
0.6	238.5	12.2	61.2
0.425	13.1	0.7	60.5
0.3	17.6	0.9	59.6
0.212	6.1	0.3	59.3
0.15	5.1	0.3	59.0
0.063	2.2	0.1	58.9

Laboratory Technician

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Dr Emilio Saldivar
General Manager

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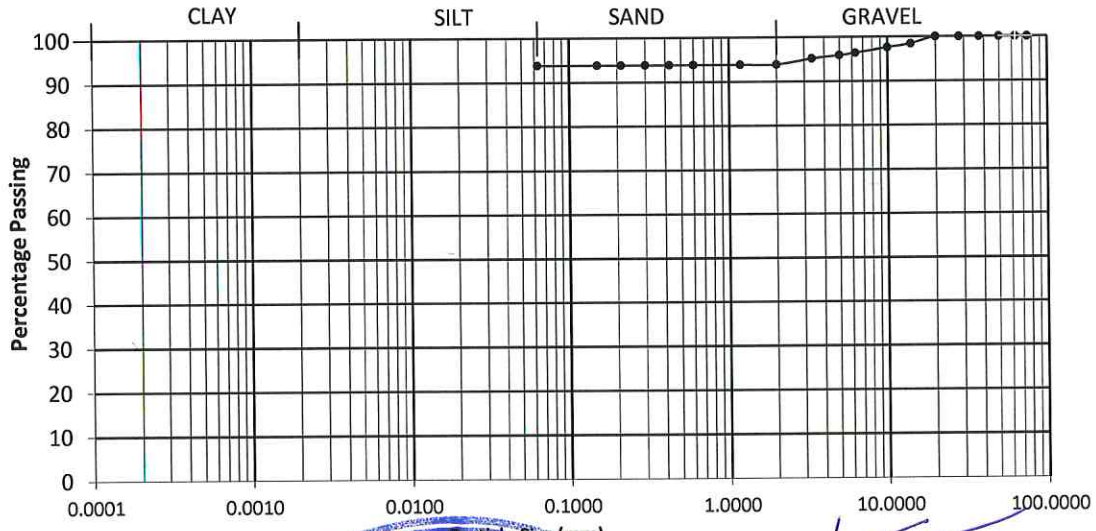
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0245
Location:	Henrietta	**Client Reference:**	TP 3
Date of Request:	20/Feb/19	**Depth (m):**	1.70 - 3.70
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-08-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	850.5	1.6	98.4
10	466.9	0.9	97.6
6.3	647.0	1.2	96.4
5	305.2	0.6	95.9
3.35	375.6	0.7	95.2
2	727.8	1.3	93.9
1.18	0.0	0.0	93.9
0.6	0.0	0.0	93.9
0.425	0.0	0.0	93.9
0.3	0.0	0.0	93.9
0.212	0.0	0.0	93.9
0.15	0.0	0.0	93.9
0.063	0.0	0.0	93.9

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Laboratory Technician

for Dr Emilio Saldivar
General Manager

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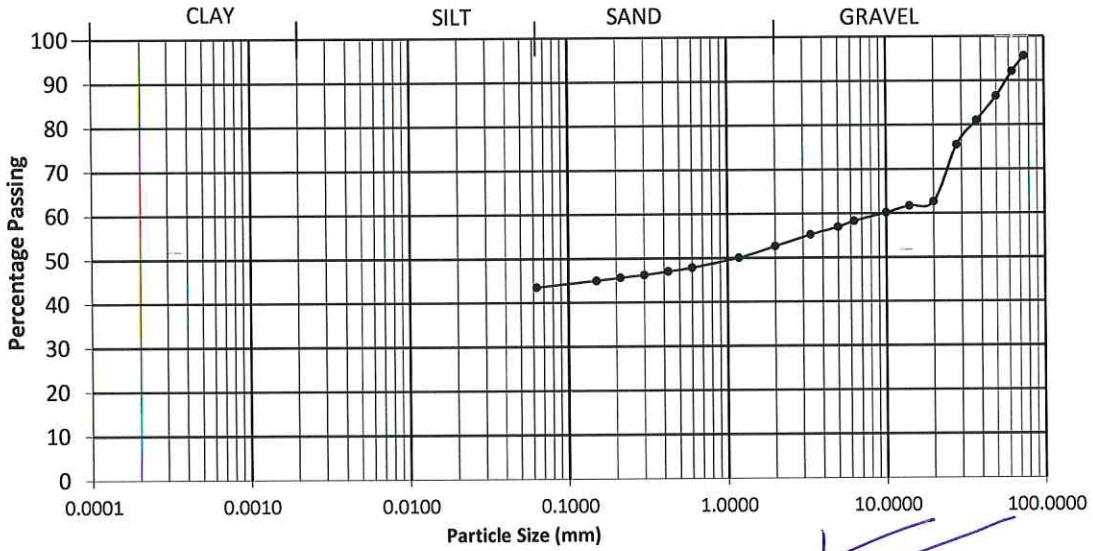
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0246
Location:	Henrietta	**Client Reference:**	TP 5
Date of Request:	20/Feb/19	**Depth (m):**	0.50 - 3.00
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-09-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	1675.0	4.4	95.6
63	1312.0	3.5	92.1
50	2120.0	5.6	86.5
37.5	2080.0	5.5	81.0
28	2089.0	5.5	75.5
20	4856.0	12.8	62.6
14	356.2	0.9	61.7
10	580.7	1.5	60.2
6.3	729.2	1.9	58.2
5	496.1	1.3	56.9
3.35	645.8	1.7	55.2
2	992.3	2.6	52.6
1.18	975.2	2.6	50.0
0.6	832.9	2.2	47.8
0.425	314.2	0.8	47.0
0.3	278.6	0.7	46.3
0.212	224.2	0.6	45.7
0.15	254.6	0.7	45.0
0.063	560.2	1.5	43.5

Laboratory Technician

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for Dr Emilio Saldivar
General Manager

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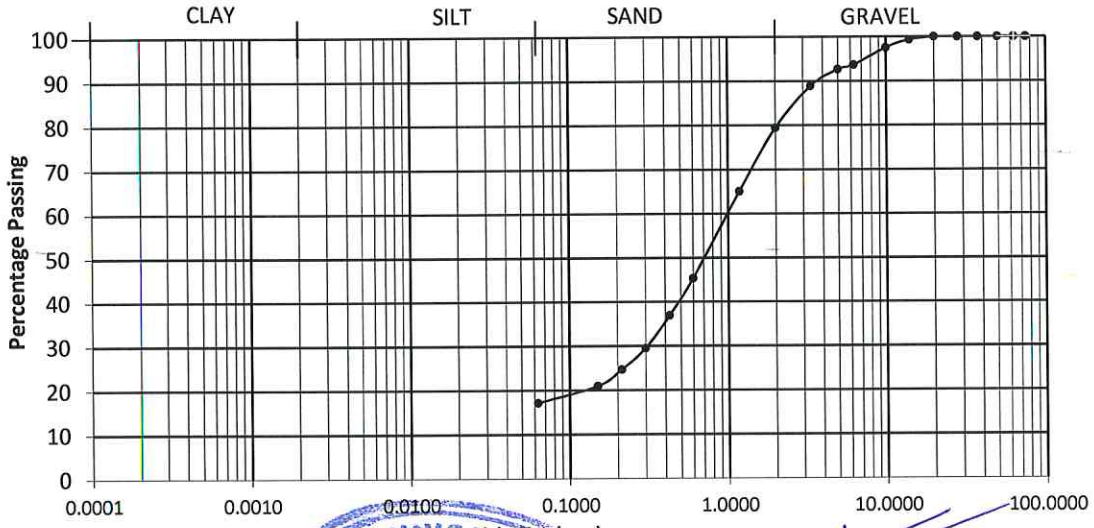
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0247
Location:	Henrietta	**Client Reference:**	TP 6
Date of Request:	20/Feb/19	**Depth (m):**	0.30 - 2.10
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-10-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	358.2	0.7	99.3
10	944.2	1.8	97.6
6.3	2066.7	3.9	93.7
5	554.5	1.0	92.6
3.35	2017.4	3.8	88.9
2	5025.0	9.4	79.4
1.18	7670.8	14.4	65.0
0.6	10491.0	19.7	45.4
0.425	4508.5	8.5	36.9
0.3	3937.1	7.4	29.5
0.212	2577.2	4.8	24.7
0.15	1980.4	3.7	21.0
0.063	2046.4	3.8	17.1

GEOTECHNICAL SERVICES LTD

Laboratory Technician

for Dr Emilio Saldivar
General Manager

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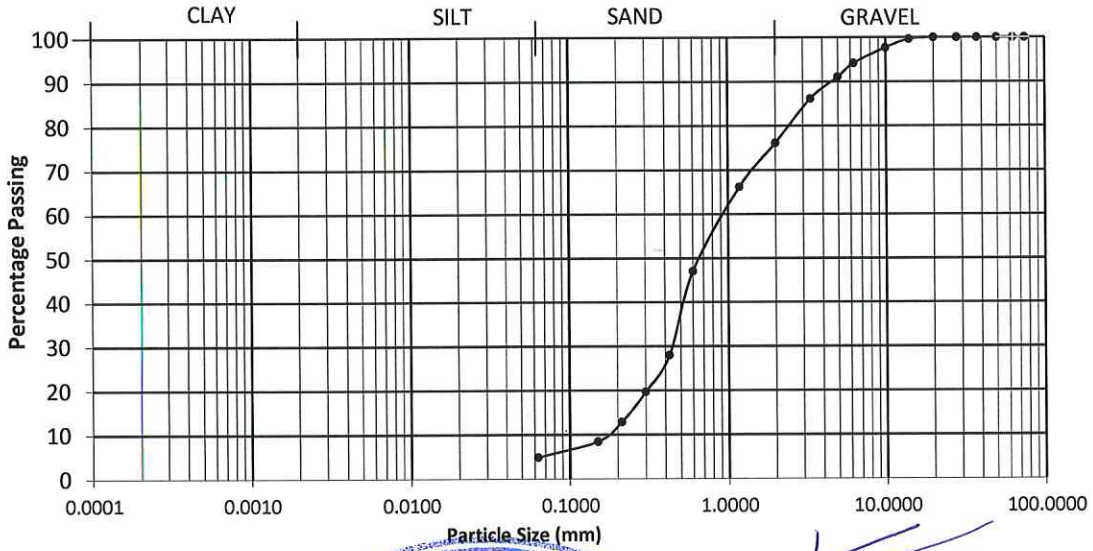
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0248
Location:	Henrietta	**Client Reference:**	TP 6
Date of Request:	20/Feb/19	**Depth (m):**	2.10 - 3.20
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-11-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	0.0	0.0	100.0
37.5	0.0	0.0	100.0
28	0.0	0.0	100.0
20	0.0	0.0	100.0
14	220.4	0.4	99.6
10	1038.2	1.9	97.7
6.3	1912.5	3.5	94.2
5	1697.6	3.1	91.1
3.35	2669.3	4.9	86.1
2	5461.4	10.0	76.1
1.18	5416.7	10.0	66.2
0.6	10397.9	19.1	47.1
0.425	10361.6	19.0	28.0
0.3	4534.4	8.3	19.7
0.212	3705.1	6.8	12.9
0.15	2404.0	4.4	8.5
0.063	1960.1	3.6	4.9

Laboratory Technician

GEOTECHNICAL SERVICES LTD

for Dr Emilio Saldivar
General Manager

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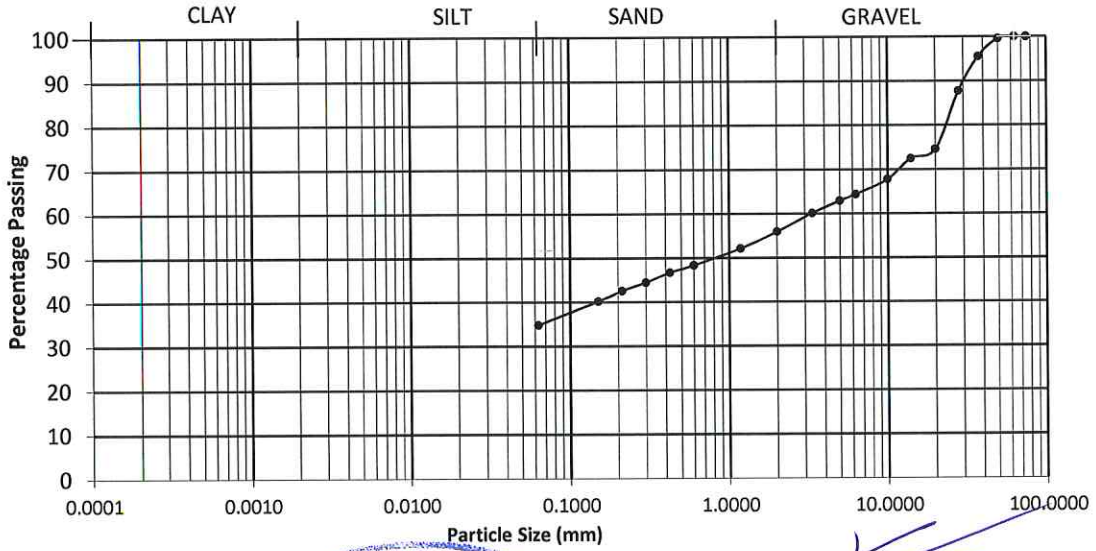
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0249
Location:	Henrietta	**Client Reference:**	TP 7
Date of Request:	20/Feb/19	**Depth (m):**	0.40 - 2.20
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-12-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	209.0	0.4	99.6
37.5	2051.0	4.1	95.5
28	3939.0	7.8	87.7
20	6647.0	13.2	74.5
14	1034.8	2.1	72.5
10	2381.2	4.7	67.7
6.3	1705.4	3.4	64.4
5	735.6	1.5	62.9
3.35	1411.6	2.8	60.1
2	2117.8	4.2	55.9
1.18	1911.4	3.8	52.1
0.6	1917.3	3.8	48.3
0.425	812.9	1.6	46.7
0.3	1112.2	2.2	44.5
0.212	963.5	1.9	42.6
0.15	1185.6	2.4	40.2
0.063	2720.4	5.4	34.8

Laboratory Technician

GEOTECHNICAL SERVICES LTD

for Dr Emilio Saldivar
General Manager

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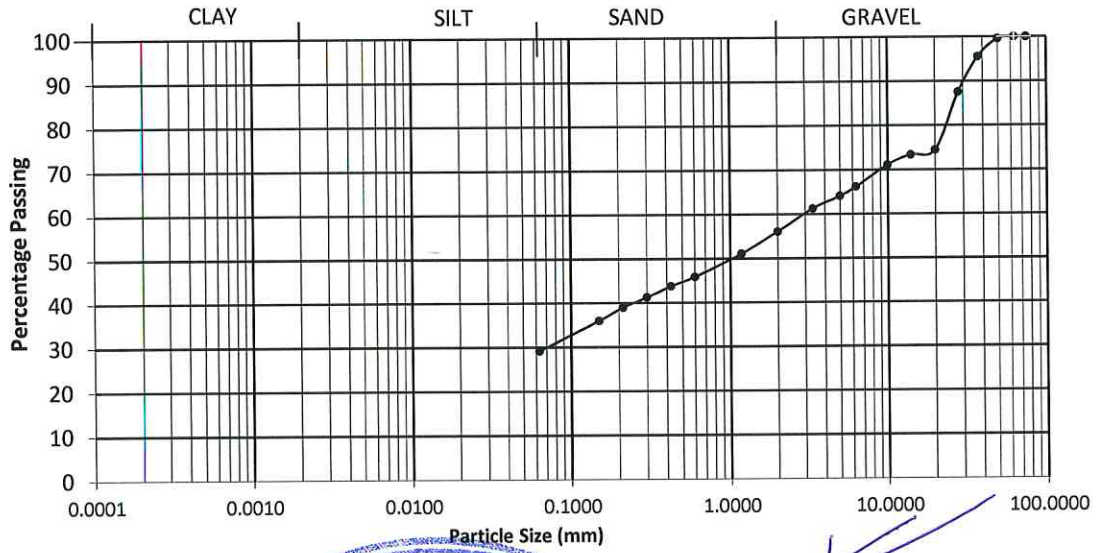
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0250
Location:	Henrietta	**Client Reference:**	TP 7
Date of Request:	20/Feb/19	**Depth (m):**	2.20 - 3.30
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-13-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	0.0	0.0	100.0
63	0.0	0.0	100.0
50	210.0	0.4	99.6
37.5	2059.0	4.1	95.5
28	4040.0	8.0	87.5
20	6585.0	13.0	74.4
14	543.1	1.1	73.4
10	1151.0	2.3	71.1
6.3	2477.8	4.9	66.2
5	1055.6	2.1	64.1
3.35	1421.9	2.8	61.3
2	2619.3	5.2	56.1
1.18	2514.8	5.0	51.1
0.6	2630.1	5.2	45.9
0.425	1065.2	2.1	43.8
0.3	1261.0	2.5	41.3
0.212	1162.5	2.3	39.0
0.15	1500.0	3.0	36.0
0.063	3453.9	6.8	29.2

RB

Laboratory Technician

GEOTECHNICAL SERVICES LTD

S MARTIAL

for Dr Emilio Saldivar
General Manager

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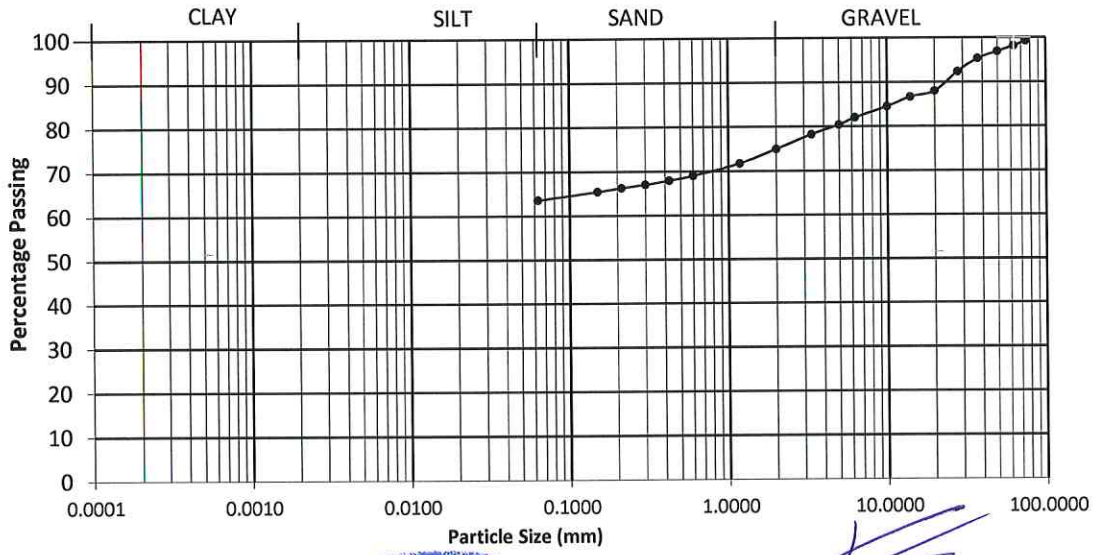
GEOTECHNICAL SERVICES LIMITED

-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0251
Location:	Henrietta	**Client Reference:**	TP 8
Date of Request:	20/Feb/19	**Depth (m):**	0.30 - 1.10
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-14-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	631.0	0.8	99.2
63	878.0	1.1	98.2
50	1032.0	1.3	96.9
37.5	1313.0	1.6	95.3
28	2400.0	2.9	92.4
20	3603.0	4.4	88.0
14	1083.8	1.3	86.7
10	1766.8	2.2	84.5
6.3	2034.8	2.5	82.0
5	1346.7	1.6	80.4
3.35	1753.0	2.1	78.2
2	2693.3	3.3	75.0
1.18	2647.1	3.2	71.7
0.6	2260.9	2.8	69.0
0.425	852.9	1.0	67.9
0.3	756.3	0.9	67.0
0.212	608.5	0.7	66.3
0.15	690.9	0.8	65.4
0.063	1520.7	1.9	63.6

Laboratory Technician

GEOTECHNICAL SERVICES LTD

for Dr Emilio Saldivar
General Manager

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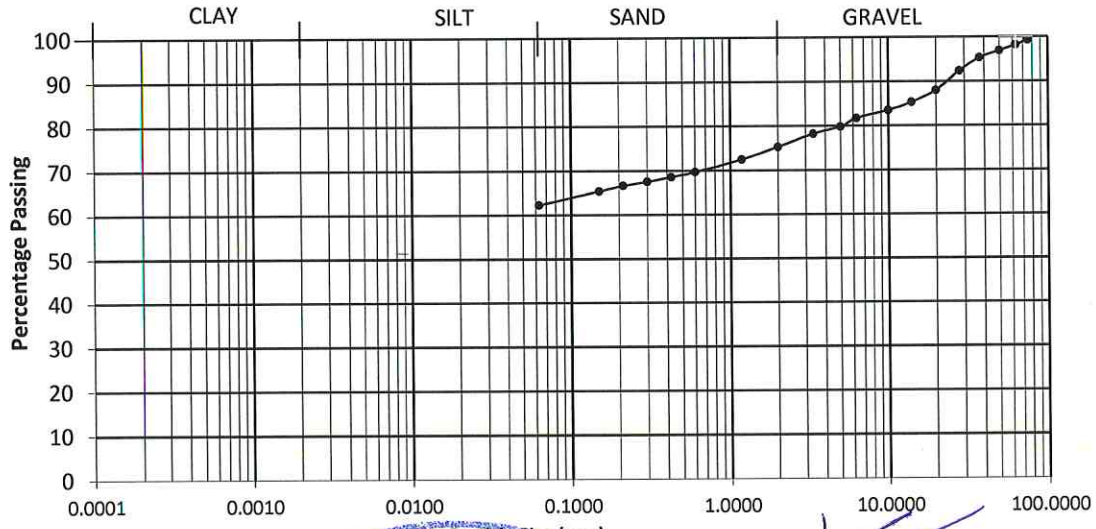
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0252
Location:	Henrietta	**Client Reference:**	TP 8
Date of Request:	20/Feb/19	**Depth (m):**	1.10 - 3.20
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-15-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	631.0	0.8	99.2
63	878.0	1.1	98.2
50	1032.0	1.3	96.9
37.5	1315.0	1.6	95.3
28	2400.0	2.9	92.4
20	3603.0	4.4	88.0
14	2204.8	2.7	85.3
10	1476.9	1.8	83.5
6.3	1443.8	1.8	81.7
5	1571.1	1.9	79.8
3.35	1293.1	1.6	78.2
2	2432.2	3.0	75.3
1.18	2308.3	2.8	72.4
0.6	2292.7	2.8	69.6
0.425	895.4	1.1	68.6
0.3	851.7	1.0	67.5
0.212	743.4	0.9	66.6
0.15	1018.3	1.2	65.4
0.063	2566.5	3.1	62.2

R. B.
Laboratory Technician

GEOTECHNICAL SERVICES LTD

for S. MARTIAL
Dr Emilio Saldivar
General Manager

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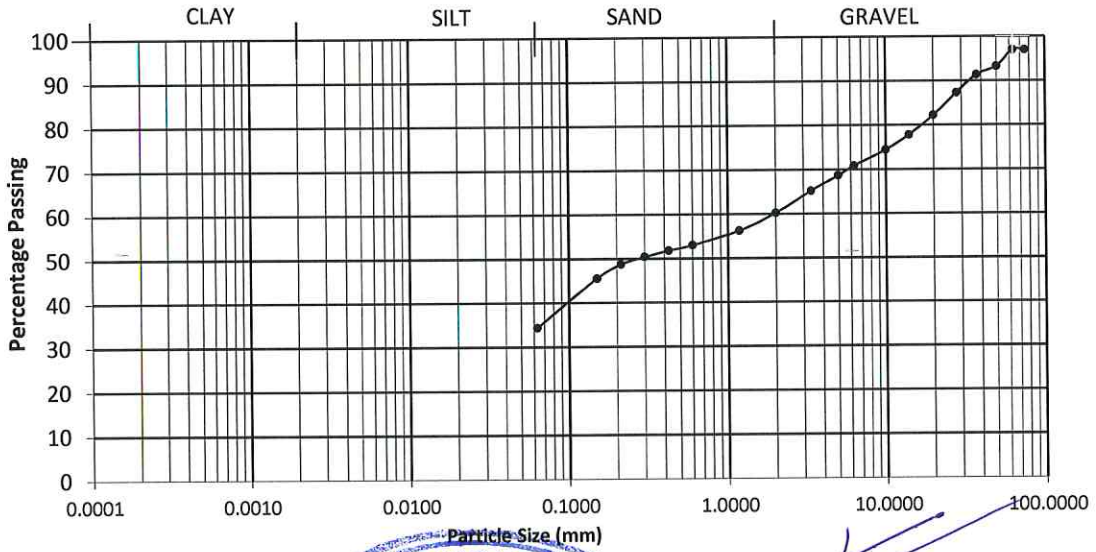
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0253
Location:	Henrietta	**Client Reference:**	TP 9
Date of Request:	20/Feb/19	**Depth (m):**	0.20 - 3.00
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-16-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	1970.0	3.0	97.0
63	0.0	0.0	97.0
50	2424.0	3.7	93.3
37.5	1245.5	1.9	91.3
28	2648.5	4.1	87.3
20	3319.0	5.1	82.2
14	2879.7	4.4	77.8
10	2188.2	3.4	74.4
6.3	2344.0	3.6	70.8
5	1425.8	2.2	68.6
3.35	2256.4	3.5	65.2
2	3227.1	5.0	60.2
1.18	2604.9	4.0	56.2
0.6	2094.1	3.2	53.0
0.425	779.7	1.2	51.8
0.3	922.9	1.4	50.4
0.212	1112.3	1.7	48.7
0.15	2040.0	3.1	45.6
0.063	7283.2	11.2	34.4

R.K

Laboratory Technician

GEOTECHNICAL SERVICES LTD

for S. MARTIAL

Dr Emilio Saldivar
General Manager

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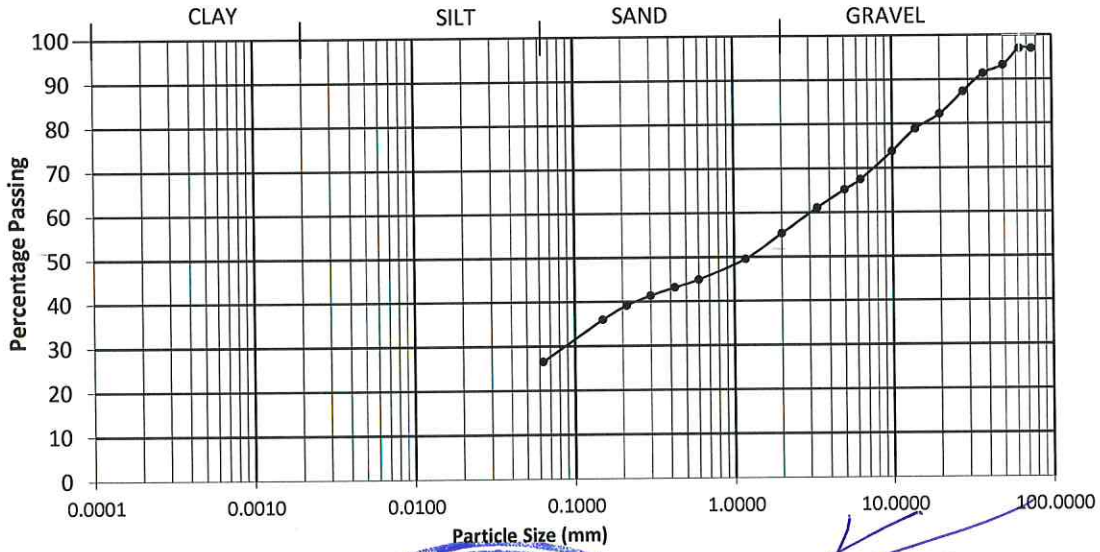
-TEST REPORT-
PARTICLE SIZE DISTRIBUTION (WET SIEVING)

Client:	Water Research Co.Ltd	**Sample Type**	Large Bag
Project:	G.I at Proposed Henrietta PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0254
Location:	Henrietta	**Client Reference:**	TP 9
Date of Request:	20/Feb/19	**Depth (m):**	1.20 - 3.00
Test Method:	In accordance with BS 1377-2: 1990 9.2/9.3/9.5		
Test Start Date:	8/Mar/19		
Report Date:	1/Apr/19		
Test Report No:	GETS-2019-029-17-PSD		



RESULTS

Sieve Size mm	Mass Retained, g	% Retained	Cum. % Passing
75	1970.0	3.0	97.0
63	0.0	0.0	97.0
50	2424.0	3.7	93.3
37.5	1245.5	1.9	91.3
28	2648.5	4.1	87.3
20	3319.0	5.1	82.2
14	2193.7	3.4	78.8
10	3290.8	5.0	73.8
6.3	4119.8	6.3	67.5
5	1497.2	2.3	65.2
3.35	2654.0	4.1	61.1
2	3776.1	5.8	55.3
1.18	3741.3	5.7	49.6
0.6	3010.1	4.6	44.9
0.425	1141.2	1.8	43.2
0.3	1193.3	1.8	41.4
0.212	1427.8	2.2	39.2
0.15	2075.6	3.2	36.0
0.063	6152.2	9.4	26.5

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Laboratory Technician

Dr Emilio Saldivar
General Manager

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GEOTECHNICAL SERVICES LIMITED

TEST REPORT

TRIAXIAL TEST

Client:	Water Research Co.Ltd	**Sample Type:**	Undisturbed U2 sample
Project:	G.I for PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0342
Location:	Henrietta	**Client Reference:**	BH 1
Date of Request:	15/Apr/19	**Depth (m):**	3.50 -4.00
Test Method:	BS 1377-7: 1990 Clause 8		
Sample preparation:	As per British Standard		
Test Start Date:	15/Apr/19		
Report Date:	30-Apr		
Test Report No:	GETS2019-045-01		

Rate of axial strain : 0.5 mm/min
Membrane thickness : 0.2mm

Initial Specimen	**1st sample**	**2nd sample**	**3rd sample**
Length, L_0 / mm	40	40	40
Diameter, D_0 / mm	80	80	80
Area, A_0 /mm^2	1256.8	1256.8	1256.8
Volume, V_0 / cm^3	100.544	100.544	100.544
Mass, M_0 / g	236.79	248.7	241.69
Moisture content, W_0 :	***1***	***2***	***3***
Before test / %	62.92	70.96	70.96
After test / %	61.92	70.87	71.50
Dry mass, m_d / g	145.73	145.89	141.78
Density, ρ / Mgm^{-3}	2.36	2.47	2.40
Dry density, ρd / Mgm^{-3}	1.45	1.45	1.41
Degree of saturation, *Sr*	1.84	2.08	1.97
Cell pressue, Kpa	**50**	**100**	**200**
Maximun deviator stress (σ_1 - σ_3), kPa	49	27	103
Strain, %	11.1	15.1	18.1

Shear strength	
s_u, kPa	29.83

Soil Description :	Soft dark brown to brown slightly gravelly clayey SILT. Gravels are subangular to subrounded, of length ≤ 25 mm. COMPLETELY WEATHERED BASALT.

GEOTECHNICAL SERVICES LTD

Emilio Saldivar
General Manager

Ruwaydah Kurrimboccus
Laboratory Technician

Mode of Failure

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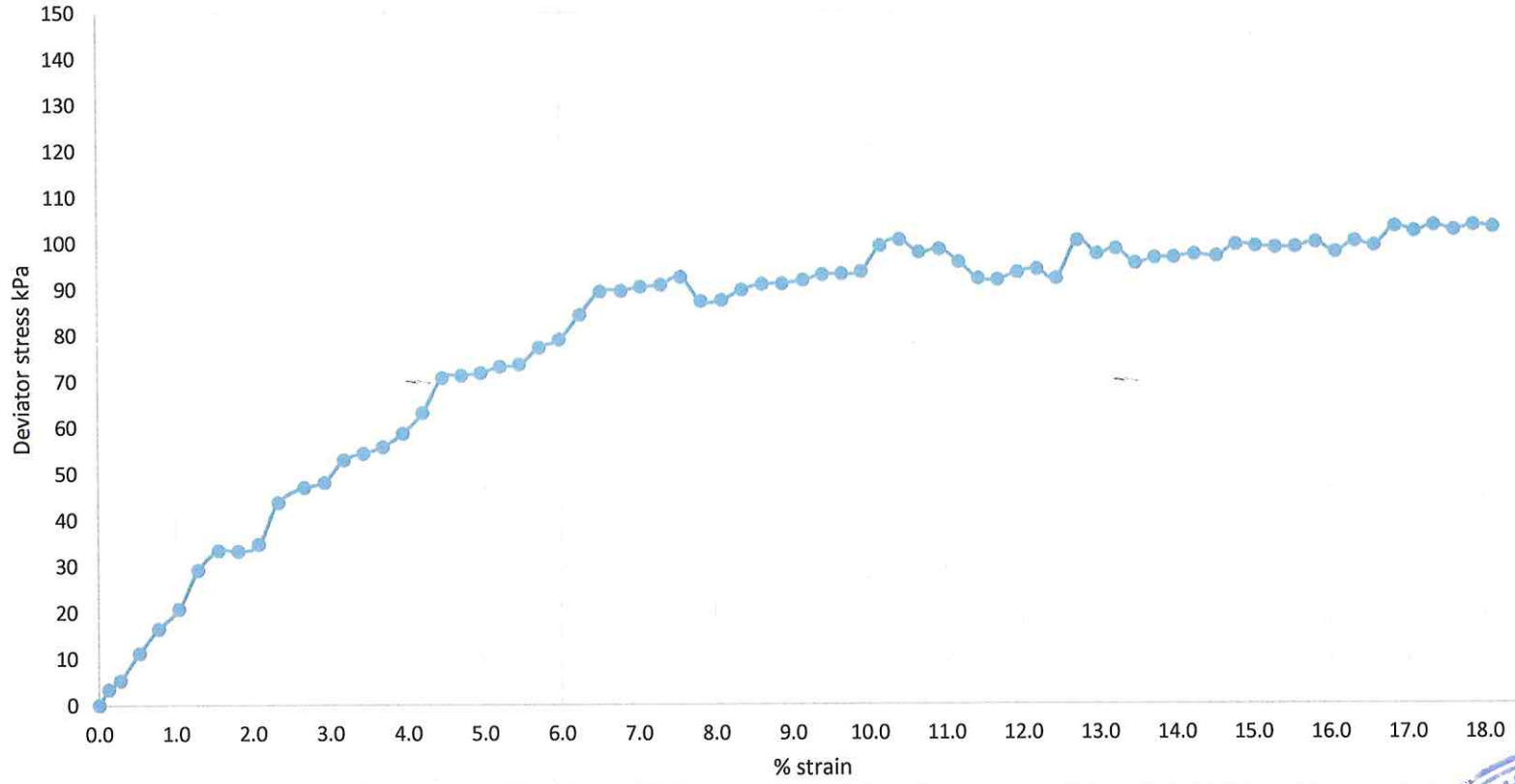
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0342
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 1
Location:	Henrietta	**Depth (Meters):**	3.50 -4.00

Deviator stress against % strain

Cell pressure 200kPa



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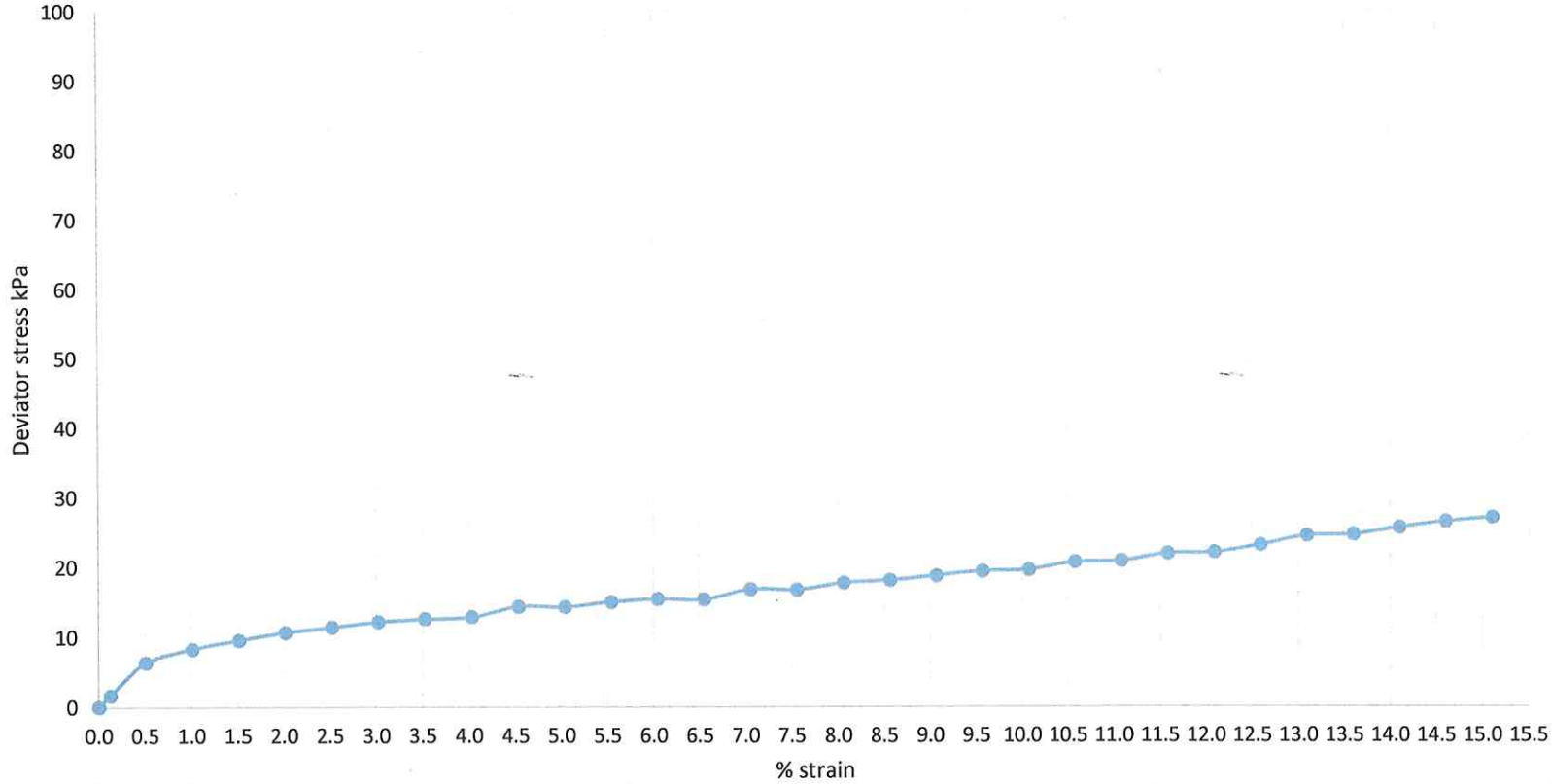
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0342
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 1
Location:	Henrietta	**Depth (Meters):**	3.50 -4.00

Deviator stress against % strain
Cell pressure 100kPa



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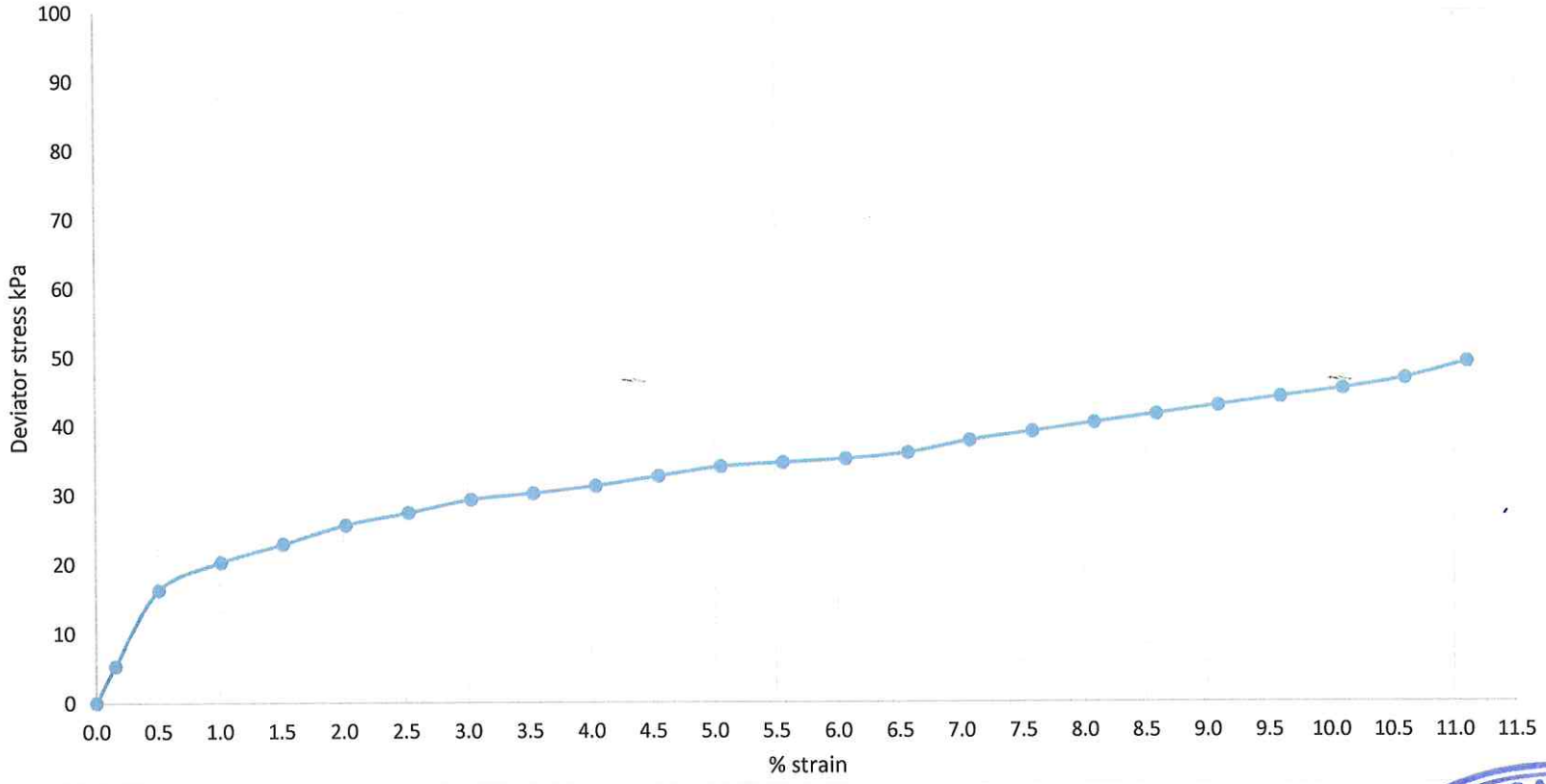
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0342
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 1
Location:	Henrietta	**Depth (Meters):**	3.50 -4.00

Deviator stress against % strain

Cell pressure 50kPa



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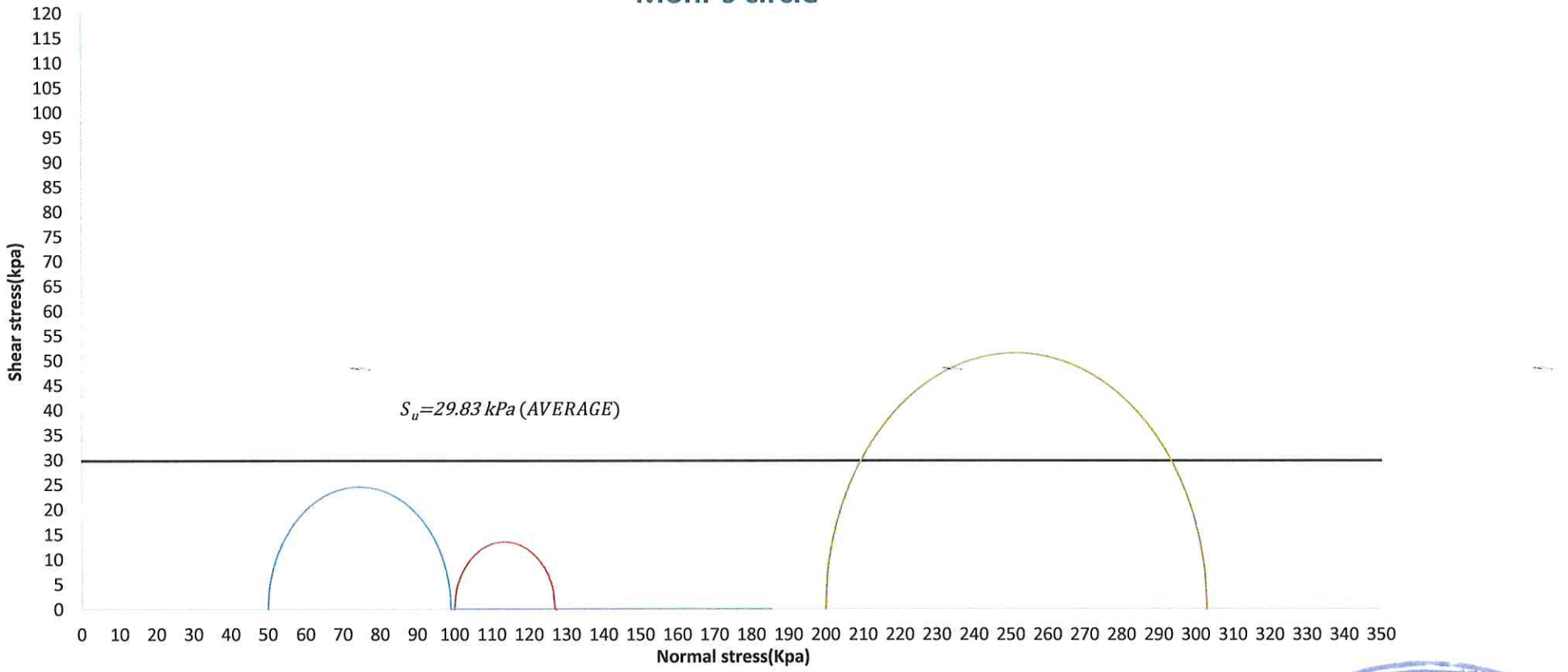
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0342
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 1
Location:	Henrietta	**Depth (Meters):**	3.50 -4.00

Mohr's circle



-End of Report-

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GEOTECHNICAL SERVICES LIMITED

TEST REPORT
TRIAXIAL TEST

Client:	Water Research Co.Ltd	**Sample Type:**	Undisturbed U2 sample
Project:	G.I for PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0343
Location:	Henrietta	**Client Reference:**	BH 3
Date of Request:	15/Apr/19	**Depth (m):**	4.00 - 4.50
Test Method:	BS 1377-7: 1990 Clause 8		
Sample preparation:	As per British Standard		
Test Start Date:	15/Apr/19	**Rate of axial strain : 0.5 mm/min**	
Report Date:	30-Apr	**Membrane thickness : 0.2mm**	
Test Report No:	GETS2019-045-02		

Initial Specimen	**1st sample**	**2nd sample**	**3rd sample**
Length, L_0 / mm	80		80
Diameter, D_0 / mm	40		40
Area, A_0 /mm^2	1256.8		1256.8
Volume, V_0 / cm^3	100.54		100.54
Mass, M_0 / g	235.1		282.47
Moisture content, W_0 :	***1***	***2***	***3***
Before test / %	42.97		45.60
After test / %	42.48		45.48
Dry mass, m_d / g	164.75		194.32
Density, ρ / Mgm^{-3}	2.34		2.81
Dry density, ρd / Mgm^{-3}	1.64		1.93
Degree of saturation, *Sr*	1.65		2.72
Cell pressue, Kpa	**50**	**100**	**200**
Maximun deviator stress (σ_1 - σ_3), kPa	63.3		204.4
Strain, %	9.1		8.6

Shear strength	
s_u, kPa	66.93

Note: The second sample broke upon extrusion. The first sample broke after the test while handling.

Soil Description :	Firm dark brown to brown clayey SILT . Gravel is frequent, fine to medium, angular to subangular, COMPLETELY WEATHRED BASALT. COMPLETELY WEATHERED BASALT.

GEOTECHNICAL SERVICES LTD.

Emilio Saldivar
General Manager

Ruwaydah Kurrimboccus
Laboratory Technician

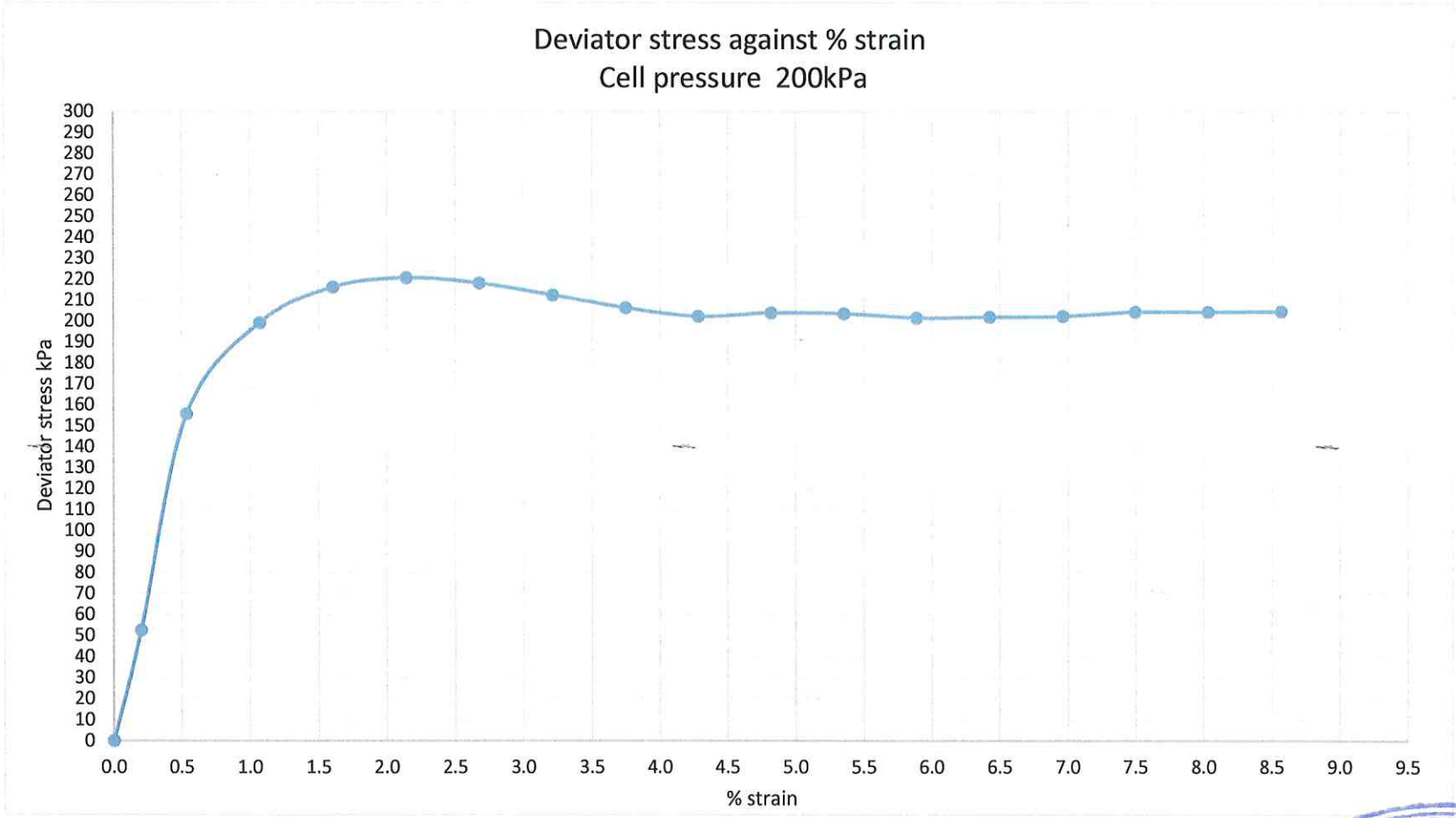
Mode of Failure :

Disturbed while extruding:

Mode of Failure :

GEOTECHNICAL SERVICES LTD

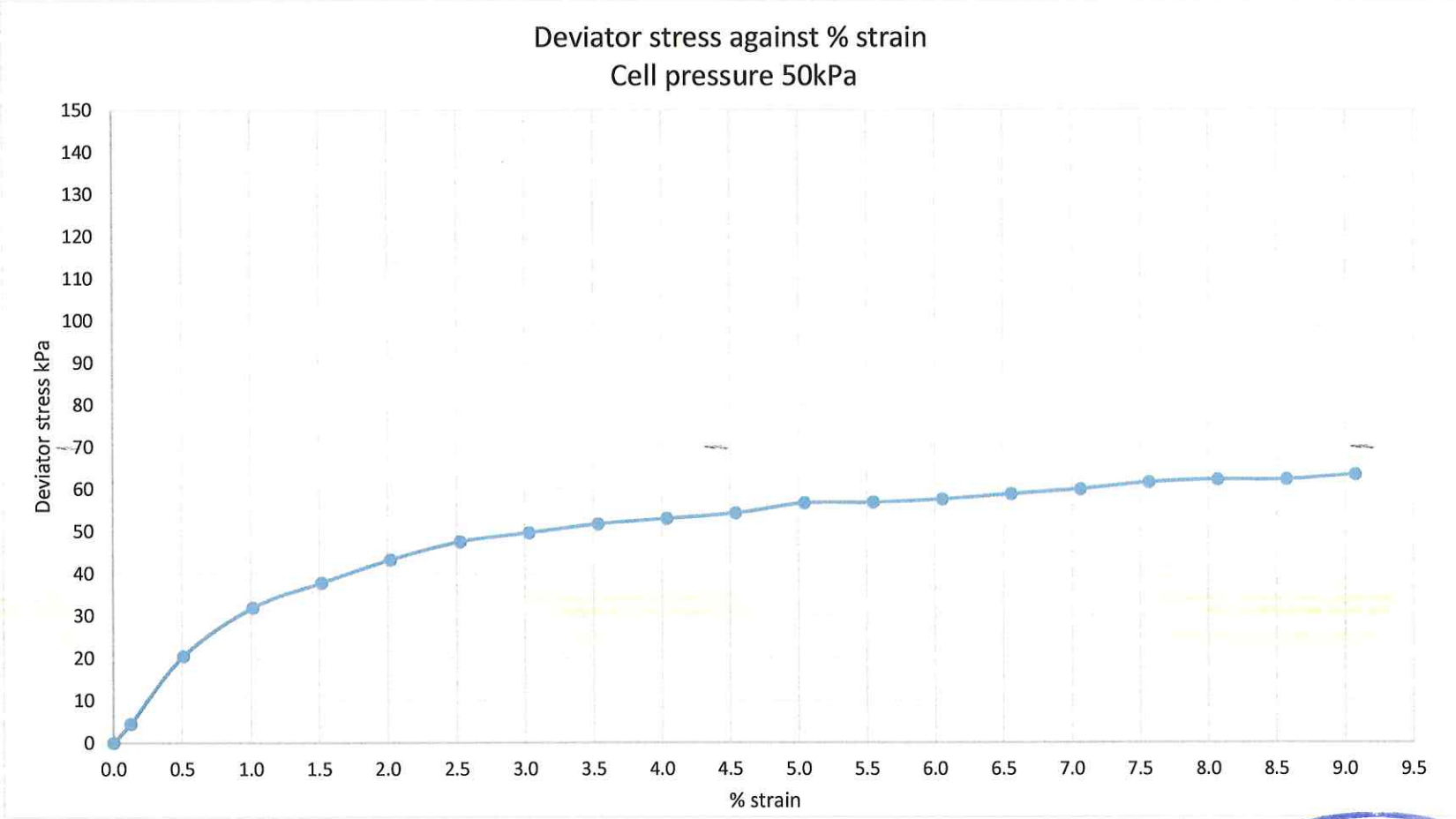
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0343
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 3
Location:	Henrietta	**Depth (Meters):**	4.00 - 4.50



GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0343
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 3
Location:	Henrietta	**Depth (Meters):**	4.00 - 4.50



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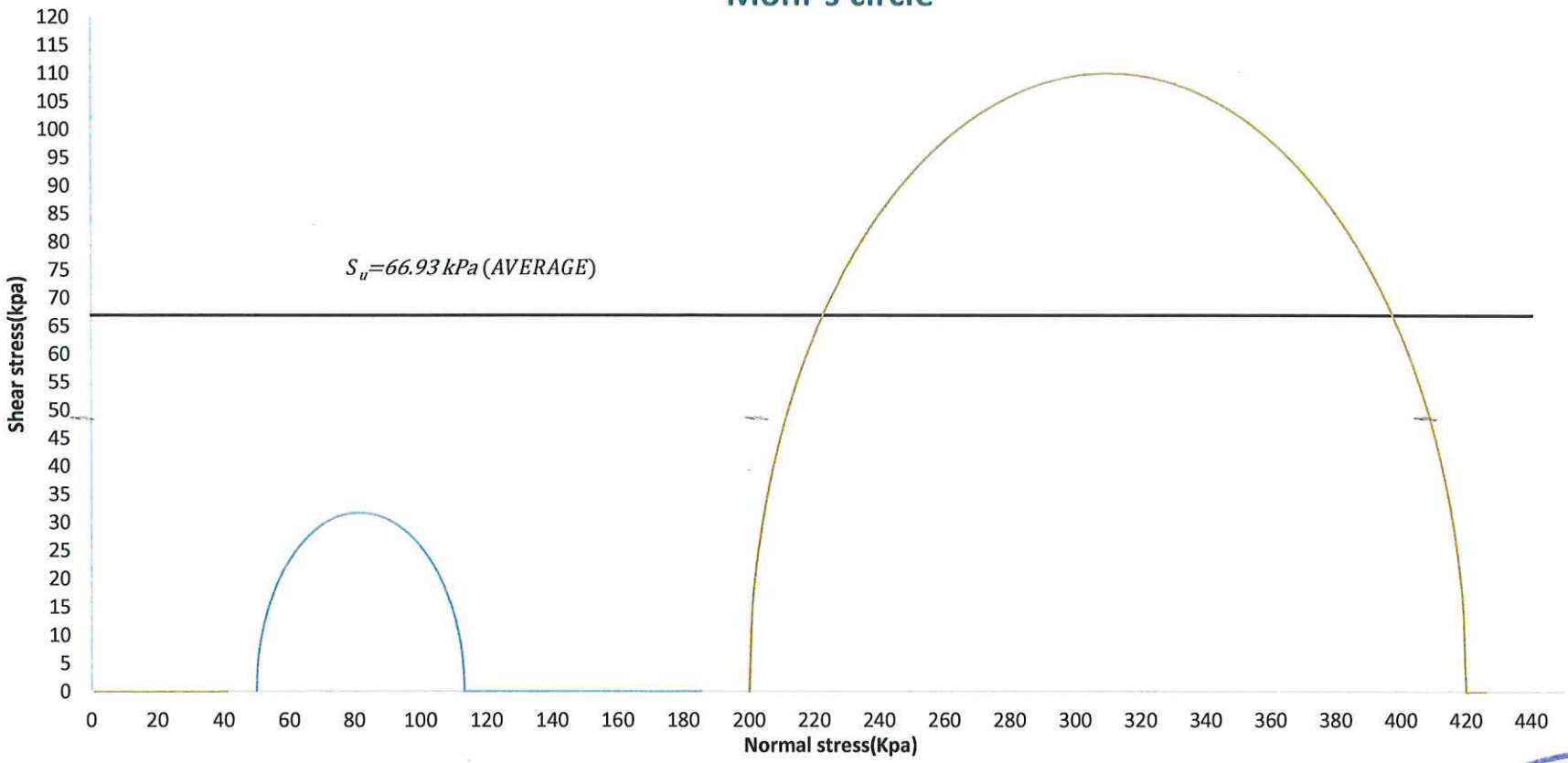
GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0343
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 3
Location:	Henrietta	**Depth (Meters):**	4.00 - 4.50

Mohr's circle



-End of Report-

GEOTECHNICAL SERVICES LTD.

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GEOTECHNICAL SERVICES LIMITED

TEST REPORT
TRIAXIAL TEST

Client:	Water Research Co.Ltd	**Sample Type:**	Undisturbed U2 sample
Project:	G.I for PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0344
Location:	Henrietta	**Client Reference:**	BH 6
Date of Request:	15/Apr/19	**Depth (m):**	16.50 - 17.00
Test Method:	BS 1377-7: 1990 Clause 8		
Sample preparation:	As per British Standard		
Test Start Date:	15/Apr/19	**Rate of axial strain : 0.5 mm/min**	
Report Date:	30-Apr	**Membrane thickness : 0.2mm**	
Test Report No:	GETS2019-045-03		

Initial Specimen	**1st sample**	**2nd sample**	**3rd sample**
Length, L_0 / mm	80	80	75
Diameter, D_0 / mm	40	40	85
Area, A_0 /mm^2	1256.80	1256.80	962.24
Volume, V_0 / cm^3	100.54	100.54	72.17
Mass, M_0 / g	209.53	217.12	172.43
Moisture content, W_0 :	***1***	***2***	***3***
Before test / %	57.75	63.73	64.40
After test / %	59.70	62.52	63.73
Dry mass, m_d / g	133.19	133.00	105.27
Density, ρ / Mgm^{-3}	2.08	2.16	2.39
Dry density, ρd / Mgm^{-3}	1.32	1.32	1.45
Degree of saturation, *Sr*	1.42	1.56	1.91
Cell pressue, Kpa	**50**	**100**	**200**
Maximun deviator stress (σ_1-σ_3), kPa	50.7	90.9	113.2
Strain, %	5	3	11.1

Shear strength	
s_u, kPa	42.47

Note: Sample 3 was only 75 mm in length due to poor sample recovery from the U2 tube.

Soil Description :	Firm dark brown silty CLAY. COMPLETELY WEATHERED BASALT.

Mode of Failure

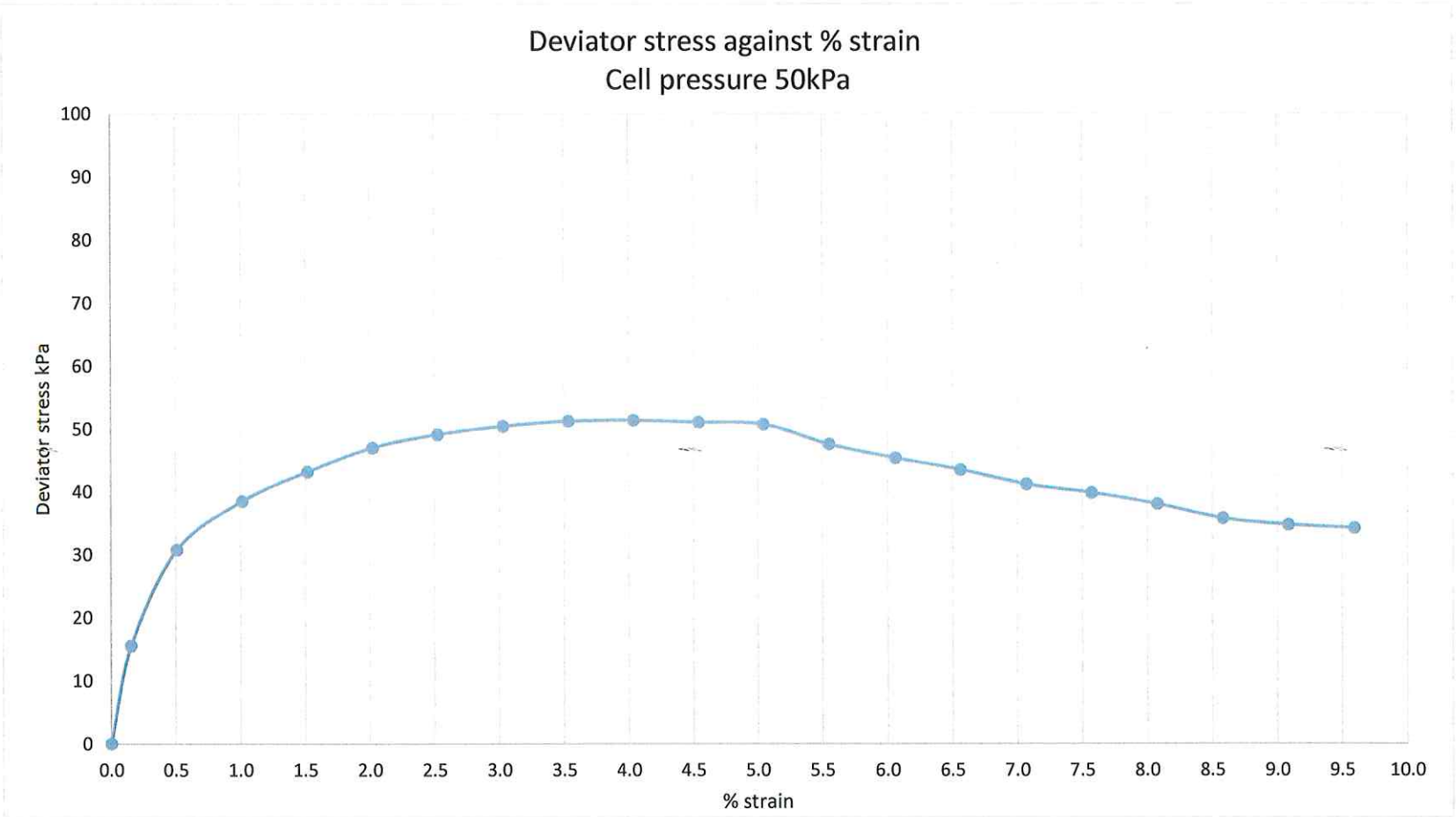
GEOTECHNICAL SERVICES LTD

Emilio Saldivar
General Manager

Ruwaydah Kurrimboccus
Laboratory Technician

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0344
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 6
Location:	Henrietta	**Depth (Meters):**	16.50 - 17.00



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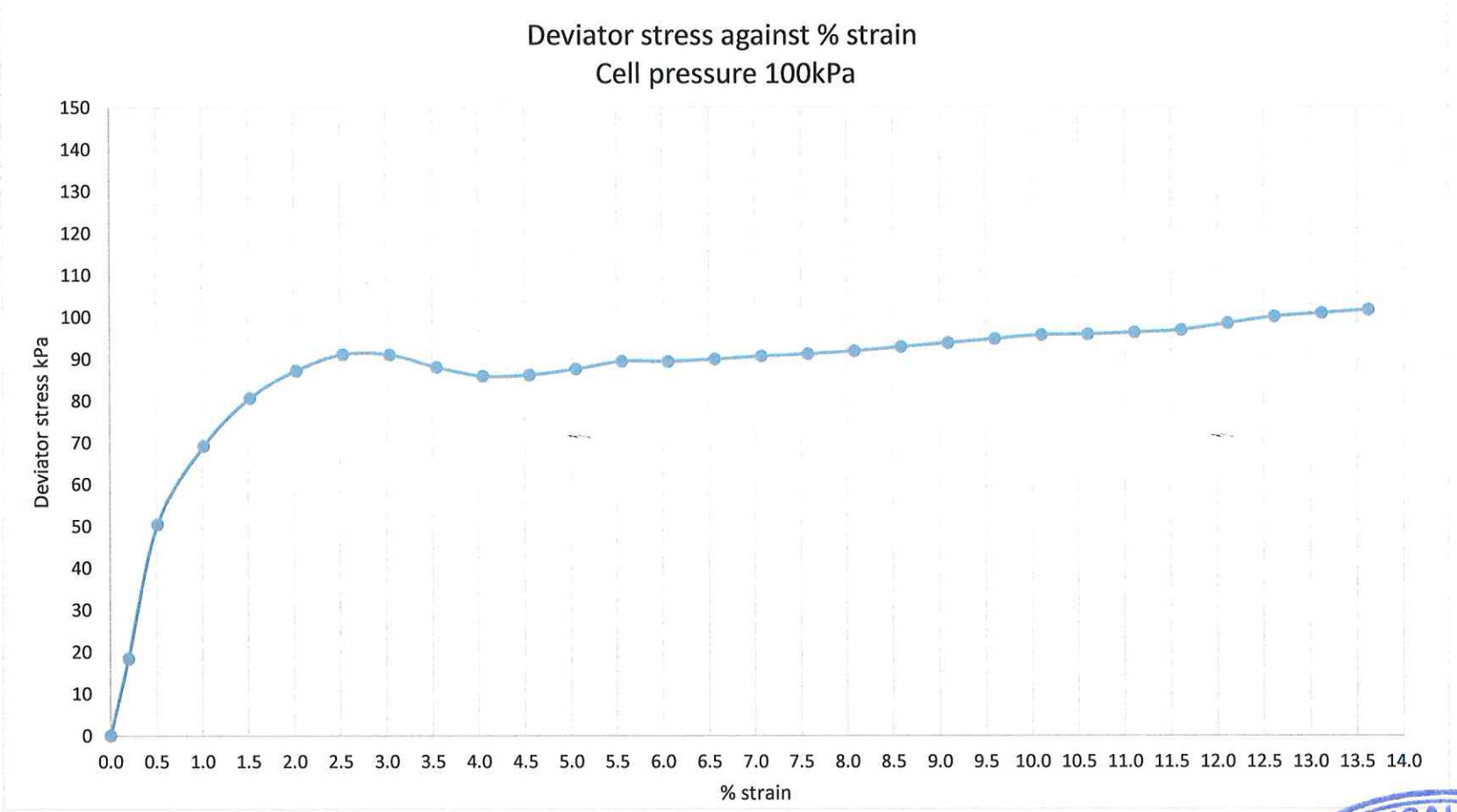
GEOTECHNICAL SERVICES LTD

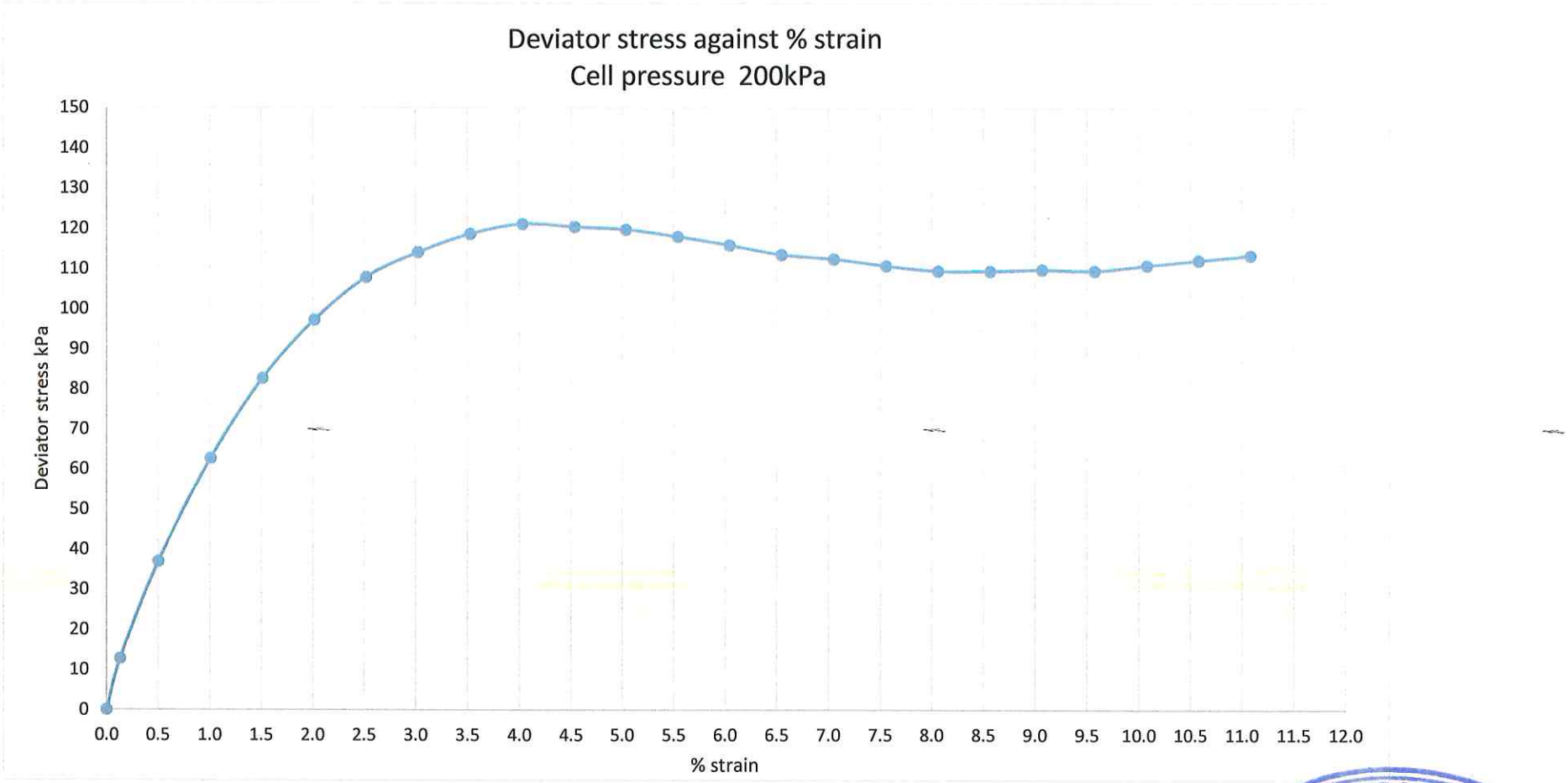
Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0344
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 6
Location:	Henrietta	**Depth (Meters):**	16.50 - 17.00



GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0344
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 6
Location:	Henrietta	**Depth (Meters):**	16.50 - 17.00

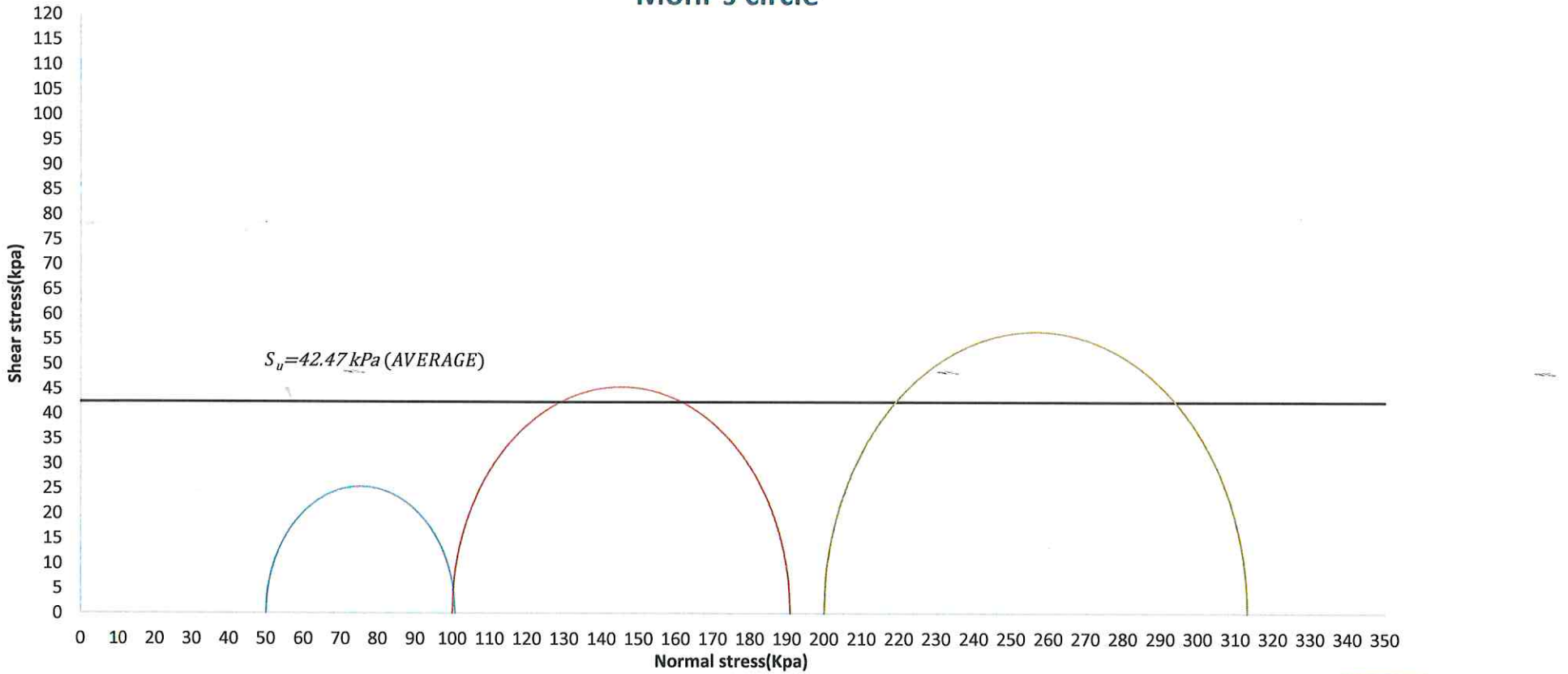


GEOTECHNICAL SERVICES LTD

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0344
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 6
Location:	Henrietta	**Depth (Meters):**	16.50 - 17.00

Mohr's circle



-End of Report-

GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LIMITED

TEST REPORT
TRIAXIAL TEST

Client:	Water Research Co.Ltd	**Sample Type:**	Undisturbed U2 sample
Project:	G.I for PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0345
Location:	Henrietta	**Client Reference:**	BH 7
Date of Request:	15/Apr/19	**Depth (m):**	8.00 - 8.50
Test Method:	BS 1377-7: 1990 Clause 8		
Sample preparation:	As per British Standard		
Test Start Date:	15/Apr/19	**Rate of axial strain : 0.5 mm/min**	
Report Date:	30-Apr	**Membrane thickness : 0.2mm**	
Test Report No:	GETS2019-045-04		

Initial Specimen	**1st sample**	**2nd sample**	**3rd sample**
Length, L_0 / mm	80	80	
Diameter, D_0 / mm	40	40	
Area, A_0 /mm^2	1256.8	1256.8	
Volume, V_0 / cm^3	100.54	100.54	
Mass, M_0 / g	230.73	202.69	
Moisture content, W_0 :	***1***	***2***	***3***
Before test / %	57.39	57.39	
After test / %	58.28	58.30	
Dry mass, m_d / g	146.96	129.15	
Density, ρ / Mgm^{-3}	2.29	2.02	
Dry density, ρd / Mgm^{-3}	1.46	1.28	
Degree of saturation, *Sr*	1.71	1.33	
Cell pressue, Kpa	**50**	**100**	**200**
Maximun deviator stress (σ_1 - σ_3), kPa	19.5	5.9	
Strain, %	8.1	6.2	

Shear strength	
s_u, kPa	6.35

Note : The third sample was not tested due to failure to the triaxial machine.

Soil Description :	Very soft dark brown to brown slightly gravelly Clayey SILT. Gravels are angular to sub angular COMPLETELY WEATHRED BASALT. COMPLETELY WEATHERED BASALT.

GEOTECHNICAL SERVICES LTD.

Emilio Saldivar
General Manager

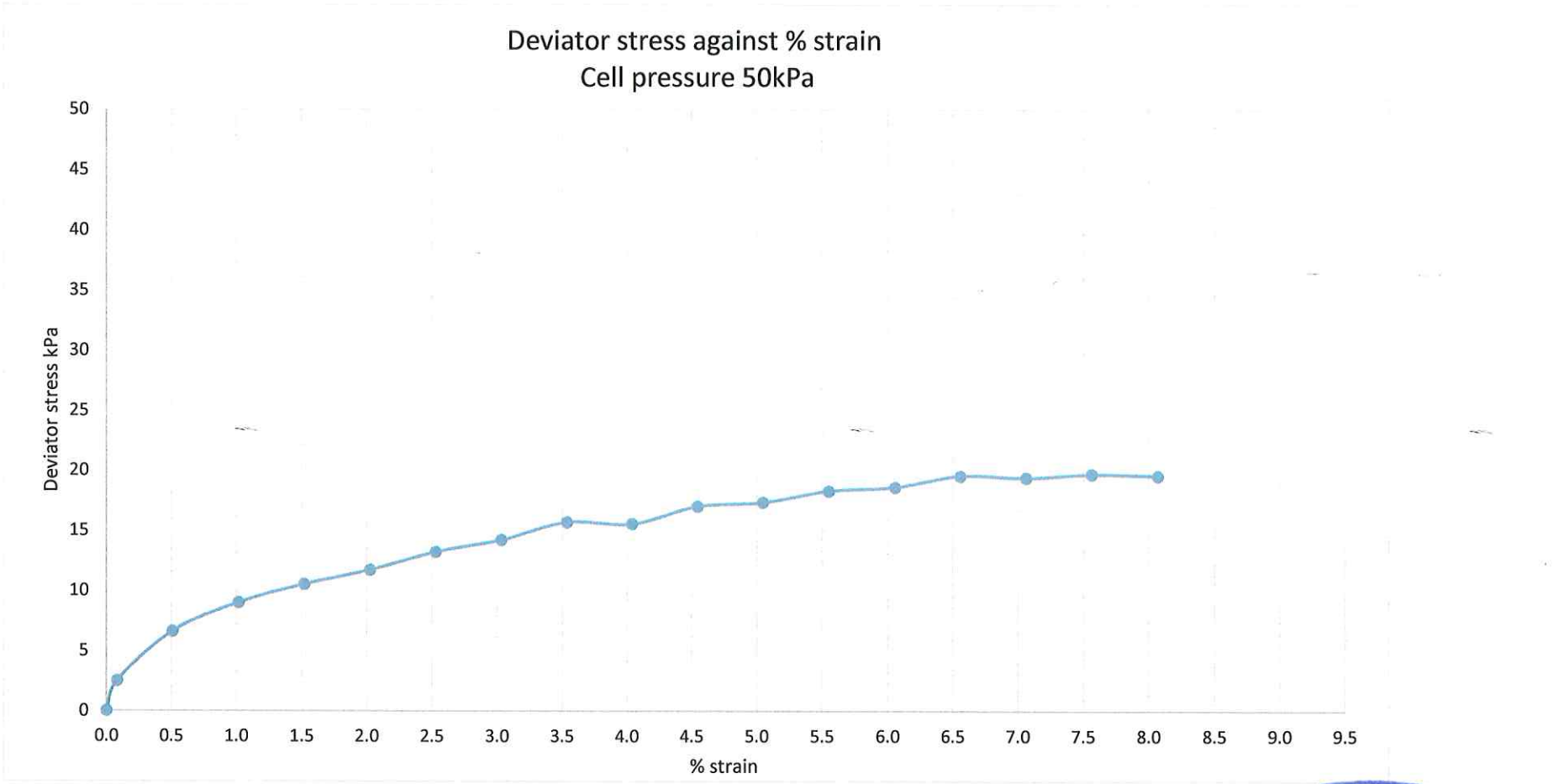
Ruwaydah Kurrimboccus
Laboratory Technician

Mode of Failure

Note: The results are produced to the best of our knowledge with the test method on the sample submitted by the Client. However the organisation bears no responsibility whatsoever for misinterpretation and misuse of the contents of the results. Results cannot be reproduced partially or fully without written permission from GETS Laboratory.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0345
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 7
Location:	Henrietta	**Depth (Meters):**	8.00 - 8.50



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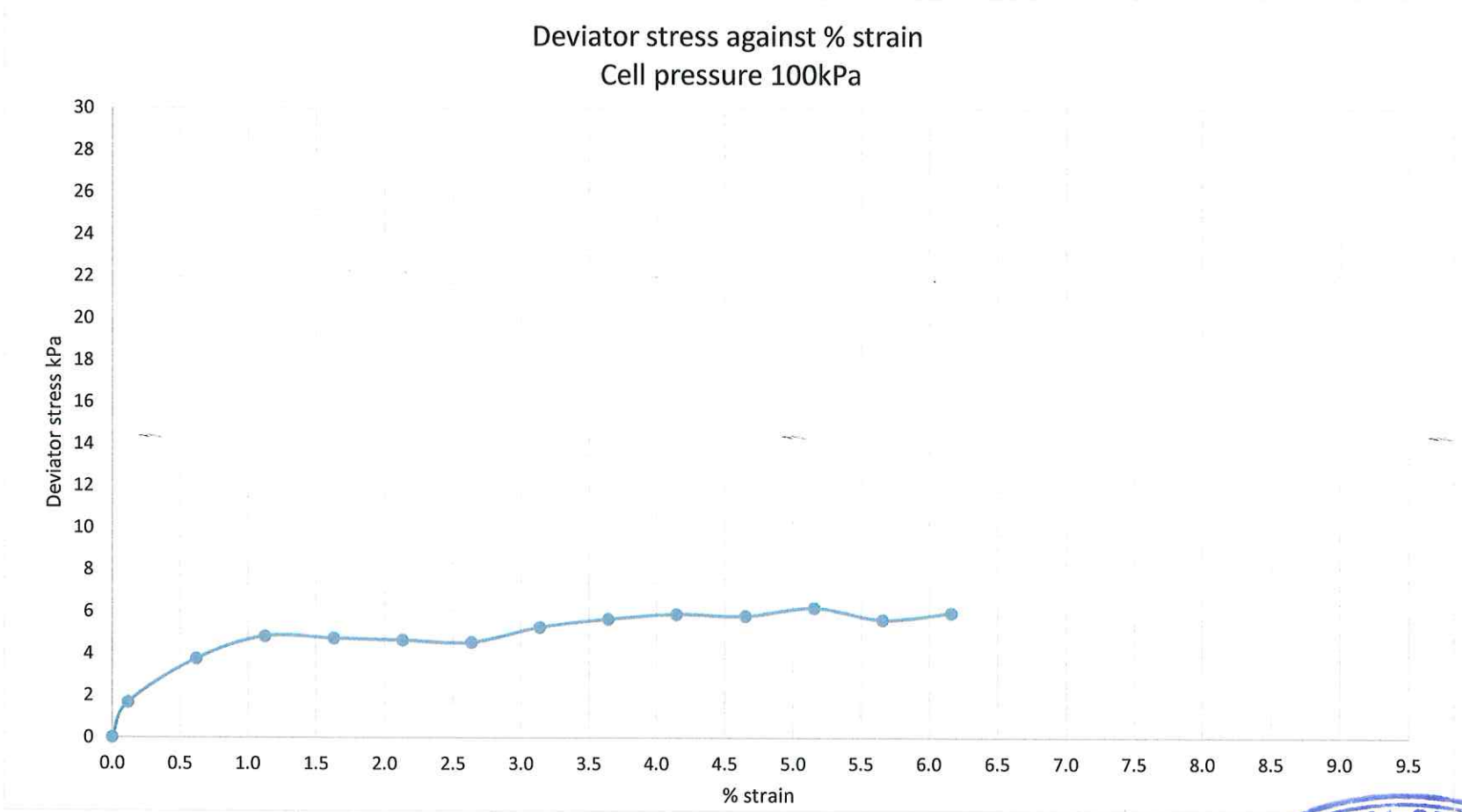
GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0345
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 7
Location:	Henrietta	**Depth (Meters):**	8.00 - 8.50



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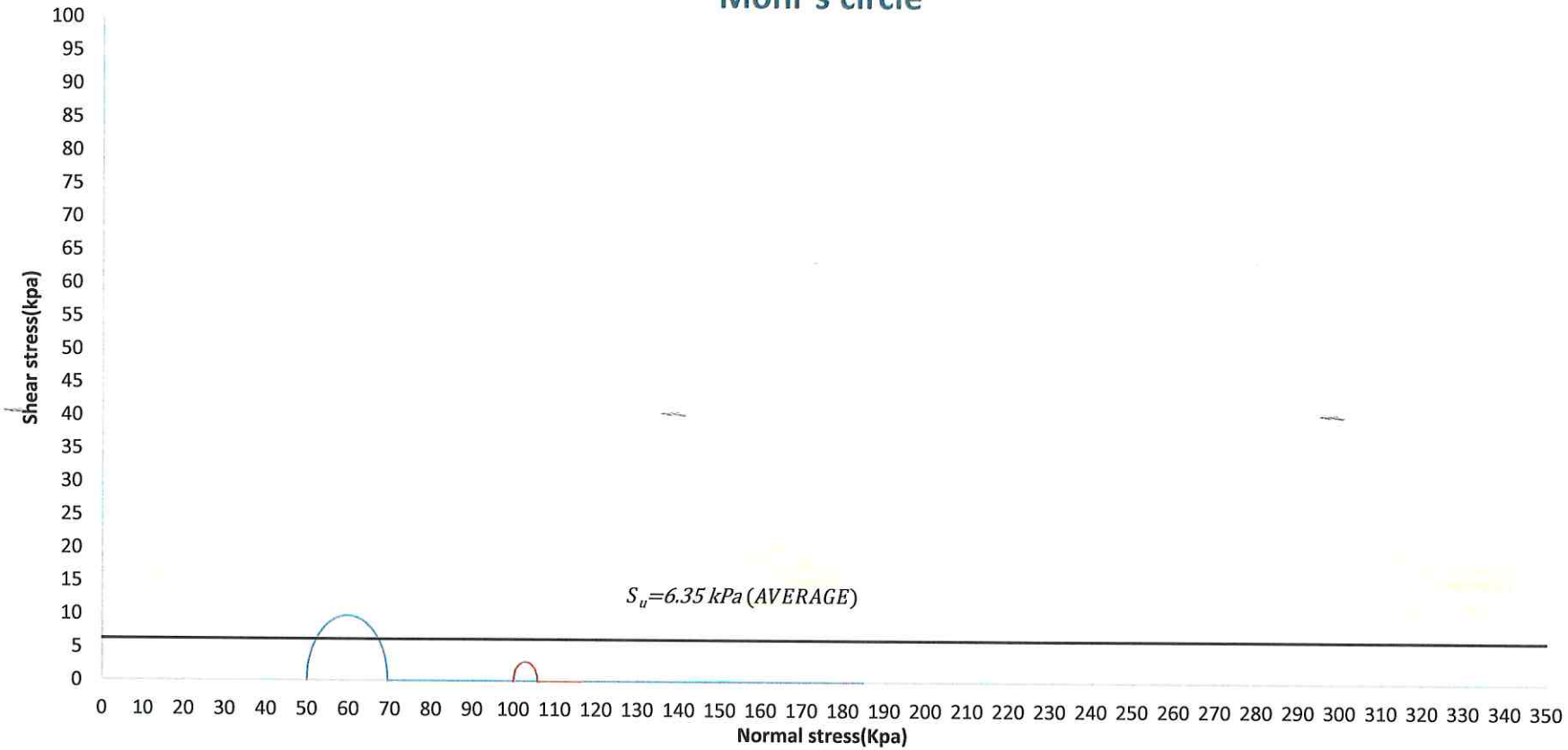
GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0345
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 7
Location:	Henrietta	**Depth (Meters):**	8.00 - 8.50

Mohr's circle



-End of Report-

GEOTECHNICAL SERVICES LTD.

GEOTECHNICAL SERVICES LIMITED

TEST REPORT
TRIAXIAL TEST

Client:	Water Research Co.Ltd	**Sample Type:**	Undisturbed U2 sample
Project:	G.I for PV Farm Phase 2	**Gets Sample Ref:**	CM/2019/0346
Location:	Henrietta	**Client Reference:**	BH 8
Date of Request:	15/Apr/19	**Depth (m):**	5.50 - 6.00
Test Method:	BS 1377-7: 1990 Clause 8		
Sample preparation:	As per British Standard		
Test Start Date:	15/Apr/19	**Rate of axial strain : 0.5 mm/min**	
Report Date:	30-Apr	**Membrane thickness : 0.2mm**	
Test Report No:	GETS2019-045-05		

Initial Specimen	**1st sample**	**2nd sample**	**3rd sample**
Length, L_0 / mm		80	80
Diameter, D_0 / mm		40	40
Area, A_0 /mm^2		1256.8	1256.8
Volume, V_0 / cm^3		100.54	100.54
Mass, M_0 / g		229.54	227.43
Moisture content, W_0 :	***1***	***2***	***3***
Before test / %		47.82	47.82
After test / %		48.02	44.74
Dry mass, m_d / g		155.61	154.18
Density, ρ / Mgm^{-3}		2.28	2.26
Dry density, ρd / Mgm^{-3}		1.54	1.53
Degree of saturation, *Sr*		1.61	1.58
Cell pressue, Kpa	**50**	**100**	**200**
Maximun deviator stress (σ_1-σ_3), kPa		30	28.1
Strain, %		7.6	8.1

Shear strength	
s_u, kPa	14.53

Note: (i) Only two samples were recovered from the U2 tube. (ii) Gravel of size 20mm was found in S2.

Soil Description :	Very soft dark brown to brown gravelly silty CLAY. Gravel is angular to sub angular, ≤ 20 mm, COMPLETELY WEATHERED BASALT. COMPLETELY WEAHERED BASALT.

GEOTECHNICAL SERVICES LTD.

Emilio Saldivar
General Manager

Ruwaydah Kurrimboccus
Laboratory Technician

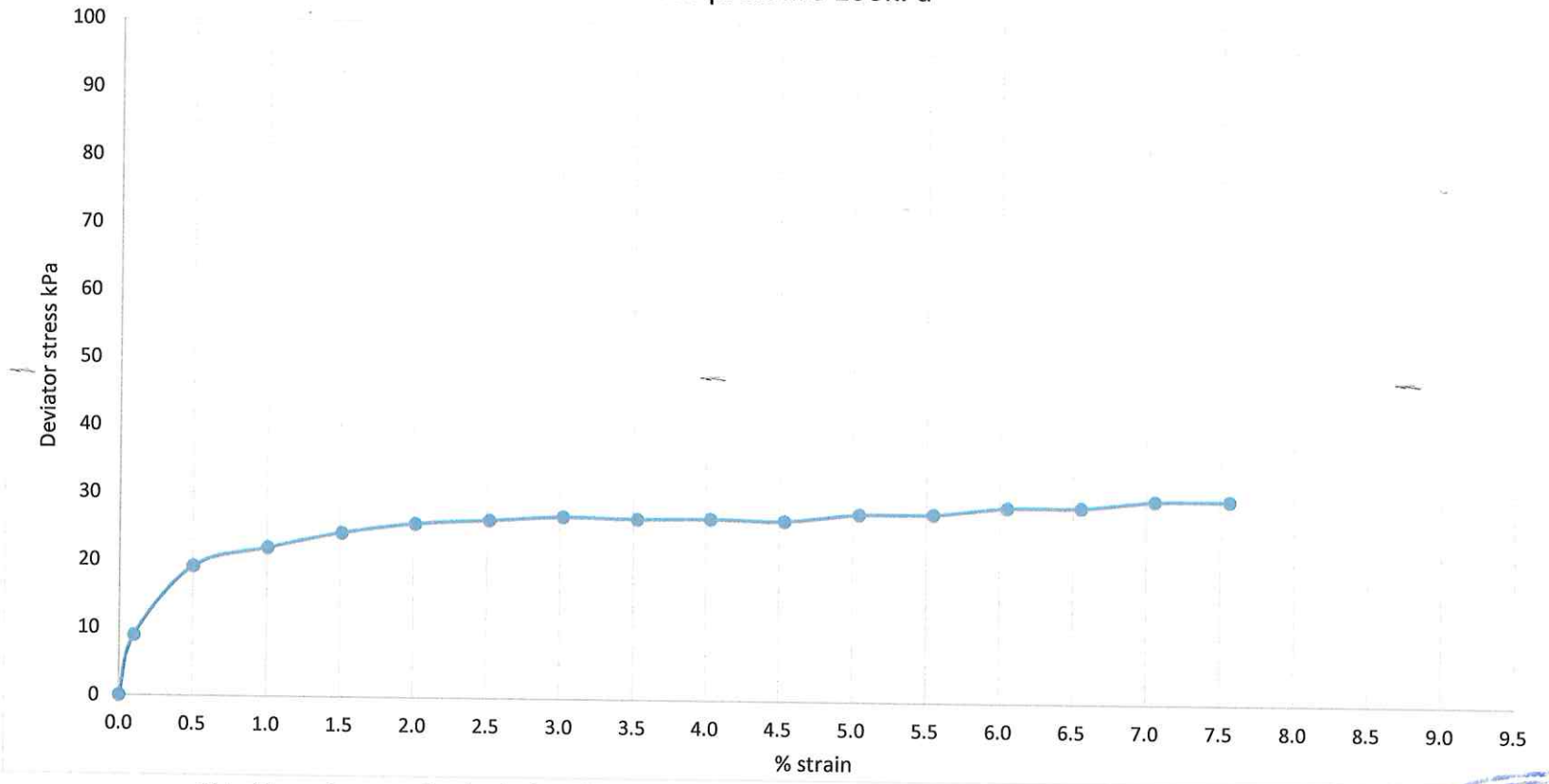
Mode of Failure

Note: The results are produced to the best of our knowledge with the test method on the sample submitted by the Client. However the organisation bears no responsibility whatsoever for misinterpretation and misuse of the contents of the results. Results cannot be reproduced partially or fully without written permission from GETS Laboratory.

GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0346
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 8
Location:	Henrietta	**Depth (Meters):**	5.50 - 6.00

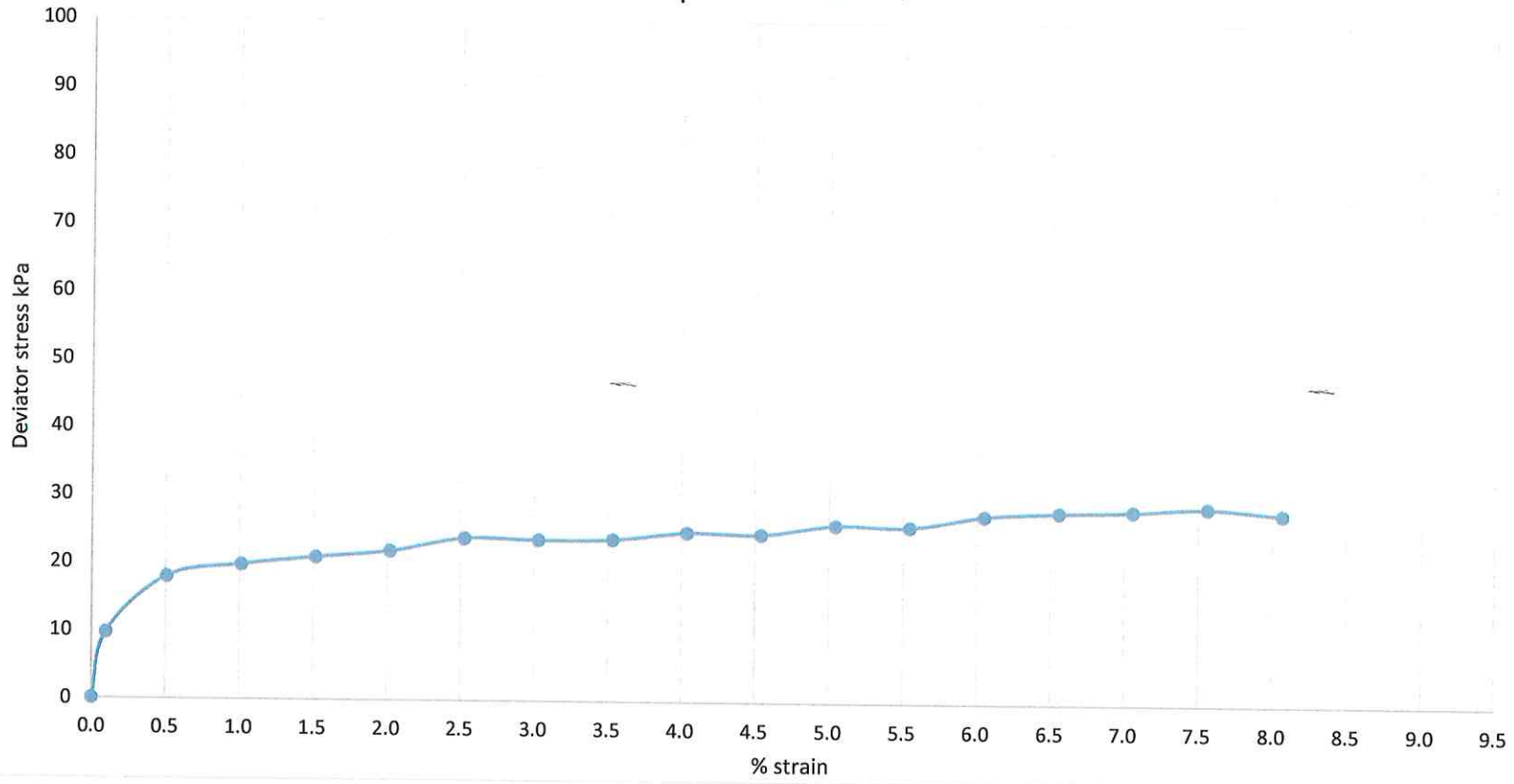
Deviator stress against % strain
Cell pressure 100kPa



GEOTECHNICAL SERVICES LTD

Client:	Water Research Co. Ltd	**GETS Sample No:**	CM/2019/0346
Project:	G.I for PV Farm Phase 2	**Client Sample No:**	BH 8
Location:	Henrietta	**Depth (Meters):**	5.50 - 6.00

Deviator stress against % strain
Cell pressure 200kPa



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