

hoil Office



SO-Consolidation

Current samples are in "Metric" units.

SO-consolidation also supports
“English [ksf]” and “English [psi]” units.

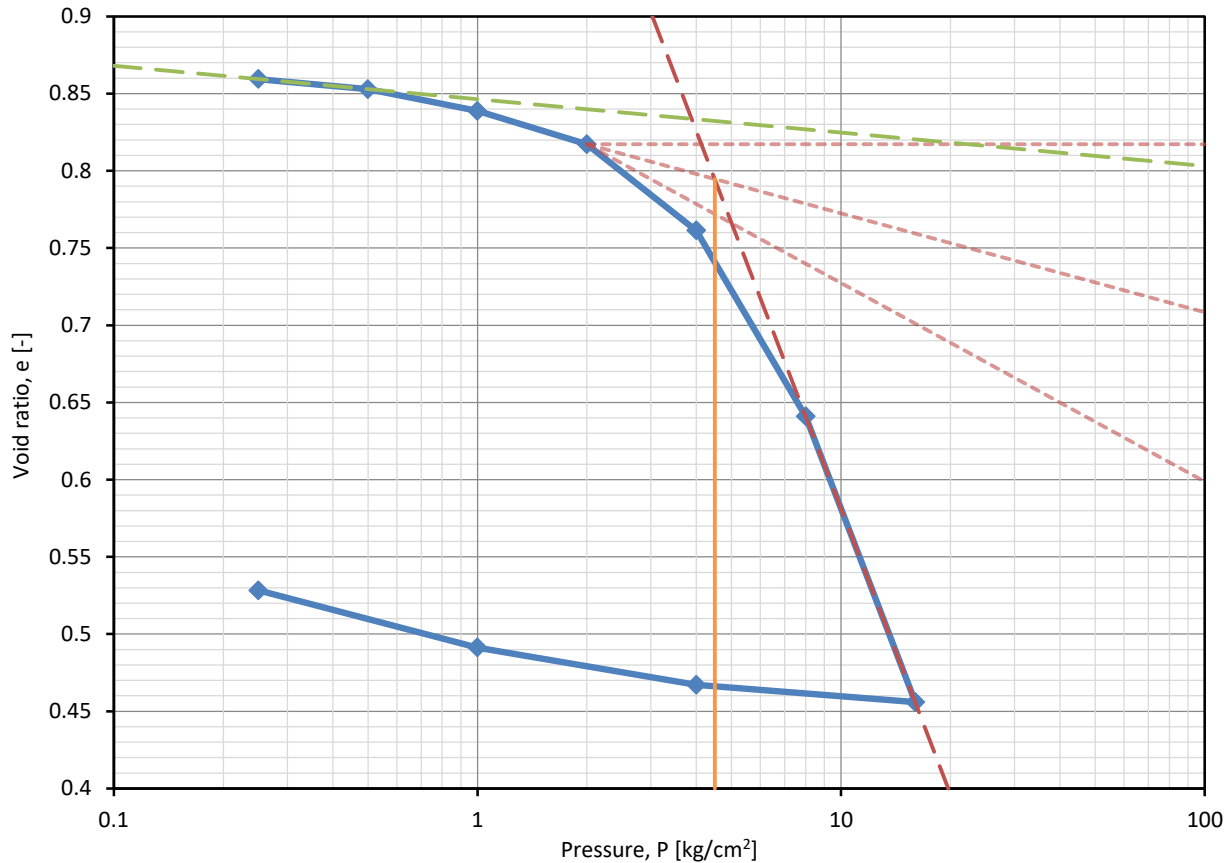
Whole Test

Portrait

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 3.0 [m]
Location: Location	USCS: CH
Proj. No.: Project code	Sample: Remolded

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.48	17.7	0.892	55.6
End	2.80	72.3	23.7481	1.83	17.6	0.528	93.1



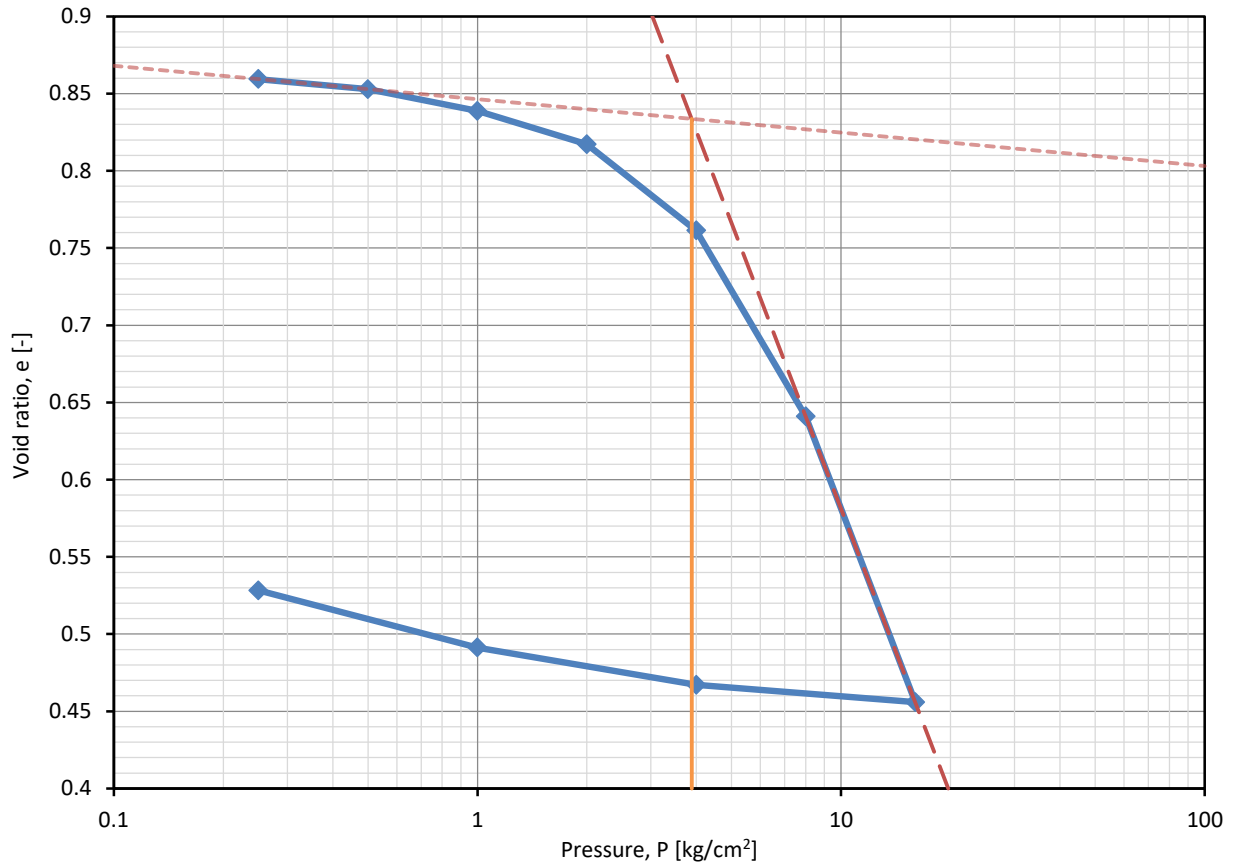
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.25	0.892	0.859	0.0861
2	0.25	0.50	0.859	0.853	0.0138
3	0.50	1.00	0.853	0.839	0.0148
4	1.00	2.00	0.839	0.817	0.0114
5	2.00	4.00	0.817	0.761	0.0148
6	4.00	8.00	0.761	0.641	0.0159
7	8.00	16.00	0.641	0.456	0.0122
8	16.00	4.00	0.456	0.467	0.0005
9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P'_c [kg/cm ²]	C_c [-]	C_s [-]
4.50	0.615	0.022

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 3.0 [m]
Location: Location	USCS: CH
Proj. No.: Project code	Sample: Remolded

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.48	17.7	0.892	55.6
End	2.80	72.3	23.7481	1.83	17.6	0.528	93.1



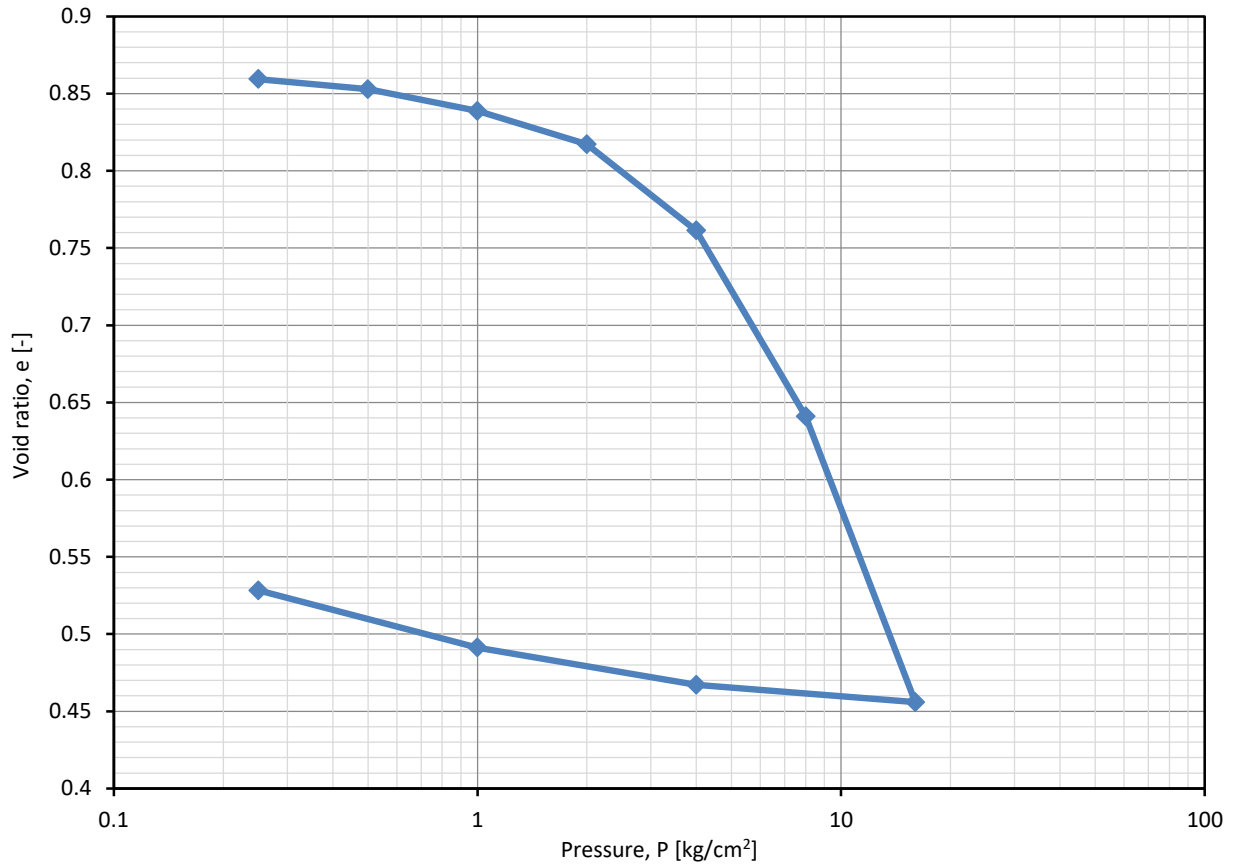
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.25	0.892	0.859	0.0861
2	0.25	0.50	0.859	0.853	0.0138
3	0.50	1.00	0.853	0.839	0.0148
4	1.00	2.00	0.839	0.817	0.0114
5	2.00	4.00	0.817	0.761	0.0148
6	4.00	8.00	0.761	0.641	0.0159
7	8.00	16.00	0.641	0.456	0.0122
8	16.00	4.00	0.456	0.467	0.0005
9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P'_c [kg/cm ²]	C_c [-]	C_s [-]
3.89	0.615	0.022

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 3.0 [m]
Location: Location	USCS: CH
Proj. No.: Project code	Sample: Remolded

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.48	17.7	0.892	55.6
End	2.80	72.3	23.7481	1.83	17.6	0.528	93.1



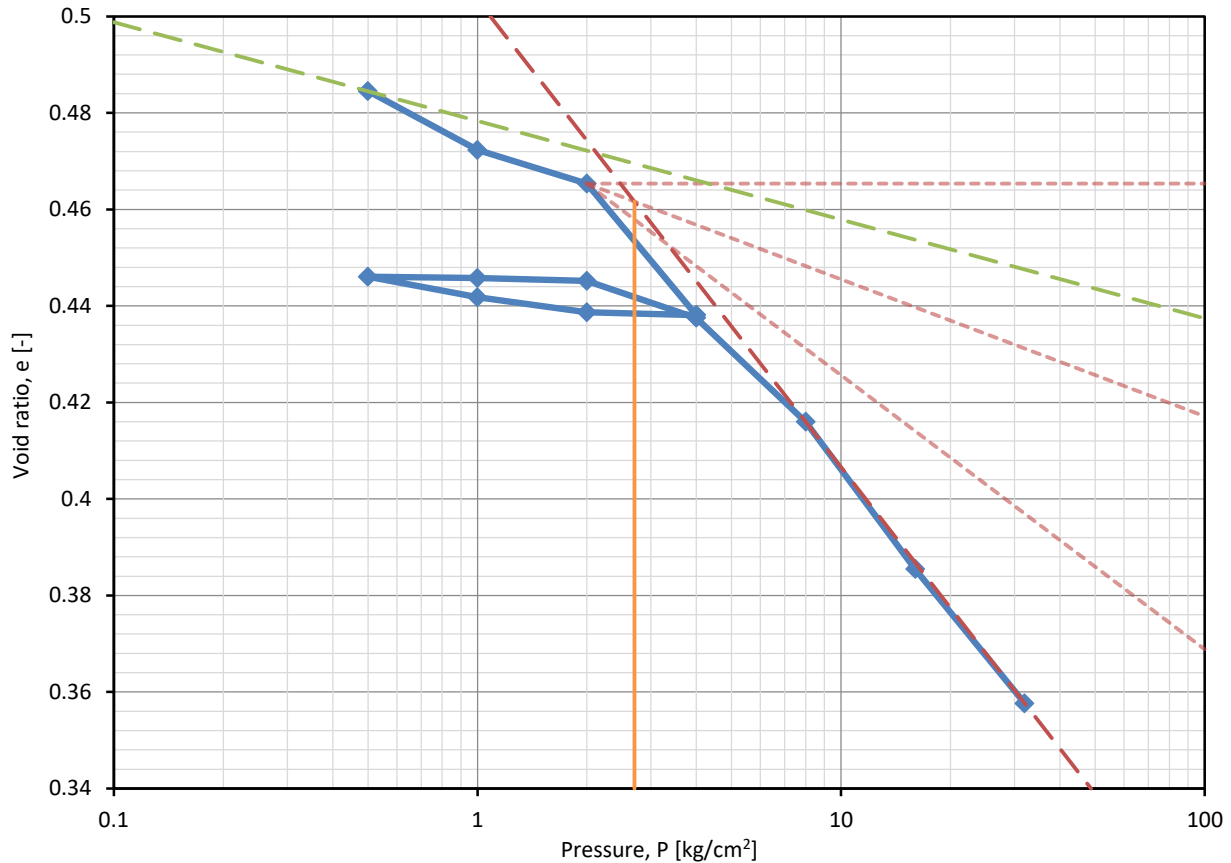
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.25	0.892	0.859	0.0861
2	0.25	0.50	0.859	0.853	0.0138
3	0.50	1.00	0.853	0.839	0.0148
4	1.00	2.00	0.839	0.817	0.0114
5	2.00	4.00	0.817	0.761	0.0148
6	4.00	8.00	0.761	0.641	0.0159
7	8.00	16.00	0.641	0.456	0.0122
8	16.00	4.00	0.456	0.467	0.0005
9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P'_c [kg/cm ²]	C_c [-]	C_s [-]
3.89	0.615	0.022

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 1.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			27.0000	1.77	19.5	0.508	102.4
End	2.67	63.0	24.3000	1.97	14.5	0.358	107.9



Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056

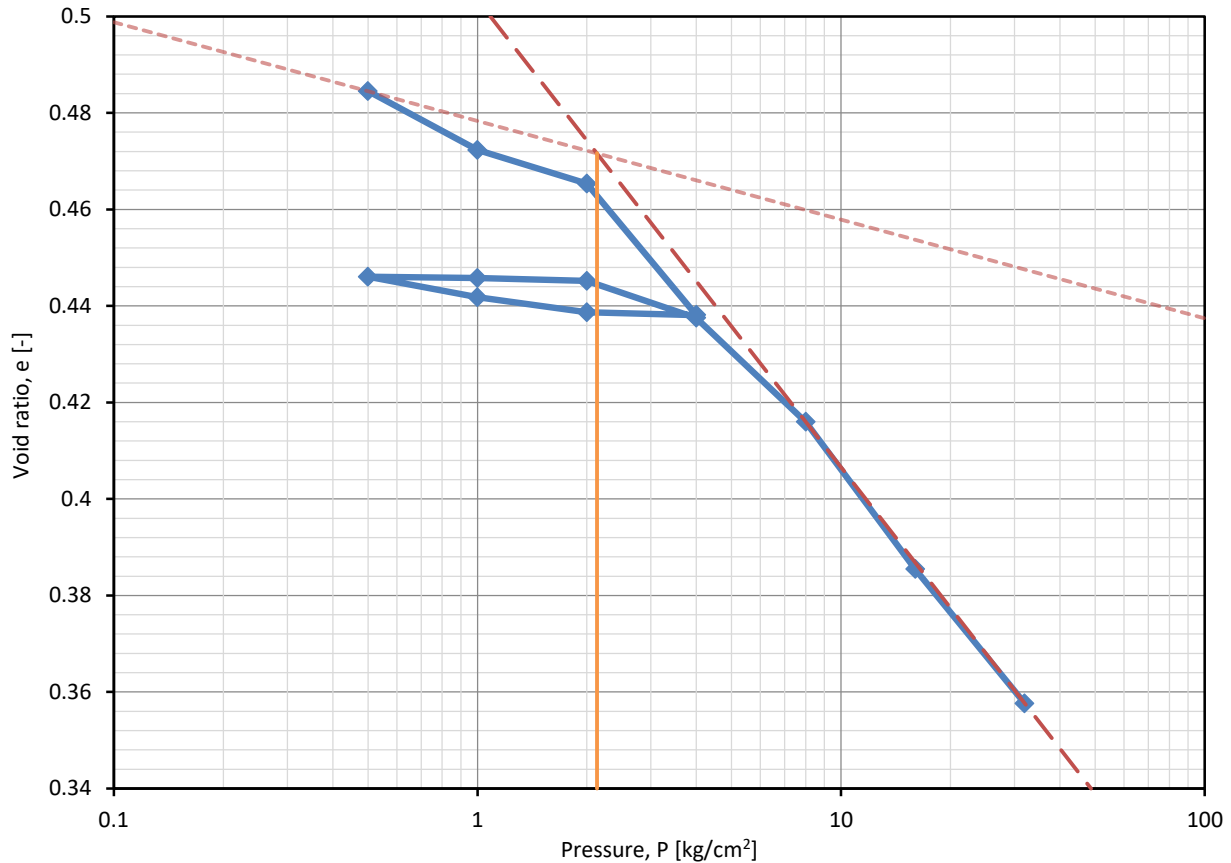
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P'_c [kg/cm ²]	C_c [-]	C_s [-]
2.70	0.097	0.020

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 1.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			27.0000	1.77	19.5	0.508	102.4
End	2.67	63.0	24.3000	1.97	14.5	0.358	107.9



Step	P ₁ [kg/cm ²]	P ₂ [kg/cm ²]	e ₁ [-]	e ₂ [-]	m _v / m _{vr} [1/(kg/cm ²)]
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056

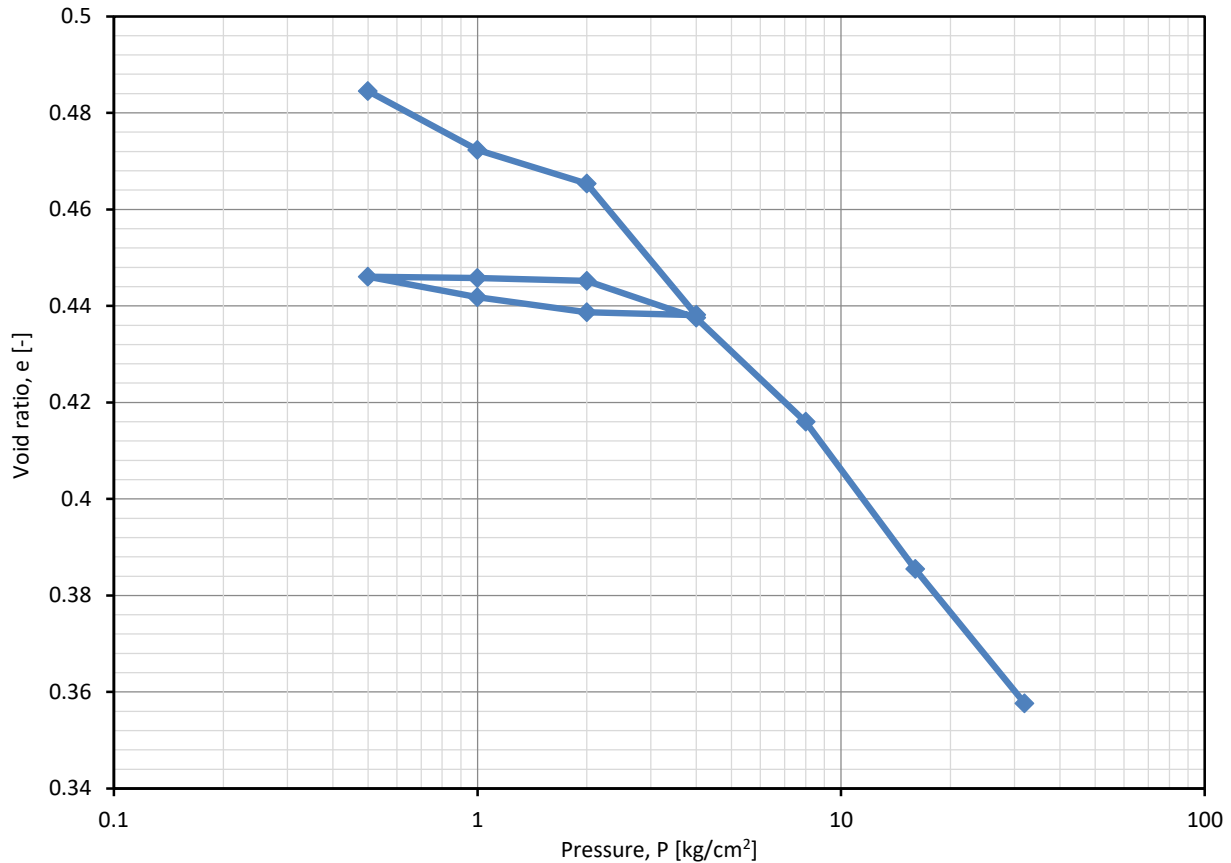
Step	P ₁ [kg/cm ²]	P ₂ [kg/cm ²]	e ₁ [-]	e ₂ [-]	m _v / m _{vr} [1/(kg/cm ²)]
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P' _c [kg/cm ²]	C _c [-]	C _s [-]
2.13	0.097	0.020

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 1.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			27.0000	1.77	19.5	0.508	102.4
End	2.67	63.0	24.3000	1.97	14.5	0.358	107.9



Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056

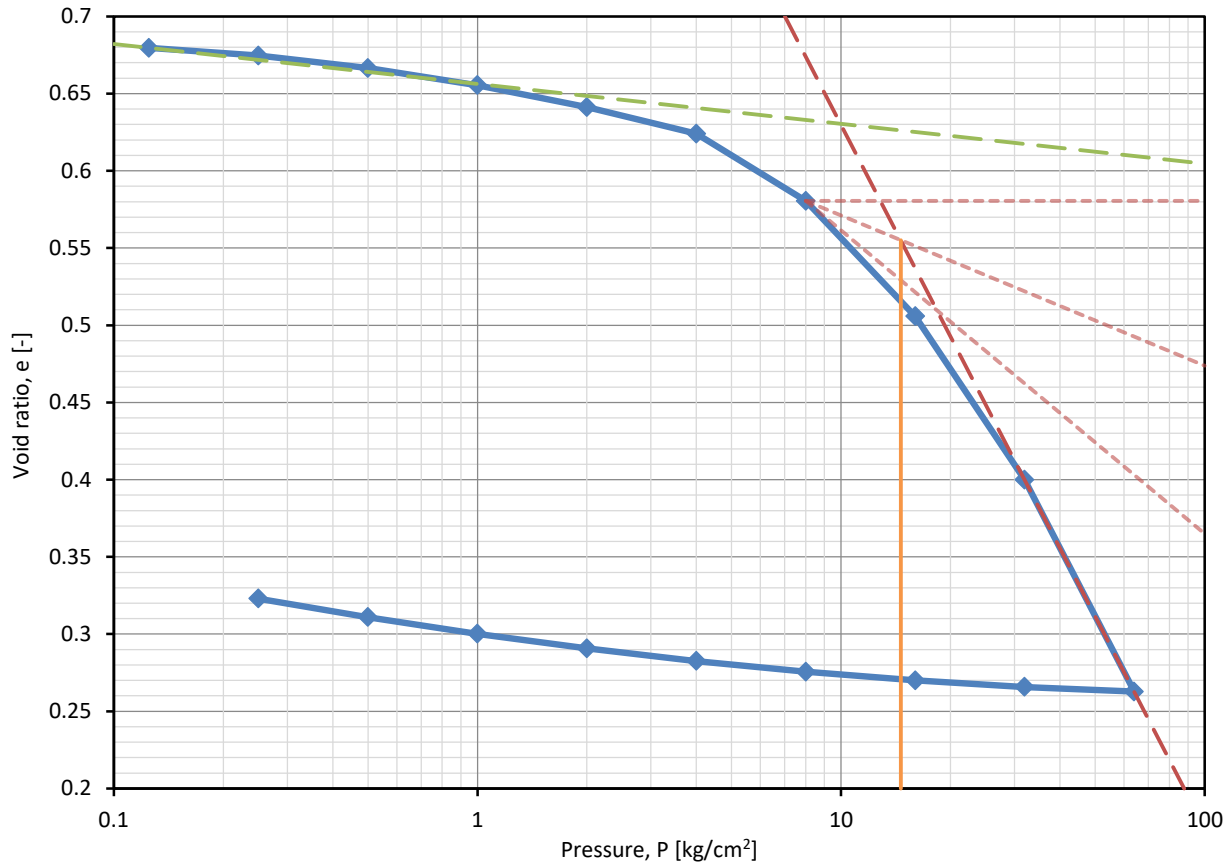
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P'_c [kg/cm ²]	C_c [-]	C_s [-]
2.13	0.097	0.020

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.58	24.0	0.709	91.4
End	2.70	72.3	22.7613	2.04	12.2	0.323	101.6



Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039

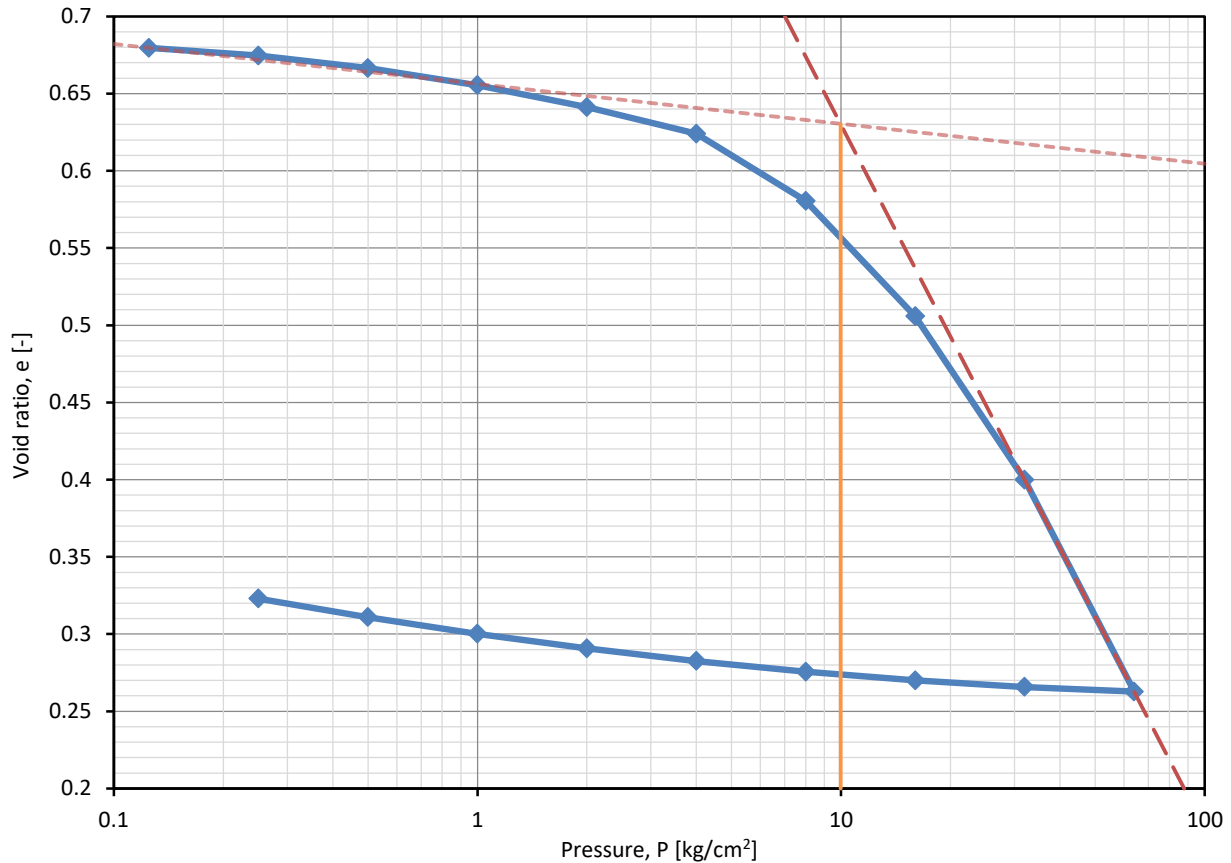
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
10	32.00	64.00	0.400	0.263	0.0025
11	64.00	32.00	0.263	0.266	0.0001
12	32.00	16.00	0.266	0.270	0.0002
13	16.00	8.00	0.270	0.276	0.0004
14	8.00	4.00	0.276	0.282	0.0010
15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
14.60	0.455	0.026

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.58	24.0	0.709	91.4
End	2.70	72.3	22.7613	2.04	12.2	0.323	101.6



Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039

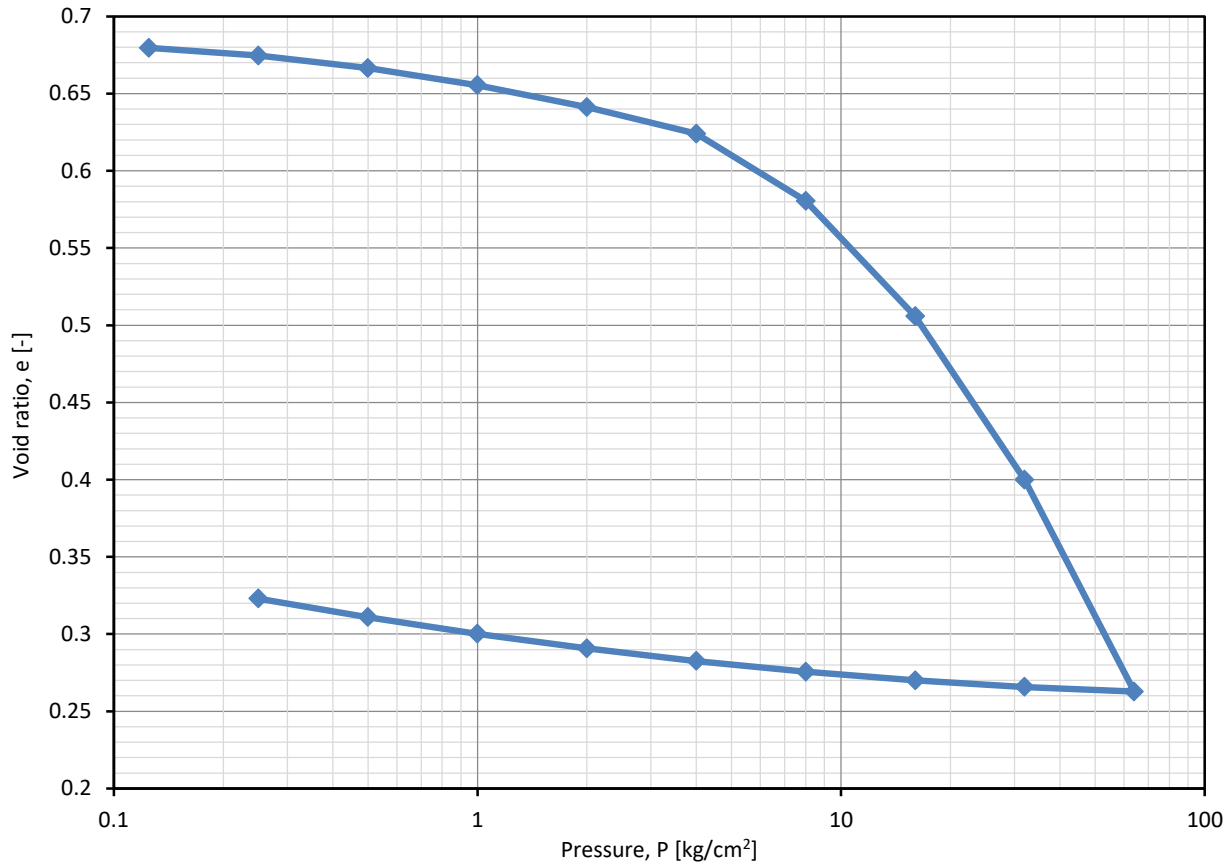
Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
10	32.00	64.00	0.400	0.263	0.0025
11	64.00	32.00	0.263	0.266	0.0001
12	32.00	16.00	0.266	0.270	0.0002
13	16.00	8.00	0.270	0.276	0.0004
14	8.00	4.00	0.276	0.282	0.0010
15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
9.97	0.455	0.026

One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	D [mm]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start			29.4000	1.58	24.0	0.709	91.4
End	2.70	72.3	22.7613	2.04	12.2	0.323	101.6



Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr} [1/(kg/cm ²)]
10	32.00	64.00	0.400	0.263	0.0025
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15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
9.97	0.455	0.026

Whole Test

Landscape

One-Dimensional Consolidation Test

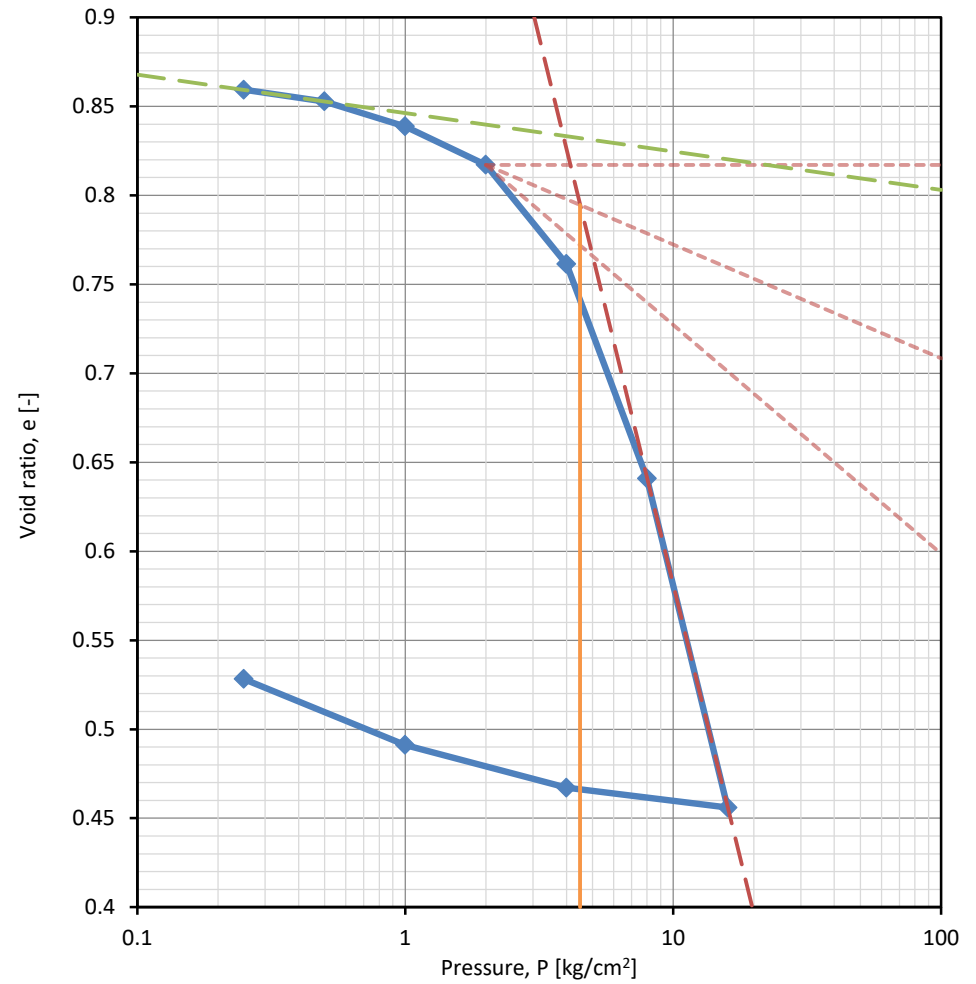
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 3.0 [m]
 USCS: CH
 Sample: Remolded

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.80	29.4000	1.48	17.7	0.892	55.6
End		23.7481	1.83	17.6	0.528	93.1

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.05	0.25	0.892	0.859	0.0861
2	0.25	0.50	0.859	0.853	0.0138
3	0.50	1.00	0.853	0.839	0.0148
4	1.00	2.00	0.839	0.817	0.0114
5	2.00	4.00	0.817	0.761	0.0148
6	4.00	8.00	0.761	0.641	0.0159
7	8.00	16.00	0.641	0.456	0.0122
8	16.00	4.00	0.456	0.467	0.0005
9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P'_c [kg/cm ²]	C_c [-]	C_s [-]
4.50	0.615	0.022



One-Dimensional Consolidation Test

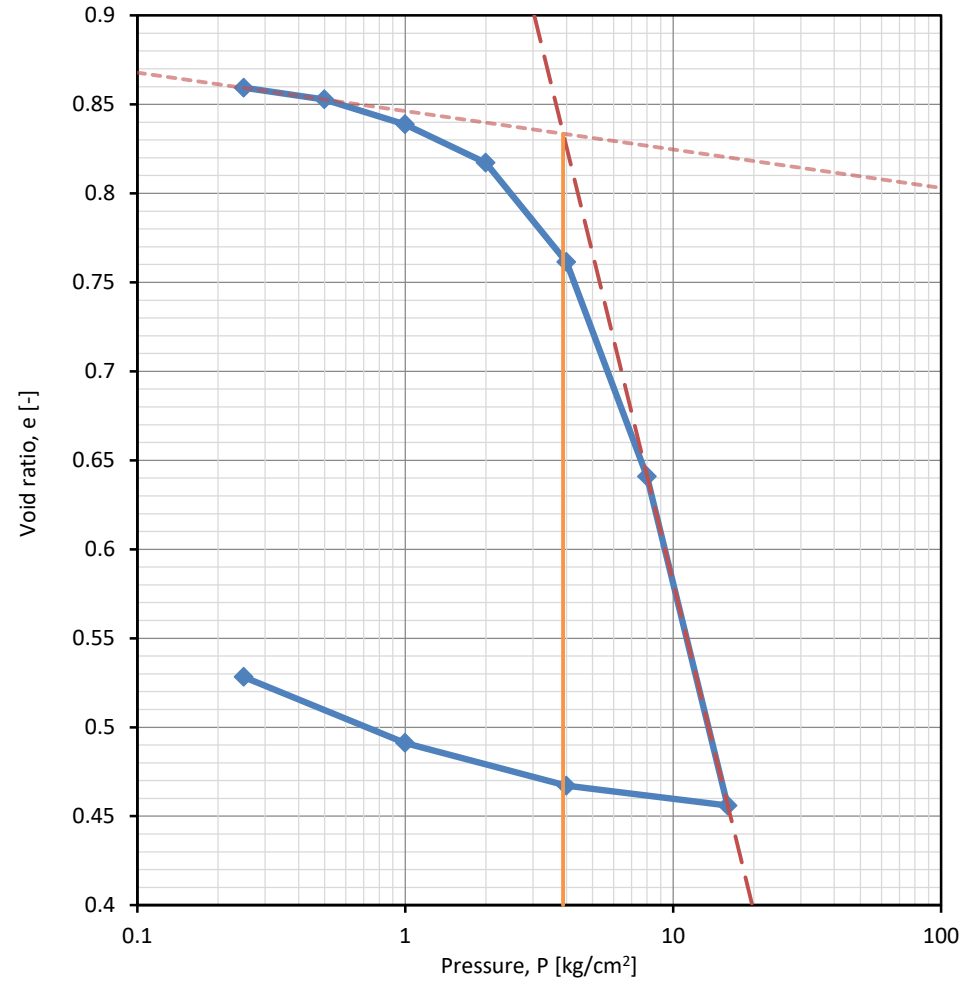
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 3.0 [m]
 USCS: CH
 Sample: Remolded

Parameter	G _s [-]	H [mm]	γ _d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.80	29.4000	1.48	17.7	0.892	55.6
End		23.7481	1.83	17.6	0.528	93.1

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7	8.00	16.00	0.641	0.456	0.0122
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9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P' _c [kg/cm ²]	C _c [-]	C _s [-]
3.89	0.615	0.022



One-Dimensional Consolidation Test

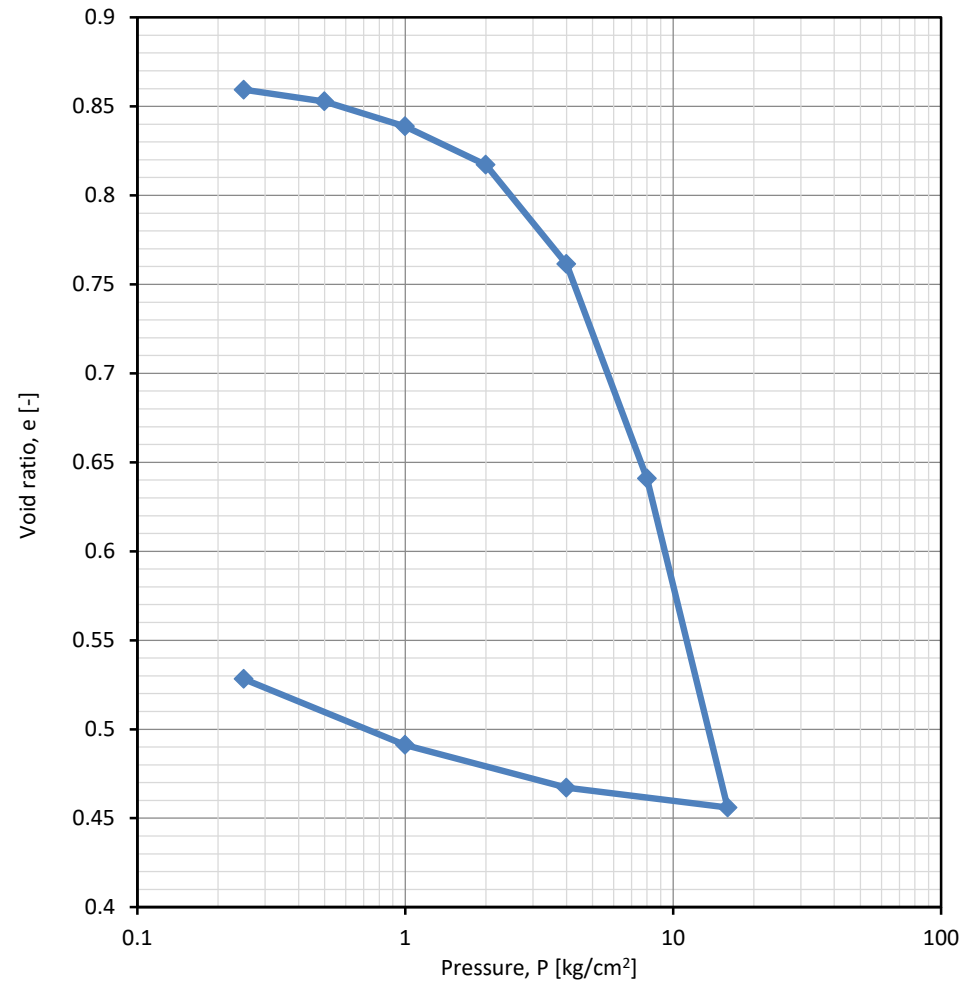
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 3.0 [m]
 USCS: CH
 Sample: Remolded

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.80	29.4000	1.48	17.7	0.892	55.6
End		23.7481	1.83	17.6	0.528	93.1

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.05	0.25	0.892	0.859	0.0861
2	0.25	0.50	0.859	0.853	0.0138
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7	8.00	16.00	0.641	0.456	0.0122
8	16.00	4.00	0.456	0.467	0.0005
9	4.00	1.00	0.467	0.491	0.0042
10	1.00	0.25	0.491	0.528	0.0261

P'_c [kg/cm ²]	C_c [-]	C_s [-]
3.89	0.615	0.022



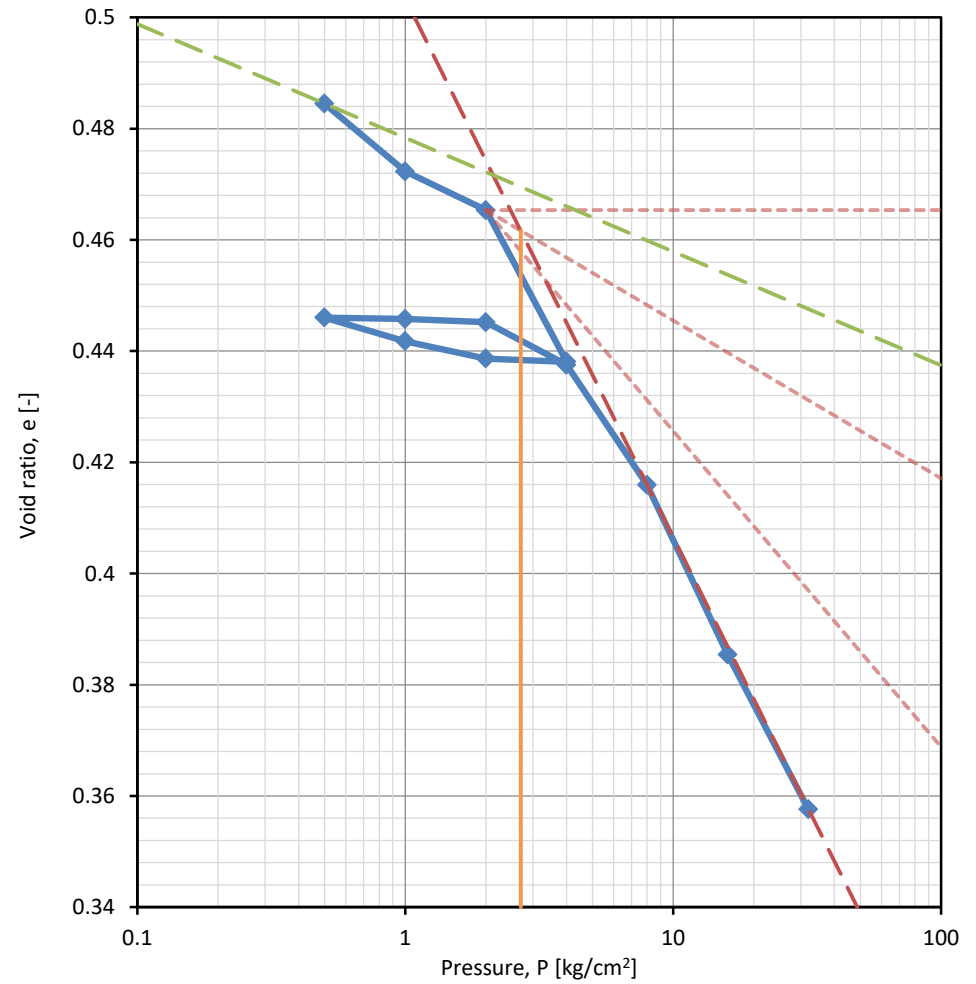
One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 1.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.67	27.0000	1.77	19.5	0.508	102.4
End		24.3000	1.97	14.5	0.358	107.9

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P'_c [kg/cm ²]	C_c [-]	C_s [-]
2.70	0.097	0.020



One-Dimensional Consolidation Test

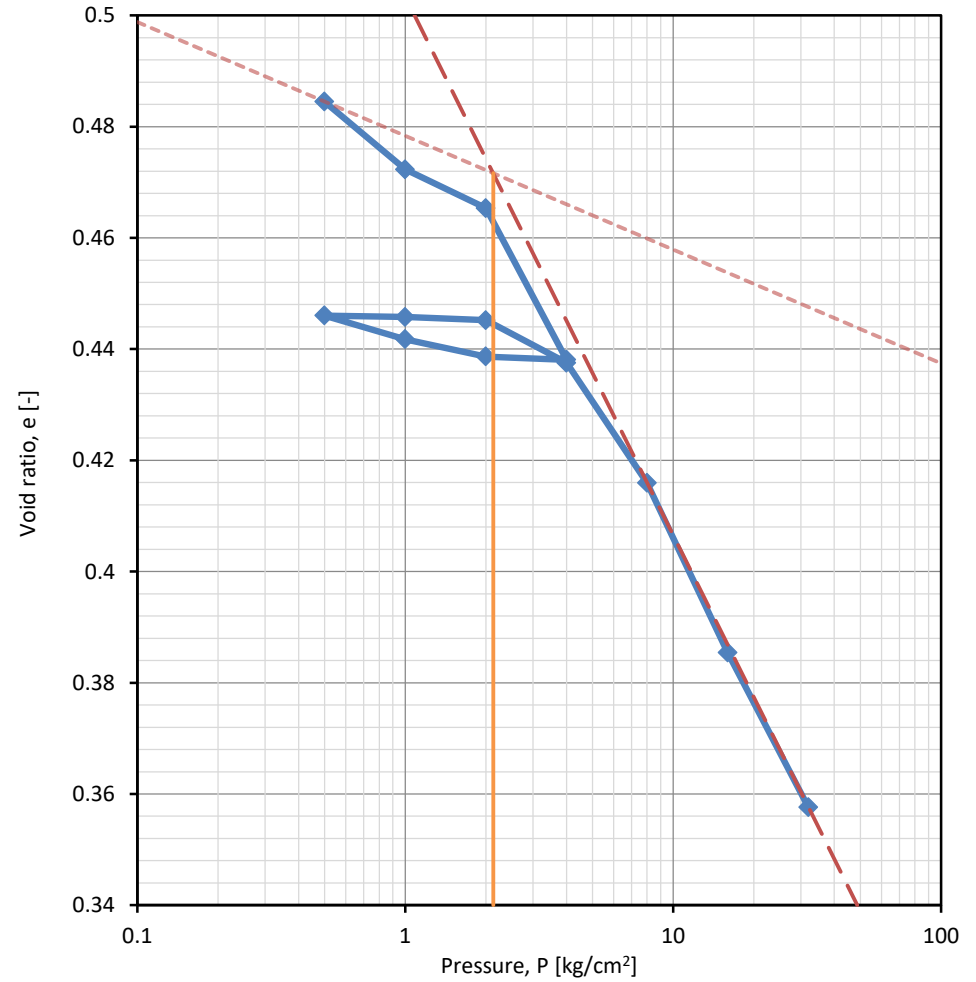
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 1.0 [m]
 USCS: CL-ML
 Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.67	27.0000	1.77	19.5	0.508	102.4
End		24.3000	1.97	14.5	0.358	107.9

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P'_c [kg/cm ²]	C_c [-]	C_s [-]
2.13	0.097	0.020



One-Dimensional Consolidation Test

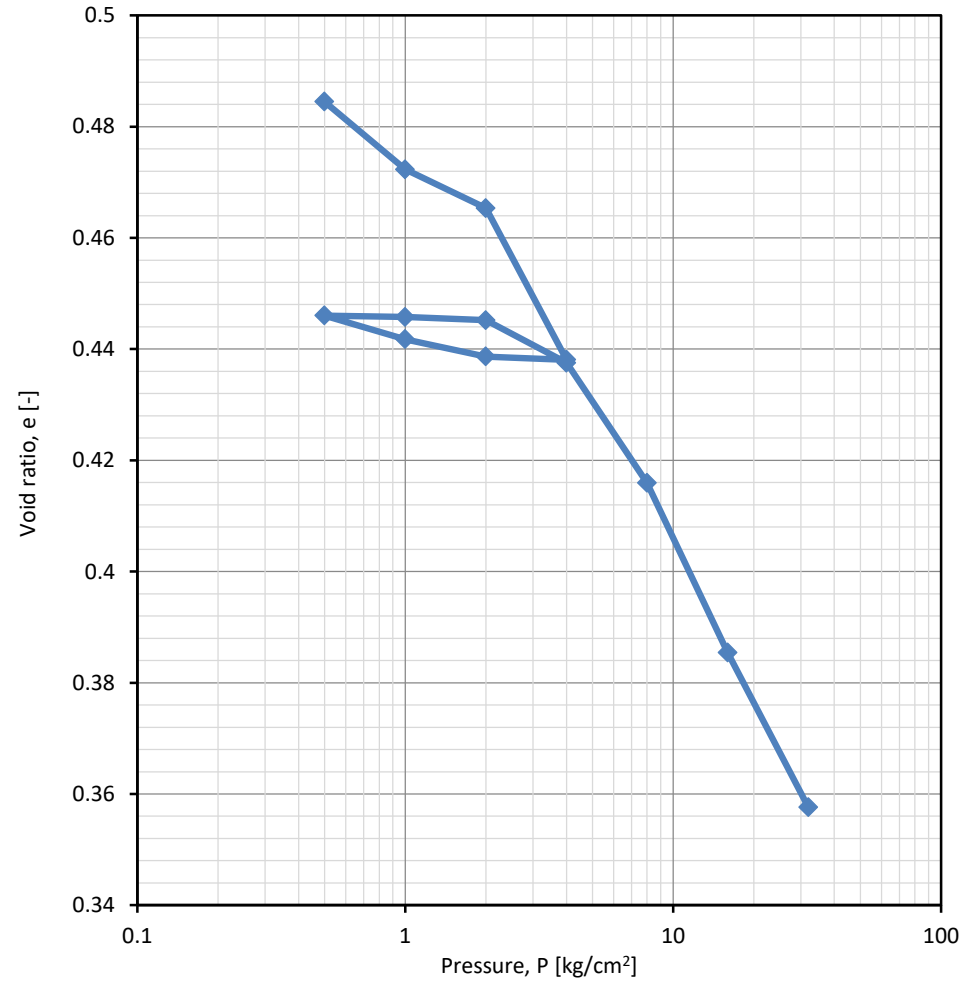
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 1.0 [m]
 USCS: CL-ML
 Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.67	27.0000	1.77	19.5	0.508	102.4
End		24.3000	1.97	14.5	0.358	107.9

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.25	0.50	0.508	0.484	0.0636
2	0.50	1.00	0.484	0.472	0.0162
3	1.00	2.00	0.472	0.465	0.0046
4	2.00	4.00	0.465	0.438	0.0090
5	4.00	2.00	0.438	0.439	0.0002
6	2.00	1.00	0.439	0.442	0.0021
7	1.00	0.50	0.442	0.446	0.0056
8	0.50	1.00	0.446	0.446	0.0004
9	1.00	2.00	0.446	0.445	0.0004
10	2.00	4.00	0.445	0.438	0.0025
11	4.00	8.00	0.438	0.416	0.0036
12	8.00	16.00	0.416	0.385	0.0025
13	16.00	32.00	0.385	0.358	0.0012
-	-	-	-	-	-

P'_c [kg/cm ²]	C_c [-]	C_s [-]
2.13	0.097	0.020



One-Dimensional Consolidation Test

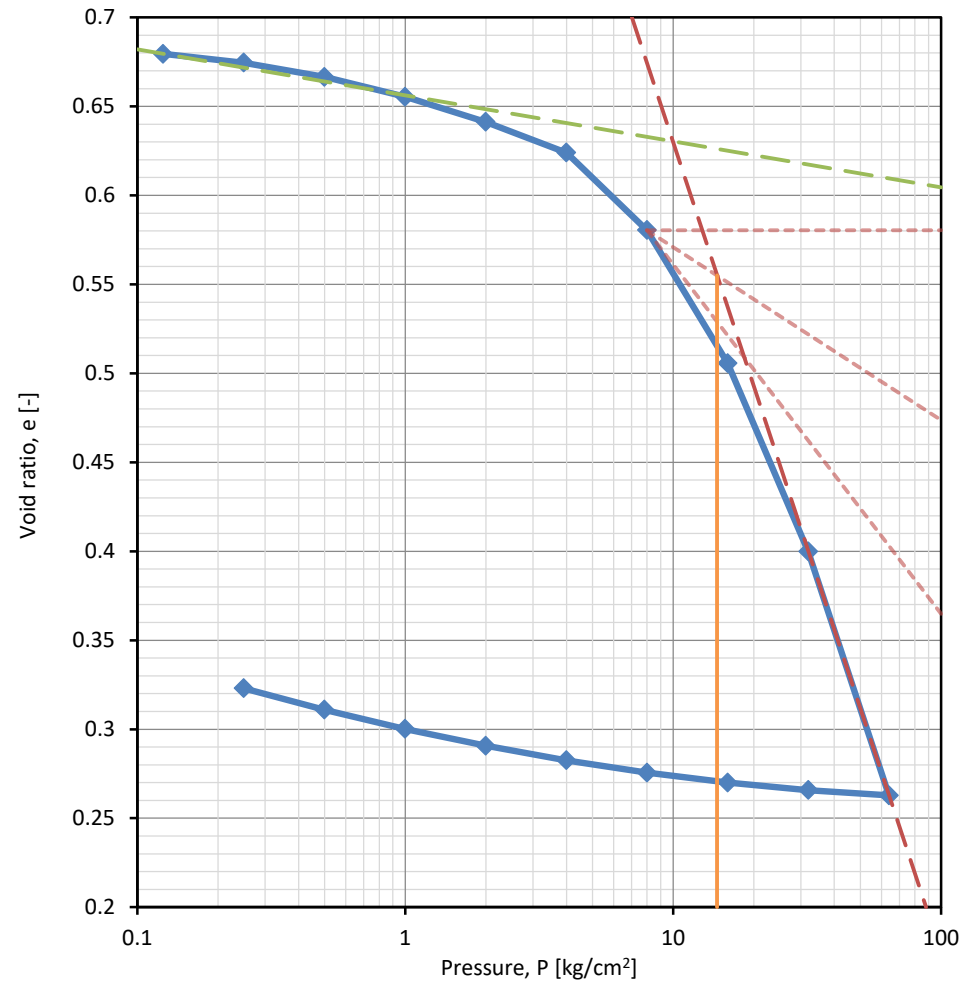
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 5.0 [m]
 USCS: CL
 Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.70	29.4000	1.58	24.0	0.709	91.4
End		22.7613	2.04	12.2	0.323	101.6

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039
10	32.00	64.00	0.400	0.263	0.0025
11	64.00	32.00	0.263	0.266	0.0001
12	32.00	16.00	0.266	0.270	0.0002
13	16.00	8.00	0.270	0.276	0.0004
14	8.00	4.00	0.276	0.282	0.0010
15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
14.60	0.455	0.026



One-Dimensional Consolidation Test

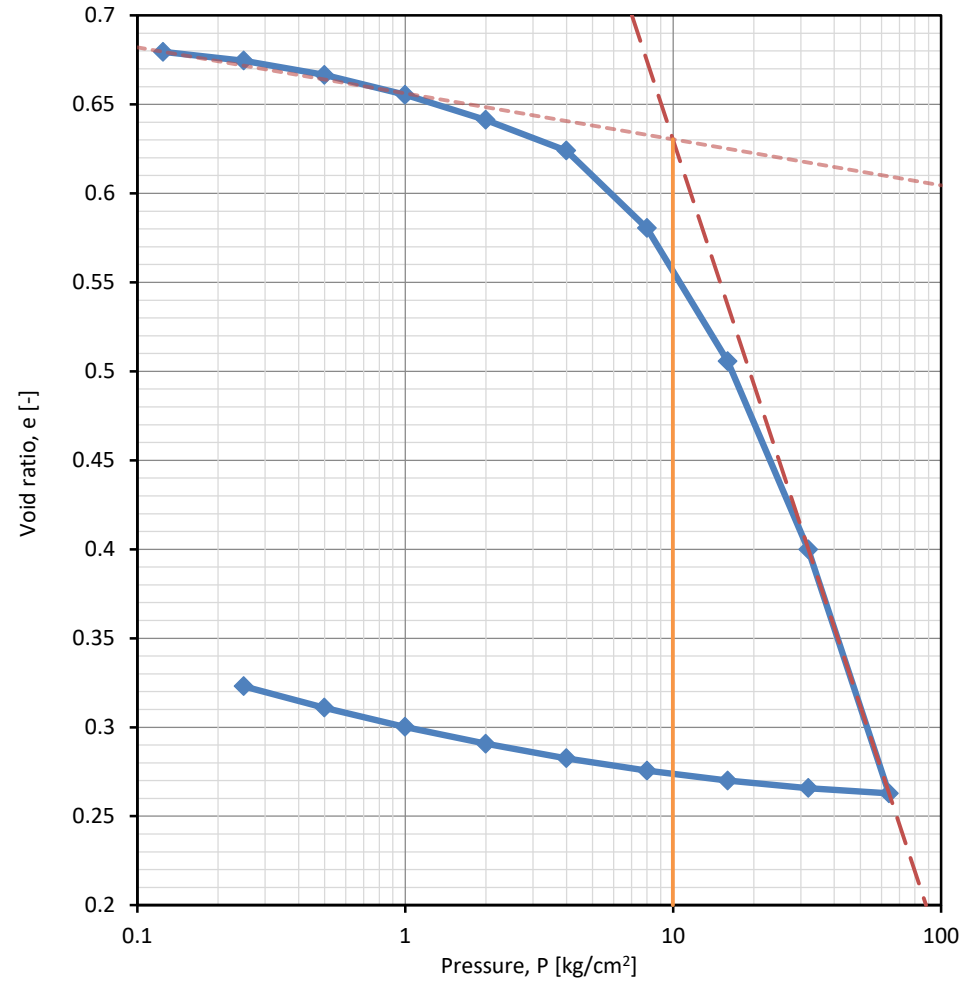
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 5.0 [m]
 USCS: CL
 Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.70	29.4000	1.58	24.0	0.709	91.4
End		22.7613	2.04	12.2	0.323	101.6

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039
10	32.00	64.00	0.400	0.263	0.0025
11	64.00	32.00	0.263	0.266	0.0001
12	32.00	16.00	0.266	0.270	0.0002
13	16.00	8.00	0.270	0.276	0.0004
14	8.00	4.00	0.276	0.282	0.0010
15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
9.97	0.455	0.026



One-Dimensional Consolidation Test

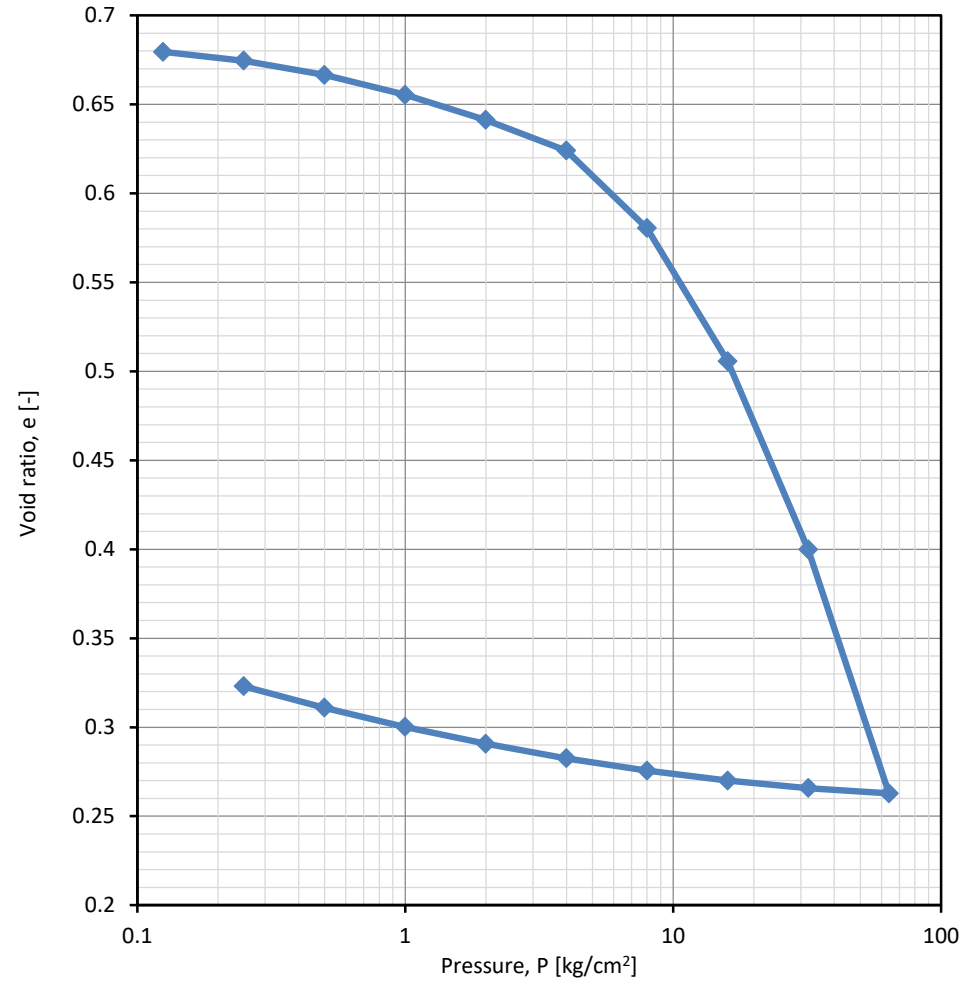
Project: Sample
 Client: Client
 Location: Location
 Proj. No.: Project code

BH/TP: TP-01
 Depth: 5.0 [m]
 USCS: CL
 Sample: Undisturbed

Parameter	G_s [-]	H [mm]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.70	29.4000	1.58	24.0	0.709	91.4
End		22.7613	2.04	12.2	0.323	101.6

Step	P_1 [kg/cm ²]	P_2 [kg/cm ²]	e_1 [-]	e_2 [-]	m_v / m_{vr}
1	0.05	0.125	0.709	0.680	0.2290
2	0.125	0.25	0.680	0.675	0.0233
3	0.25	0.50	0.675	0.667	0.0188
4	0.50	1.00	0.667	0.655	0.0130
5	1.00	2.00	0.655	0.641	0.0083
6	2.00	4.00	0.641	0.624	0.0050
7	4.00	8.00	0.624	0.580	0.0064
8	8.00	16.00	0.580	0.506	0.0055
9	16.00	32.00	0.506	0.400	0.0039
10	32.00	64.00	0.400	0.263	0.0025
11	64.00	32.00	0.263	0.266	0.0001
12	32.00	16.00	0.266	0.270	0.0002
13	16.00	8.00	0.270	0.276	0.0004
14	8.00	4.00	0.276	0.282	0.0010
15	4.00	2.00	0.282	0.291	0.0024
16	2.00	1.00	0.291	0.300	0.0055
17	1.00	0.50	0.300	0.311	0.0126
18	0.50	0.25	0.311	0.323	0.0283

P'_c [kg/cm ²]	C_c [-]	C_s [-]
9.97	0.455	0.026



Loading steps

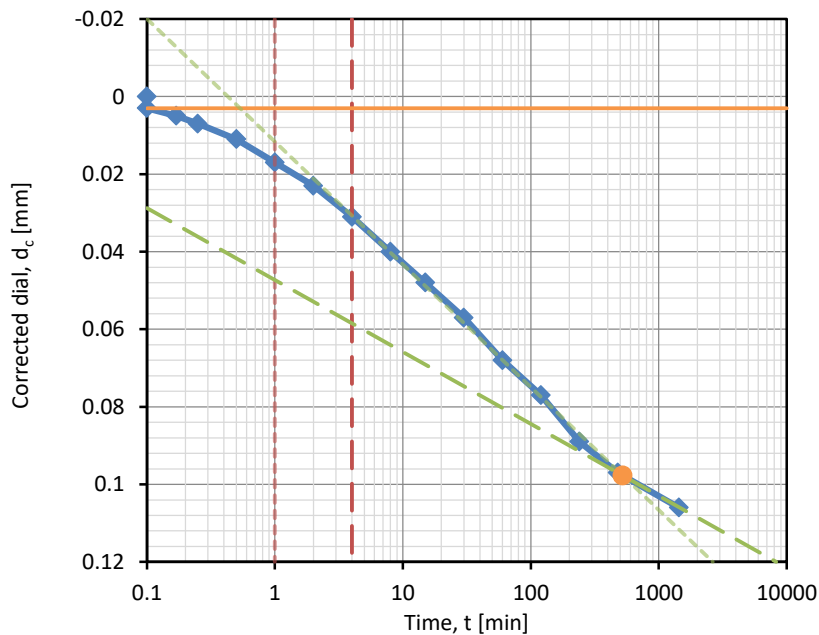
One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 2.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Whole Test

Step	P [kg/cm ²]	ΔH [mm]	H [mm]	e [-]	Method	C _v [cm ² /min]	C _α [-]	r _i [%]	r _p [%]	r _s [%]
1	0.50	0.1060	19.9940	0.613	log (time)	0.0110	0.0015	2.8	89.4	7.8
2	1.00	0.3600	19.7400	0.593	log (time)	0.0277	0.0016	0.0	91.4	8.6
3	2.00	0.7620	19.3380	0.560	sqrt (time)	0.0149	0.0073	15.8	55.9	28.3
4	4.00	1.2800	18.8200	0.519	log (time)	0.0071	0.0025	9.5	84.2	6.3
5	2.00	1.1180	18.9820	0.532	log (time)	0.0108	-0.0008	15.1	78.0	7.0
6	0.50	0.7450	19.3550	0.562	sqrt (time)	0.0023	-0.0038	11.6	84.9	3.5
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Loading Step



Step	P [kg/cm ²]	Status
1	0.50	Loading

U [%]	t [min]	d _c	H [mm]
0	-	0.0030	20.0970
50	18.02	0.0504	20.0496
100	523.17	0.0978	20.0022

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
50.0	18.02	0.196	10.0248

C _v [cm ² /min]	C _α [-]
0.0110	0.0015

r _i [%]	r _p [%]	r _s [%]
2.8	89.4	7.8

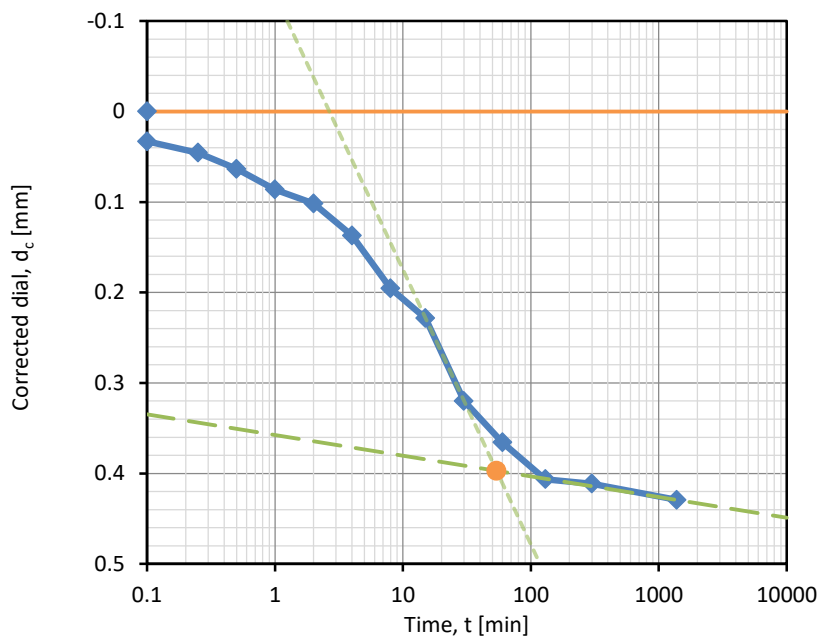
One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 1.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Whole Test

Step	P [kg/cm ²]	ΔH [mm]	H [mm]	e [-]	Method	C _v [cm ² /min]	C _α [-]	r _i [%]	r _p [%]	r _s [%]
1	0.50	0.4292	26.5708	0.484	log (time)	0.0416	0.0013	0.0	92.5	7.5
2	1.00	0.6476	26.3524	0.472	log (time)	0.0268	0.0004	3.5	93.7	2.8
3	2.00	0.7721	26.2279	0.465	log (time)	0.0083	0.0009	2.1	78.7	19.2
4	4.00	1.2598	25.7402	0.438	sqrt (time)	0.1571	0.0034	2.6	71.6	25.8
5	2.00	1.2496	25.7504	0.439	log (time)	0.1710	0.0000	0.0	96.9	3.1
6	1.00	1.1938	25.8062	0.442	log (time)	0.0777	-0.0003	0.0	90.4	9.6
7	0.50	1.1176	25.8824	0.446	log (time)	0.0580	-0.0005	4.7	79.9	15.4
8	1.00	1.1226	25.8774	0.446	log (time)	0.1024	0.0000	18.7	81.3	0.0
9	2.00	1.1328	25.8672	0.445	sqrt (time)	1.0238	0.0001	5.2	69.8	24.9
10	4.00	1.2700	25.7300	0.438	log (time)	0.1709	0.0011	0.0	68.2	31.8
11	8.00	1.6560	25.3440	0.416	log (time)	0.1306	0.0029	0.1	83.3	16.7
12	16.00	2.2021	24.7979	0.385	log (time)	0.1779	0.0035	4.5	81.5	14.1
13	32.00	2.7000	24.3000	0.358	sqrt (time)	0.1448	0.0041	3.7	80.0	16.3
-	-	-	-	-	-	-	-	-	-	-

Loading Step



Step	P [kg/cm ²]	Status
1	0.50	Loading

U [%]	t [min]	d _c	H [mm]
0	-	0.0000	27.0000
50	8.48	0.1985	26.8015
100	53.79	0.3971	26.6029

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
50.0	8.48	0.196	13.4007

C _v [cm ² /min]	C _α [-]
0.0416	0.0013

r _i [%]	r _p [%]	r _s [%]
0.0	92.5	7.5

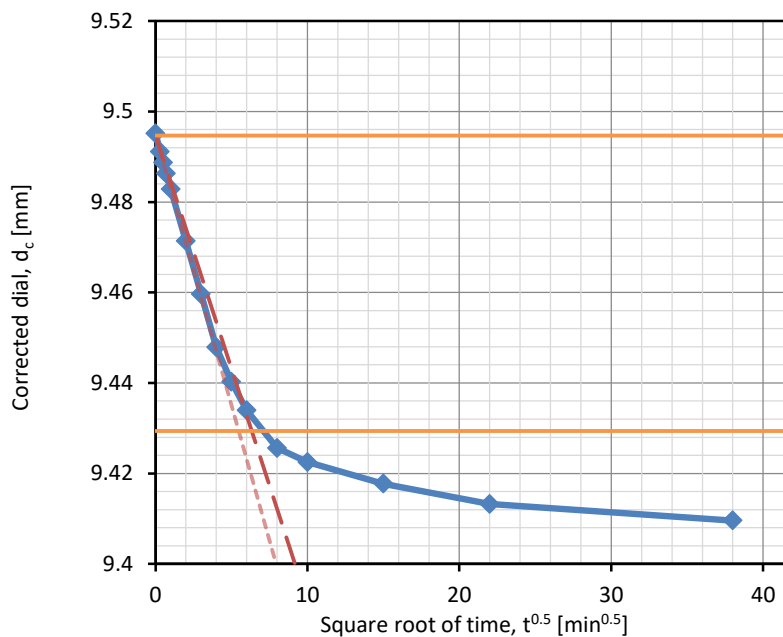
One-Dimensional Consolidation Test

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Proj. No.: Project code	Sample: Undisturbed

Whole Test

Step	P [kg/cm ²]	ΔH [mm]	H [mm]	e [-]	Method	C _v [cm ² /min]	C _α [-]	r _i [%]	r _p [%]	r _s [%]
1	0.125	0.5049	28.8951	0.680	-	-	-	-	-	-
2	0.25	0.5904	28.8096	0.675	sqrt (time)	0.0546	0.0008	0.6	76.3	23.1
3	0.50	0.7286	28.6714	0.667	-	-	-	-	-	-
4	1.00	0.9196	28.4804	0.655	log (time)	0.0248	0.0007	3.8	88.9	7.2
5	2.00	1.1633	28.2367	0.641	-	-	-	-	-	-
6	4.00	1.4597	27.9403	0.624	log (time)	0.0123	0.0011	2.1	91.6	6.3
7	8.00	2.2092	27.1908	0.580	-	-	-	-	-	-
8	16.00	3.4948	25.9052	0.506	sqrt (time)	0.0260	0.0089	9.8	77.8	12.4
9	32.00	5.3166	24.0834	0.400	-	-	-	-	-	-
10	64.00	7.6745	21.7255	0.263	log (time)	0.0043	0.0074	5.1	91.8	3.2
11	32.00	7.6232	21.7768	0.266	-	-	-	-	-	-
12	16.00	7.5496	21.8504	0.270	log (time)	0.0088	-0.0002	0.0	96.1	3.9
13	8.00	7.4536	21.9464	0.276	-	-	-	-	-	-
14	4.00	7.3353	22.0647	0.282	sqrt (time)	0.0260	-0.0011	0.7	78.8	20.5
15	2.00	7.1947	22.2053	0.291	-	-	-	-	-	-
16	1.00	7.0317	22.3683	0.300	log (time)	0.0110	-0.0009	4.1	86.3	9.5
17	0.50	6.8464	22.5536	0.311	-	-	-	-	-	-
18	0.25	6.6387	22.7613	0.323	log (time)	0.0157	-0.0014	3.0	84.7	12.3

Loading Step



Step	P [kg/cm ²]	Status
2	0.25	Loading

U [%]	t [min]	d _c	H [mm]
0	-	9.4946	28.8946
50	7.84	9.4620	28.8620
100	50.41	9.4294	28.8294

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
90.0	32.37	0.848	14.4310

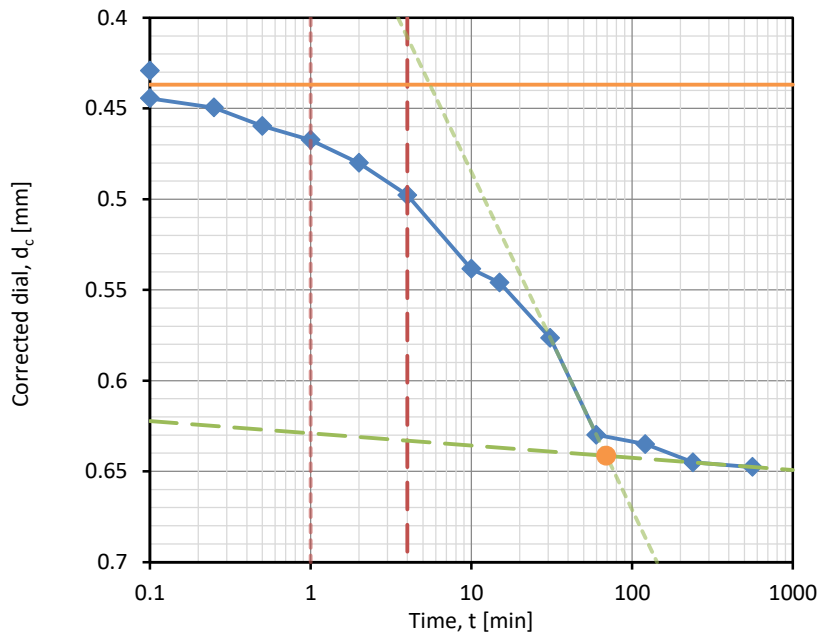
C _v [cm ² /min]	C _α [-]
0.0546	0.0008

r _i [%]	r _p [%]	r _s [%]
0.6	76.3	23.1

One-Dimensional Consolidation Test

Project:	Sample	BH/TP:	TP-01
Client:	Client	Depth:	1.0 [m]
Location:	Location	USCS:	CL-ML
Proj. No.:	Project code	Sample:	Undisturbed

Loading Step



Step	P [kg/cm ²]	Status
2	1.00	Loading

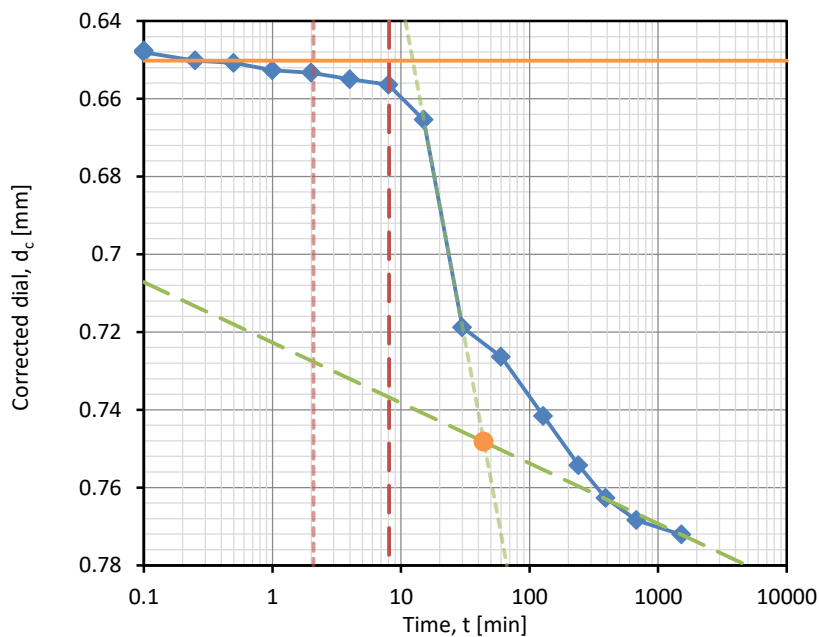
U [%]	t [min]	d _c	H [mm]
0	-	0.4368	26.5632
50	10.39	0.5391	26.4609
100	69.21	0.6414	26.3586

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
53.0	14.42	0.221	13.2304

C _v [cm ² /min]	C _α [-]
0.0268	0.0004

r _i [%]	r _p [%]	r _s [%]
3.5	93.7	2.8

Loading Step



Step	P [kg/cm ²]	Status
3	2.00	Loading

U [%]	t [min]	d _c	H [mm]
0	-	0.6502	26.3498
50	23.26	0.6992	26.3008
100	43.95	0.7482	26.2518

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
34.0	18.98	0.091	13.1504

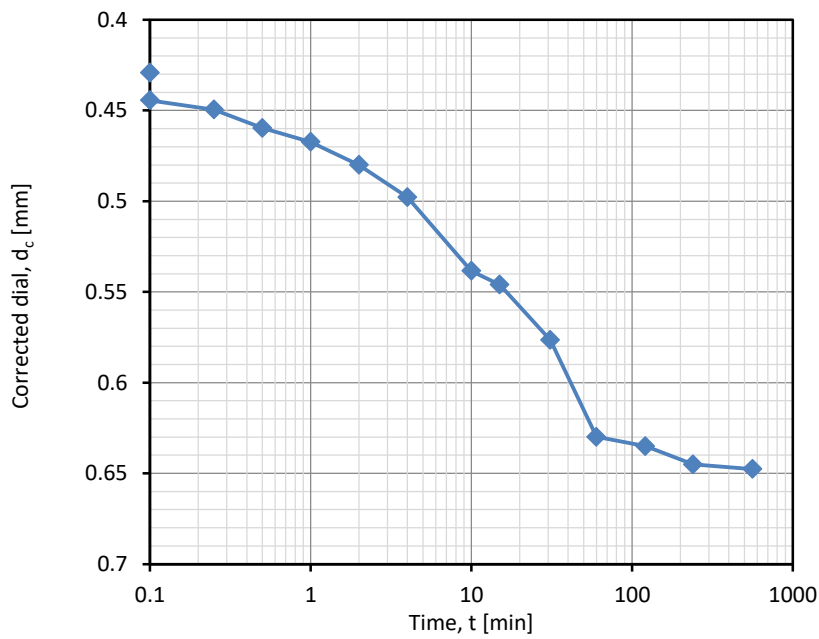
C _v [cm ² /min]	C _α [-]
0.0083	0.0009

r _i [%]	r _p [%]	r _s [%]
2.1	78.7	19.2

One-Dimensional Consolidation Test

Project:	Sample	BH/TP:	TP-01
Client:	Client	Depth:	1.0 [m]
Location:	Location	USCS:	CL-ML
Proj. No.:	Project code	Sample:	Undisturbed

Loading Step



Step	P [kg/cm ²]	Status
2	1.00	Loading

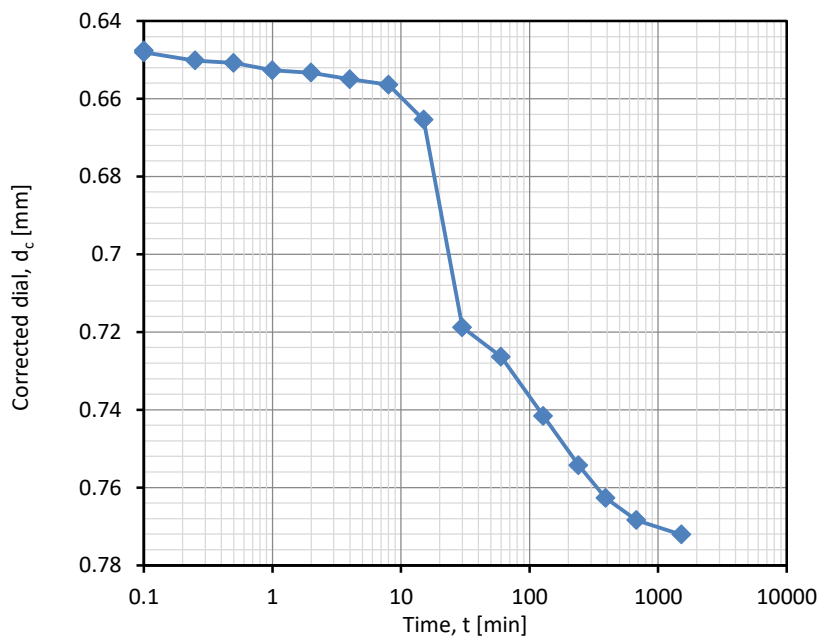
U [%]	t [min]	d_c	H [mm]
0	-	0.4368	26.5632
50	10.39	0.5391	26.4609
100	69.21	0.6414	26.3586

U [%]	t_U [min]	T_v [-]	H_{dr} [mm]
53.0	14.42	0.221	13.2304

C_v [cm ² /min]	C_α [-]
0.0268	0.0004

r_i [%]	r_p [%]	r_s [%]
3.5	93.7	2.8

Loading Step



Step	P [kg/cm ²]	Status
3	2.00	Loading

U [%]	t [min]	d_c	H [mm]
0	-	0.6502	26.3498
50	23.26	0.6992	26.3008
100	43.95	0.7482	26.2518

U [%]	t_U [min]	T_v [-]	H_{dr} [mm]
34.0	18.98	0.091	13.1504

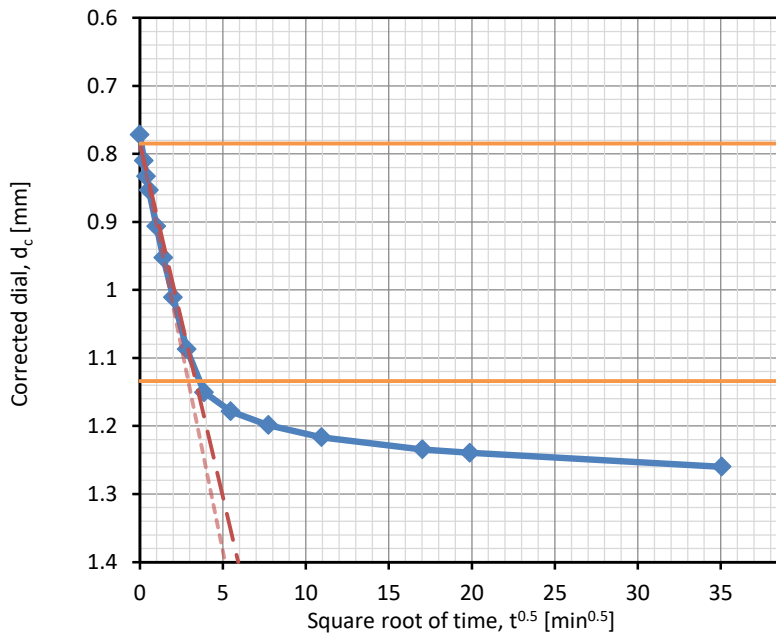
C_v [cm ² /min]	C_α [-]
0.0083	0.0009

r_i [%]	r_p [%]	r_s [%]
2.1	78.7	19.2

One-Dimensional Consolidation Test

Project:	Sample	BH/TP:	TP-01
Client:	Client	Depth:	1.0 [m]
Location:	Location	USCS:	CL-ML
Proj. No.:	Project code	Sample:	Undisturbed

Loading Step



Step	P [kg/cm ²]	Status
4	4.00	Loading

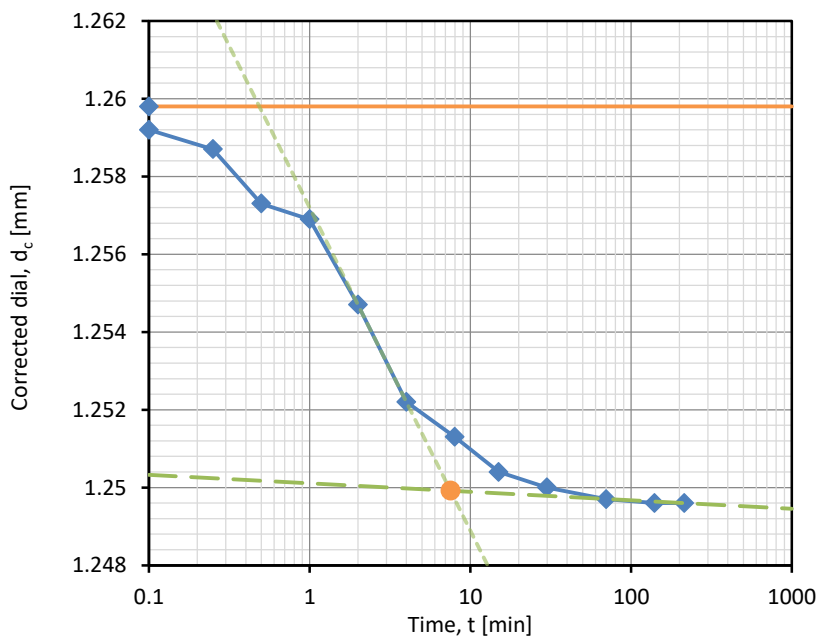
U [%]	t [min]	d _c	H [mm]
0	-	0.7850	26.2150
50	2.21	0.9595	26.0405
100	12.96	1.1340	25.8660

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
90.0	9.15	0.848	13.0203

C _v [cm ² /min]	C _α [-]
0.1571	0.0034

r _i [%]	r _p [%]	r _s [%]
2.6	71.6	25.8

Loading Step



Step	P [kg/cm ²]	Status
5	2.00	Unloading

U [%]	t [min]	d _c	H [mm]
0	-	1.2598	25.7402
50	1.90	1.2549	25.7451
100	7.53	1.2499	25.7501

U [%]	t _U [min]	T _v [-]	H _{dr} [mm]
50.0	1.90	0.196	12.8726

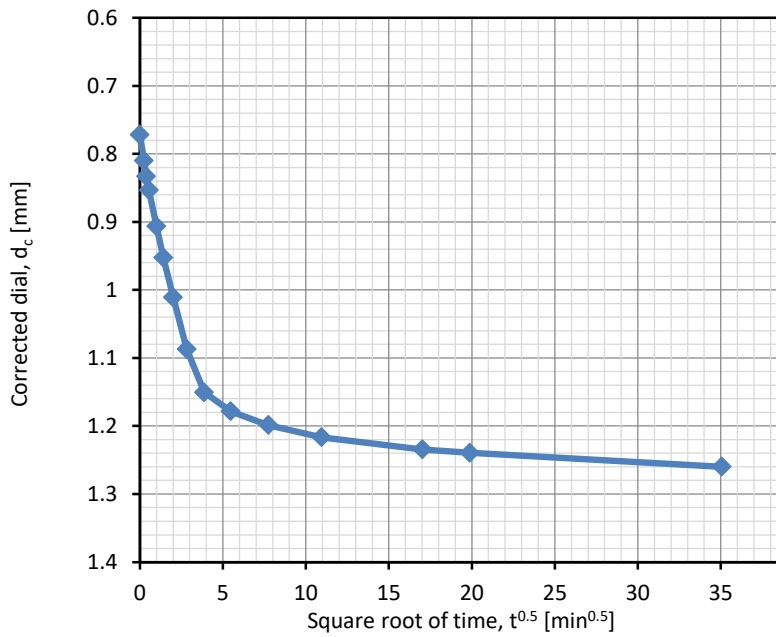
C _v [cm ² /min]	C _α [-]
0.1710	0.0000

r _i [%]	r _p [%]	r _s [%]
0.0	96.9	3.1

One-Dimensional Consolidation Test

Project:	Sample	BH/TP:	TP-01
Client:	Client	Depth:	1.0 [m]
Location:	Location	USCS:	CL-ML
Proj. No.:	Project code	Sample:	Undisturbed

Loading Step



Step	P [kg/cm ²]	Status
4	4.00	Loading

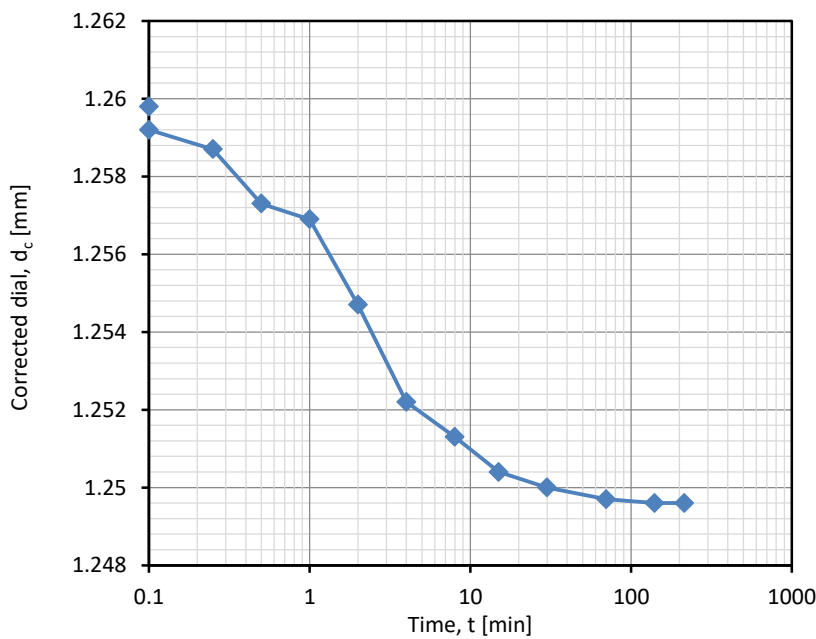
U [%]	t [min]	d_c	H [mm]
0	-	0.7850	26.2150
50	2.21	0.9595	26.0405
100	12.96	1.1340	25.8660

U [%]	t_U [min]	T_v [-]	H_{dr} [mm]
90.0	9.15	0.848	13.0203

C_v [cm ² /min]	C_α [-]
0.1571	0.0034

r_i [%]	r_p [%]	r_s [%]
2.6	71.6	25.8

Loading Step



Step	P [kg/cm ²]	Status
5	2.00	Unloading

U [%]	t [min]	d_c	H [mm]
0	-	1.2598	25.7402
50	1.90	1.2549	25.7451
100	7.53	1.2499	25.7501

U [%]	t_U [min]	T_v [-]	H_{dr} [mm]
50.0	1.90	0.196	12.8726

C_v [cm ² /min]	C_α [-]
0.1710	0.0000

r_i [%]	r_p [%]	r_s [%]
0.0	96.9	3.1

Whole Test

Test data

One-Dimensional Consolidation - Test Data

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Code: Project code	Sample: Undisturbed

Gauge factor, 1 div. : 1 [mm]

Drainage : Double

Parameter	G_s [-]	D [mm]	H [mm]	M_T [g]	γ_d [g/cm ³]	w [%]	e [-]	S [%]
Start	2.70	72.3	29.4000	236.48	1.58	24.0	0.709	91.4
End			22.7613	213.89	2.04	12.2	0.323	101.6

Step	P [kg/cm ²]	Δ_a [mm]	Dial		ΔH [mm]	H [mm]	ϵ [%]	e [-]	m_v / m_{vr} [1/(kg/cm ²)]
			d	d_c					
0	0.05	0.0000	10.0000	10.0000	0.0000	29.4000	0.00	0.709	-
1	0.125	0.0000	9.4951	9.4951	0.5049	28.8951	1.72	0.680	0.2290
2	0.25	0.0000	9.4096	9.4096	0.5904	28.8096	2.01	0.675	0.0233
3	0.50	0.0000	9.2714	9.2714	0.7286	28.6714	2.48	0.667	0.0188
4	1.00	0.0000	9.0804	9.0804	0.9196	28.4804	3.13	0.655	0.0130
5	2.00	0.0000	8.8367	8.8367	1.1633	28.2367	3.96	0.641	0.0083
6	4.00	0.0000	8.5403	8.5403	1.4597	27.9403	4.96	0.624	0.0050
7	8.00	0.0000	7.7908	7.7908	2.2092	27.1908	7.51	0.580	0.0064
8	16.00	0.0000	6.5052	6.5052	3.4948	25.9052	11.89	0.506	0.0055
9	32.00	0.0000	4.6834	4.6834	5.3166	24.0834	18.08	0.400	0.0039
10	64.00	0.0000	2.3255	2.3255	7.6745	21.7255	26.10	0.263	0.0025
11	32.00	0.0000	2.3768	2.3768	7.6232	21.7768	25.93	0.266	0.0001
12	16.00	0.0000	2.4504	2.4504	7.5496	21.8504	25.68	0.270	0.0002
13	8.00	0.0000	2.5464	2.5464	7.4536	21.9464	25.35	0.276	0.0004
14	4.00	0.0000	2.6647	2.6647	7.3353	22.0647	24.95	0.282	0.0010
15	2.00	0.0000	2.8053	2.8053	7.1947	22.2053	24.47	0.291	0.0024
16	1.00	0.0000	2.9683	2.9683	7.0317	22.3683	23.92	0.300	0.0055
17	0.50	0.0000	3.1536	3.1536	6.8464	22.5536	23.29	0.311	0.0126
18	0.25	0.0000	3.3613	3.3613	6.6387	22.7613	22.58	0.323	0.0283

Date: 2021-08-04 Time: 08:30 Tested by: -

Notes:

P'_c [kg/cm ²]	C_c [-]	C_s [-]
14.60	0.455	0.026

Loading steps

Test data

One-Dimensional Consolidation - Test Data

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 2.0 [m]
Location: Location	USCS: CL-ML
Proj. No.: Project code	Sample: Undisturbed

Step	1
P [kg/cm ²]	0.50
Status	Loading
ΔH [mm]	0.0180

No.	Time [min]	Dial		Δh [mm]	H [mm]	ε [%]	e [-]
		d	d _c				
0	0.00	0.0180	0.0000	0.0000	20.1000	0.00	0.622
1	0.10	0.0210	0.0030	0.0030	20.0970	0.01	0.622
2	0.17	0.0230	0.0050	0.0050	20.0950	0.02	0.622
3	0.25	0.0250	0.0070	0.0070	20.0930	0.03	0.621
4	0.50	0.0290	0.0110	0.0110	20.0890	0.05	0.621
5	1.00	0.0350	0.0170	0.0170	20.0830	0.08	0.621
6	2.00	0.0410	0.0230	0.0230	20.0770	0.11	0.620
7	4.00	0.0490	0.0310	0.0310	20.0690	0.15	0.619
8	8.00	0.0580	0.0400	0.0400	20.0600	0.20	0.619
9	15.0	0.0660	0.0480	0.0480	20.0520	0.24	0.618
10	30.0	0.0750	0.0570	0.0570	20.0430	0.28	0.617
11	60.0	0.0860	0.0680	0.0680	20.0320	0.34	0.616
12	120.0	0.0950	0.0770	0.0770	20.0230	0.38	0.616
13	240.0	0.1070	0.0890	0.0890	20.0110	0.44	0.615
14	480.0	0.1150	0.0970	0.0970	20.0030	0.48	0.614
15	1440.0	0.1240	0.1060	0.1060	19.9940	0.53	0.613

Method	log (time)
C _v [cm ² /min]	0.0110
C _α [-]	0.0015

r _i [%]	2.8
r _p [%]	89.4
r _s [%]	7.8

Step	2
P [kg/cm ²]	1.00
Status	Loading
ΔH [mm]	0.0240

No.	Time [min]	Dial		Δh [mm]	H [mm]	ε [%]	e [-]
		d	d _c				
0	0.00	0.1300	0.1060	0.0000	19.9940	0.53	0.613
1	0.10	0.1570	0.1330	0.0270	19.9670	0.66	0.611
2	0.17	0.1630	0.1390	0.0330	19.9610	0.69	0.611
3	0.25	0.1670	0.1430	0.0370	19.9570	0.71	0.610
4	0.50	0.1740	0.1500	0.0440	19.9500	0.75	0.610
5	1.00	0.1880	0.1640	0.0580	19.9360	0.82	0.609
6	2.00	0.2090	0.1850	0.0790	19.9150	0.92	0.607
7	4.00	0.2320	0.2080	0.1020	19.8920	1.03	0.605
8	8.00	0.2600	0.2360	0.1300	19.8640	1.17	0.603
9	15.0	0.2840	0.2600	0.1540	19.8400	1.29	0.601
10	30.0	0.3110	0.2870	0.1810	19.8130	1.43	0.599
11	60.0	0.3320	0.3080	0.2020	19.7920	1.53	0.597
12	120.0	0.3490	0.3250	0.2190	19.7750	1.62	0.596
13	240.0	0.3640	0.3400	0.2340	19.7600	1.69	0.595
14	480.0	0.3750	0.3510	0.2450	19.7490	1.75	0.594
15	1440.0	0.3840	0.3600	0.2540	19.7400	1.79	0.593

Method	log (time)
C _v [cm ² /min]	0.0277
C _α [-]	0.0016

r _i [%]	0.0
r _p [%]	91.4
r _s [%]	8.6

One-Dimensional Consolidation - Test Data

Project: Sample	BH/TP: TP-01
Client: Client	Depth: 5.0 [m]
Location: Location	USCS: CL
Proj. No.: Project code	Sample: Undisturbed

Step	13
P [kg/cm ²]	8.00
Status	Unloading
ΔH [mm]	0.0000

No.	Time [min]	Dial		Δh [mm]	H [mm]	ε [%]	e [-]
		d	d _c				
0	0.00	2.4504	2.4504	0.0000	21.8504	25.68	0.270
1	1440.0	2.5464	2.5464	-0.0960	21.9464	25.35	0.276

Method	-
C _v [cm ² /min]	-
C _α [-]	-

r _i [%]	-
r _p [%]	-
r _s [%]	-

Step	14
P [kg/cm ²]	4.00
Status	Unloading
ΔH [mm]	0.0000

No.	Time [min]	Dial		Δh [mm]	H [mm]	ε [%]	e [-]
		d	d _c				
0	0.00	2.5464	2.5464	0.0000	21.9464	25.35	0.276
1	0.09	2.5517	2.5517	-0.0053	21.9517	25.33	0.276
2	0.25	2.5551	2.5551	-0.0087	21.9551	25.32	0.276
3	0.49	2.5582	2.5582	-0.0118	21.9582	25.31	0.276
4	1.00	2.5625	2.5625	-0.0161	21.9625	25.30	0.277
5	4.00	2.5786	2.5786	-0.0323	21.9786	25.24	0.277
6	9.00	2.5938	2.5938	-0.0474	21.9938	25.19	0.278
7	16.0	2.6090	2.6090	-0.0626	22.0090	25.14	0.279
8	25.0	2.6228	2.6228	-0.0765	22.0228	25.09	0.280
9	36.0	2.6285	2.6285	-0.0822	22.0285	25.07	0.280
10	64.0	2.6375	2.6375	-0.0911	22.0375	25.04	0.281
11	100.0	2.6440	2.6440	-0.0976	22.0440	25.02	0.281
12	225.0	2.6510	2.6510	-0.1047	22.0510	25.00	0.282
13	484.0	2.6566	2.6566	-0.1103	22.0566	24.98	0.282
14	1444.0	2.6647	2.6647	-0.1183	22.0647	24.95	0.282

Method	sqrt (time)
C _v [cm ² /min]	0.0260
C _α [-]	-0.0011

r _i [%]	0.7
r _p [%]	78.8
r _s [%]	20.5