

HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: L. Chabot Enterprise Ltd. 25002 Hazelridge Road Oakbank, MB. R5N 0E9	PROJECT NO. 137-2302 TEST NO.: 2 LAB NO.: HM 336
ATTENTION: Rajinder Singh	
PROJECT: Alexander Lagoon	

Date Sampled: 18-Jul-23	Date Received: 18-Jul-23	Sampled By: Client
Test Started: 19-Jul-23	Test Ended: 11-Aug-23	Sample ID: ST 3 (Phase 1)

Test Result

Corrected Saturated Hydraulic Conductivity, Ks (cm/sec) 6.11×10^{-9}

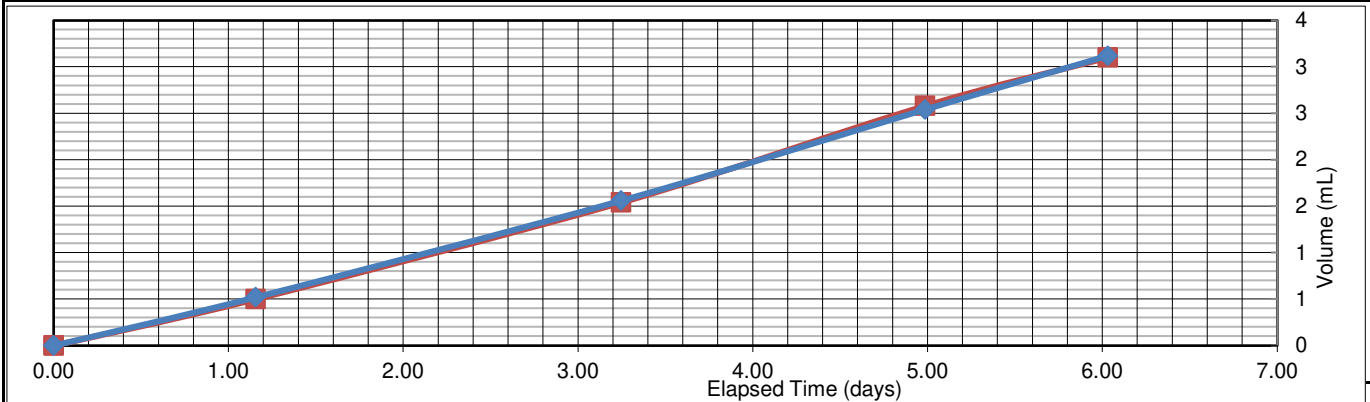
Consolidation Data

	Avg. Height (m)	Avg. Diameter (m)	Moisture Content %	Degree of Saturation %	Cell Pressure kPa	Back Pressure kPa
Initial	0.088	0.072	26.1	95.6	107.0	75.0
Final	0.090	0.073	33.3	103.5	107.0	75.0

Permeation Data

Time Increment (Days)	Elapsed Time (Days)	Q (ml)		In/Out Ratio	Average Flow (ml)	Temperature Correction	Corrected Conductivity, Ks (m/s)
		In	Out				
1.16	1.16	0.52	0.50	1.040	0.51	0.94	5.22E-11
2.09	3.25	1.04	1.04	1.000	1.04	0.95	5.96E-11
1.74	4.99	0.98	1.04	0.942	1.01	0.95	6.95E-11
1.05	6.03	0.58	0.52	1.115	0.55	0.95	6.30E-11

Permeant: De-aired tap water Hydraulic Gradient: 23.31



Comments

Specific gravity of soil was assumed to be 2.75

Remarks: Test Method: ASTM D5084 (Constant Head)

Technician: PB

Reviewed by: Paul Bevel

HYDRAULIC CONDUCTIVITY TEST REPORT

CLIENT: L. Chabot Enterprise Ltd. 25002 Hazelridge Road Oakbank, MB. R5N 0E9	PROJECT NO. 137-2302 TEST NO.: 1 LAB NO.: HM 336
ATTENTION: Rajinder Singh	
PROJECT: Alexander Lagoon	

Date Sampled: 18-Jul-23	Date Received: 18-Jul-23	Sampled By: Client
Test Started: 19-Jul-23	Test Ended: 12-Aug-23	Sample ID: ST 2 (Phase 1)

Test Result

Corrected Saturated Hydraulic Conductivity, Ks (cm/sec) 3.41×10^{-9}

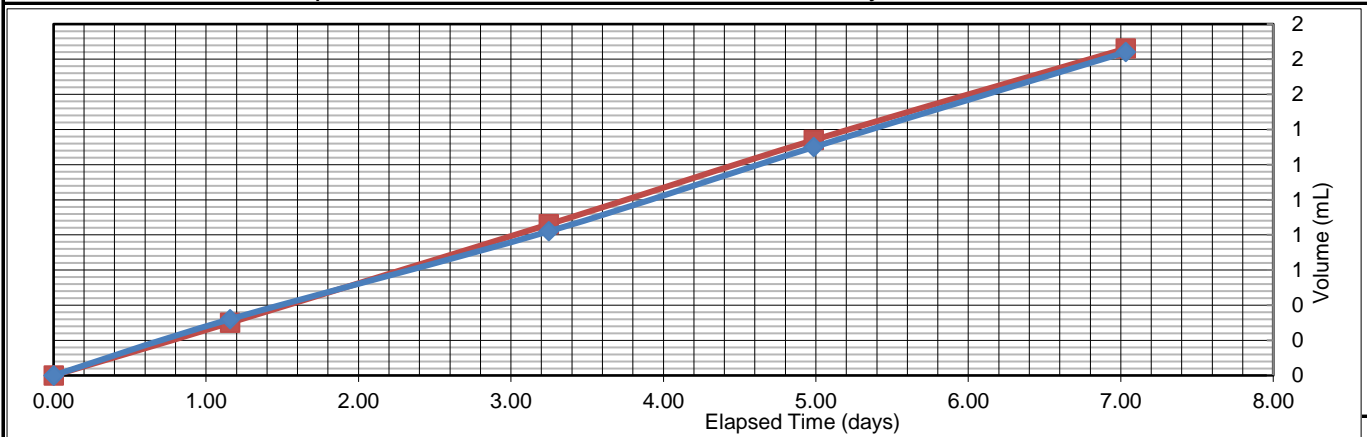
Consolidation Data

	Avg. Height (m)	Avg. Diameter (m)	Moisture Content %	Degree of Saturation %	Cell Pressure kPa	Back Pressure kPa
Initial	0.093	0.073	23.9	91.1	126.0	76.0
Final	0.094	0.073	28.9	102.6	126.0	76.0

Permeation Data

Time Increment (Days)	Elapsed Time (Days)	Q (ml)		In/Out Ratio	Average Flow (ml)	Temperature Correction	Corrected Conductivity, Ks (m/s)
		In	Out				
1.16	1.16	0.32	0.30	1.067	0.31	0.94	3.43E-11
2.09	3.25	0.50	0.56	0.893	0.53	0.95	3.28E-11
1.74	4.99	0.48	0.48	1.000	0.48	0.95	3.57E-11
2.05	7.03	0.54	0.52	1.038	0.53	0.95	3.36E-11

Permeant: De-aired tap water Hydraulic Gradient: 21.56



Comments

Specific gravity of soil was assumed to be 2.75

Remarks: Test Method: ASTM D5084 (Constant Head)

Technician: PB

Reviewed by: Paul Bevel

TRANSMITTAL No. 22-0429-002-0037
PROJECT: 22-0429-002 RM of Alexander Lagoon - Tendering & CA Services

TO: Bruce Webb
Environment and Climate
1007 Century Street
Winnipeg MB R3H 0W4

FROM: Tristan Dowse-Eldridge
KGS Group

DATE: August 15, 2023

SUBJECT: RM Alexander Lagoon - Hydraulic Conductivity Test Report 1 and 2

SUBMITTED FOR: Approval Review And Comment
 As Requested Your Use

SENT VIA: Email

DOCUMENT	DESCRIPTION	STATUS
Hydraulic Conductivity Test Report 1	RM of Alexander Lagoon [Aug 15, 2023]	Issued for Use
Hydraulic Conductivity Test Report 2	RM of Alexander Lagoon [Aug 15, 2023]	Issued for Use

REMARKS: Dear Bruce Webb,

Please find the attached documents with the associated information listed on the transmittal.

Should you have any questions, please contact me at our office.

Regards,

Tristan Dowse-Eldridge

SENT BY: Khrystyna Vachynych [Document Control]

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Andrea Mattice
Harman Mallhi