

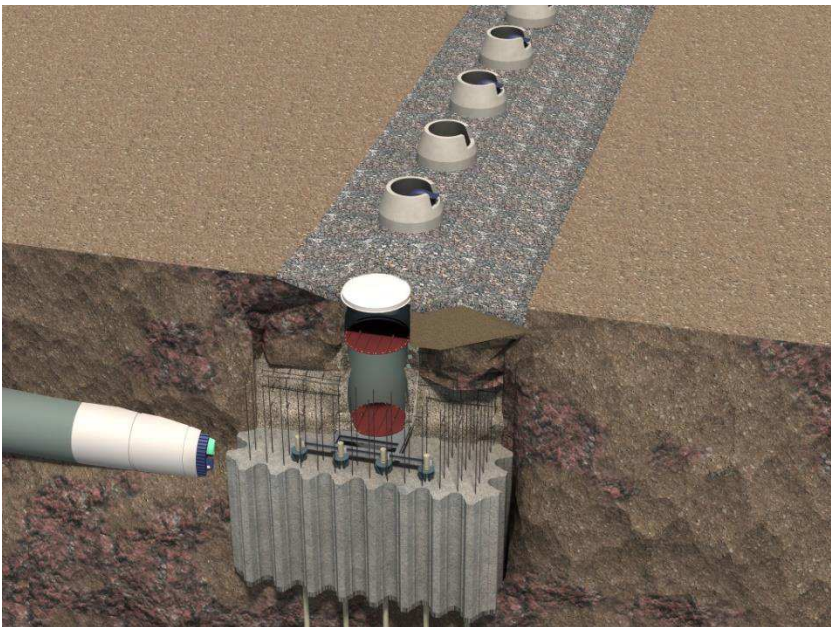
APPENDIX B GEOTECHNICAL REPORTS

B.1: Geotechnical Data Report

Part F: Appendix D

Annacis Island WWTP New Outfall System

Vancouver Fraser Port Authority
Project and Environmental Review Application



 **metrovancover**
SERVICES AND SOLUTIONS FOR
A LIVABLE REGION

**CDM
Smith**

 **Golder
Associates**

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APPENDIX D

CPT Pore Pressure Dissipation Tests

The cone penetration test is halted at specific depths to carry out pore pressure dissipation (PPD) tests, shown in Figure PPD-1. For each dissipation test the cone and rods are decoupled from the rig and the data acquisition system measures and records the variation of the pore pressure (u) with time (t).

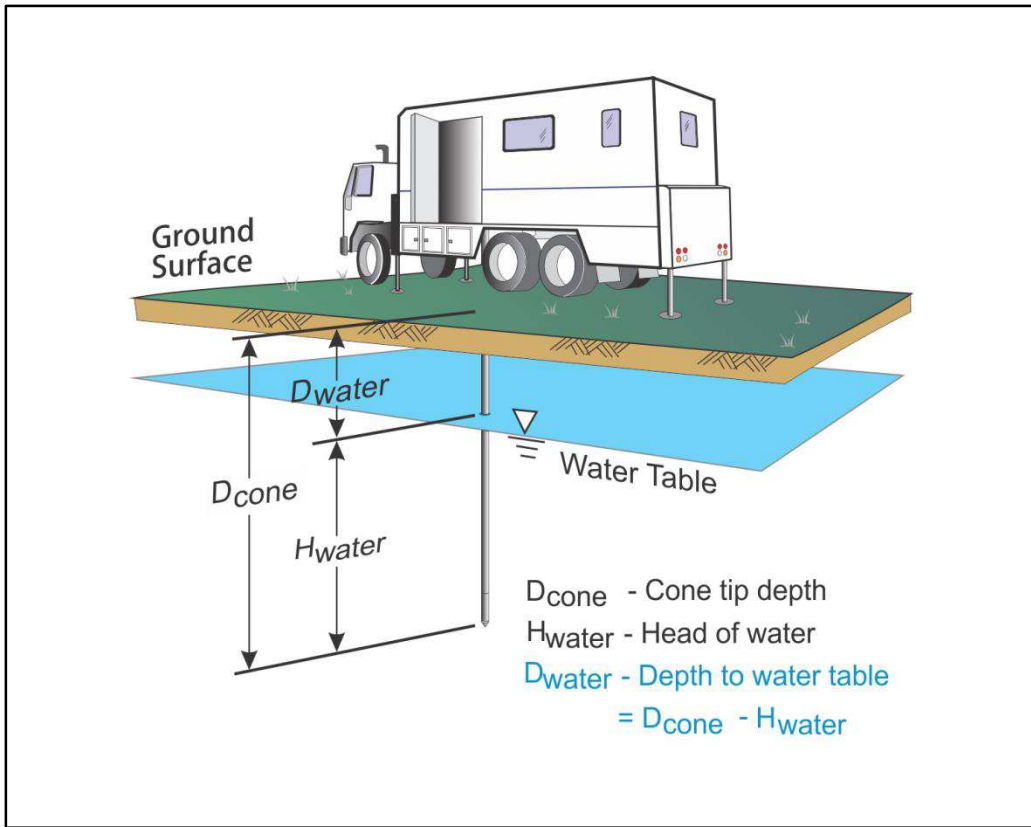


Figure PPD-1. Pore pressure dissipation test setup

Pore pressure dissipation data can be interpreted to provide estimates of ground water conditions, permeability, consolidation characteristics and soil behaviour.

The typical shapes of dissipation curves shown in Figure PPD-2 are very useful in assessing soil type, drainage, in situ pore pressure and soil properties. A flat curve that stabilizes quickly is typical of a freely draining sand. Undrained soils such as clays will typically show positive excess pore pressure and have long dissipation times. Dilative soils will often exhibit dynamic pore pressures below equilibrium that then rise over time. Overconsolidated fine-grained soils will often exhibit an initial dilatory response where there is an initial rise in pore pressure before reaching a peak and dissipating.

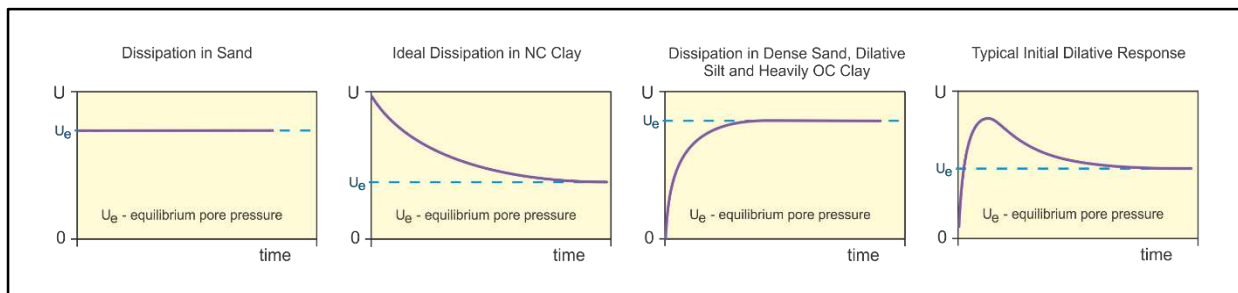


Figure PPD-2. Pore pressure dissipation curve examples

In order to interpret the equilibrium pore pressure (u_{eq}) and the apparent phreatic surface, the pore pressure should be monitored until such time as there is no variation in pore pressure with time as shown for each curve of Figure PPD-2.

In fine grained deposits the point at which 100% of the excess pore pressure has dissipated is known as t_{100} . In some cases this can take an excessive amount of time and it may be impractical to take the dissipation to t_{100} . A theoretical analysis of pore pressure dissipations by Teh and Houlsby (1991) showed that a single curve relating degree of dissipation versus theoretical time factor (T^*) may be used to calculate the coefficient of consolidation (c_h) at various degrees of dissipation resulting in the expression for c_h shown below.

$$c_h = \frac{T^* \cdot a^2 \cdot \sqrt{I_r}}{t}$$

Where:

- T^* is the dimensionless time factor (Table Time Factor)
- a is the radius of the cone
- I_r is the rigidity index
- t is the time at the degree of consolidation

Table Time Factor. T^* versus degree of dissipation (Teh and Houlsby, 1991)

Degree of Dissipation (%)	20	30	40	50	60	70	80
$T^* (u_2)$	0.038	0.078	0.142	0.245	0.439	0.804	1.60

The coefficient of consolidation is typically analyzed using the time (t_{50}) corresponding to a degree of dissipation of 50% (u_{50}). In order to determine t_{50} , dissipation tests must be taken to a pressure less than u_{50} . The u_{50} value is half way between the initial maximum pore pressure and the equilibrium pore pressure value, known as u_{100} . To estimate u_{50} , both the initial maximum pore pressure and u_{100} must be known or estimated. Other degrees of dissipations may be considered, particularly for extremely long dissipations.

At any specific degree of dissipation the equilibrium pore pressure (u at t_{100}) must be estimated at the depth of interest. The equilibrium value may be determined from one or more sources such as measuring the value directly (u_{100}), estimating it from other dissipations in the same profile, estimating the phreatic surface and assuming hydrostatic conditions, from nearby soundings, from client provided information, from site observations and/or past experience, or from other site instrumentation.

For calculations of c_h (Teh and Houlsby, 1991), t_{50} values are estimated from the corresponding pore pressure dissipation curve and a rigidity index (I_r) is assumed. For curves having an initial dilatatory response in which an initial rise in pore pressure occurs before reaching a peak, the relative time from the peak value is used in determining t_{50} . In cases where the time to peak is excessive, t_{50} values are not calculated.

Due to possible inherent uncertainties in estimating I_r , the equilibrium pore pressure and the effect of an initial dilatatory response on calculating t_{50} , other methods should be applied to confirm the results for c_h .

Additional published methods for estimating the coefficient of consolidation from a piezocone test are described in Burns and Mayne (1998, 2002), Jones and Van Zyl (1981), Robertson et al. (1992) and Sully et al. (1999).

A summary of the pore pressure dissipation tests and dissipation plots are presented in the relevant appendix.

References

Burns, S.E. and Mayne, P.W., 1998, "Monotonic and dilatatory pore pressure decay during piezocone tests", Canadian Geotechnical Journal 26 (4): 1063-1073.

Burns, S.E. and Mayne, P.W., 2002, "Analytical cavity expansion-critical state model cone dissipation in fine-grained soils", Soils & Foundations, Vol. 42(2): 131-137.

Jones, G.A. and Van Zyl, D.J.A., 1981, "The piezometer probe: a useful investigation tool", Proceedings, 10th International Conference on Soil Mechanics and Foundation Engineering, Vol. 3, Stockholm: 489-495.

Robertson, P.K., Sully, J.P., Woeller, D.J., Lunne, T., Powell, J.J.M. and Gillespie, D.G., 1992, "Estimating coefficient of consolidation from piezocone tests", Canadian Geotechnical Journal, 29(4): 551-557.

Sully, J.P., Robertson, P.K., Campanella, R.G. and Woeller, D.J., 1999, "An approach to evaluation of field CPTU dissipation data in overconsolidated fine-grained soils", Canadian Geotechnical Journal, 36(2): 369-381.

Teh, C.I., and Houlsby, G.T., 1991, "An analytical study of the cone penetration test in clay", Geotechnique, 41(1): 17-34.

Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots



Job No: 15-02048
 Client: Golder Associates Ltd.
 Project: AIWWTP Transient Mitigation and Outfall System
 Start Date: 02-Jul-2015
 End Date: 15-Jul-2015

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	C _h ^b (cm ² /min)
CPT15-04	15-02048_CP04	15	300	10.15	6.7	3.5				
CPT15-04	15-02048_CP04	15	300	20.15	16.7	3.5				
CPT15-04	15-02048_CP04	15	300	26.15	22.4	3.8				
CPT15-04	15-02048_CP04	15	600	30.15	26.7	3.5				
CPT15-04	15-02048_CP04	15	310	30.65	27.1	3.6				
CPT15-04	15-02048_CP04	15	1150	30.70	27.0	3.7				
SCPT15-06	15-02048_SP06	15	350	10.10	7.1	3.0				
SCPT15-06	15-02048_SP06	15	350	20.10	17.1	3.0				
SCPT15-06	15-02048_SP06	15	400	30.15	27.2	3.0				
SCPT15-06	15-02048_SP06	15	400	38.15	35.1	3.1				
SCPT15-06	15-02048_SP06	15	400	48.70	45.5	3.3				
CPT15-15	15-02048_CP15	15	300	10.05	7.2	2.8				
CPT15-15	15-02048_CP15	15	300	22.05	19.3	2.8				
CPT15-15	15-02048_CP15	15	300	35.05	32.2	2.8				
CPT15-15	15-02048_CP15	15	900	43.40	Not Achieved		2.8	23	100	30.3
CPT15-15	15-02048_CP15	15	600	49.30	Not Achieved		2.8	417	100	1.7
CPT15-15	15-02048_CP15	15	600	51.00	Not Achieved		2.8	355	100	2.0
CPT15-15	15-02048_CP15	15	600	53.45	Not Achieved		2.8	406	100	1.7
CPT15-15	15-02048_CP15	15	600	55.00	Not Achieved		2.8	456	100	1.5



Job No: 15-02048
 Client: Golder Associates
 Project: AIWWTP Transient Mitigation and Outfall System
 Start Date: 16-Sep-2015
 End Date: 17-Sep-2015

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	c _h ^b (cm ² /min)
SCPT15-01	15-02048_SP01	15	295	7.125	17.3	-10.1				
SCPT15-01	15-02048_SP01	15	700	16.075	26.6	-10.5				
SCPT15-01	15-02048_SP01	15	300	23.600	33.7	-10.1				
SCPT15-01	15-02048_SP01	15	600	31.100	Not Achieved		-10.1	517	100	1.4
SCPT15-01	15-02048_SP01	15	500	34.275	42.9	-8.6				
CPT15-02	15-02048_CP02	15	210	2.150	8.5	-6.3				
CPT15-02	15-02048_CP02	15	300	11.625	17.3	-5.7				
CPT15-02	15-02048_CP02	15	590	19.650	25.4	-5.7				
CPT15-02	15-02048_CP02	15	700	31.850	Not Achieved		-5.7	462	100	1.5
CPT15-02	15-02048_CP02	15	900	35.025	Not Achieved		-5.7	647	100	1.1
SCPT15-11	15-02048_SP11	15	200	7.525	19.3	-11.8				
SCPT15-11	15-02048_SP11	15	670	15.700	27.7	-12.0				
SCPT15-11	15-02048_SP11	15	500	27.575	Not Achieved		-12.0	117	100	6.0
SCPT15-11	15-02048_SP11	15	400	31.900	Not Achieved		-12.0	121	100	5.8
SCPT15-11	15-02048_SP11	15	400.00	37.975	Not Achieved		-12.0	134	100.0	5.2
CPT15-12	15-02048_CP12	15	200	7.475	15.2	-7.7				
CPT15-12	15-02048_CP12	15	200	16.025	24.0	-8.0				
CPT15-12	15-02048_CP12	15	600	30.900	Not Achieved		-8.0	277	100	2.5
CPT15-12	15-02048_CP12	15	400	36.075	Not Achieved		-8.0	187	100	3.8



Job No: 15-02048
Client: Golder Associates
Project: AIWWTP Transient Mitigation and Outfall System
Start Date: 16-Sep-2015
End Date: 17-Sep-2015

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	c _h ^b (cm ² /min)
CPT15-12	15-02048_CP12	15	300	45.000	Not Achieved		-8.0	64	100	11.1

a. Time is relative to where u_{max} occurred

b. Houlsby and Teh, 1991



Job No: 15-02048.04
 Client: Golder Associates Ltd.
 Project: AIWWTP Transient Mitigation and Outfall System
 Start Date: 03-Oct-2015
 End Date: 04-Oct-2015

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	C _n ^b (cm ² /min)
CPT15-03	15-02048_CP03	15	300	7.15	3.0	4.2				
CPT15-03	15-02048_CP03	15	705	13.30	8.9	4.4				
CPT15-03	15-02048_CP03	15	300	28.95	24.0	5.0				
SCPT15-13	15-02048_SP13	15	300	6.00	2.0	4.0				
SCPT15-13	15-02048_SP13	15	300	13.00	8.8	4.2				
SCPT15-13	15-02048_SP13	15	1115	25.00	20.3	4.7				
SCPT15-13	15-02048_SP13	15	1135	25.10	20.4	4.7				
SCPT15-13	15-02048_SP13	15	350	34.30	29.2	5.1				
SCPT15-13	15-02048_SP13	15	650	43.00	39.0	Not Achieved	5.1	26	100	27.4
SCPT15-13	15-02048_SP13	15	620	50.30	46.3	Not Achieved	5.1	337	100	2.1
SCPT15-13	15-02048_SP13	15	905	55.30	51.3	Not Achieved	5.1	483	100	1.5

a. Time is relative to where u_{max} occurred

b. Hously and Teh, 1991



Job No: 15-02048.08
 Client: Golder Associates Ltd.
 Project: AIWWTP Transient Mitigation and Outfall System
 Start Date: 20-Mar-2016
 End Date: 24-Mar-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	C _h ^b (cm ² /min)
SCPT16-01	15-02048_SP01	15	250	5.65	1.0	4.7				
SCPT16-01	15-02048_SP01	15	300	5.75	Not Achieved		4.7	180	100	3.90
SCPT16-01	15-02048_SP01	15	300	12.10	6.9	5.2				
SCPT16-01	15-02048_SP01	15	300	20.10	15.0	5.1				
SCPT16-01	15-02048_SP01	15	305	30.10	25.1	5.0				
SCPT16-01	15-02048_SP01	15	300	40.10	35.1	5.0				
SCPT16-01	15-02048_SP01	15	250	42.30	37.2	5.1				
SCPT16-01	15-02048_SP01	15	450	50.10	45.0	5.1				
SCPT16-01	15-02048_SP01	15	305	53.10	Not Achieved		4.7	96	100	7.31
SCPT16-01	15-02048_SP01	15	550	56.60	Not Achieved		4.7	515	100	1.36
SCPT16-01	15-02048_SP01	15	700	60.10	Not Achieved		4.7	612	100	1.15
SCPT16-01	15-02048_SP01	15	250	64.10	Not Achieved		4.7	190	100	3.70
SCPT16-01	15-02048_SP01	15	450	69.40	Not Achieved		4.7	338	100	2.08
SCPT16-01	15-02048_SP01	15	400	74.25	Not Achieved		4.7	338	100	2.08
SCPT16-01	15-02048_SP01	15	855	78.00	Not Achieved		4.7	844	100	0.83
SCPT16-02	15-02048_SP02	15	360	3.50	Not Achieved		3.8	136	100	5.17
SCPT16-02	15-02048_SP02	15	320	10.20	6.8	3.4				
SCPT16-02	15-02048_SP02	15	300	20.10	16.8	3.3				
SCPT16-02	15-02048_SP02	15	300	30.20	26.9	3.3				
SCPT16-02	15-02048_SP02	15	300	40.10	36.8	3.3				
SCPT16-02	15-02048_SP02	15	370	40.35	37.2	3.2				
SCPT16-02	15-02048_SP02	15	300	50.10	Not Achieved		3.4	56	100	12.45
SCPT16-02	15-02048_SP02	15	700	53.10	Not Achieved		3.4	625	100	1.12
SCPT16-02	15-02048_SP02	15	700	55.00	Not Achieved		3.4	688	100	1.02
SCPT16-02	15-02048_SP02	15	855	57.50	Not Achieved		3.4	780	100	0.90
SCPT16-02	15-02048_SP02	15	1000	60.00	Not Achieved		3.4	884	100	0.79
SCPT16-03	15-02048_SP03	15	300	8.10	4.8	3.3				
SCPT16-03	15-02048_SP03	15	310	20.10	16.7	3.4				
SCPT16-03	15-02048_SP03	15	550	30.10	26.9	3.2				
SCPT16-03	15-02048_SP03	15	300	41.10	37.7	3.4				
SCPT16-03	15-02048_SP03	15	1000	49.10	Not Achieved		3.3	857	100	0.82
SCPT16-03	15-02048_SP03	15	750	52.10	Not Achieved		3.3	425	100	1.65
SCPT16-03	15-02048_SP03	15	400	55.00	Not Achieved		3.3	49	100	14.23
SCPT16-03	15-02048_SP03	15	700	57.00	Not Achieved		3.3	551	100	1.27
SCPT16-03	15-02048_SP03	15	515	60.10	Not Achieved		3.3	483	100	1.45



Job No: 15-02048.08
 Client: Golder Associates Ltd.
 Project: AIWWTP Transient Mitigation and Outfall System
 Start Date: 20-Mar-2016
 End Date: 24-Mar-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	C _h ^b (cm ² /min)
SCPT16-03	15-02048_SP03	15	900	63.00	Not Achieved		3.3	774	100	0.91
SCPT16-04	15-02048_SP04	15	200	3.05	Not Achieved					
SCPT16-04	15-02048_SP04	15	370	10.05	7.3	2.7				
SCPT16-04	15-02048_SP04	15	300	20.05	17.4	2.6				
SCPT16-04	15-02048_SP04	15	300	30.05	27.4	2.6				
SCPT16-04	15-02048_SP04	15	350	40.05	Not Achieved		2.7	87	100	8.06
SCPT16-04	15-02048_SP04	15	450	46.05	Not Achieved		2.7	422	100	1.66
SCPT16-04	15-02048_SP04	15	300	49.05	Not Achieved		2.7	87	100	8.08
SCPT16-04	15-02048_SP04	15	400	53.80	Not Achieved		2.7	195	100	3.61
SCPT16-04	15-02048_SP04	15	440	53.90	50.8	3.1				
SCPT16-04	15-02048_SP04	15	400	58.05	Not Achieved		2.7	196	100	3.58
SCPT16-04	15-02048_SP04	15	310	62.05	Not Achieved		2.7	111	100	6.33
SCPT16-04	15-02048_SP04	15	300	68.05	Not Achieved		2.7	204	100	3.44
SCPT16-04	15-02048_SP04	15	500	70.35	69.7	0.7		22	100	31.64
SCPT16_05	15-02048_SP05	15	300	3.15	Not Achieved		3.1	176	100	3.99
SCPT16_05	15-02048_SP05	15	300	10.00	6.9	3.1				
SCPT16_05	15-02048_SP05	15	300	16.00	13.1	2.9				
SCPT16_05	15-02048_SP05	15	300	20.00	17.2	2.8				
SCPT16_05	15-02048_SP05	15	300	30.00	27.2	2.8				
SCPT16_05	15-02048_SP05	15	300	40.00	37.3	2.7				
SCPT16_05	15-02048_SP05	15	600	50.00	Not Achieved		3.1	569	100	1.23
SCPT16_05	15-02048_SP05	15	800	52.30	Not Achieved		3.1	741	100	0.95
SCPT16_05	15-02048_SP05	15	900	55.00	Not Achieved		3.1	779	100	0.90
SCPT16_05	15-02048_SP05	15	2400	58.00	Not Achieved		3.1	2258	100	0.31
SCPT16_05	15-02048_SP05	15	7400	63.95	Not Achieved		3.1	7183	100	0.10

a. Time is relative to where u_{max} occurred

b. Housby and Teh, 1991



Job No: 16-02063
 Client: Golder Associates
 Project: Annacis Island Wastewater Treatment Plant
 Start Date: 23-Nov-2016
 End Date: 15-Dec-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	c _h ^b (cm ² /min)
SCPT16-06	16-02063_SP06	15	300	7.000	4.2	2.8				
SCPT16-06	16-02063_SP06	15	700	15.000	12.3	2.7				
SCPT16-06	16-02063_SP06	15	300	20.000	17.2	2.8				
SCPT16-06	16-02063_SP06	15	350	27.675	24.9	2.7				
SCPT16-06	16-02063_SP06	15	300	31.000	28.2	2.8				
SCPT16-06	16-02063_SP06	15	750	38.500	35.7	2.8				
SCPT16-06	16-02063_SP06	15	810	47.500	44.6	2.9				
SCPT16-06	16-02063_SP06	15	300	49.500	46.6		2.9	118	100	6.0
SCPT16-06	16-02063_SP06	15	1400	58.525	55.6		2.9	1161	100	0.6
SCPT16-06	16-02063_SP06	15	2100	62.500	59.6		2.9	1720	100	0.4
SCPT16-06	16-02063_SP06	15	400	62.650	59.8	2.8				
SCPT16-07	16-02063_SP07	15	450	3.500	0.6	2.9				
SCPT16-07	16-02063_SP07	15	300	8.500	5.6	2.9				
SCPT16-07	16-02063_SP07	15	300	13.500	10.7	2.8				
SCPT16-07	16-02063_SP07	15	300	15.825	12.9	2.9				
SCPT16-07	16-02063_SP07	15	300	23.500	20.6	2.9				
SCPT16-07	16-02063_SP07	15	350	31.500	28.7	2.8				
SCPT16-07	16-02063_SP07	15	400	39.500	36.7	2.8				
SCPT16-07	16-02063_SP07	15	605	47.500	44.5	3.0				



Job No: 16-02063
 Client: Golder Associates
 Project: Annacis Island Wastewater Treatment Plant
 Start Date: 23-Nov-2016
 End Date: 15-Dec-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	c _h ^b (cm ² /min)
SCPT16-07	16-02063_SP07	15	400	52.500	49.5		3.0	290	100	2.4
SCPT16-07	16-02063_SP07	15	605	56.500	53.5		3.0	281	100	2.5
SCPT16-07	16-02063_SP07	15	1100	60.825	57.8		3.0	925	100	0.8
SCPT16-07	16-02063_SP07	15	1500	65.825	62.8		3.0	1319	100	0.5
SCPT16-07	16-02063_SP07	15	600	66.425	63.4		3.0	518	100	1.4
SCPT16-08	16-02063_SP08	15	400	8.025	4.4	3.7				
SCPT16-08	16-02063_SP08	15	305	20.000	16.9	3.1				
SCPT16-08	16-02063_SP08	15	300	22.500	19.5	3.0				
SCPT16-08	16-02063_SP08	15	300	32.025	28.9		3.1	48	100	14.6
SCPT16-08	16-02063_SP08	15	280	33.500	30.4	3.1				
SCPT16-08	16-02063_SP08	15	800	50.000	47.1	2.9				
SCPT16-08	16-02063_SP08	15	400	56.725	53.8		2.9	55	100	12.8
SCPT16-08	16-02063_SP08	15	900	61.000	58.1		2.9	669	100	1.0
SCPT16-08	16-02063_SP08	15	1000	70.000	67.1		2.9	946	100	0.7
SCPT16-08	16-02063_SP08	15	415	76.525	Not Achieved					
SCPT16-09	16-02063_SP09	15	300	12.000	8.4	3.6				
SCPT16-09	16-02063_SP09	15	300	15.750	12.2	3.5				
SCPT16-09	16-02063_SP09	15	600	24.025	20.7	3.4				
SCPT16-09	16-02063_SP09	15	900	36.000	32.9	3.1				



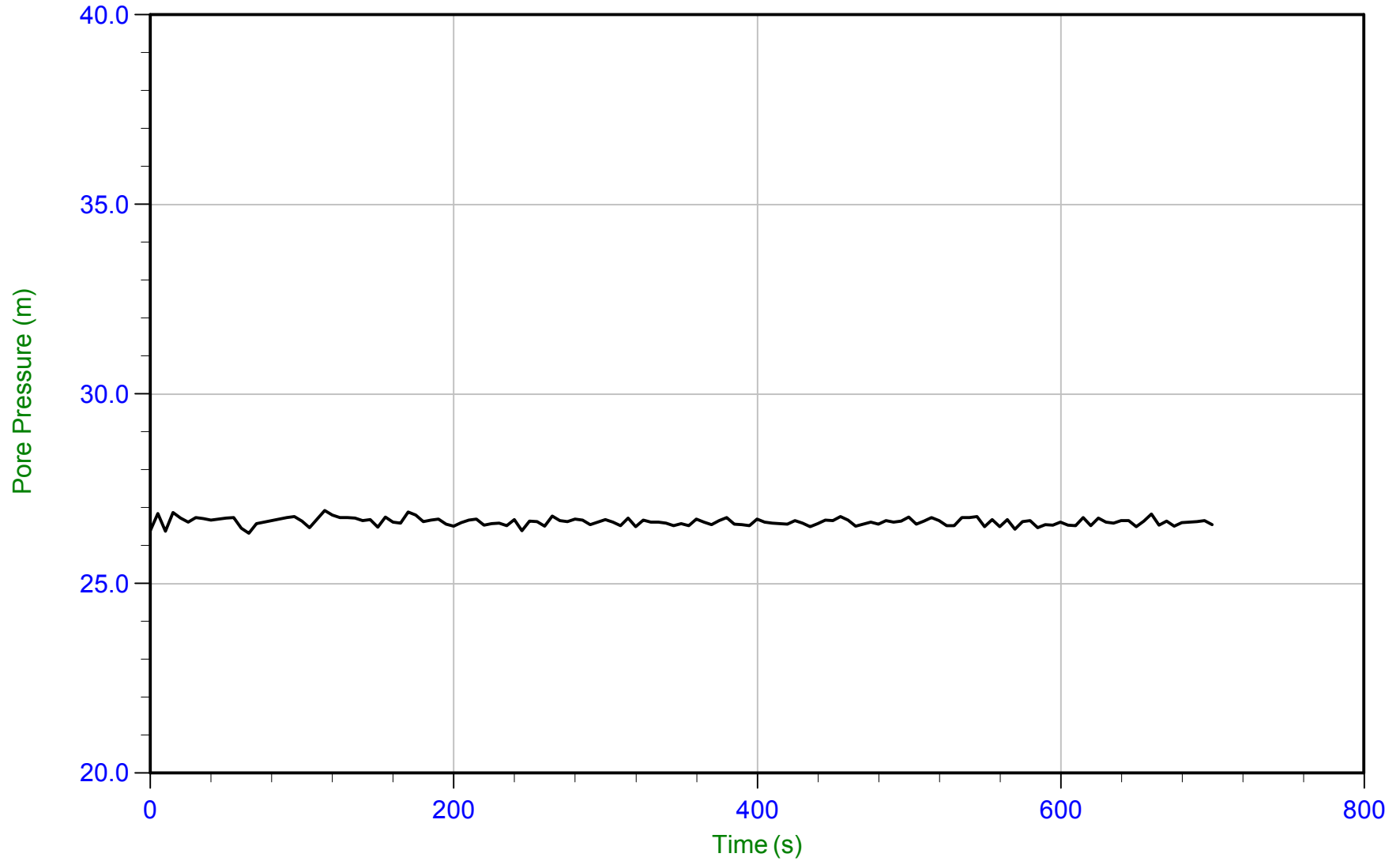
Job No: 16-02063
 Client: Golder Associates
 Project: Annacis Island Wastewater Treatment Plant
 Start Date: 23-Nov-2016
 End Date: 15-Dec-2016

CPT_u PORE PRESSURE DISSIPATION SUMMARY

Sounding ID	File Name	Cone Area (cm ²)	Duration (s)	Test Depth (m)	Estimated Equilibrium Pore Pressure U _{eq} (m)	Calculated Phreatic Surface (m)	Estimated Phreatic Surface (m)	t ₅₀ ^a (s)	Assumed Rigidity Index (I _r)	c _h ^b (cm ² /min)
SCPT16-09	16-02063_SP09	15	600	42.475	39.3		3.1	354	100	2.0
SCPT16-09	16-02063_SP09	15	800	50.000	46.9		3.1	543	100	1.3
SCPT16-09	16-02063_SP09	15	700	60.000	56.9		3.1	556	100	1.3
SCPT16-09	16-02063_SP09	15	2000	70.000	66.9		3.1	1770	100	0.4
SCPT16-09	16-02063_SP09	15	1200	73.675	70.5		3.1	951	100	0.7
SCPT16-10	16-02063_SP10	15	150	1.575	14.5	-13.0				
SCPT16-10	16-02063_SP10	15	135	2.025	15.1	-13.1				
SCPT16-10	16-02063_SP10	15	150	4.700	18.1	-13.4				
SCPT16-10	16-02063_SP10	15	300	10.225	24.6	-14.3				
SCPT16-10	16-02063_SP10	15	210	20.150	34.5	-14.4				
SCPT16-10	16-02063_SP10	15	200	26.225	Not Achieved		-14.4	16	100	44.2
SCPT16-10	16-02063_SP10	15	325	30.125	Not Achieved		-14.4	259	100	2.7
SCPT16-10	16-02063_SP10	15	850	34.200	Not Achieved		-14.4	162	100	4.3
SCPT16-10	16-02063_SP10	15	910	43.400	Not Achieved		-14.4	737	100	1.0
SCPT16-10	16-02063_SP10	15	300	51.725	Not Achieved		-14.4	64	100	11.0

a. Time is relative to where umax occurred

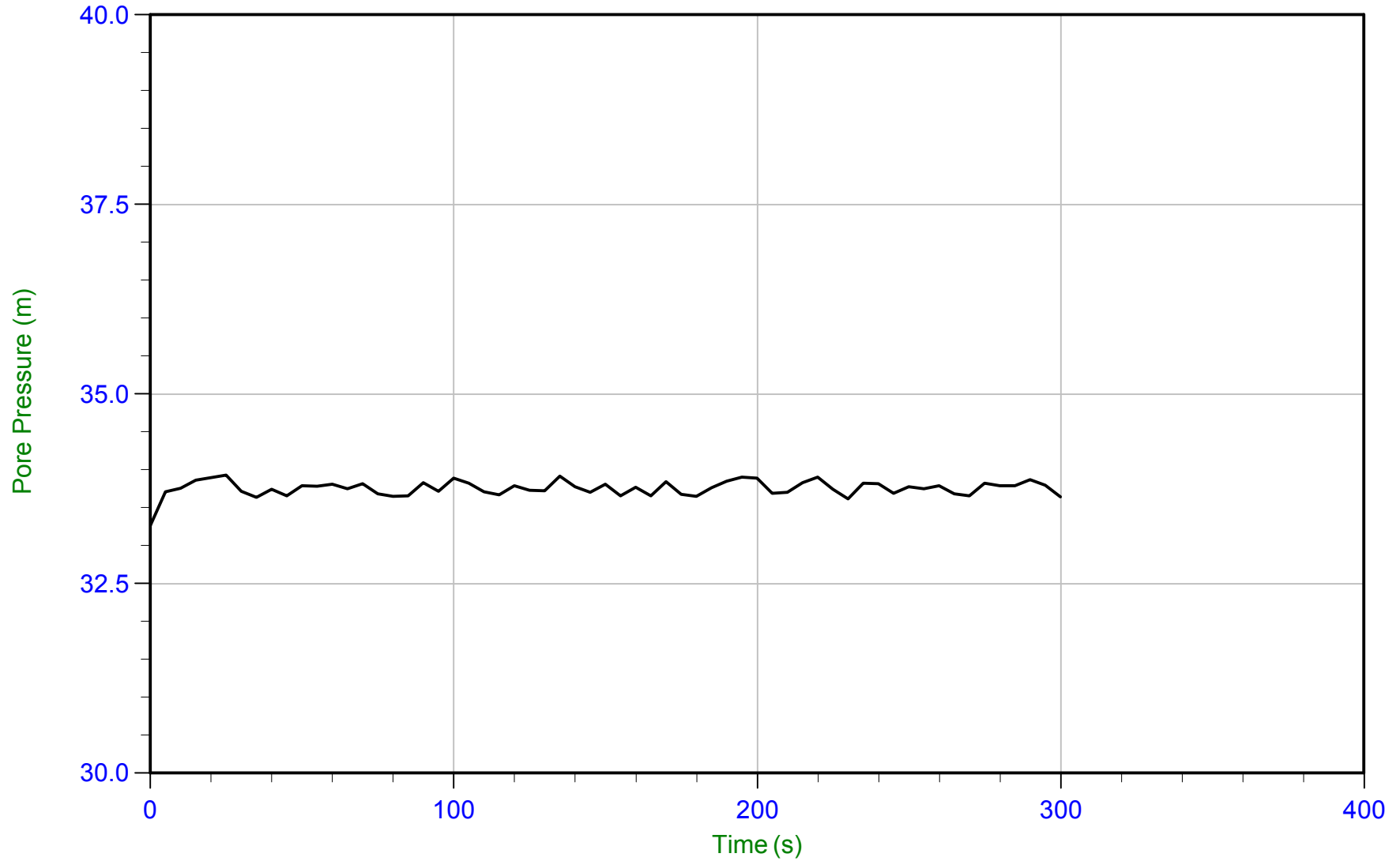
b. Hously and Teh, 1991



Trace Summary: Filename: 15-02048_SP01.PPF
Depth: 16.075 m / 52.739 ft
Duration: 700.0 s

U Min: 26.3 m
U Max: 26.9 m

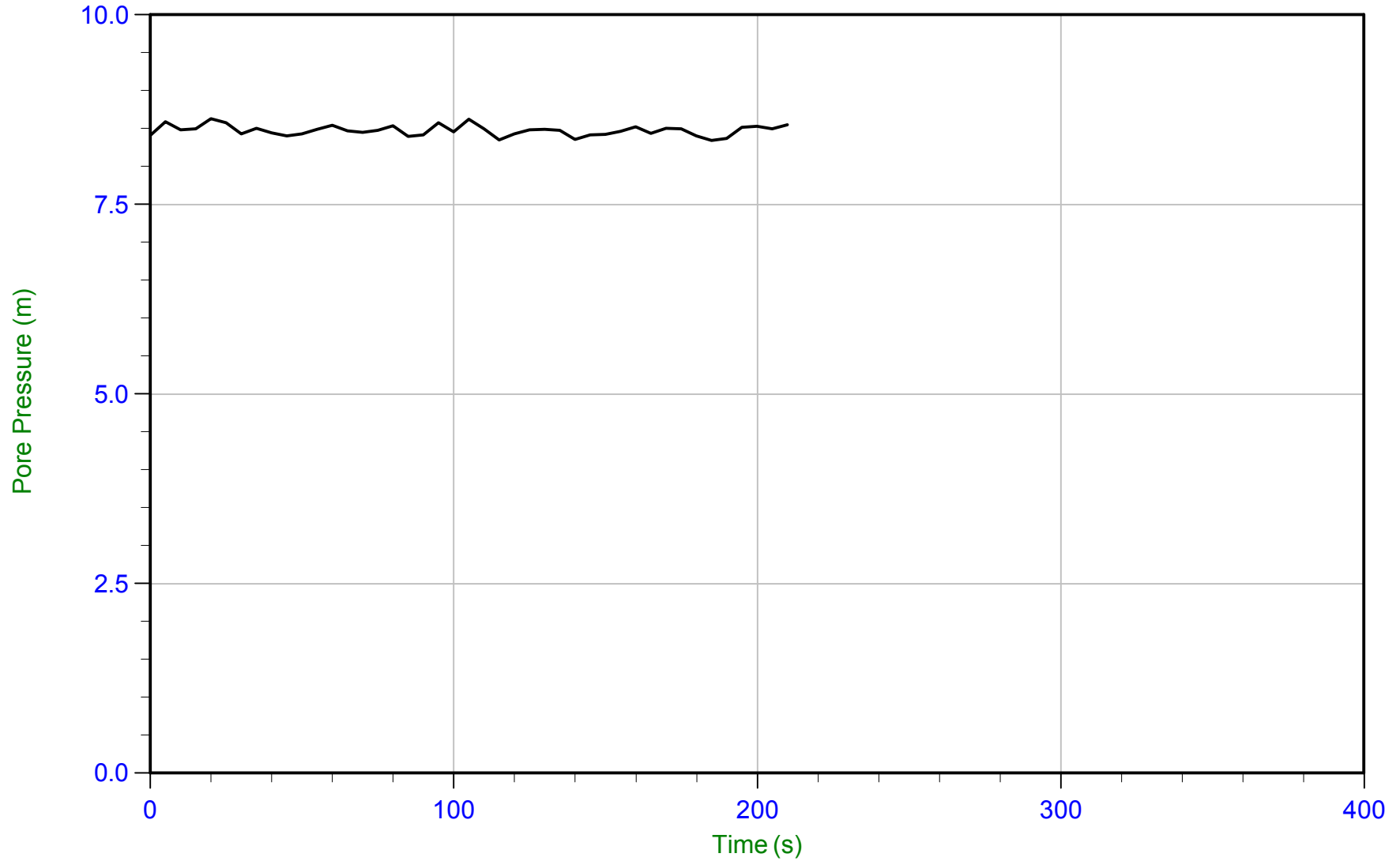
WT: -10.505 m / -34.465 ft
Ueq: 26.6 m



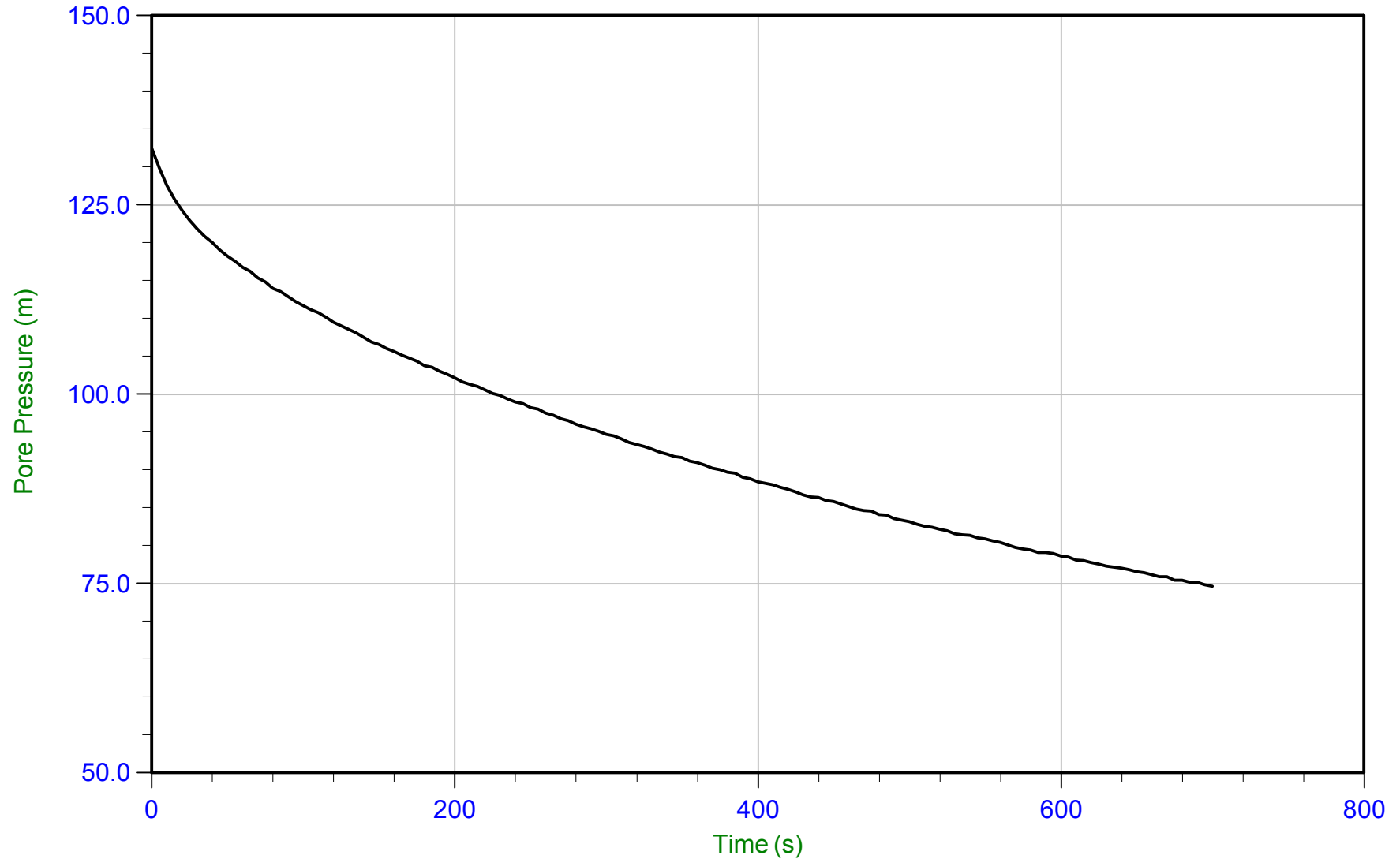
Trace Summary: Filename: 15-02048_SP01.PPF
Depth: 23.600 m / 77.427 ft
Duration: 300.0 s

U Min: 33.3 m
U Max: 33.9 m

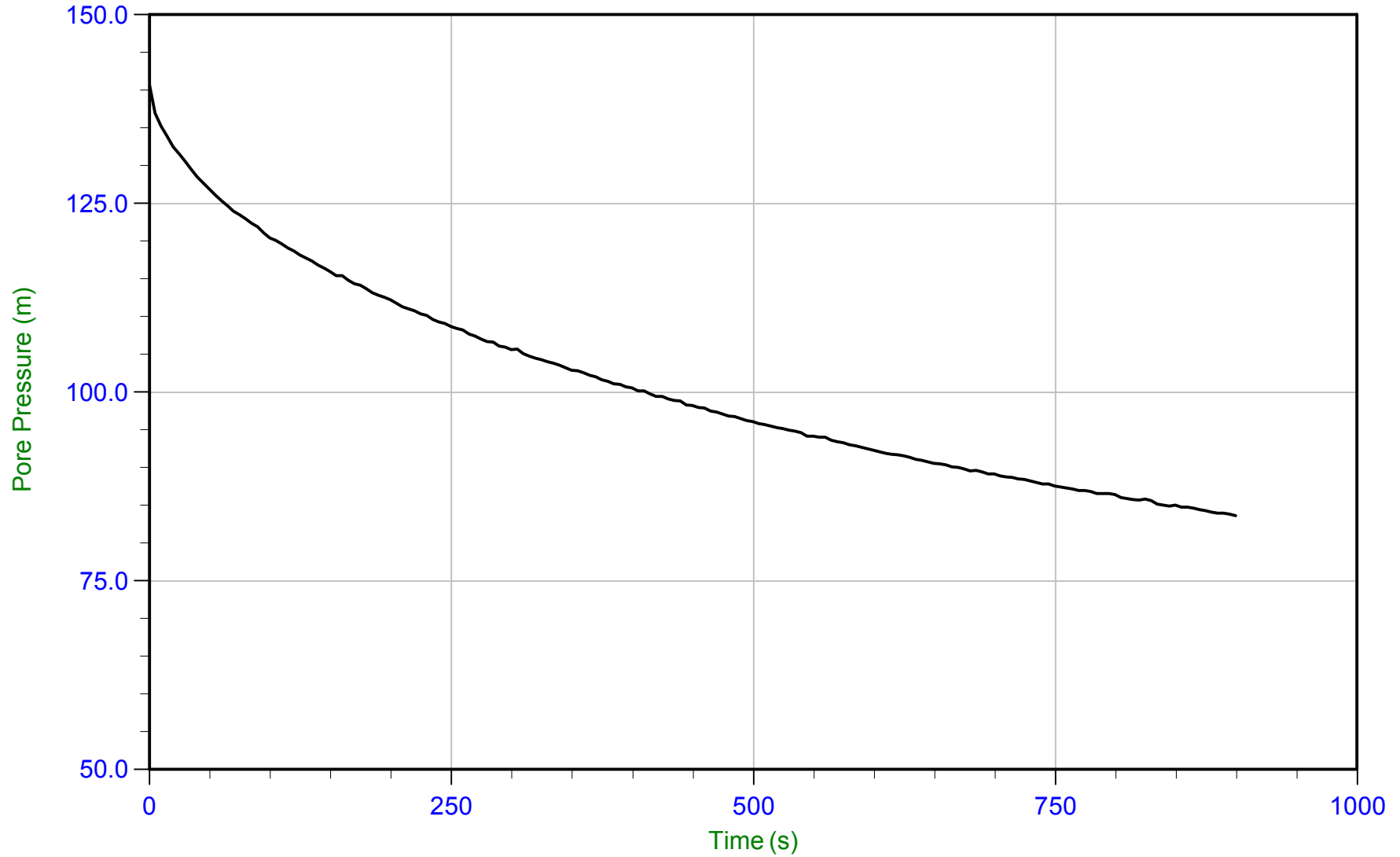
WT: -10.145 m / -33.284 ft
Ueq: 33.7 m



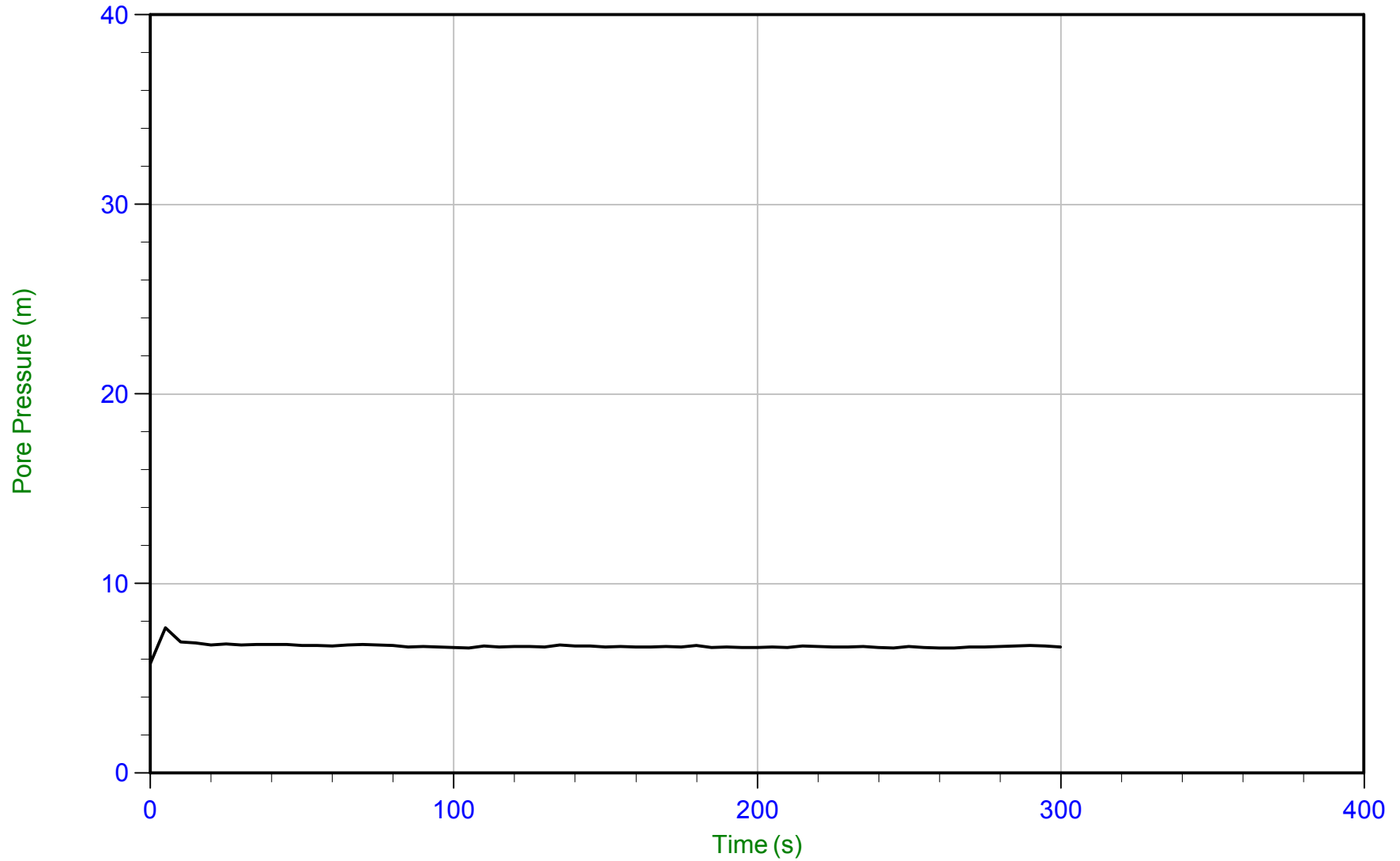
Trace Summary: Filename: 15-02048_CP02.PPF U Min: 8.3 m WT: -6.313 m / -20.712 ft
 Depth: 2.150 m / 7.054 ft U Max: 8.6 m Ueq: 8.5 m
 Duration: 210.0 s



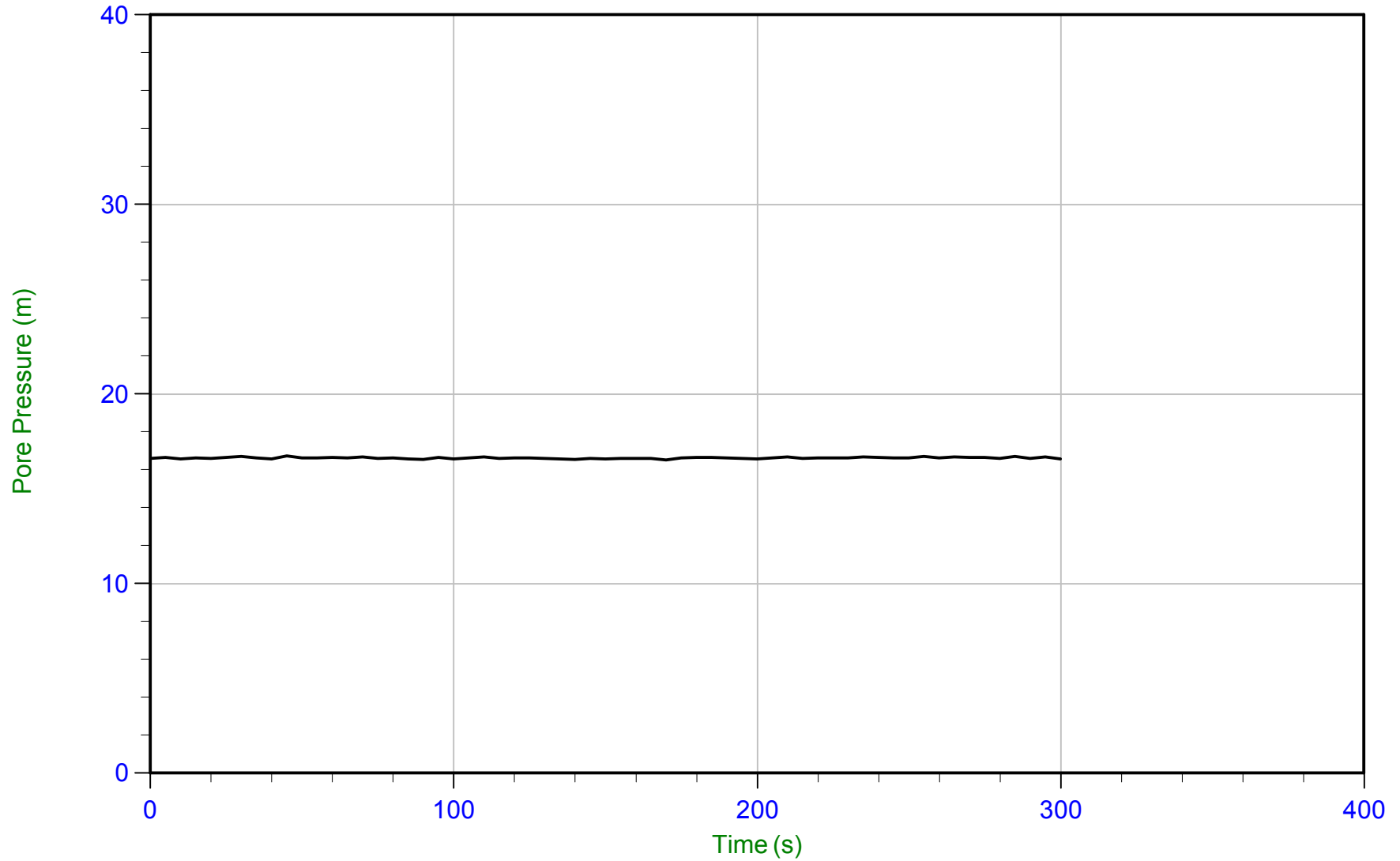
Trace Summary:	Filename: 15-02048_CP02.PPF	U Min: 74.6 m	WT: -5.700 m / -18.701 ft	T(50): 462.1 s
	Depth: 31.850 m / 104.493 ft	U Max: 132.5 m	Ueq: 37.5 m	Ir: 100
	Duration: 700.0 s		U(50): 85.03 m	Ch: 1.5 sq cm/min



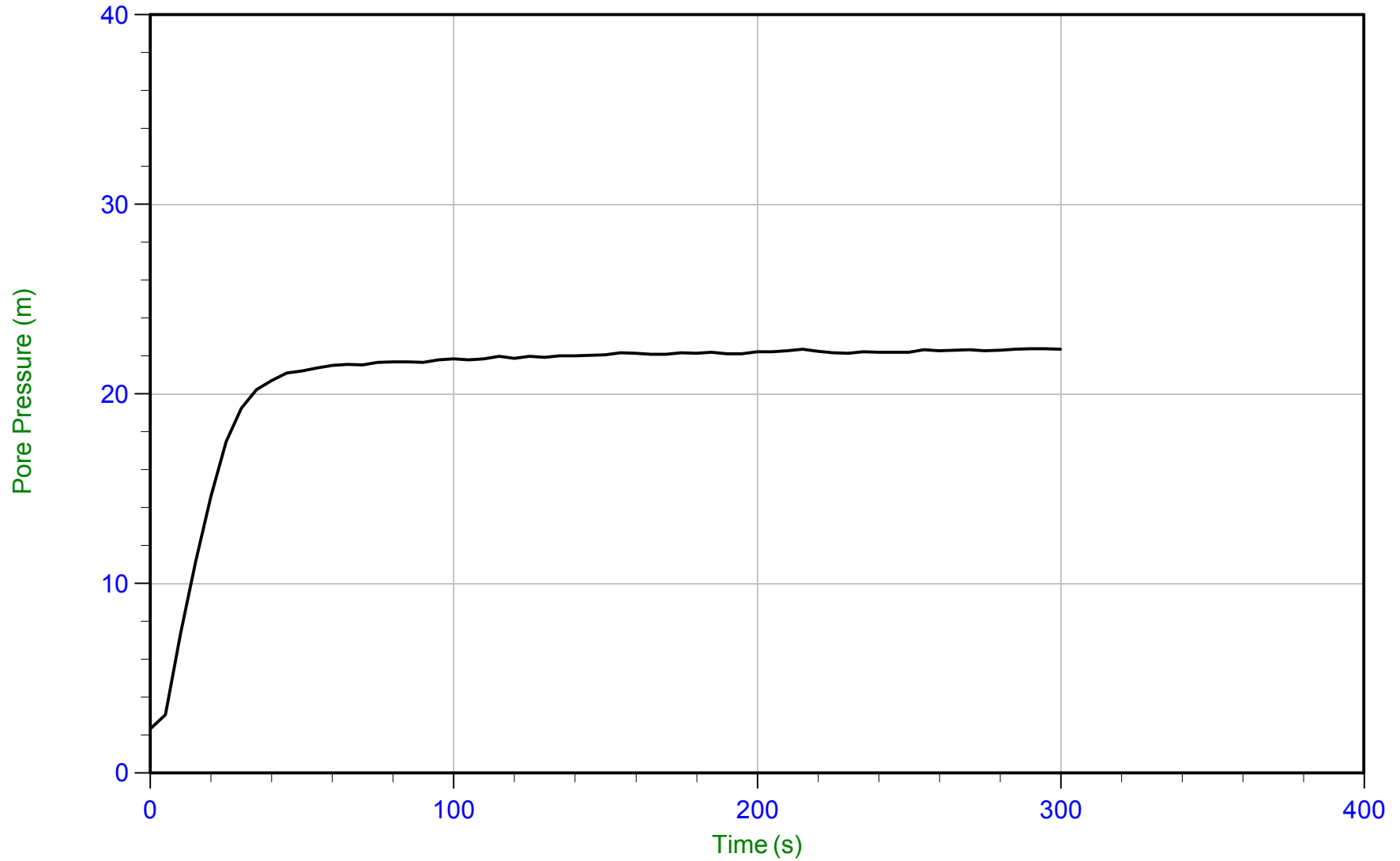
Trace Summary:	Filename: 15-02048_CP02.PPF	U Min: 83.7 m	WT: -5.700 m / -18.701 ft	T(50): 646.6 s
	Depth: 35.025 m / 114.910 ft	U Max: 140.7 m	Ueq: 40.7 m	Ir: 100
	Duration: 900.0 s		U(50): 90.72 m	Ch: 1.1 sq cm/min



Trace Summary: Filename: 15-02048_CP04.PPF U Min: 5.8 m WT: 3.469 m / 11.381 ft
 Depth: 10.150 m / 33.300 ft U Max: 7.7 m Ueq: 6.7 m
 Duration: 300.0 s



Trace Summary: Filename: 15-02048_CP04.PPF U Min: 16.5 m WT: 3.491 m / 11.453 ft
 Depth: 20.150 m / 66.108 ft U Max: 16.7 m Ueq: 16.7 m
 Duration: 300.0 s



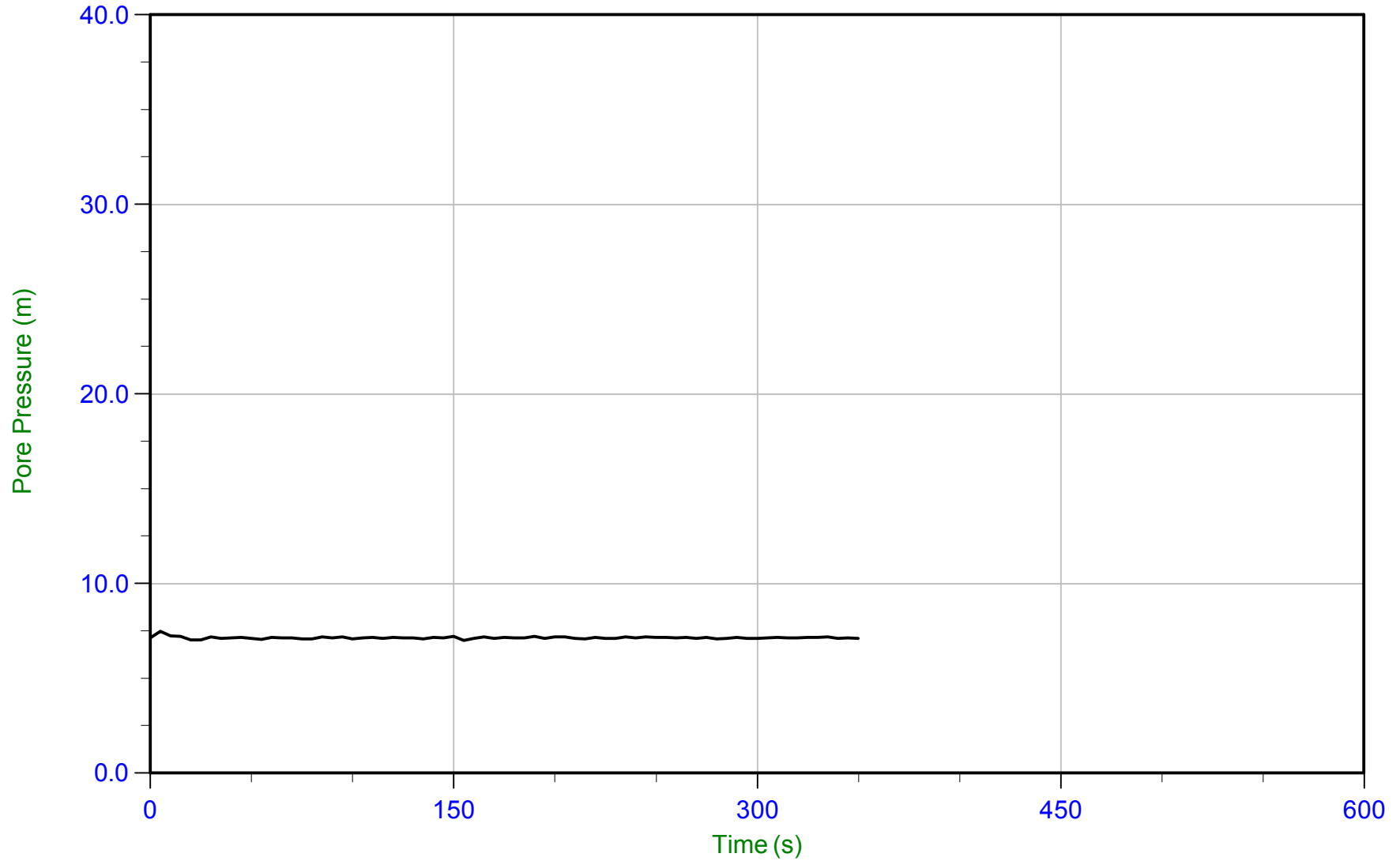
Trace Summary: Filename: 15-02048_CP04.PPF U Min: 2.3 m WT: 3.764 m / 12.349 ft
 Depth: 26.150 m / 85.793 ft U Max: 22.4 m Ueq: 22.4 m
 Duration: 300.0 s



Golder

Job No: 15-02048
Date: 07/15/2015 08:02
Site: AIWWTP

Sounding: SCPT15-06
Cone: 274:T1500F15U500
Cone Area: 15 sq cm



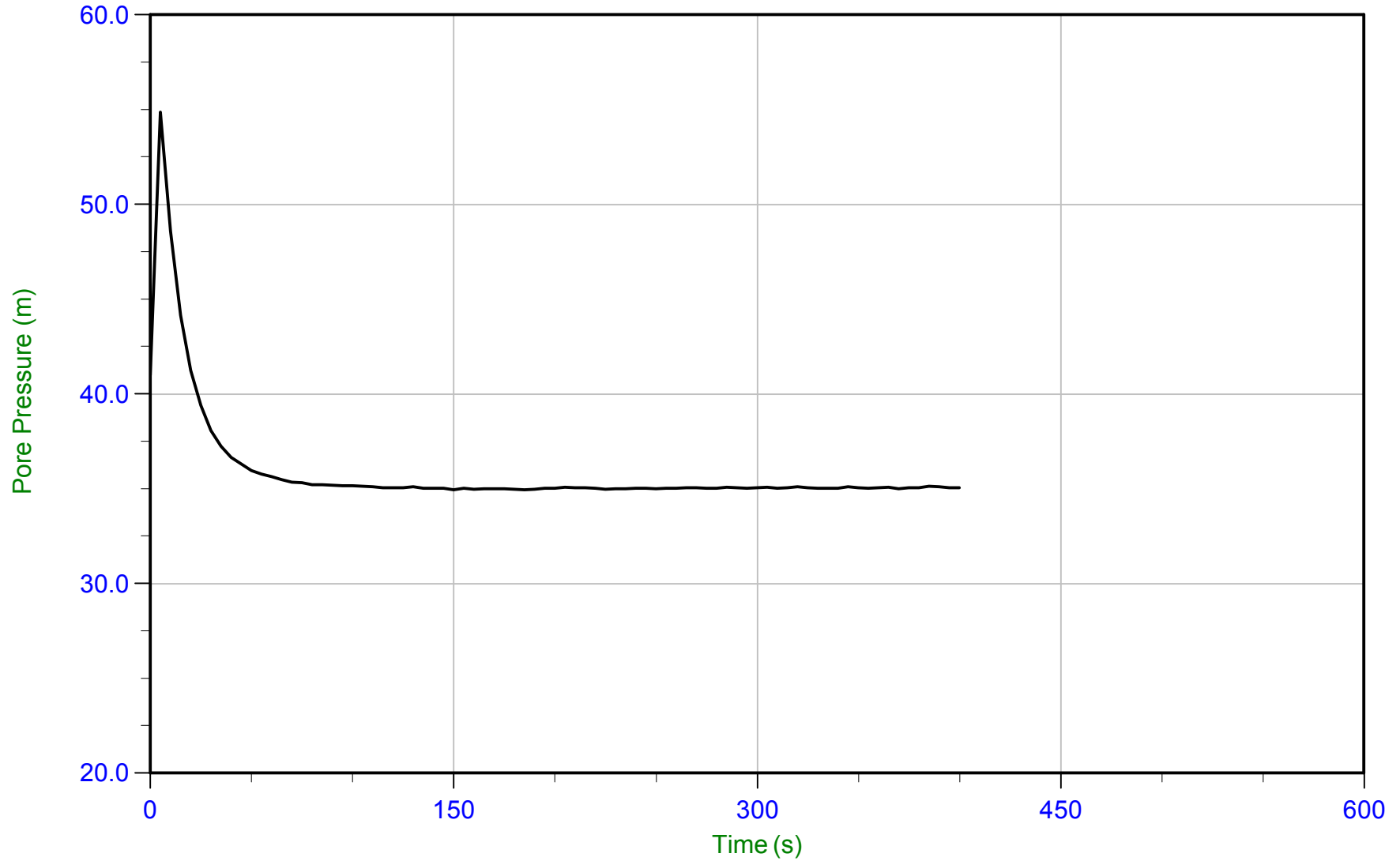
Trace Summary: Filename: 15-02048_SP06.PPF U Min: 7.0 m WT: 3.000 m / 9.842 ft
Depth: 10.100 m / 33.136 ft U Max: 7.5 m Ueq: 7.1 m
Duration: 350.0 s



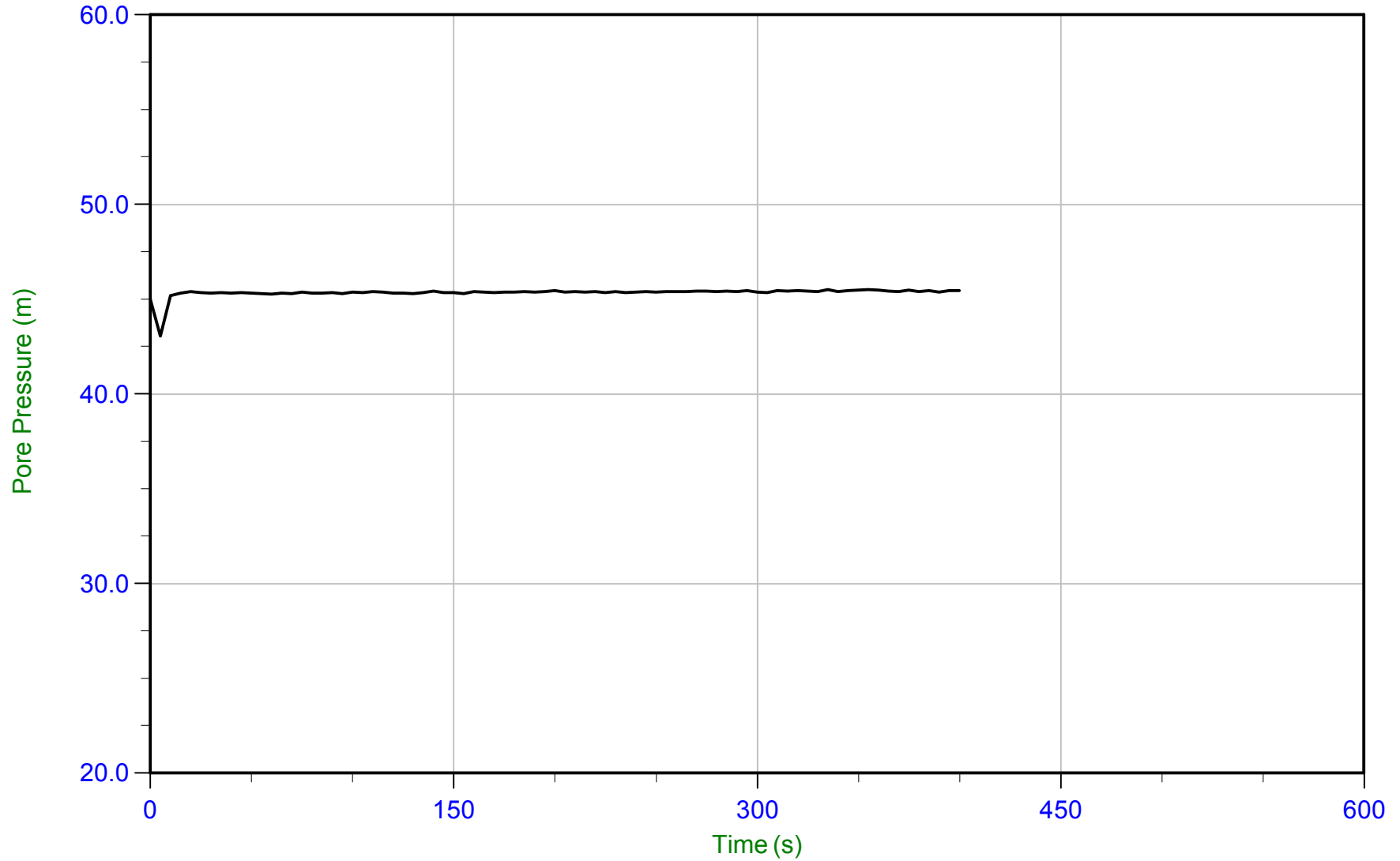
Golder

Job No: 15-02048
Date: 07/15/2015 08:02
Site: AIWWTP

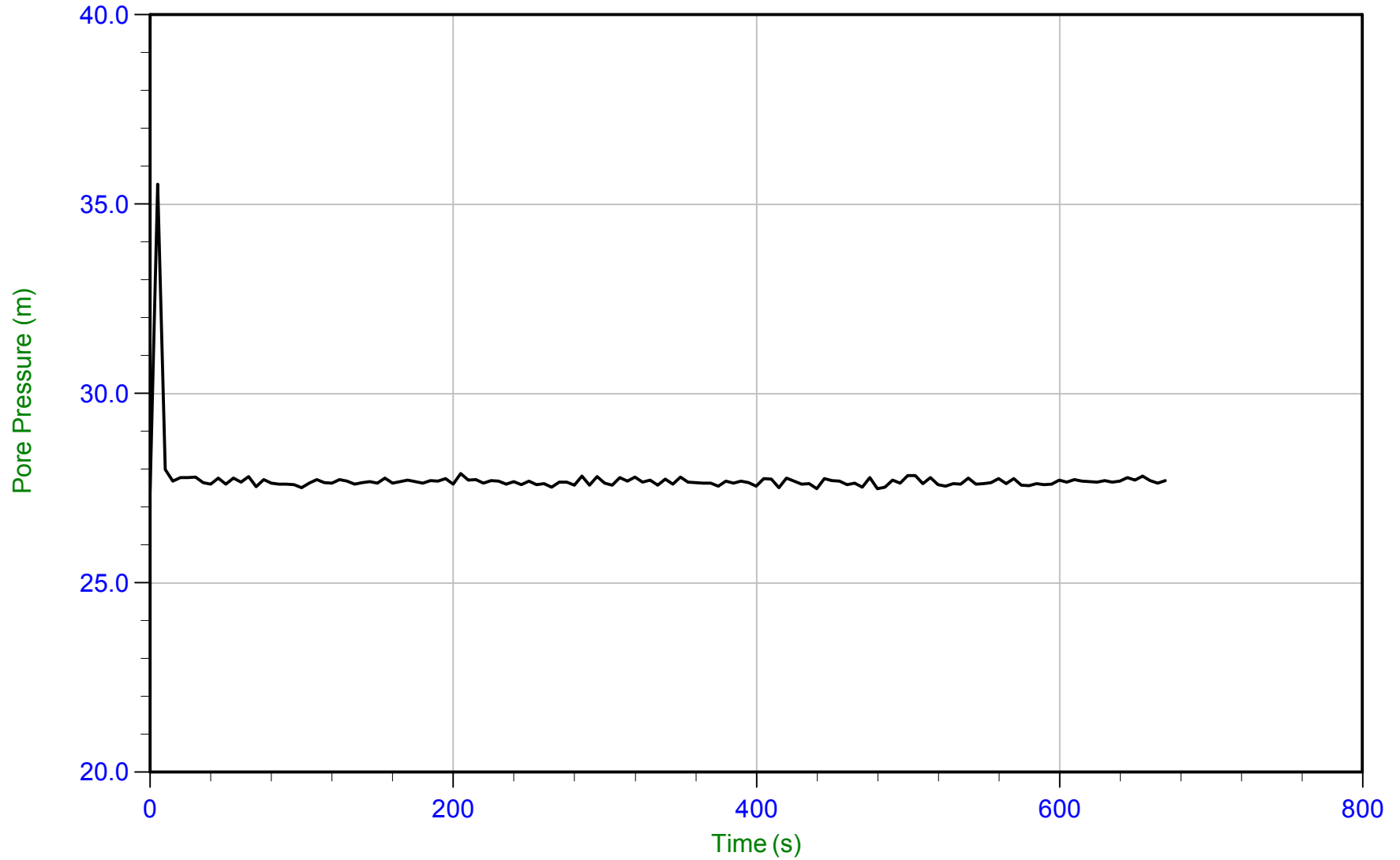
Sounding: SCPT15-06
Cone: 274:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP06.PPF U Min: 34.9 m WT: 3.085 m / 10.121 ft
Depth: 38.150 m / 125.163 ft U Max: 54.9 m Ueq: 35.1 m
Duration: 400.0 s



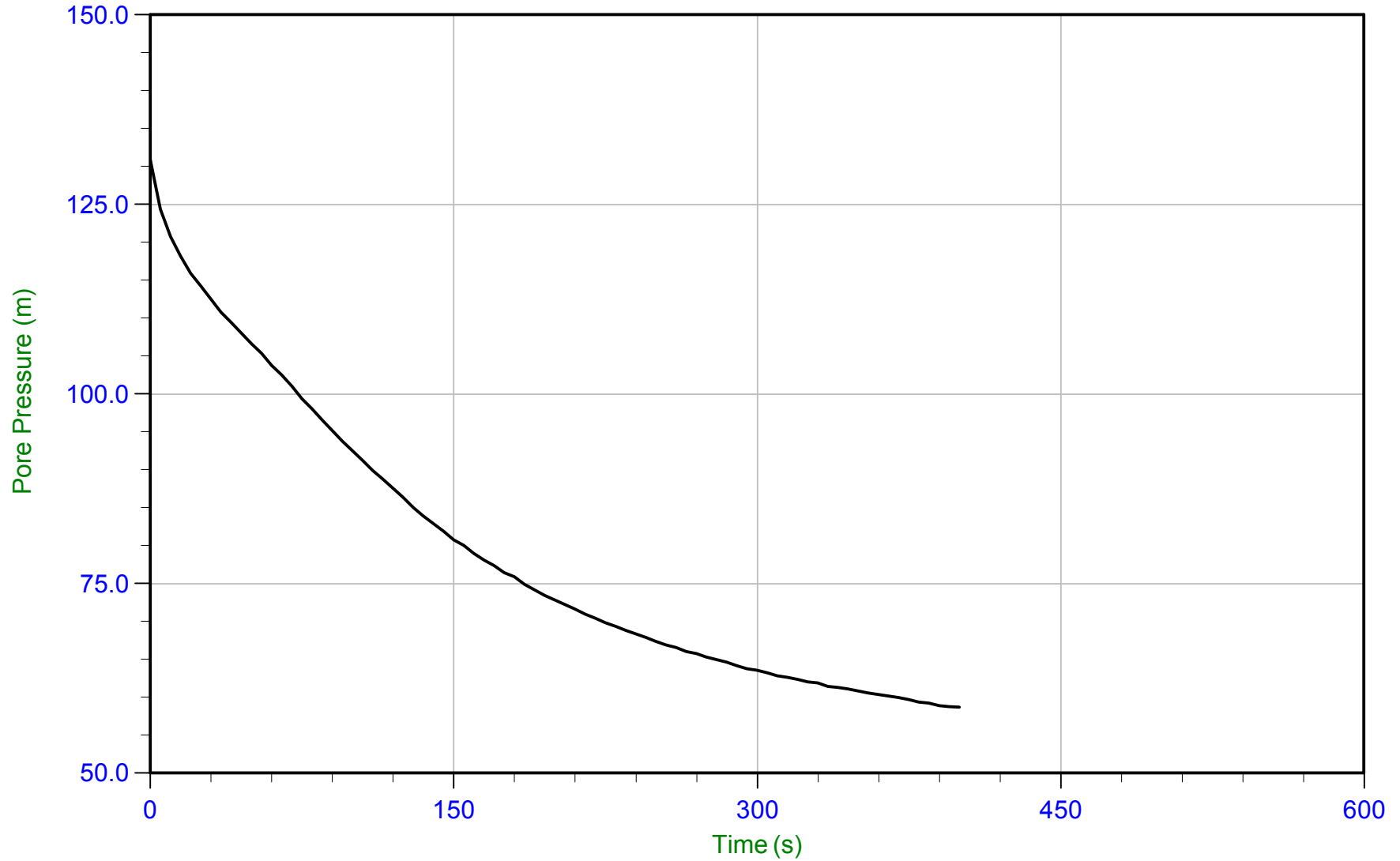
Trace Summary: Filename: 15-02048_SP06.PPF U Min: 43.1 m WT: 3.245 m / 10.646 ft
 Depth: 48.700 m / 159.775 ft U Max: 45.5 m Ueq: 45.5 m
 Duration: 400.0 s



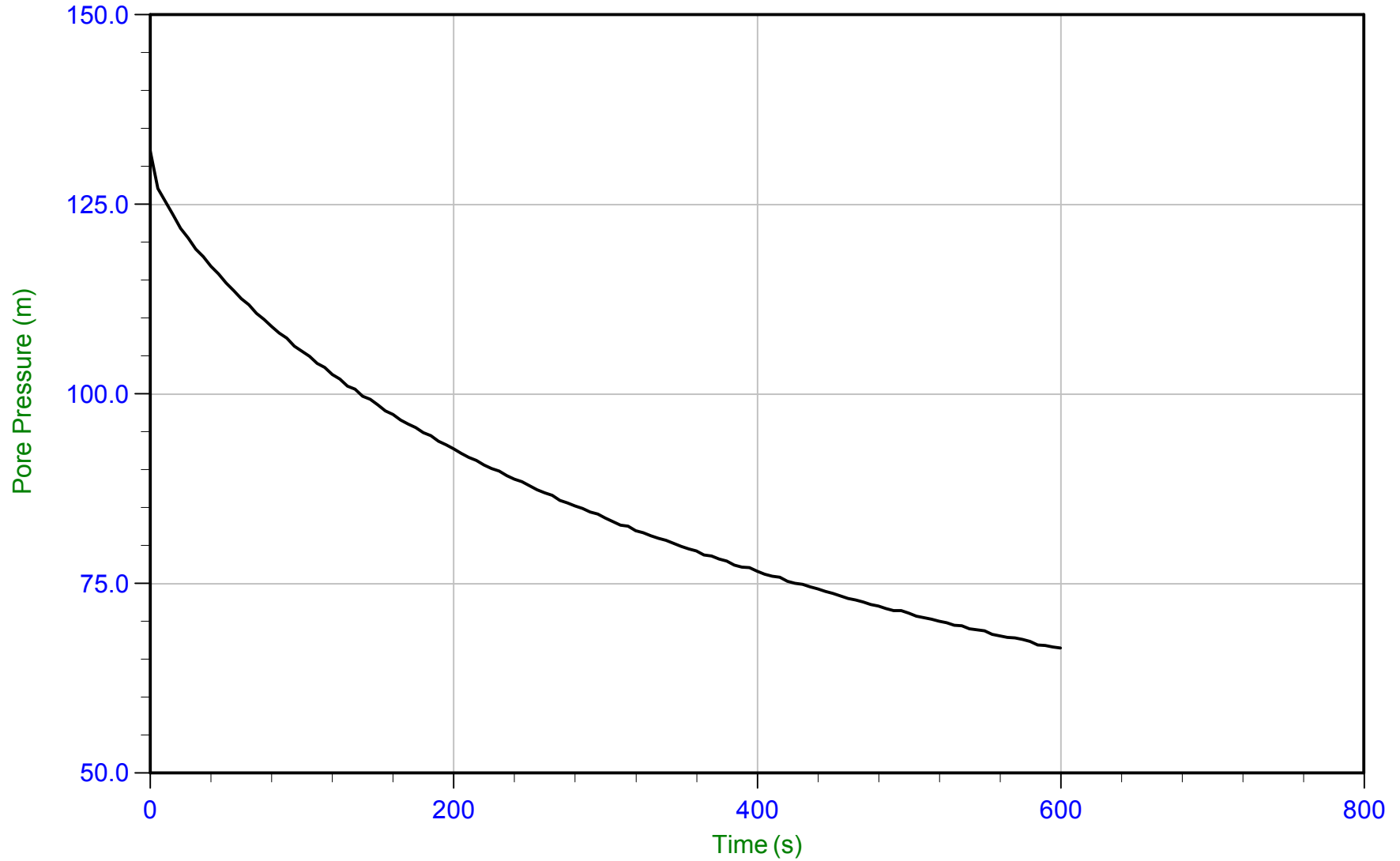
Trace Summary: Filename: 15-02048_SP11.PPF
Depth: 15.700 m / 51.509 ft
Duration: 670.0 s

U Min: 27.4 m
U Max: 35.5 m

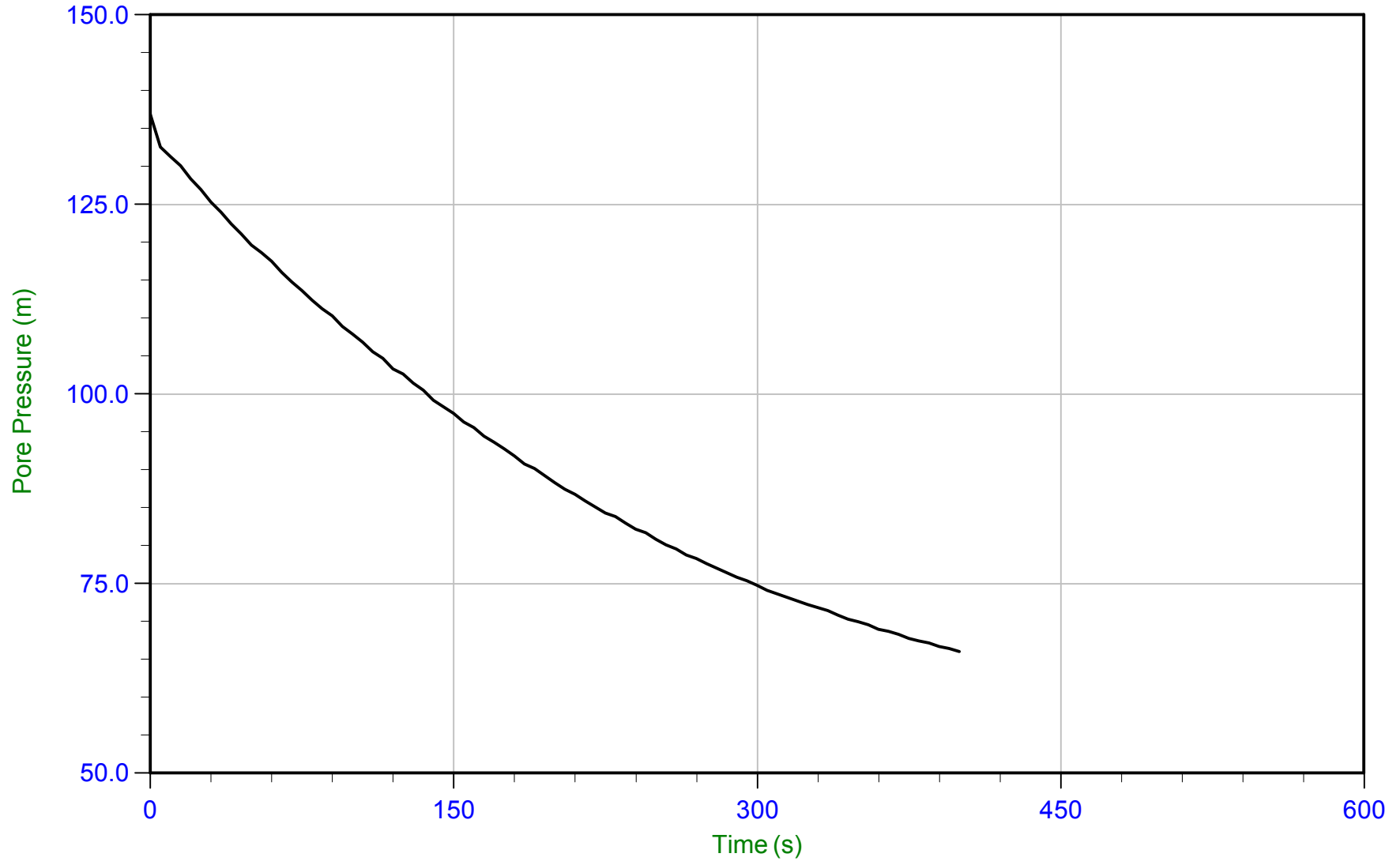
WT: -11.962 m / -39.245 ft
Ueq: 27.7 m



Trace Summary:	Filename: 15-02048_SP11.PPF	U Min: 58.7 m	WT: -11.962 m / -39.245 ft	T(50): 120.9 s
	Depth: 31.900 m / 104.658 ft	U Max: 130.9 m	Ueq: 43.9 m	lr: 100
	Duration: 400.0 s		U(50): 87.37 m	Ch: 5.8 sq cm/min



Trace Summary:	Filename: 15-02048_CP12.PPF	U Min: 66.5 m	WT: -8.000 m / -26.246 ft	T(50): 277.0 s
	Depth: 30.900 m / 101.377 ft	U Max: 132.0 m	Ueq: 38.9 m	lr: 100
	Duration: 600.0 s		U(50): 85.47 m	Ch: 2.5 sq cm/min



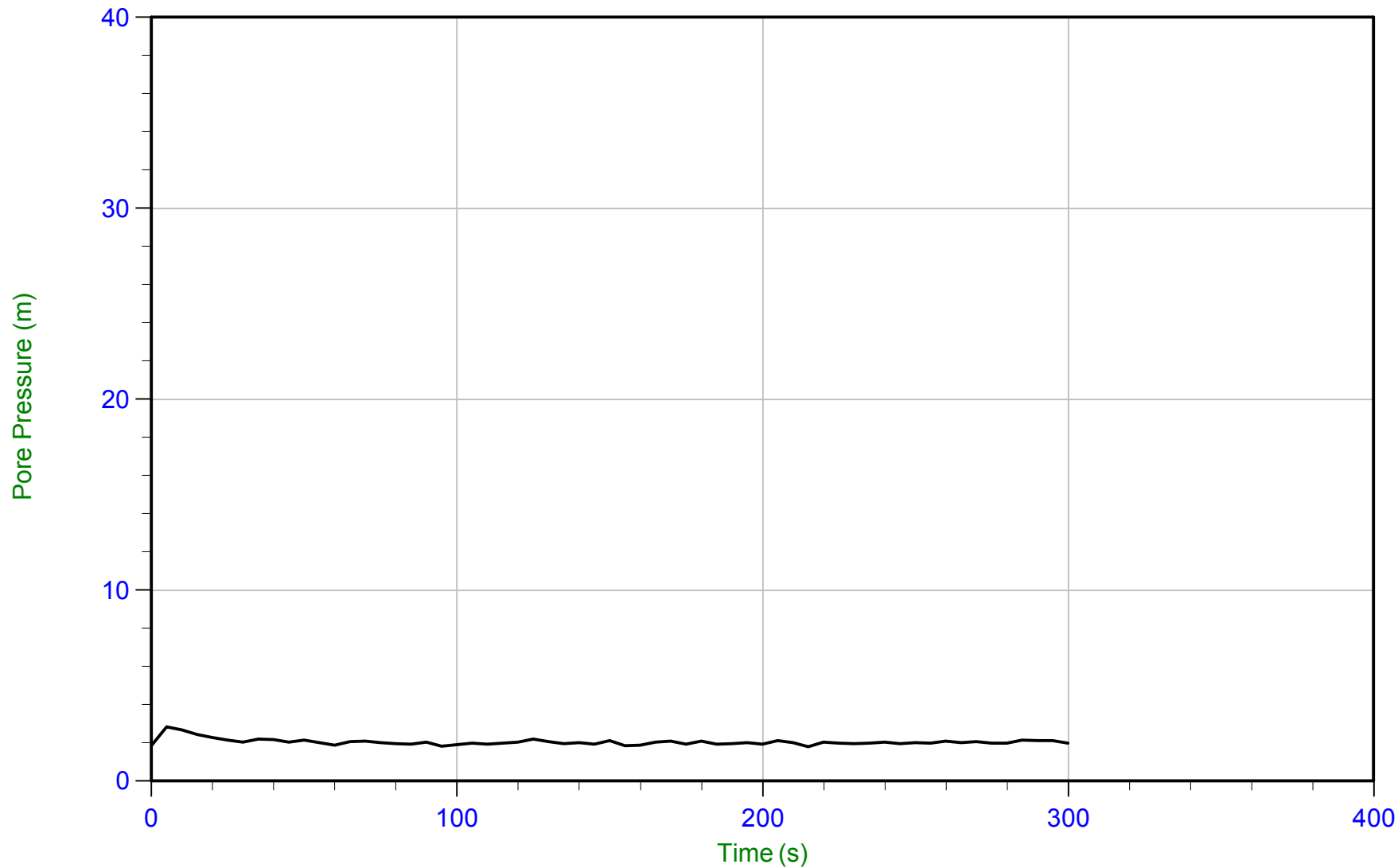
Trace Summary: Filename: 15-02048_CP12.PPF U Min: 66.0 m WT: -8.000 m / -26.246 ft T(50): 187.2 s
 Depth: 36.075 m / 118.355 ft U Max: 136.9 m Ueq: 44.1 m Ir: 100
 Duration: 400.0 s U(50): 90.49 m Ch: 3.7 sq cm/min



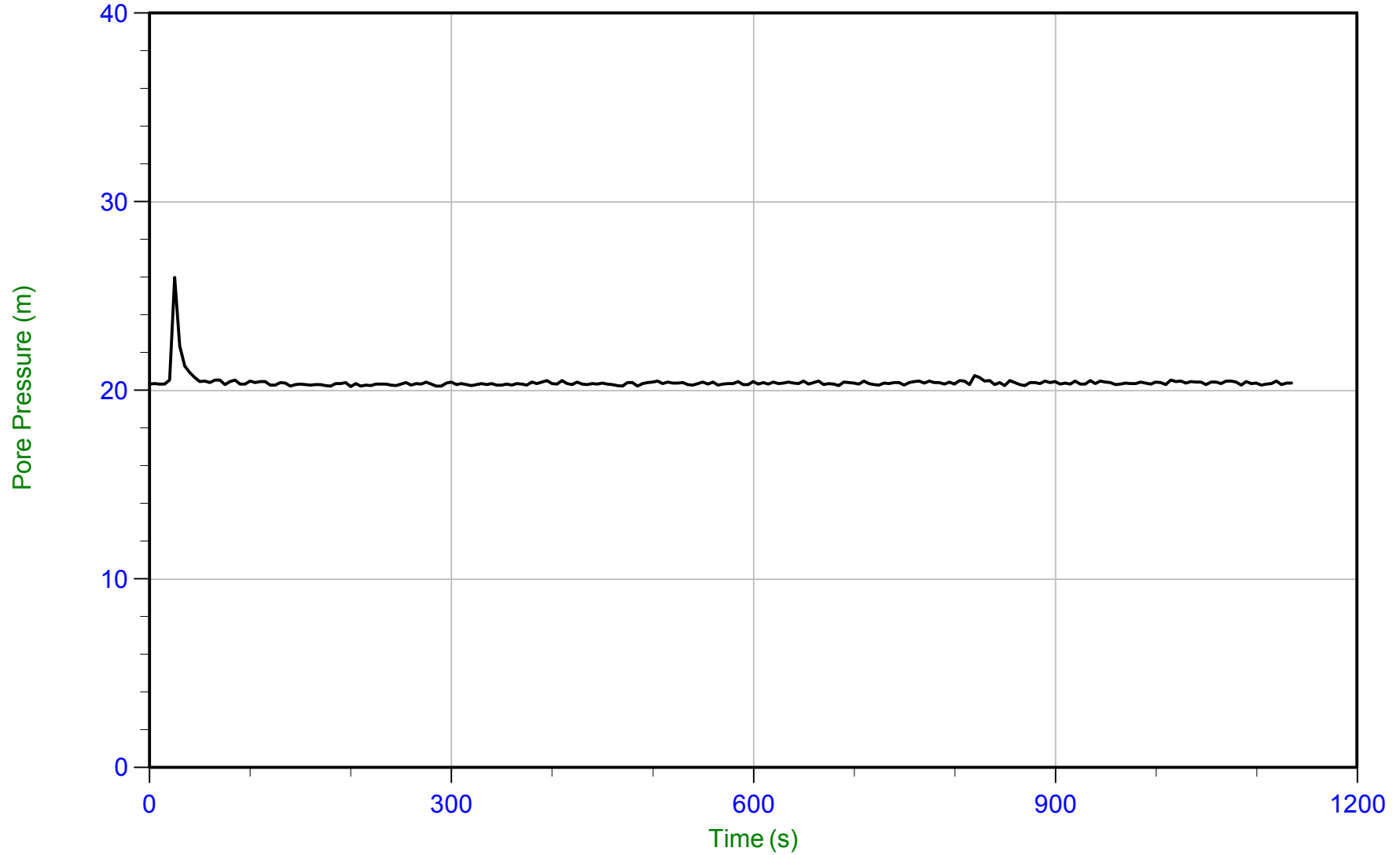
Golder

Job No: 15-02048
Date: 10/04/2015 09:28
Site: AIWWTP

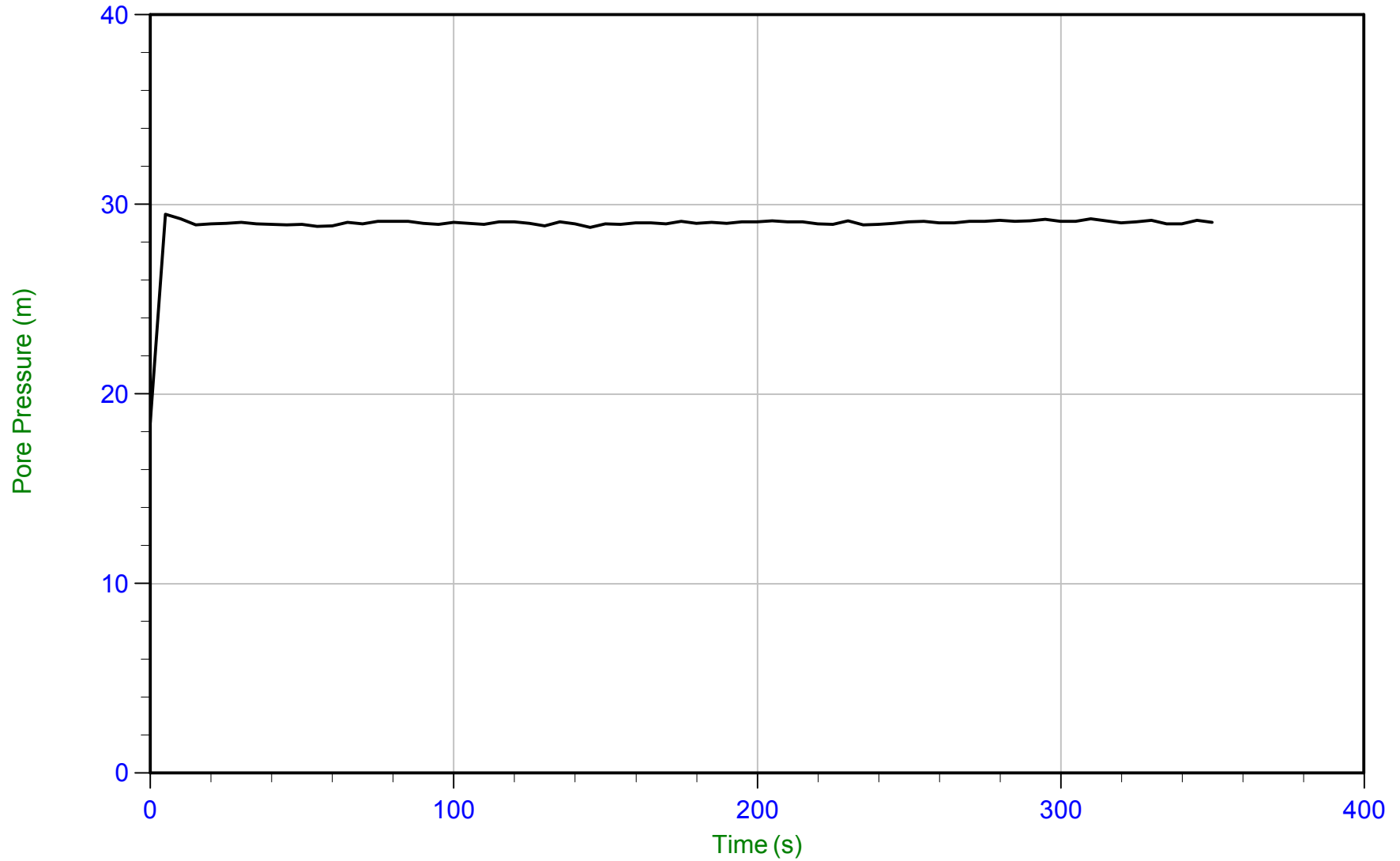
Sounding: SCPT15-13
Cone: 330:T1500F15U500
Cone Area: 15 sq cm



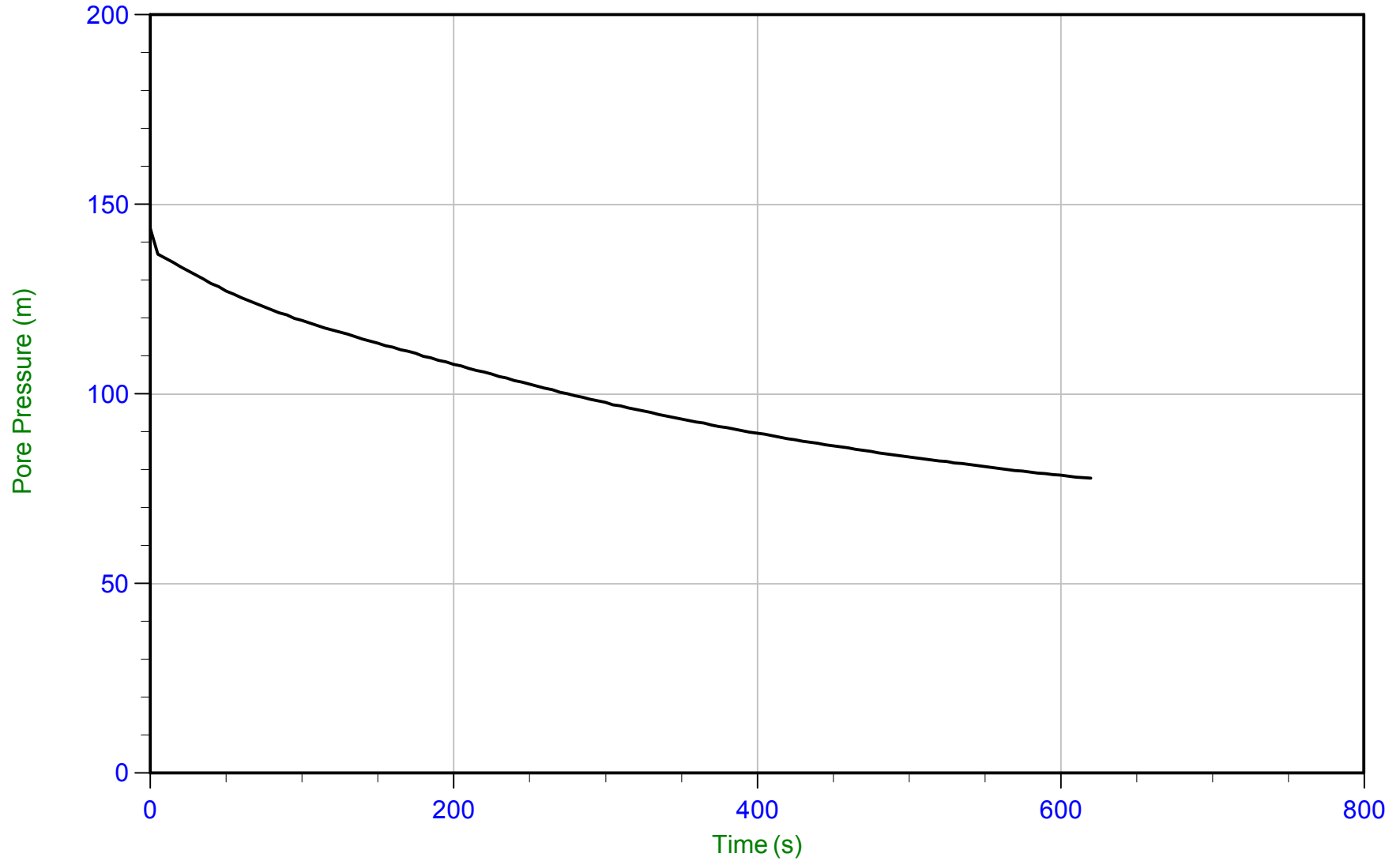
Trace Summary: Filename: 15-02048_SP13.PPF U Min: 1.8 m WT: 4.036 m / 13.241 ft
Depth: 6.000 m / 19.685 ft U Max: 2.9 m Ueq: 2.0 m
Duration: 300.0 s



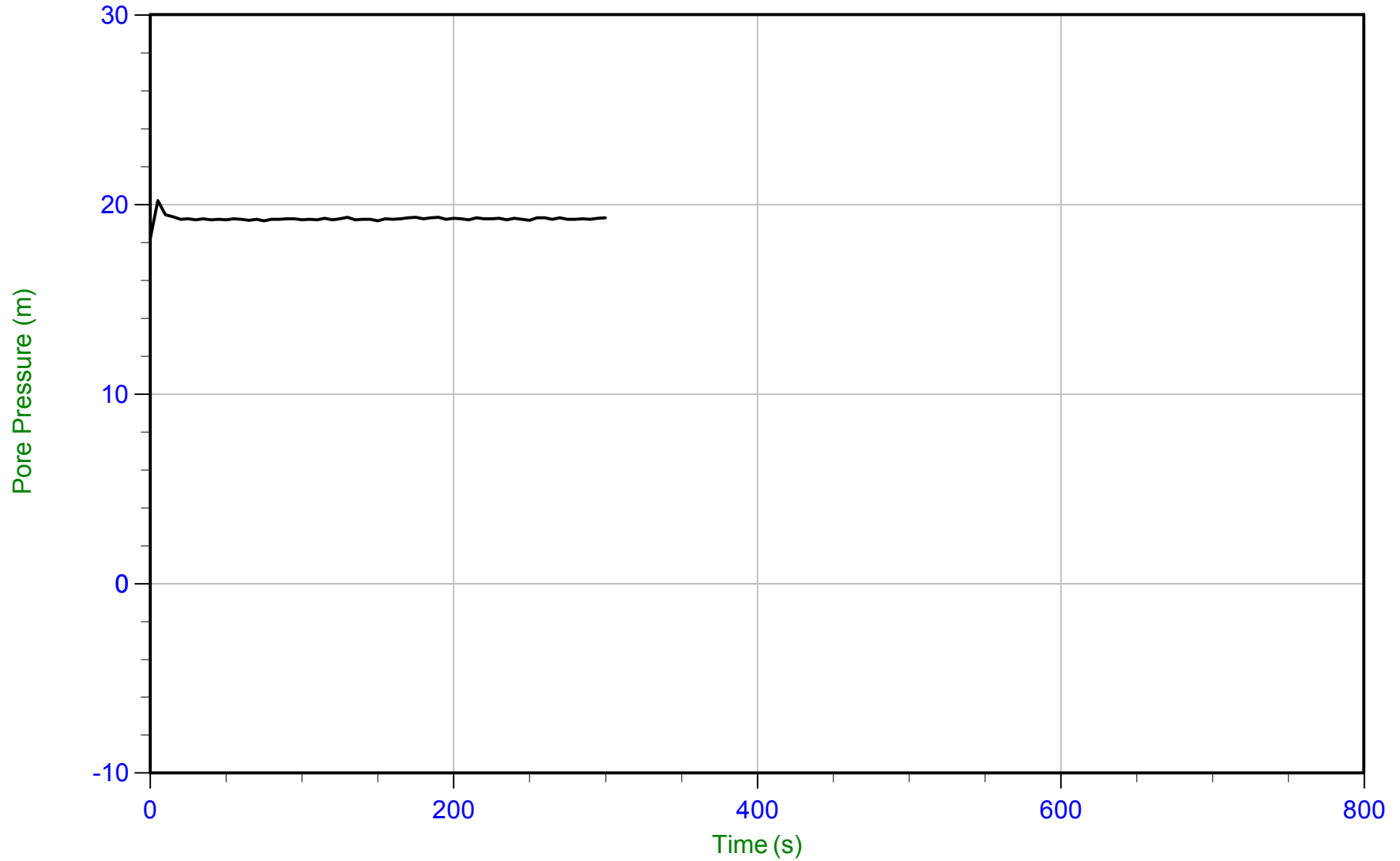
Trace Summary: Filename: 15-02048_SP13.PPF U Min: 20.2 m WT: 4.743 m / 15.561 ft
 Depth: 25.100 m / 82.348 ft U Max: 26.0 m Ueq: 20.4 m
 Duration: 1135.0 s



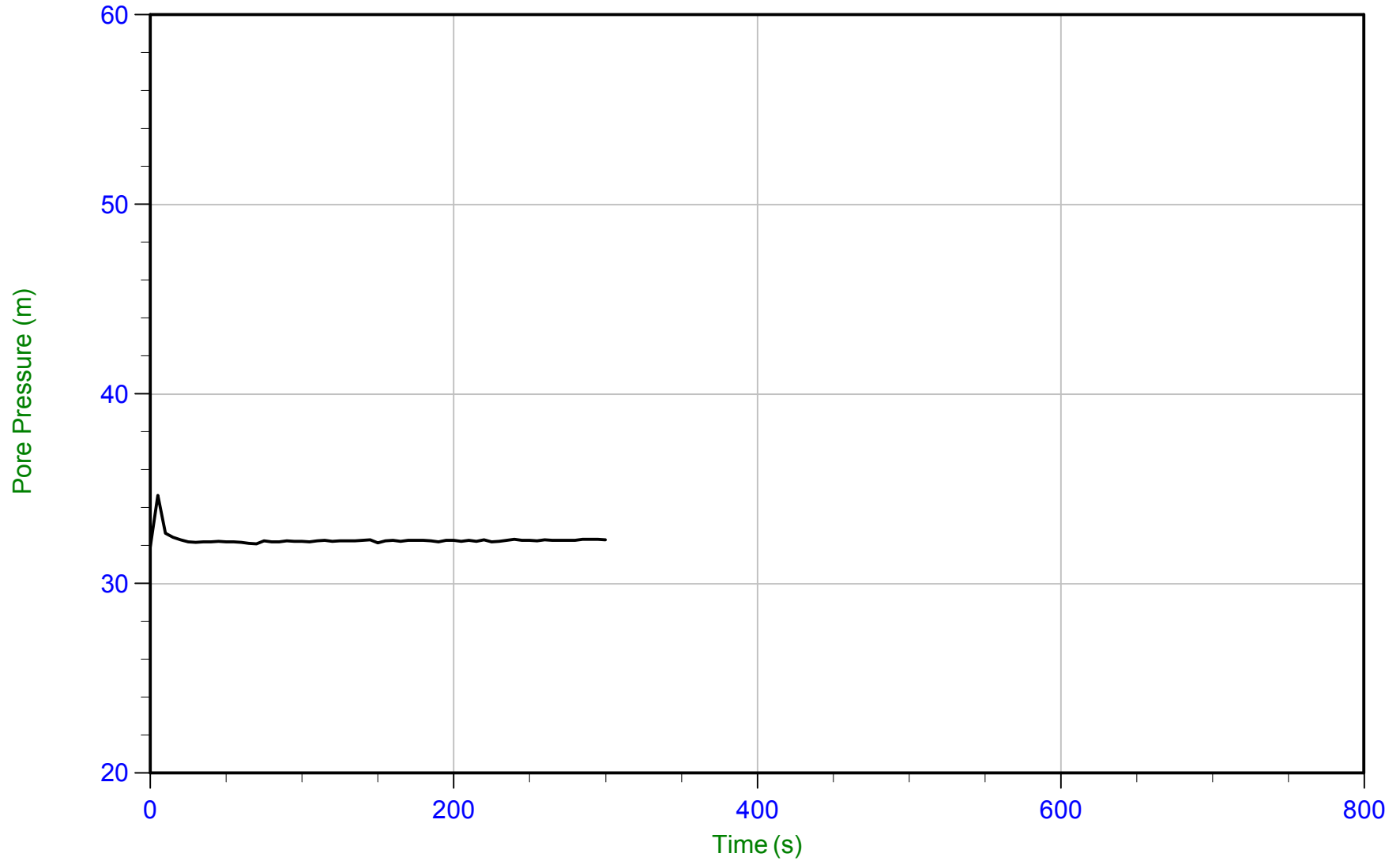
Trace Summary: Filename: 15-02048_SP13.PPF U Min: 18.5 m WT: 5.104 m / 16.745 ft
 Depth: 34.300 m / 112.531 ft U Max: 29.5 m Ueq: 29.2 m
 Duration: 350.0 s



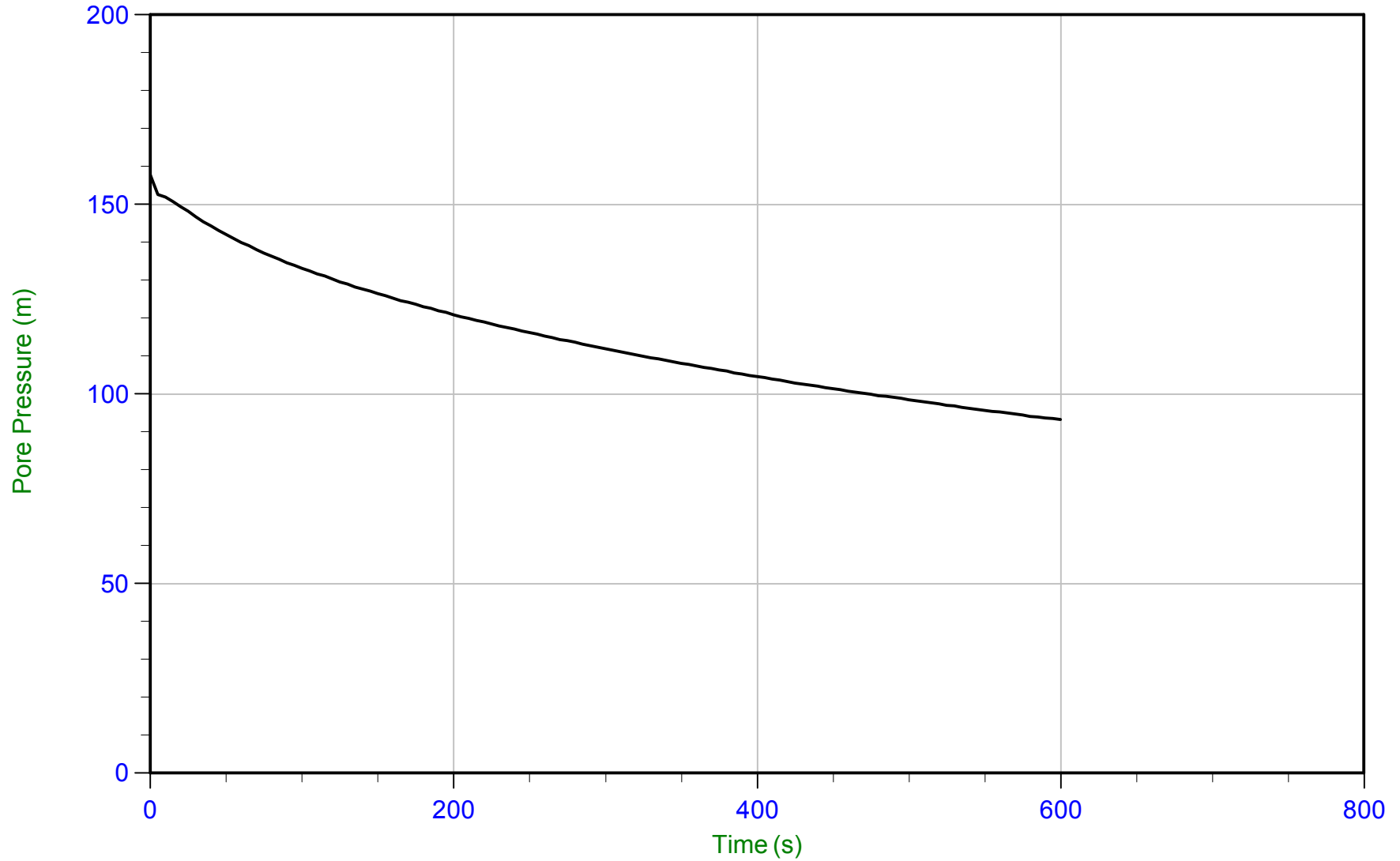
Trace Summary: Filename: 15-02048_SP13.PPF U Min: 77.8 m WT: 5.100 m / 16.732 ft T(50): 336.8 s
 Depth: 50.300 m / 165.024 ft U Max: 143.7 m Ueq: 45.2 m Ir: 100
 Duration: 620.0 s U(50): 94.46 m Ch: 2.1 sq cm/min



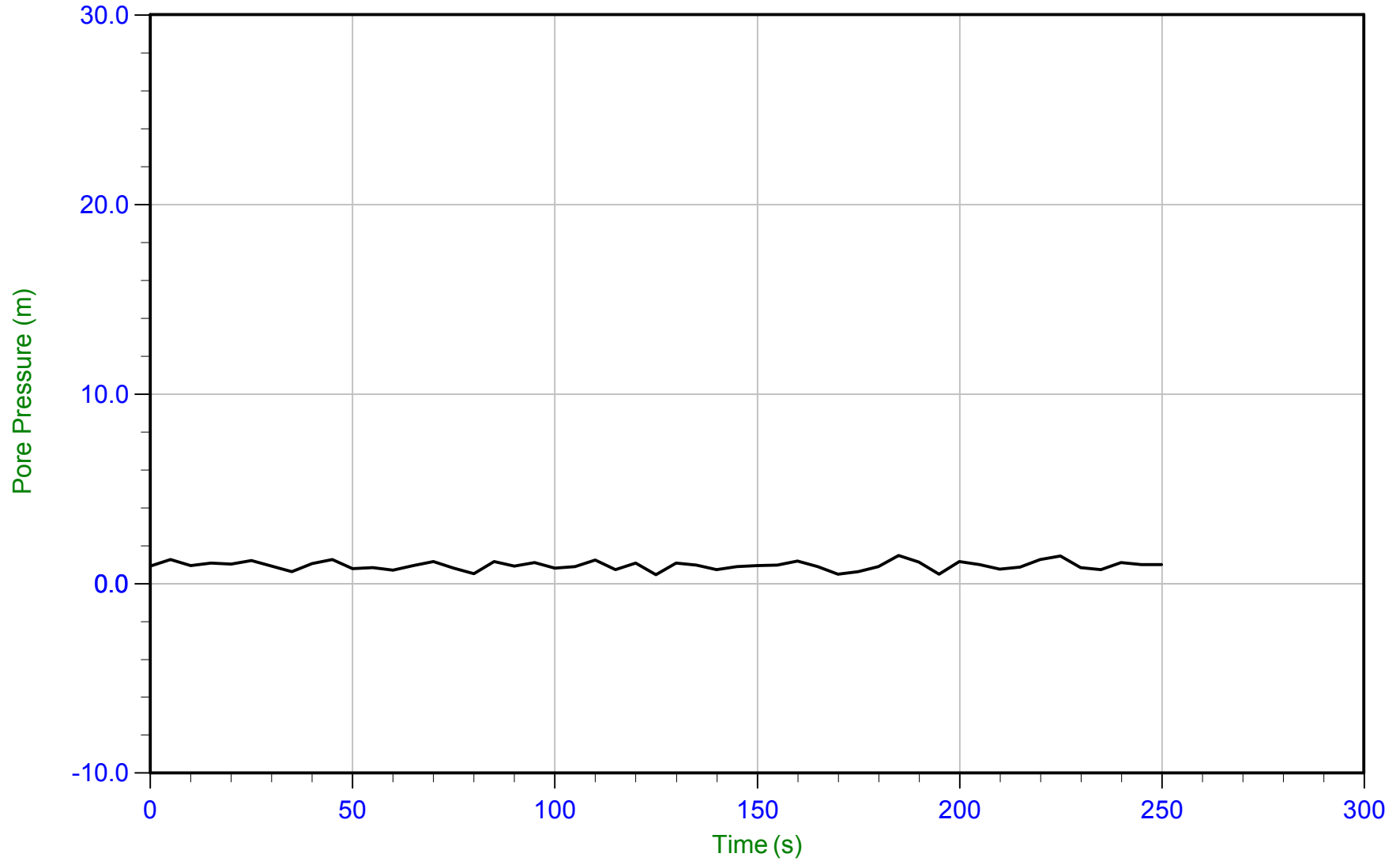
Trace Summary: Filename: 15-02048_CP15.PPF U Min: 18.2 m WT: 2.792 m / 9.160 ft
 Depth: 22.050 m / 72.342 ft U Max: 20.2 m Ueq: 19.3 m
 Duration: 300.0 s



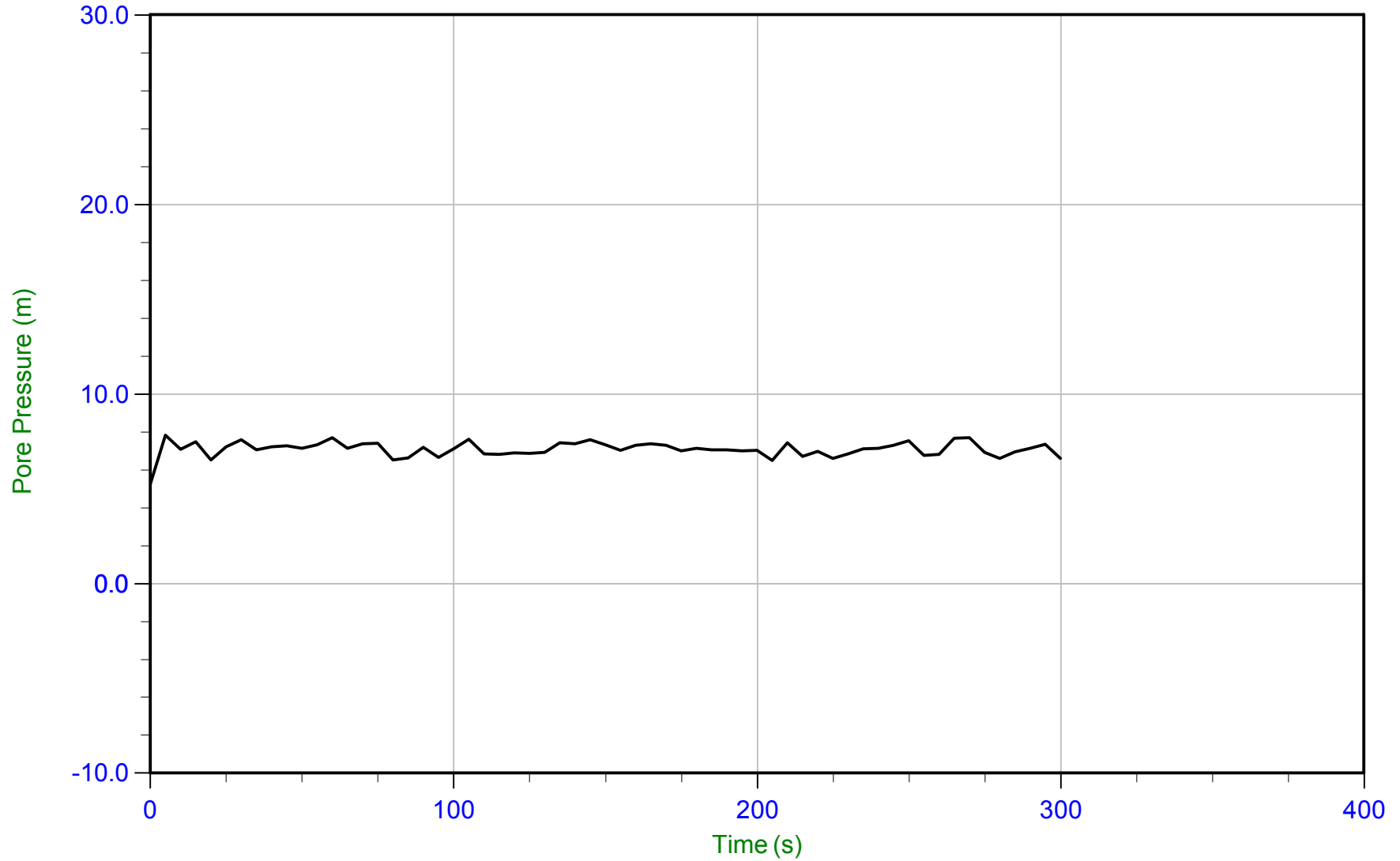
Trace Summary: Filename: 15-02048_CP15.PPF U Min: 31.9 m WT: 2.823 m / 9.262 ft
 Depth: 35.050 m / 114.992 ft U Max: 34.6 m Ueq: 32.2 m
 Duration: 300.0 s



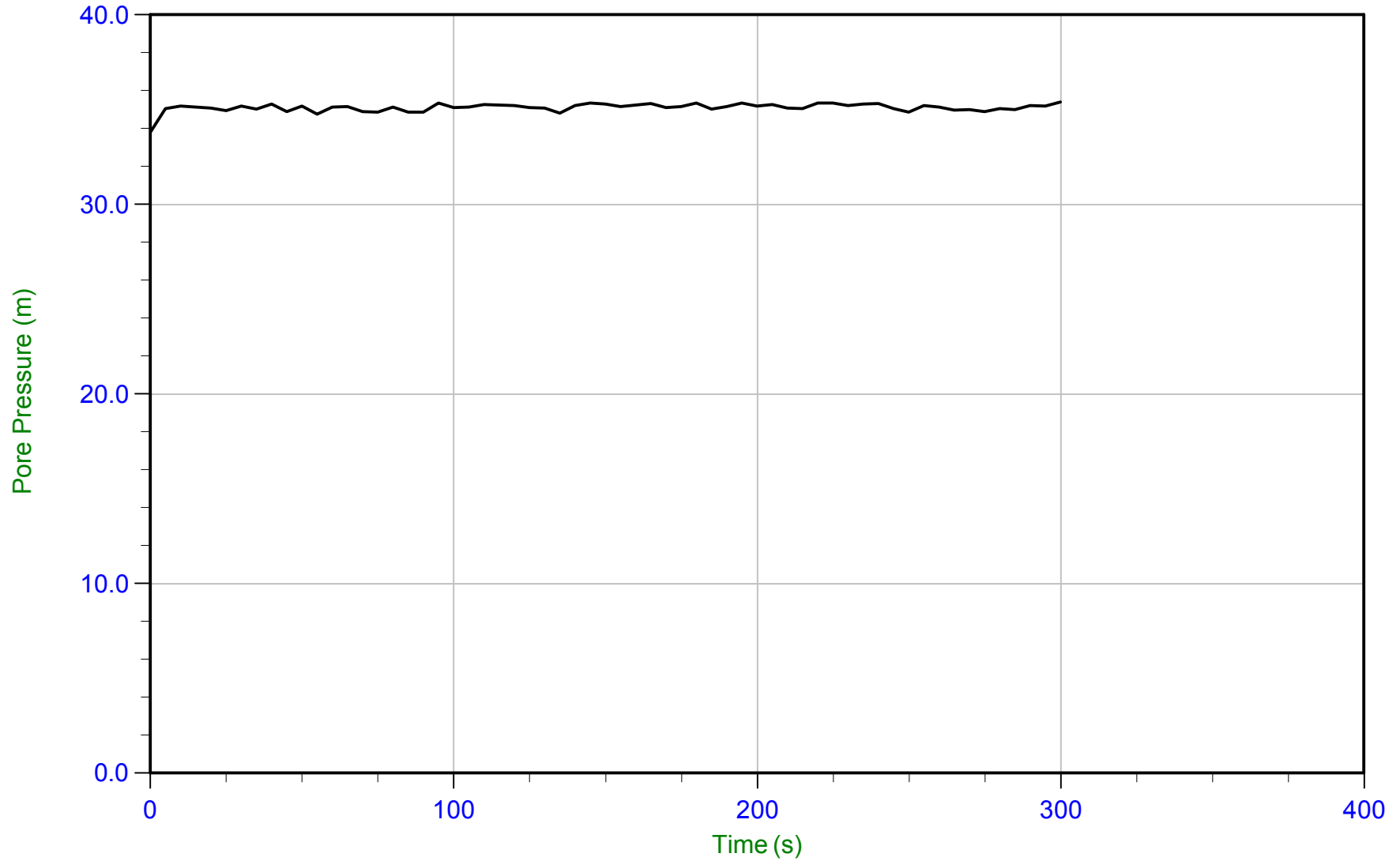
Trace Summary:	Filename: 15-02048_CP15.PPF	U Min: 93.2 m	WT: 2.800 m / 9.186 ft	T(50): 406.1 s
	Depth: 53.450 m / 175.359 ft	U Max: 157.8 m	Ueq: 50.7 m	lr: 100
	Duration: 600.0 s		U(50): 104.21 m	Ch: 1.7 sq cm/min



Trace Summary: Filename: 15-02048_SP01.PPF UMin: 0.5 m WT: 4.688 m / 15.380 ft
 Depth: 5.650 m / 18.537 ft UMax: 1.5 m Ueq: 1.0 m
 Duration: 250.0 s



Trace Summary: Filename: 15-02048_SP01.PPF UMin: 5.2 m WT: 5.196 m / 17.047 ft
 Depth: 12.100 m / 39.698 ft UMax: 7.8 m Ueq: 6.9 m
 Duration: 300.0 s



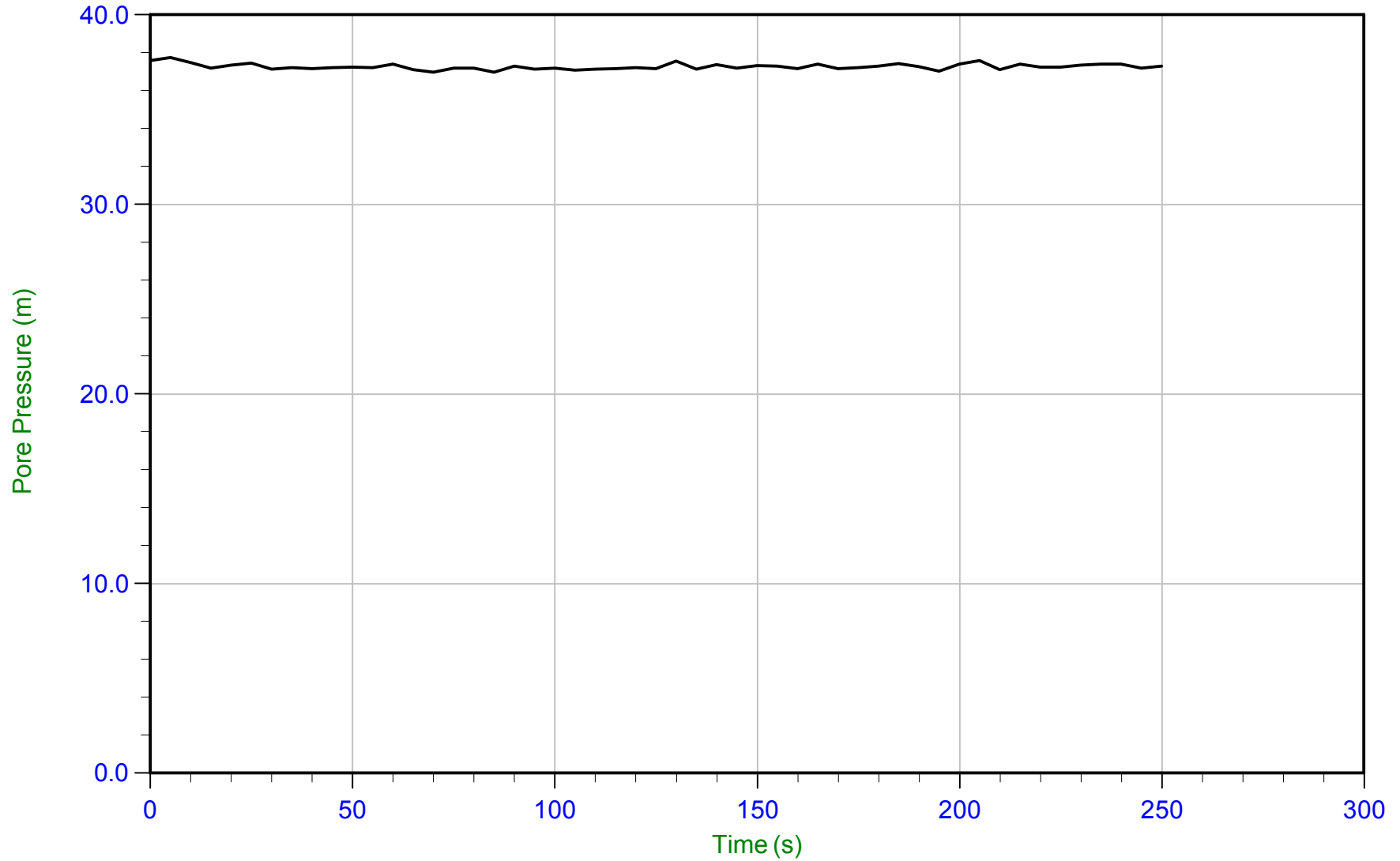
Trace Summary: Filename: 15-02048_SP01.PPF UMin: 33.8 m WT: 5.037 m / 16.525 ft
 Depth: 40.100 m / 131.560 ft UMax: 35.4 m Ueq: 35.1 m
 Duration: 300.0 s



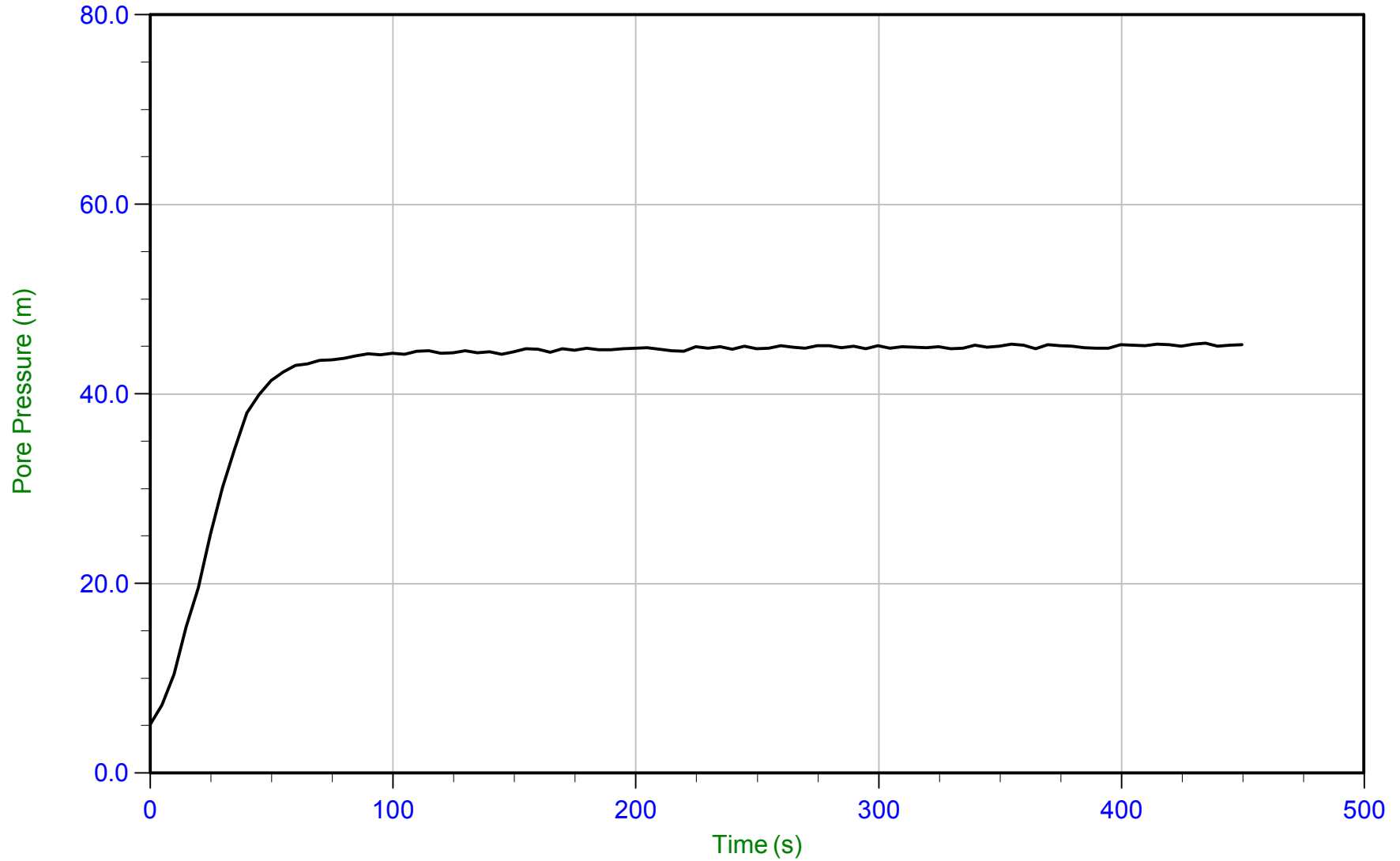
Golder Associates

Job No: 15-02048
Date: 03/22/2016 11:39
Site: Annacis WWTP

Sounding: SCPT16-01
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP01.PPF UMin: 37.0 m WT: 5.062 m / 16.607 ft
 Depth: 42.300 m / 138.778 ft UMax: 37.7 m Ueq: 37.2 m
 Duration: 250.0 s



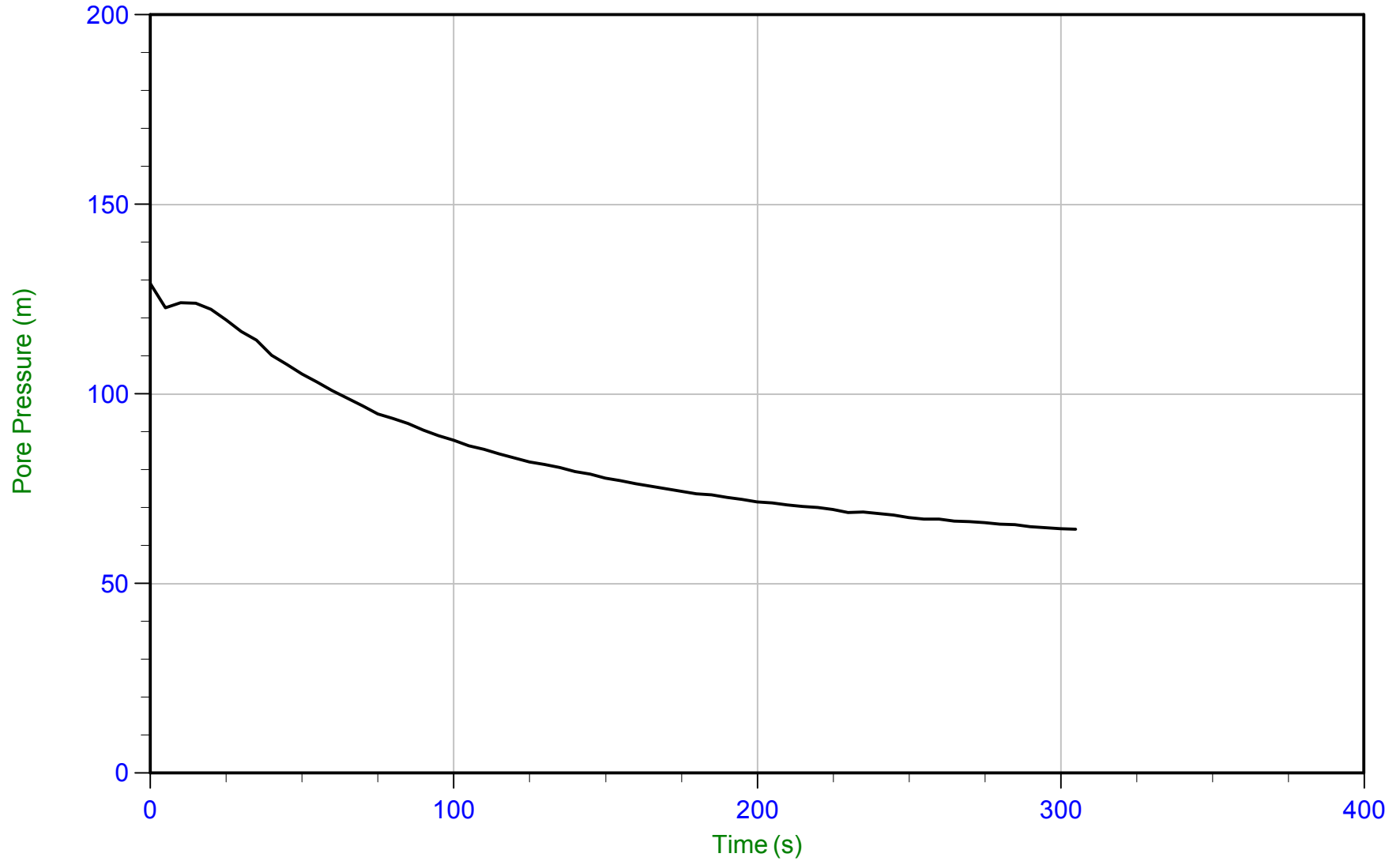
Trace Summary: Filename: 15-02048_SP01.PPF UMin: 5.2 m WT: 5.079 m / 16.663 ft
 Depth: 50.100 m / 164.368 ft UMax: 45.4 m Ueq: 45.0 m
 Duration: 450.0 s



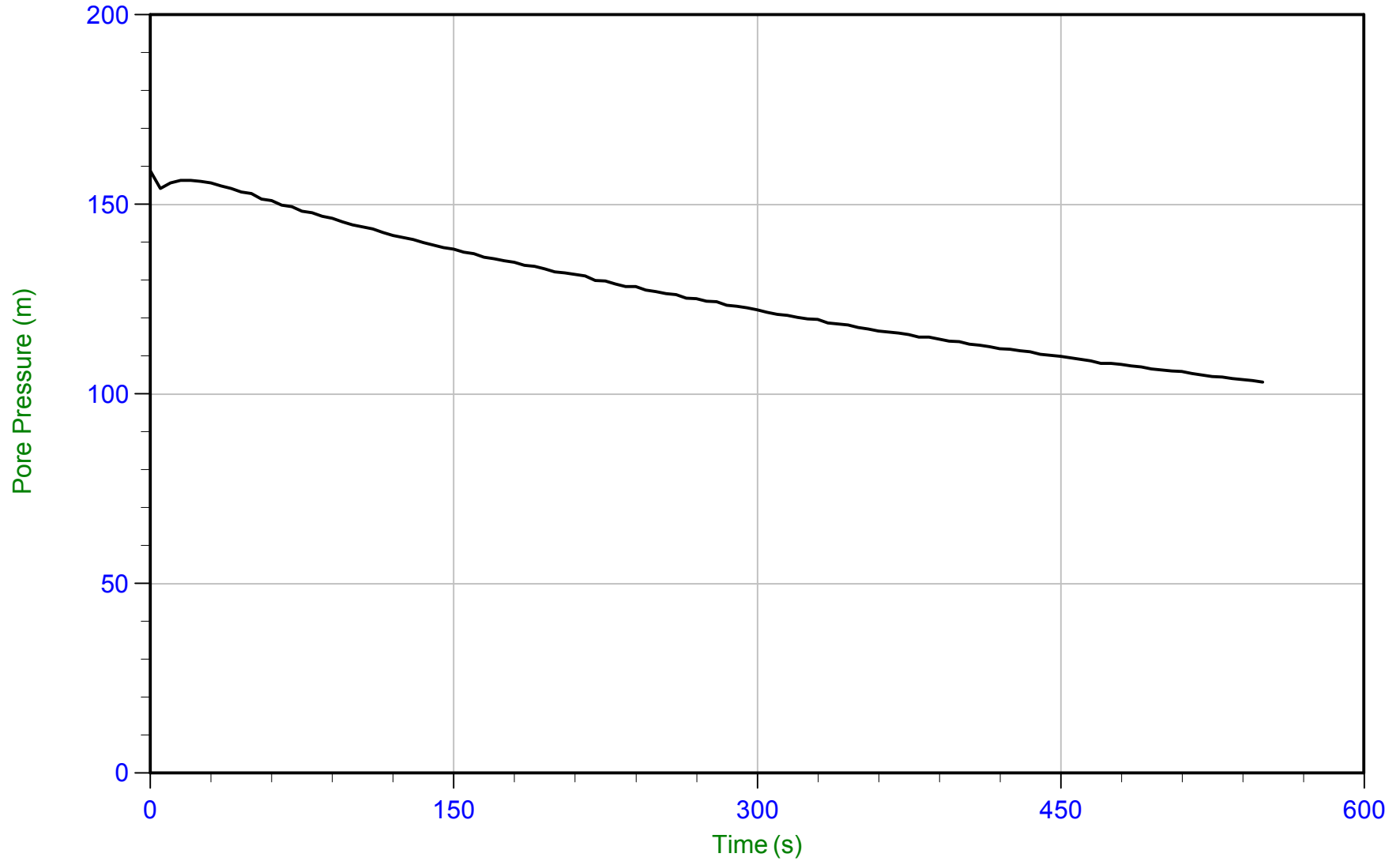
Golder Associates

Job No: 15-02048
Date: 03/22/2016 11:39
Site: Annacis WWTP

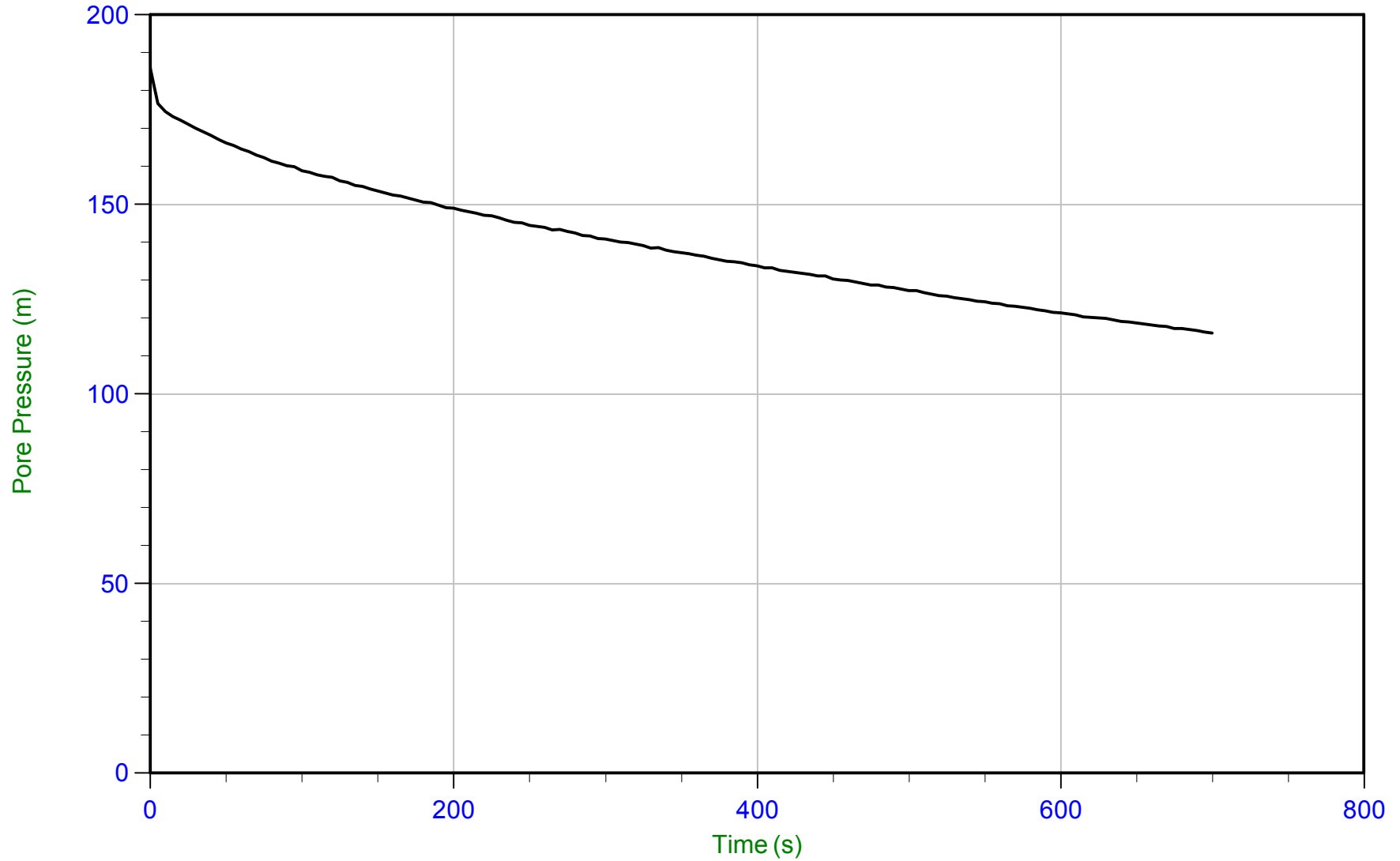
Sounding: SCPT16-01
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP01.PPF UMin: 64.3 m WT: 4.700 m / 15.420 ft T(50): 96.0 s
 Depth: 53.100 m / 174.210 ft UMax: 129.2 m Ueq: 48.4 m Ir: 100
 Duration: 305.0 s U(50): 88.79 m Ch: 7.3 sq cm/min



Trace Summary:	Filename: 15-02048_SP01.PPF	UMin: 103.2 m	WT: 4.700 m / 15.420 ft	T(50): 514.9 s
	Depth: 56.600 m / 185.693 ft	UMax: 158.9 m	Ueq: 51.9 m	lr: 100
	Duration: 550.0 s		U(50): 105.40 m	Ch: 1.4 sq cm/min



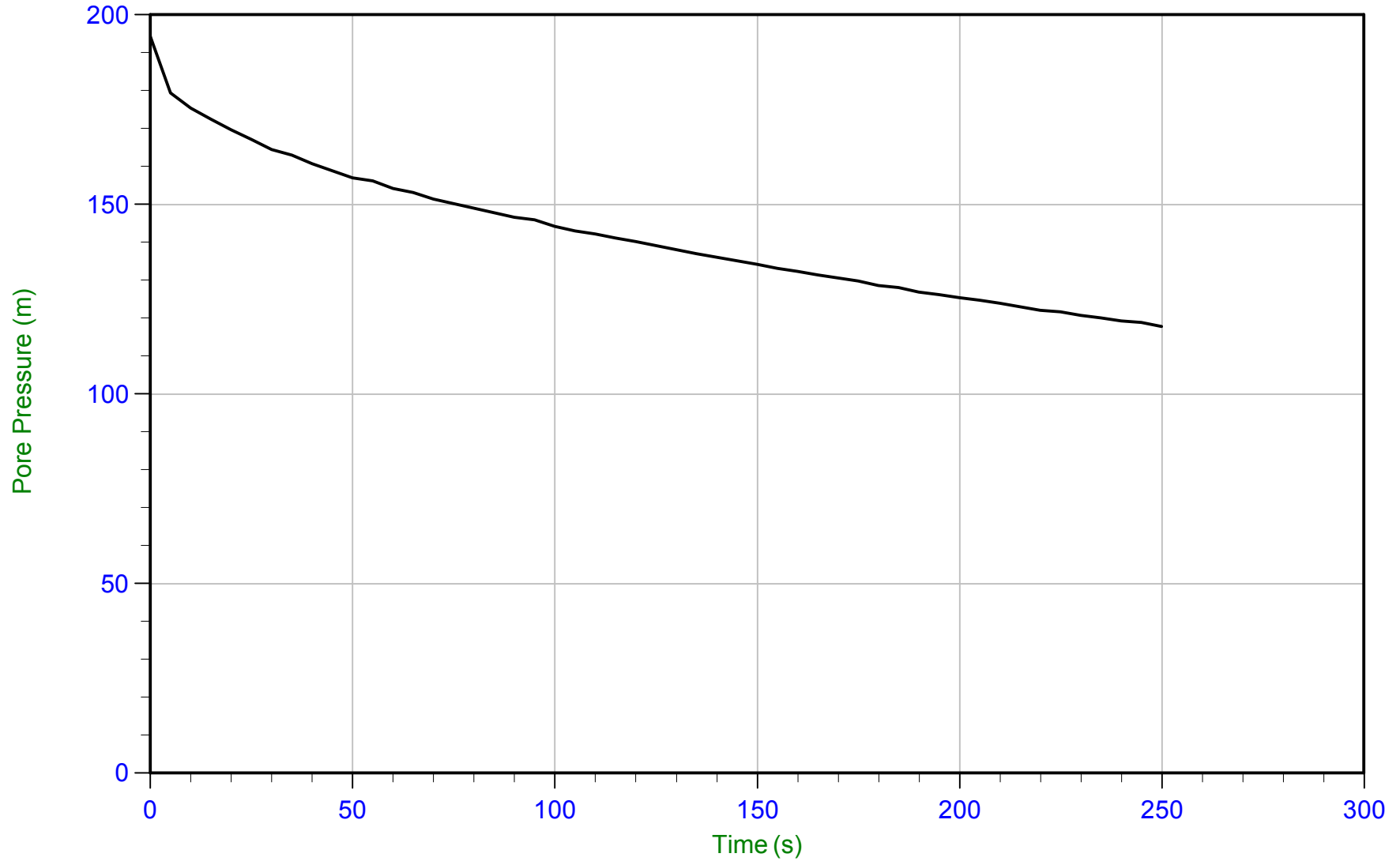
Trace Summary: Filename: 15-02048_SP01.PPF UMin: 116.1 m WT: 4.700 m / 15.420 ft T(50): 612.0 s
 Depth: 60.100 m / 197.176 ft UMax: 185.9 m Ueq: 55.4 m Ir: 100
 Duration: 700.0 s U(50): 120.65 m Ch: 1.1 sq cm/min



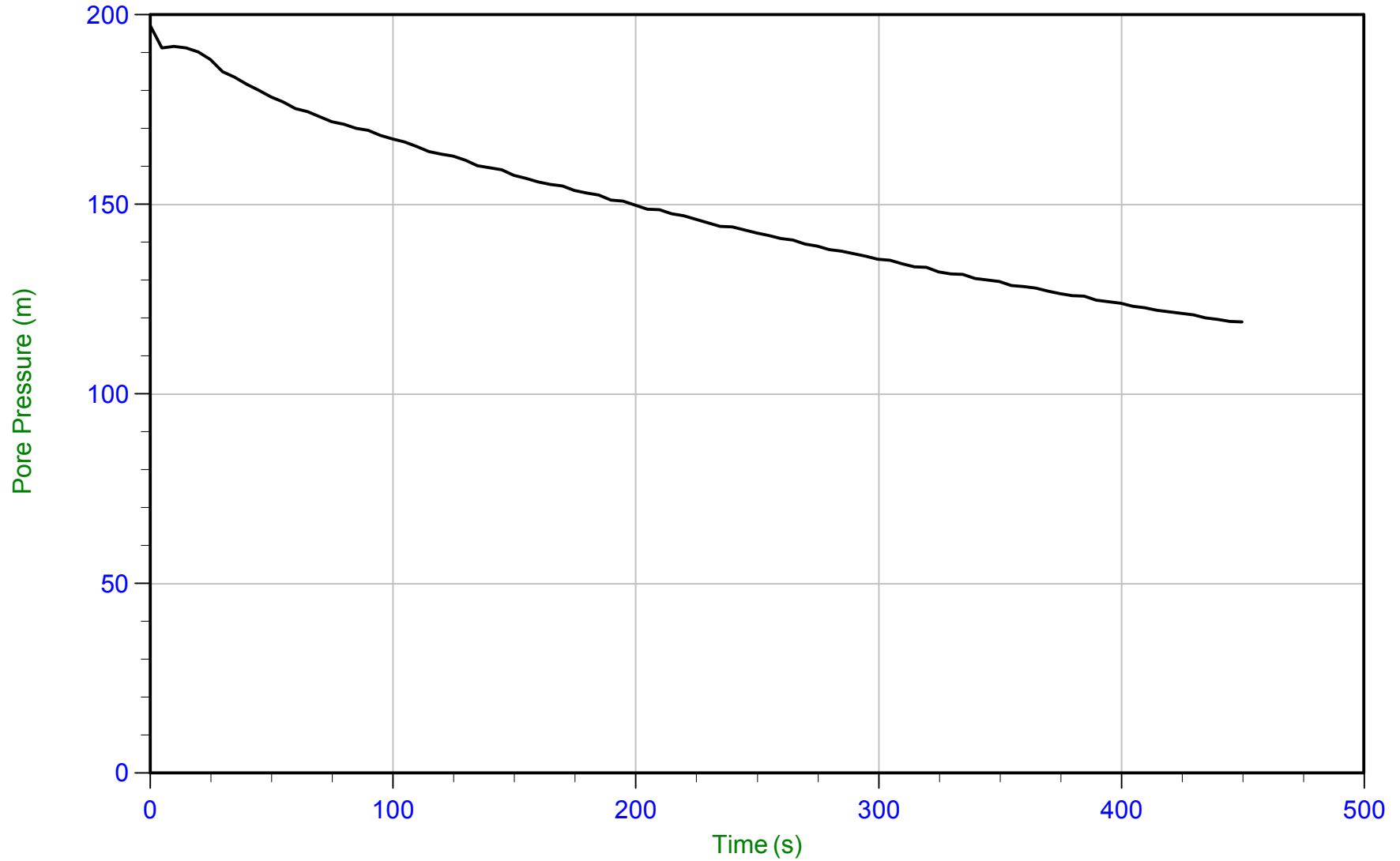
Golder Associates

Job No: 15-02048
Date: 03/22/2016 11:39
Site: Annacis WWTP

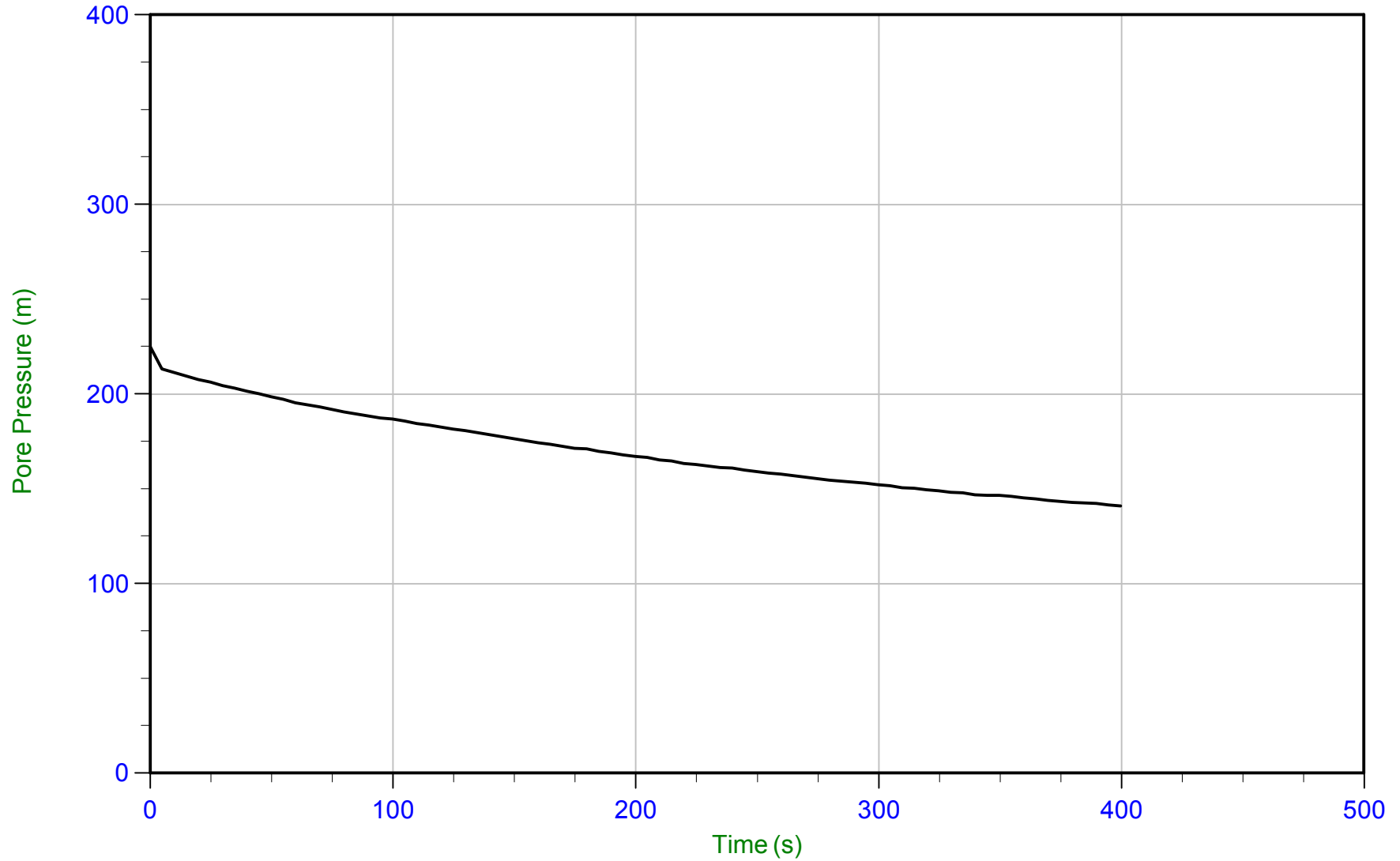
Sounding: SCPT16-01
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



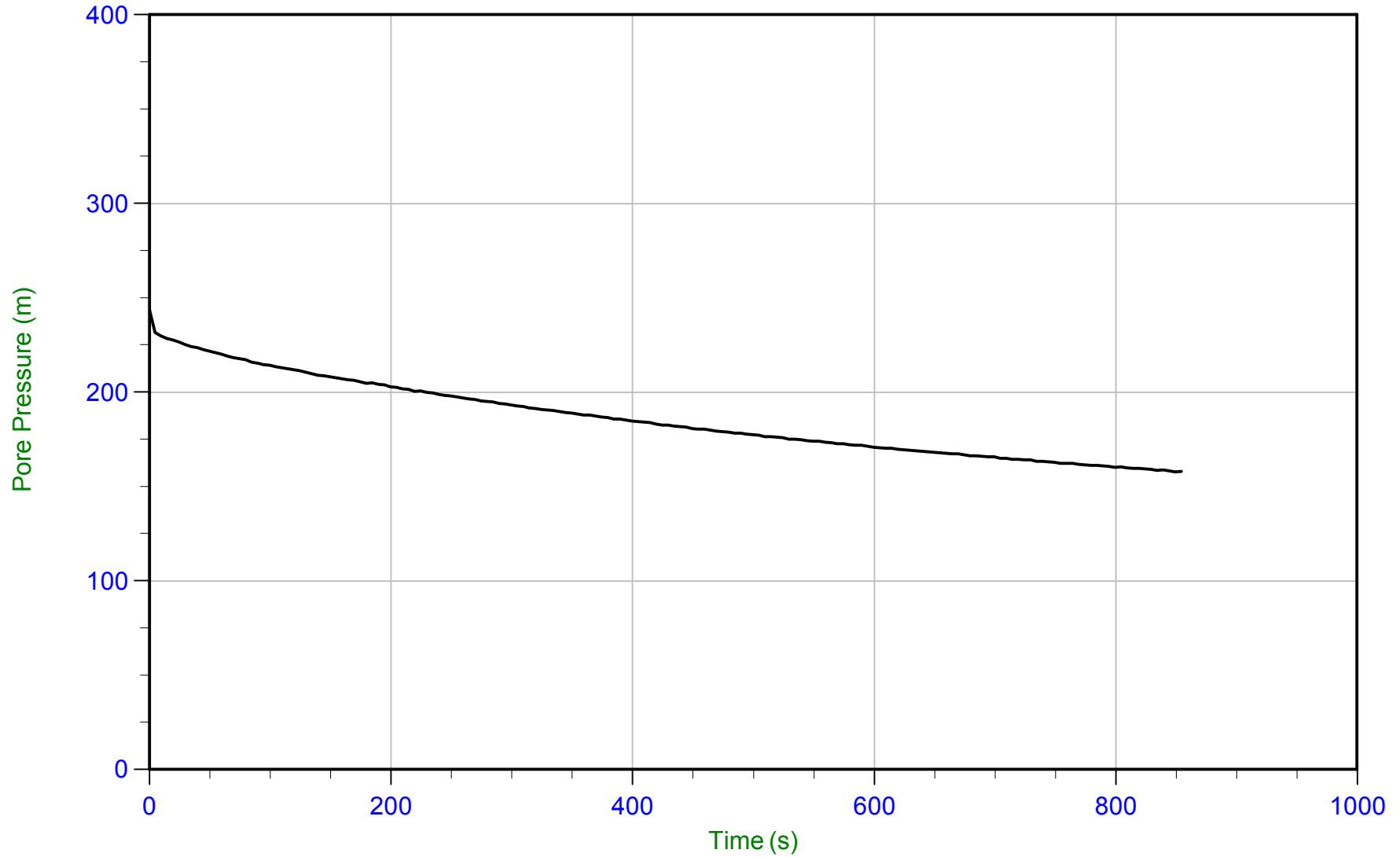
Trace Summary: Filename: 15-02048_SP01.PPF UMin: 117.7 m WT: 4.700 m / 15.420 ft T(50): 189.9 s
Depth: 64.100 m / 210.299 ft UMax: 194.3 m Ueq: 59.4 m Ir: 100
Duration: 250.0 s U(50): 126.86 m Ch: 3.7 sq cm/min



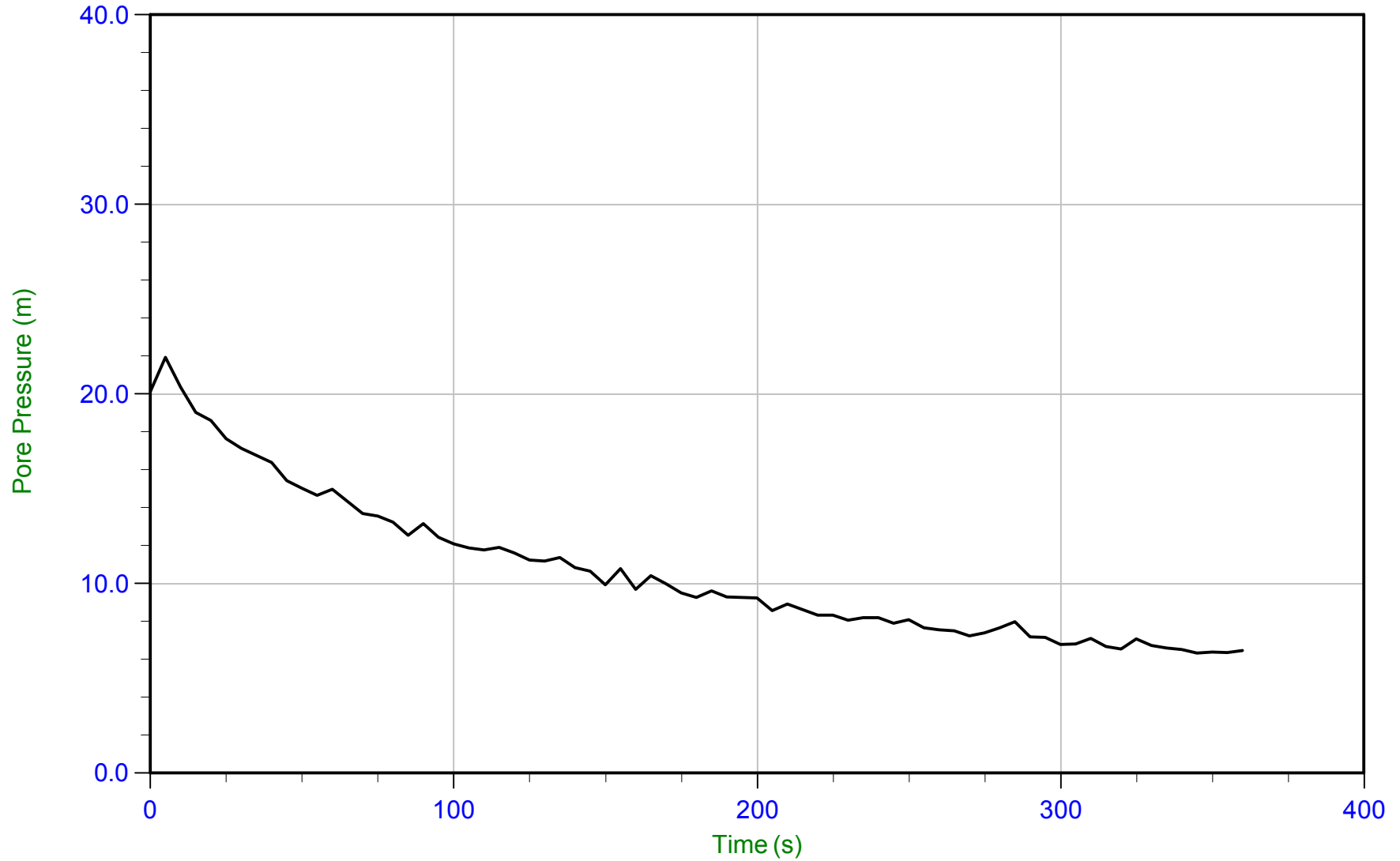
Trace Summary:	Filename: 15-02048_SP01.PPF	U Min: 119.0 m	WT: 4.700 m / 15.420 ft	T(50): 337.6 s
	Depth: 69.400 m / 227.688 ft	U Max: 197.2 m	Ueq: 64.7 m	Ir: 100
	Duration: 450.0 s		U(50): 130.95 m	Ch: 2.1 sq cm/min



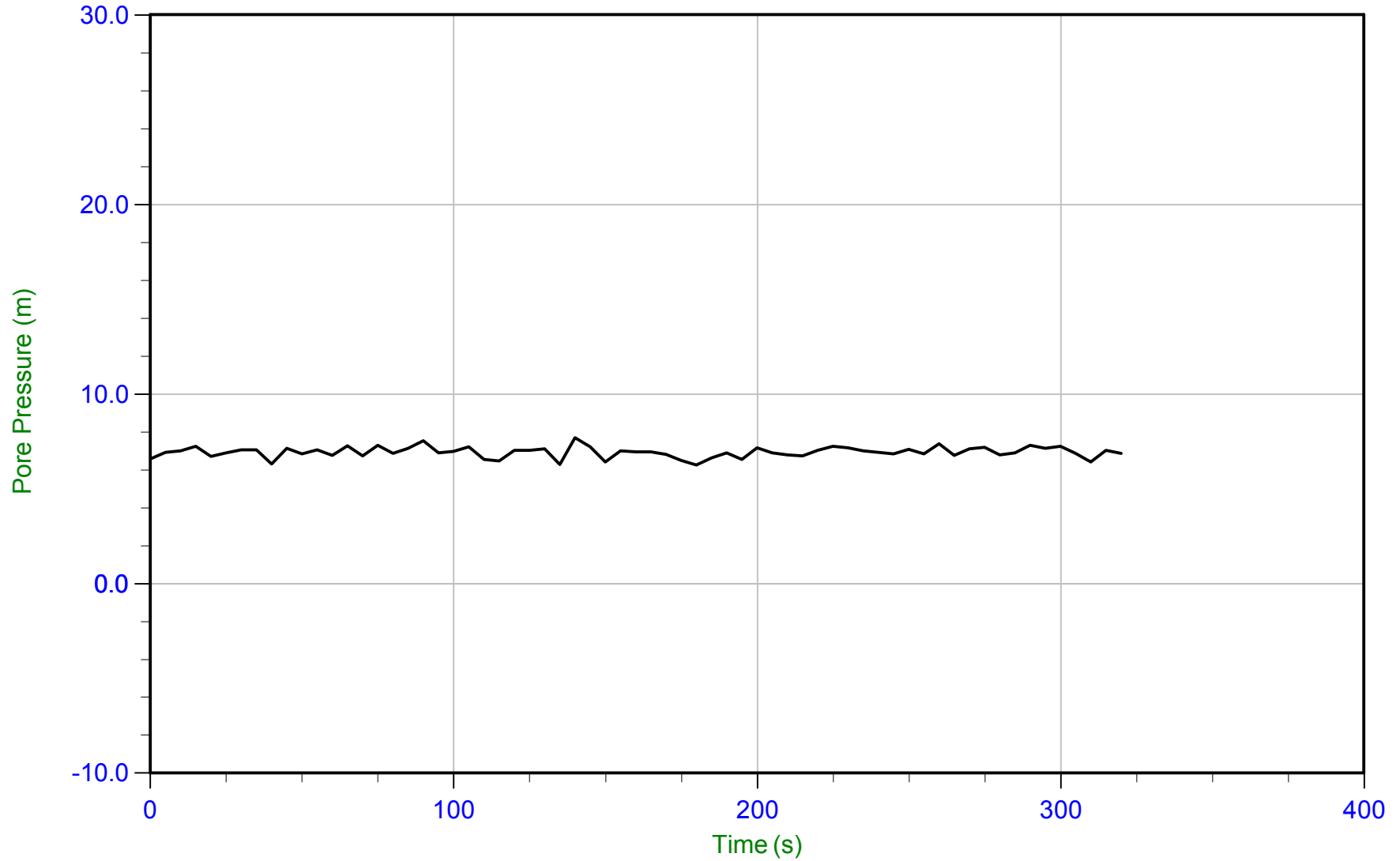
Trace Summary:	Filename: 15-02048_SP01.PPF	U Min: 140.8 m	WT: 4.700 m / 15.420 ft	T(50): 337.9 s
	Depth: 74.250 m / 243.599 ft	U Max: 225.1 m	Ueq: 69.5 m	Ir: 100
	Duration: 400.0 s		U(50): 147.30 m	Ch: 2.1 sq cm/min



Trace Summary:	Filename: 15-02048_SP01.PPF	UMin: 157.8 m	WT: 4.700 m / 15.420 ft	T(50): 844.1 s
	Depth: 78.000 m / 255.902 ft	UMax: 243.6 m	Ueq: 73.3 m	Ir: 100
	Duration: 855.0 s		U(50): 158.45 m	Ch: 0.8 sq cm/min



Trace Summary:	Filename: 15-02048_SP02.PPF	UMin: 6.3 m	WT: 3.400 m / 11.155 ft	T(50): 133.3 s
	Depth: 3.500 m / 11.483 ft	UMax: 21.9 m	Ueq: 0.1 m	Ir: 100
	Duration: 360.0 s		U(50): 11.02 m	Ch: 5.3 sq cm/min



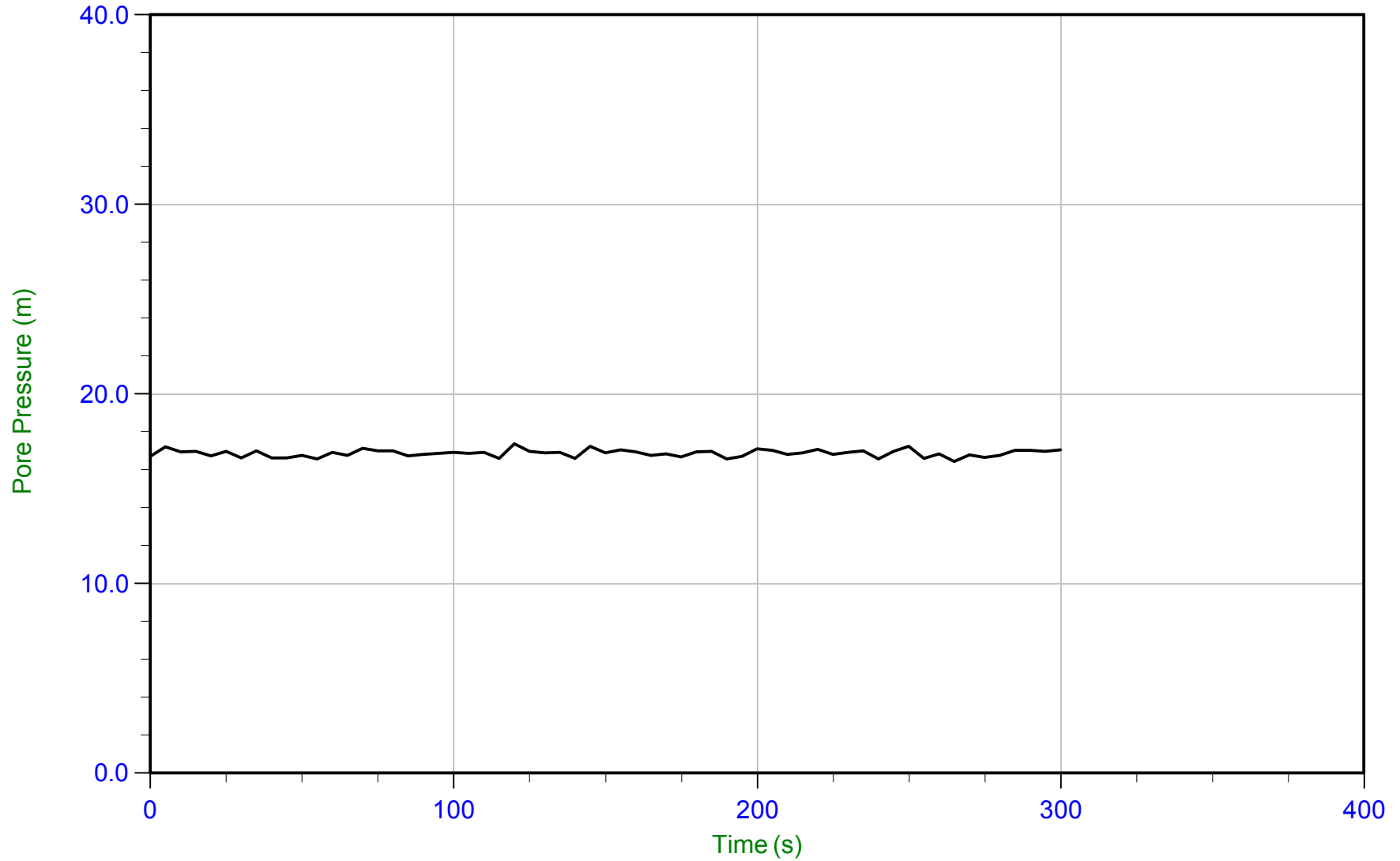
Trace Summary: Filename: 15-02048_SP02.PPF UMin: 6.2 m WT: 3.380 m / 11.089 ft
 Depth: 10.200 m / 33.464 ft UMax: 7.7 m Ueq: 6.8 m
 Duration: 320.0 s



Golder Associates

Job No: 15-02048
Date: 03/23/2016 08:20
Site: Annacis WWTP

Sounding: SCPT16-02
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



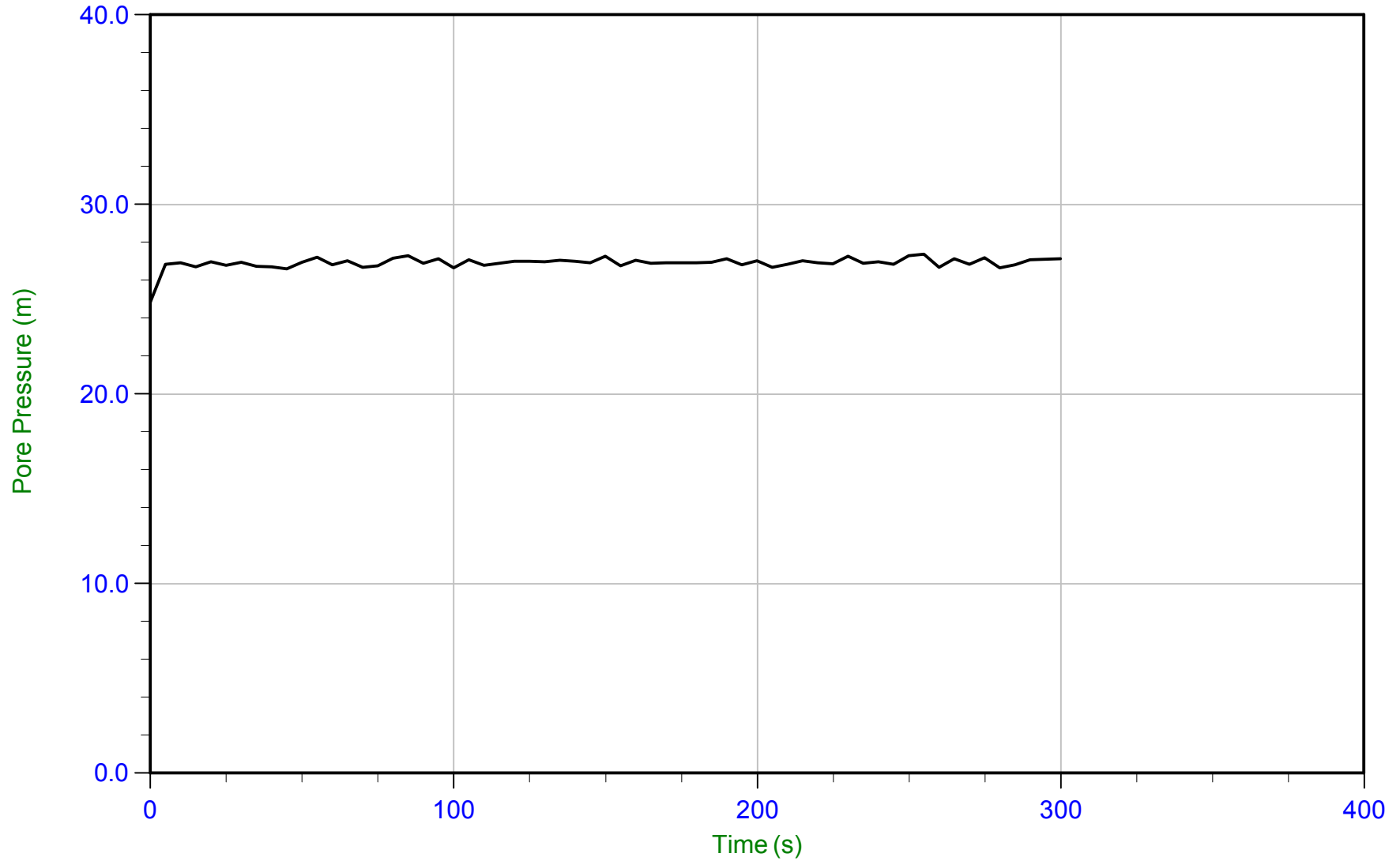
Trace Summary: Filename: 15-02048_SP02.PPF UMin: 16.4 m WT: 3.280 m / 10.761 ft
Depth: 20.100 m / 65.944 ft UMax: 17.4 m Ueq: 16.8 m
Duration: 300.0 s



Golder Associates

Job No: 15-02048
Date: 03/23/2016 08:20
Site: Annacis WWTP

Sounding: SCPT16-02
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



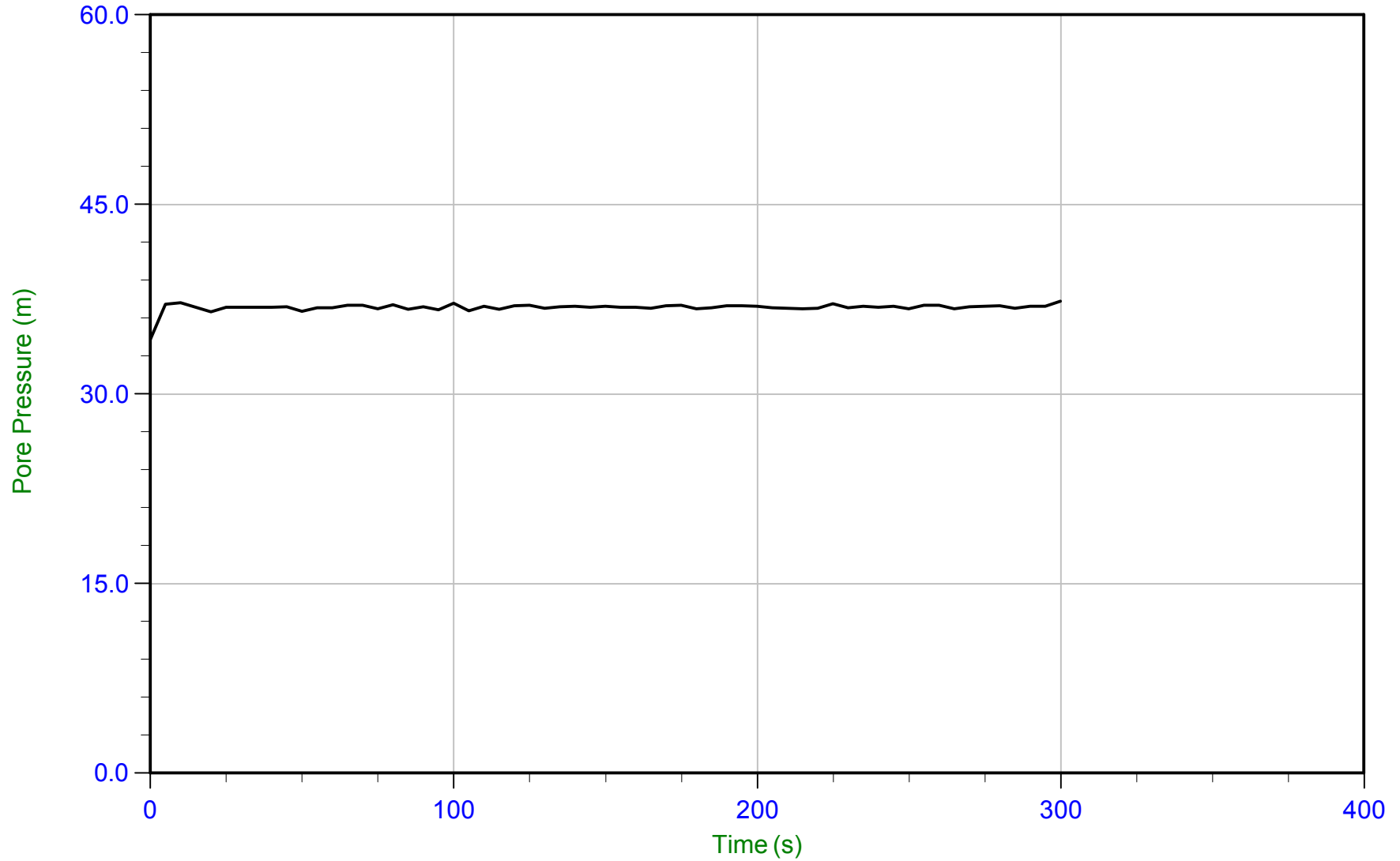
Trace Summary: Filename: 15-02048_SP02.PPF UMin: 24.8 m WT: 3.254 m / 10.676 ft
Depth: 30.200 m / 99.080 ft UMax: 27.4 m Ueq: 26.9 m
Duration: 300.0 s



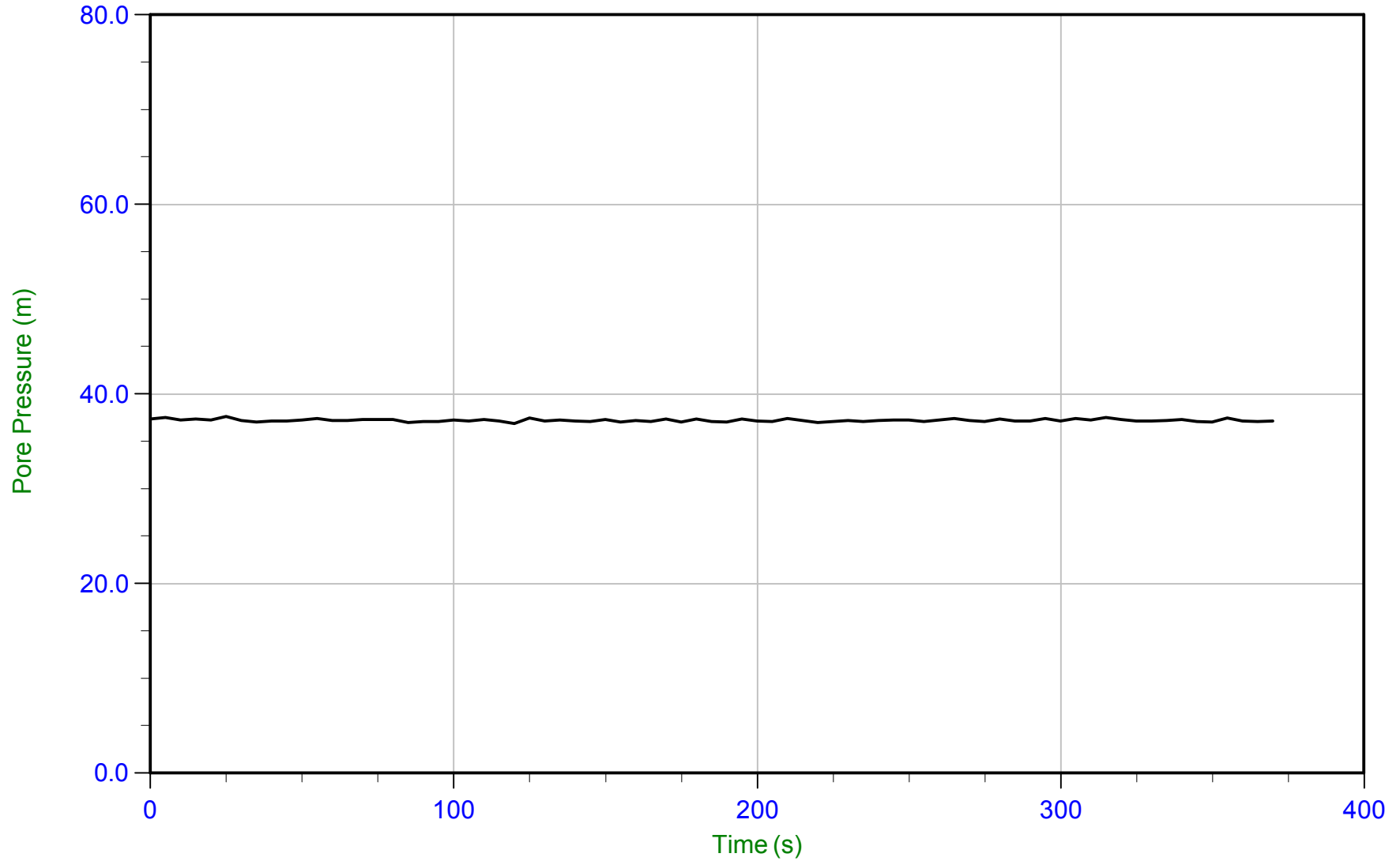
Golder Associates

Job No: 15-02048
Date: 03/23/2016 08:20
Site: Annacis WWTP

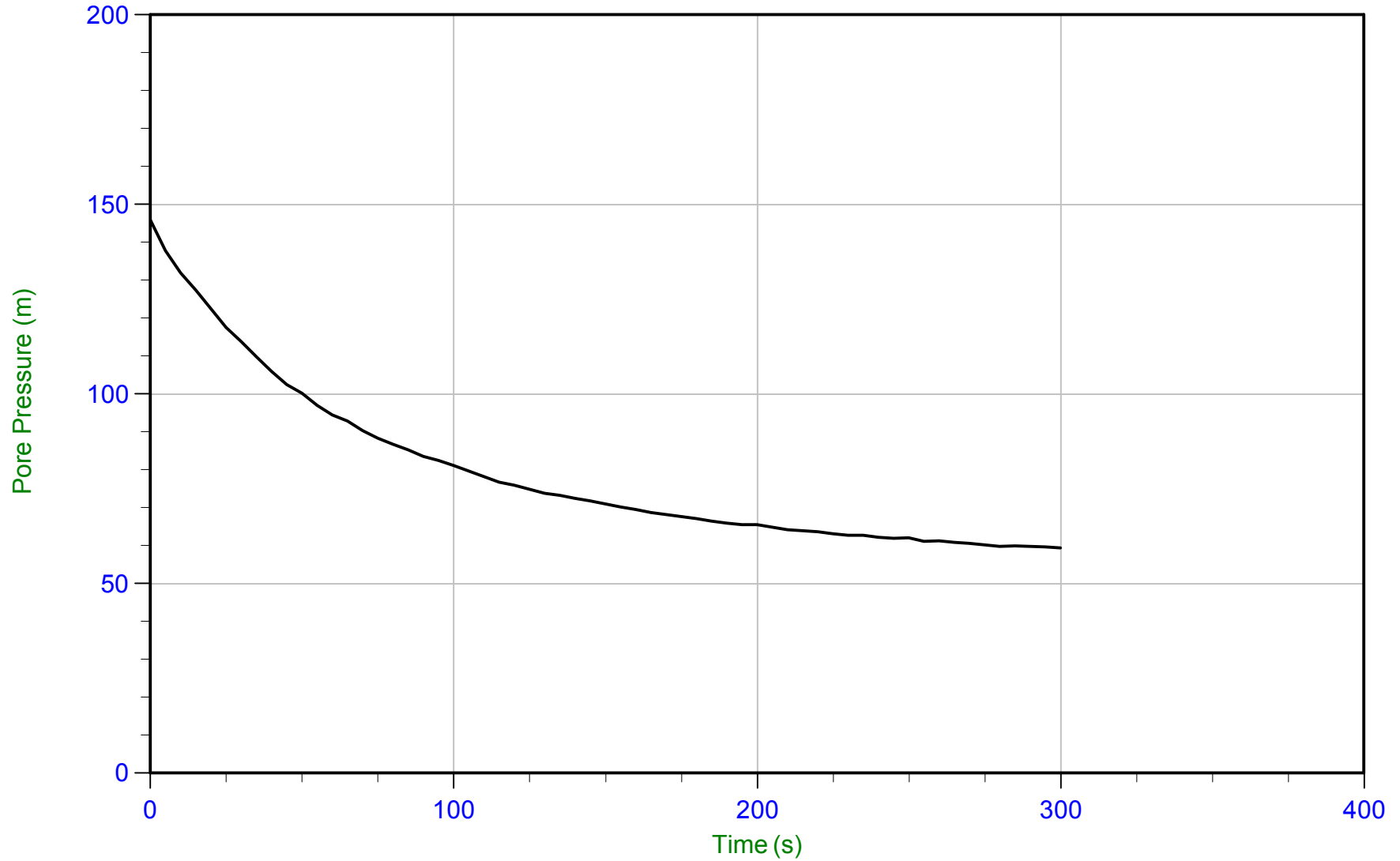
Sounding: SCPT16-02
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP02.PPF UMin: 34.3 m WT: 3.322 m / 10.899 ft
Depth: 40.100 m / 131.560 ft UMax: 37.3 m Ueq: 36.8 m
Duration: 300.0 s



Trace Summary: Filename: 15-02048_SP02.PPF UMin: 36.9 m WT: 3.195 m / 10.482 ft
 Depth: 40.350 m / 132.380 ft UMax: 37.6 m Ueq: 37.2 m
 Duration: 370.0 s

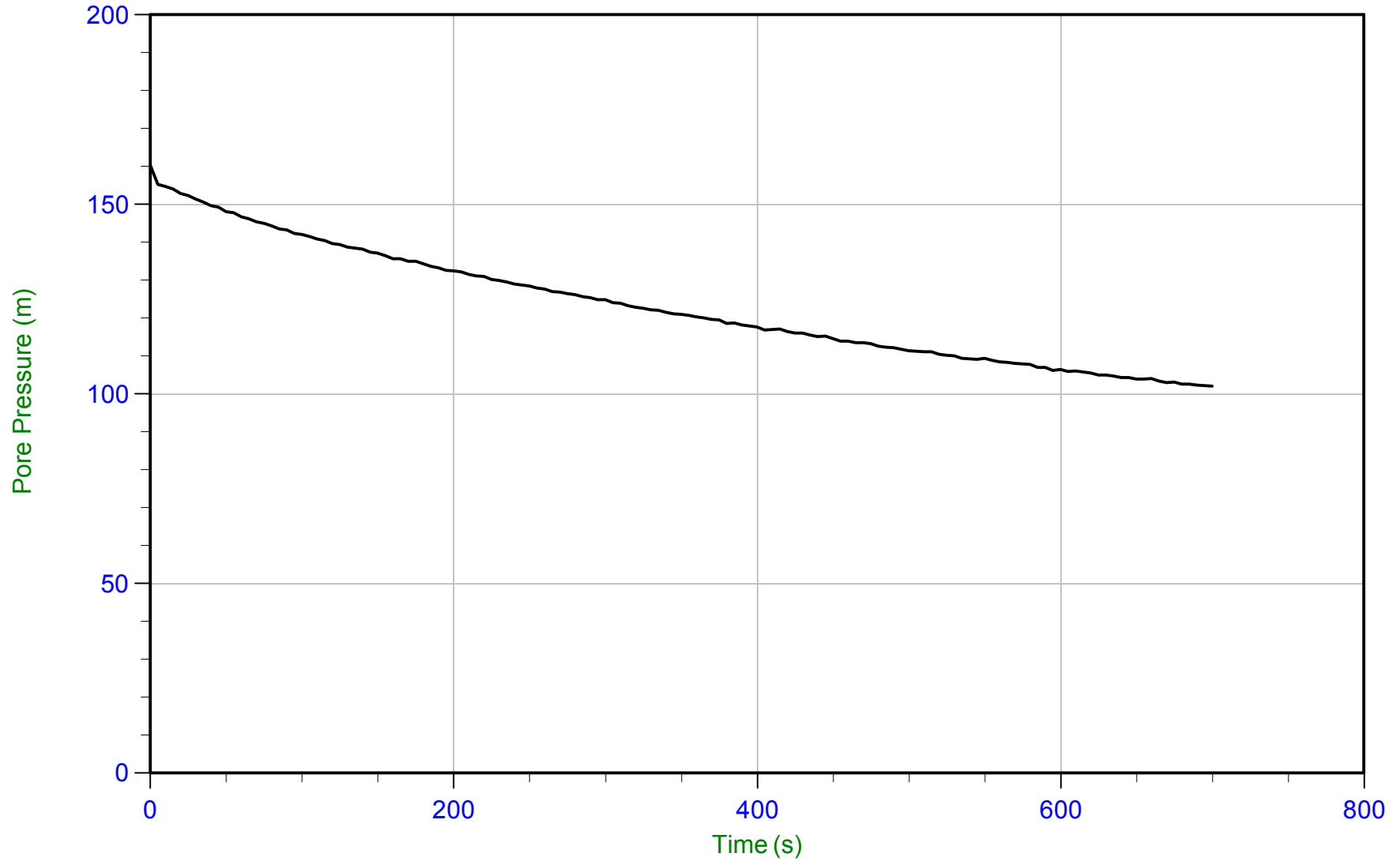


Trace Summary: Filename: 15-02048_SP02.PPF
 Depth: 50.100 m / 164.368 ft
 Duration: 300.0 s

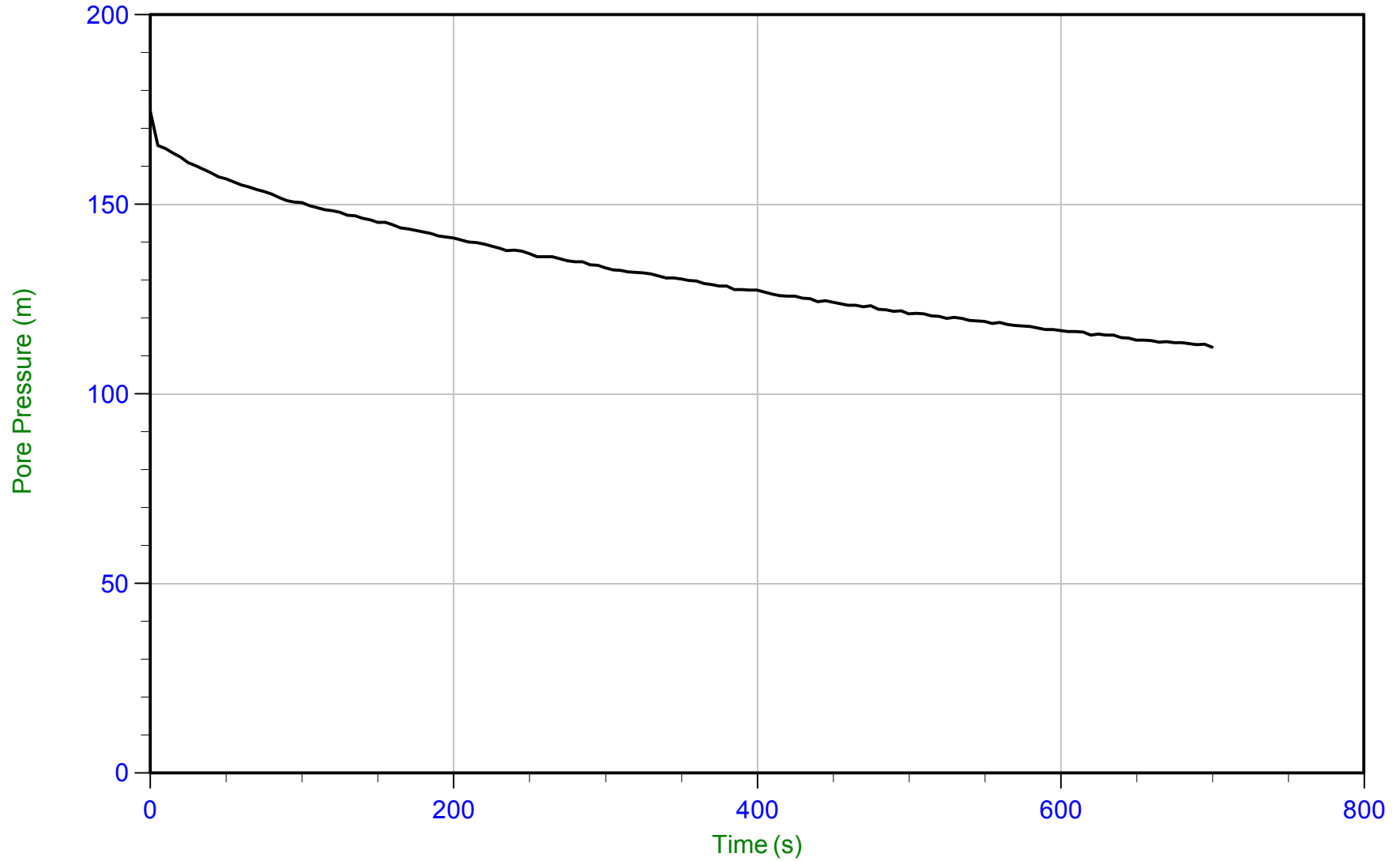
UMin: 59.4 m
 UMax: 146.0 m

WT: 3.400 m / 11.155 ft
 Ueq: 46.7 m
 U(50): 96.34 m

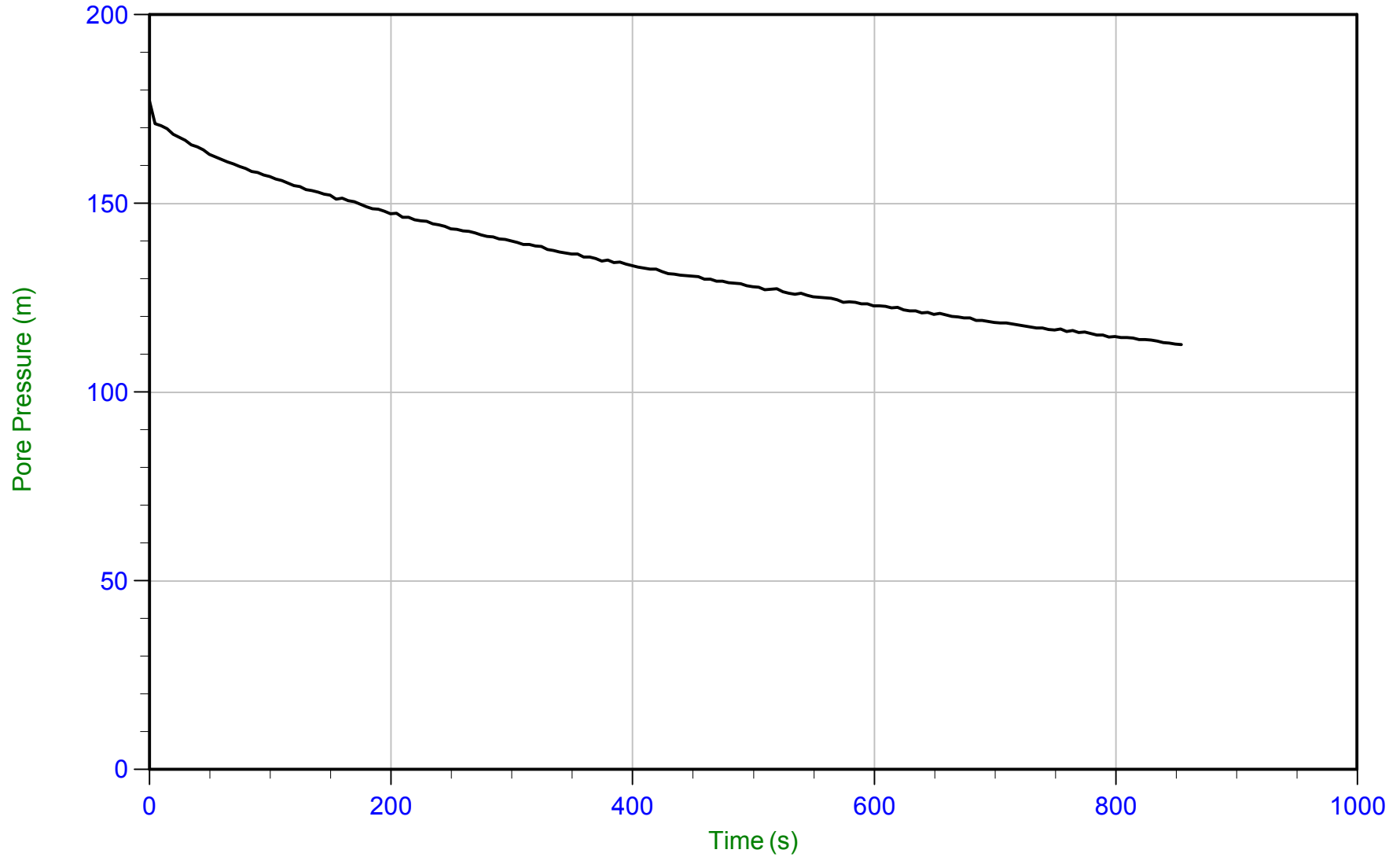
T(50): 56.4 s
 Ir: 100
 Ch: 12.5 sq cm/min



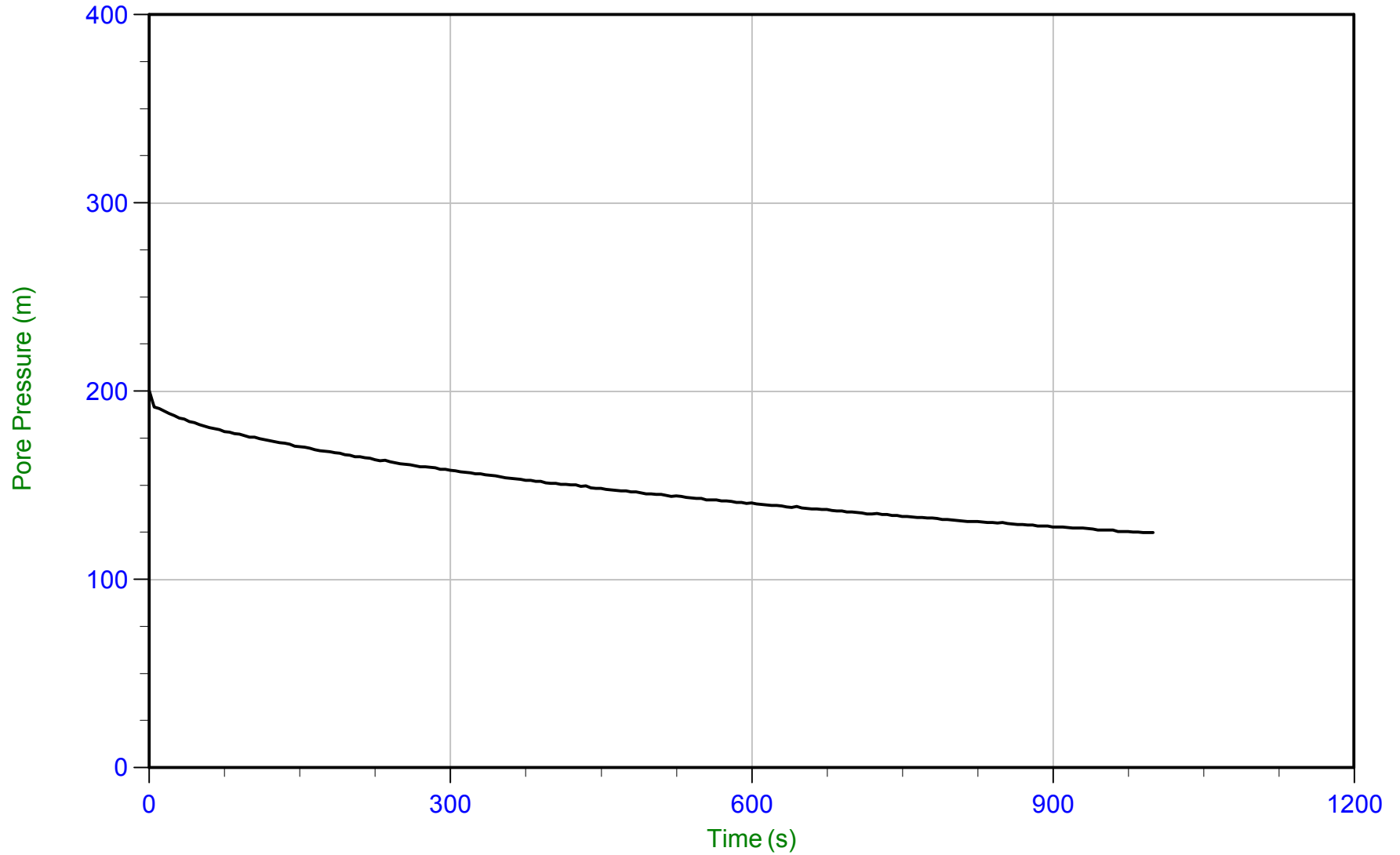
Trace Summary: Filename: 15-02048_SP02.PPF UMin: 102.0 m WT: 3.400 m / 11.155 ft T(50): 624.6 s
 Depth: 53.100 m / 174.210 ft UMax: 160.3 m Ueq: 49.7 m Ir: 100
 Duration: 700.0 s U(50): 105.02 m Ch: 1.1 sq cm/min



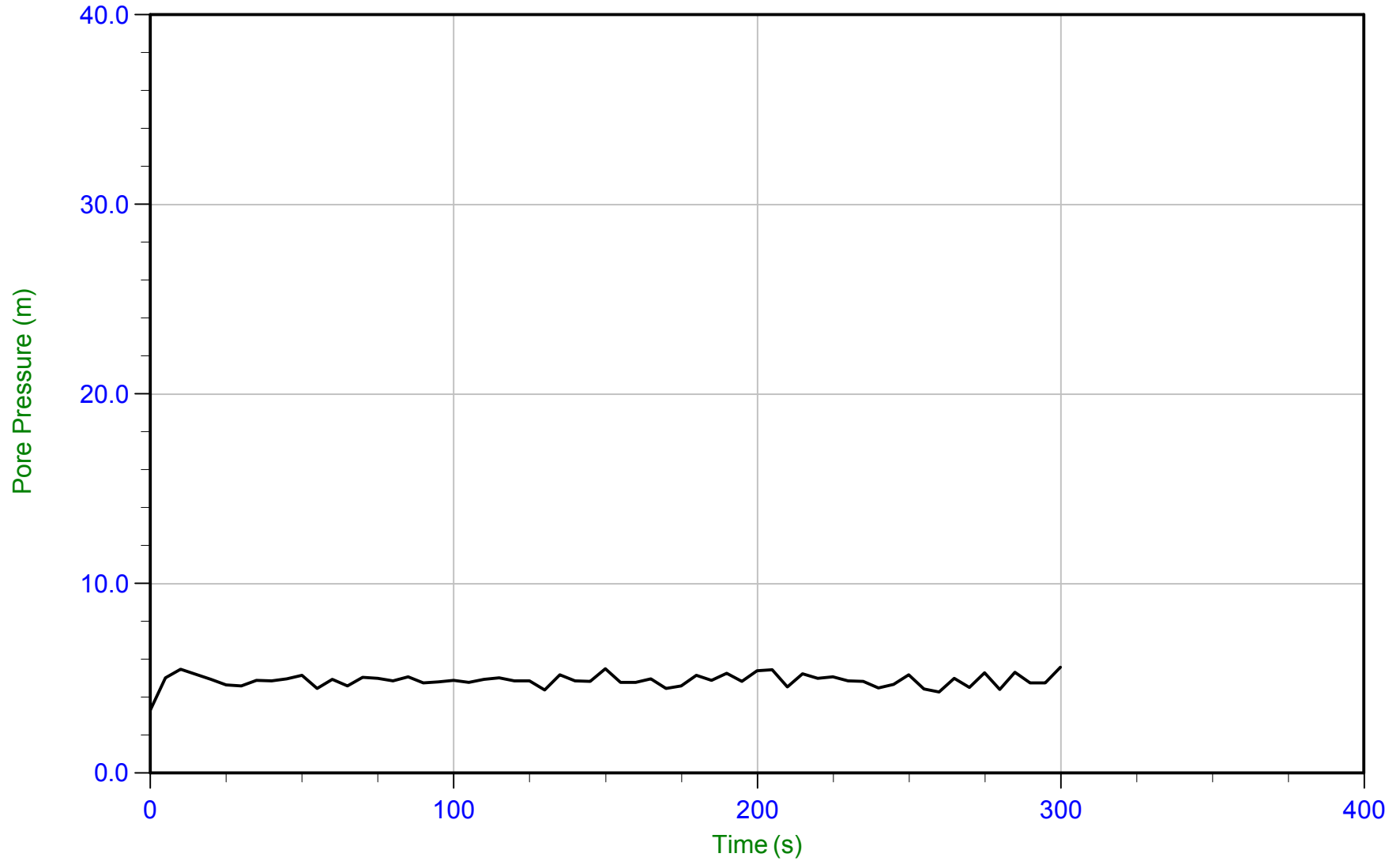
Trace Summary: Filename: 15-02048_SP02.PPF UMin: 112.4 m WT: 3.400 m / 11.155 ft T(50): 688.0 s
 Depth: 55.000 m / 180.444 ft UMax: 174.6 m Ueq: 51.6 m Ir: 100
 Duration: 700.0 s U(50): 113.09 m Ch: 1.0 sq cm/min



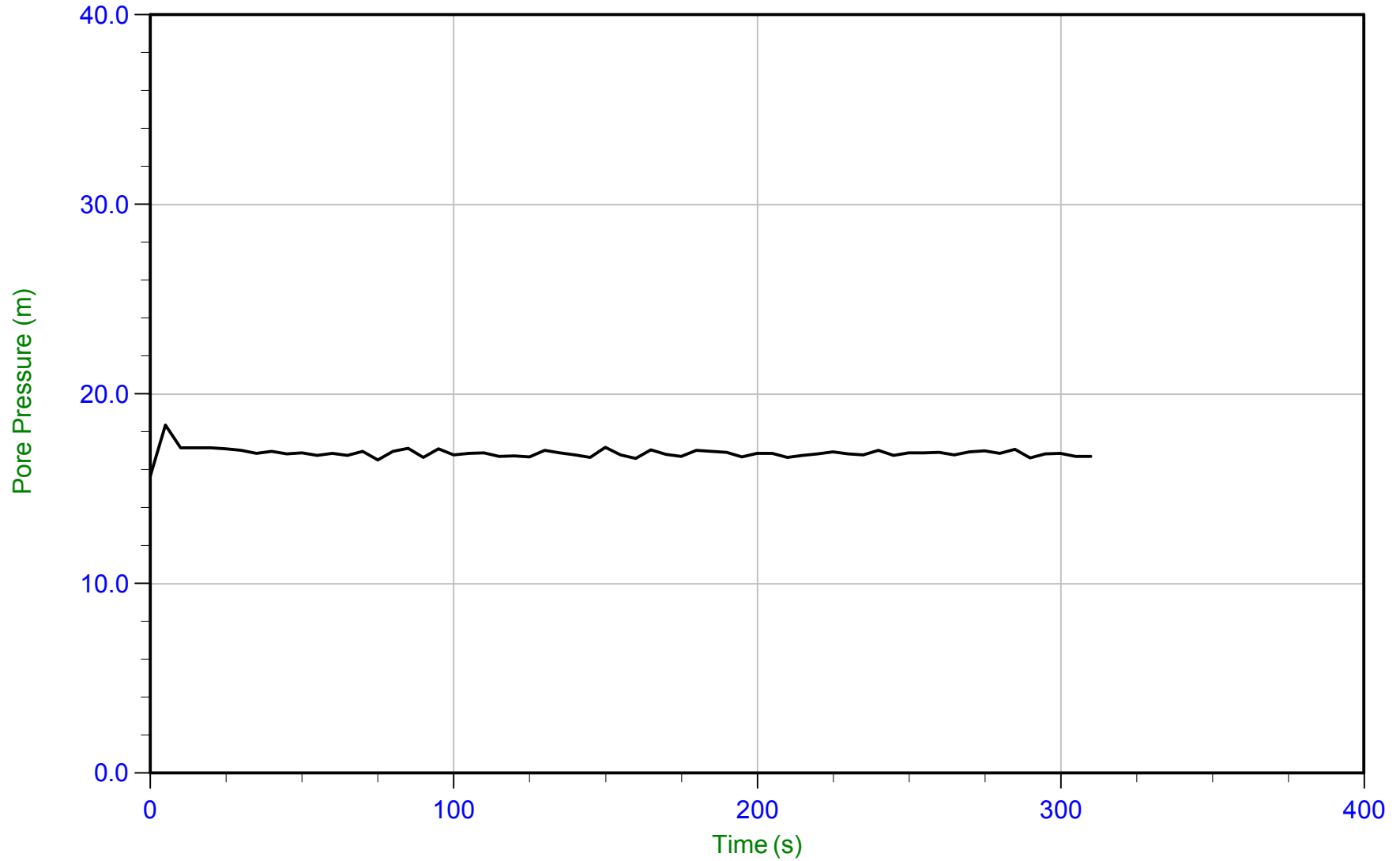
Trace Summary:	Filename: 15-02048_SP02.PPF	U Min: 112.6 m	WT: 3.400 m / 11.155 ft	T(50): 779.8 s
	Depth: 57.500 m / 188.646 ft	U Max: 177.1 m	Ueq: 54.1 m	Ir: 100
	Duration: 855.0 s		U(50): 115.59 m	Ch: 0.9 sq cm/min



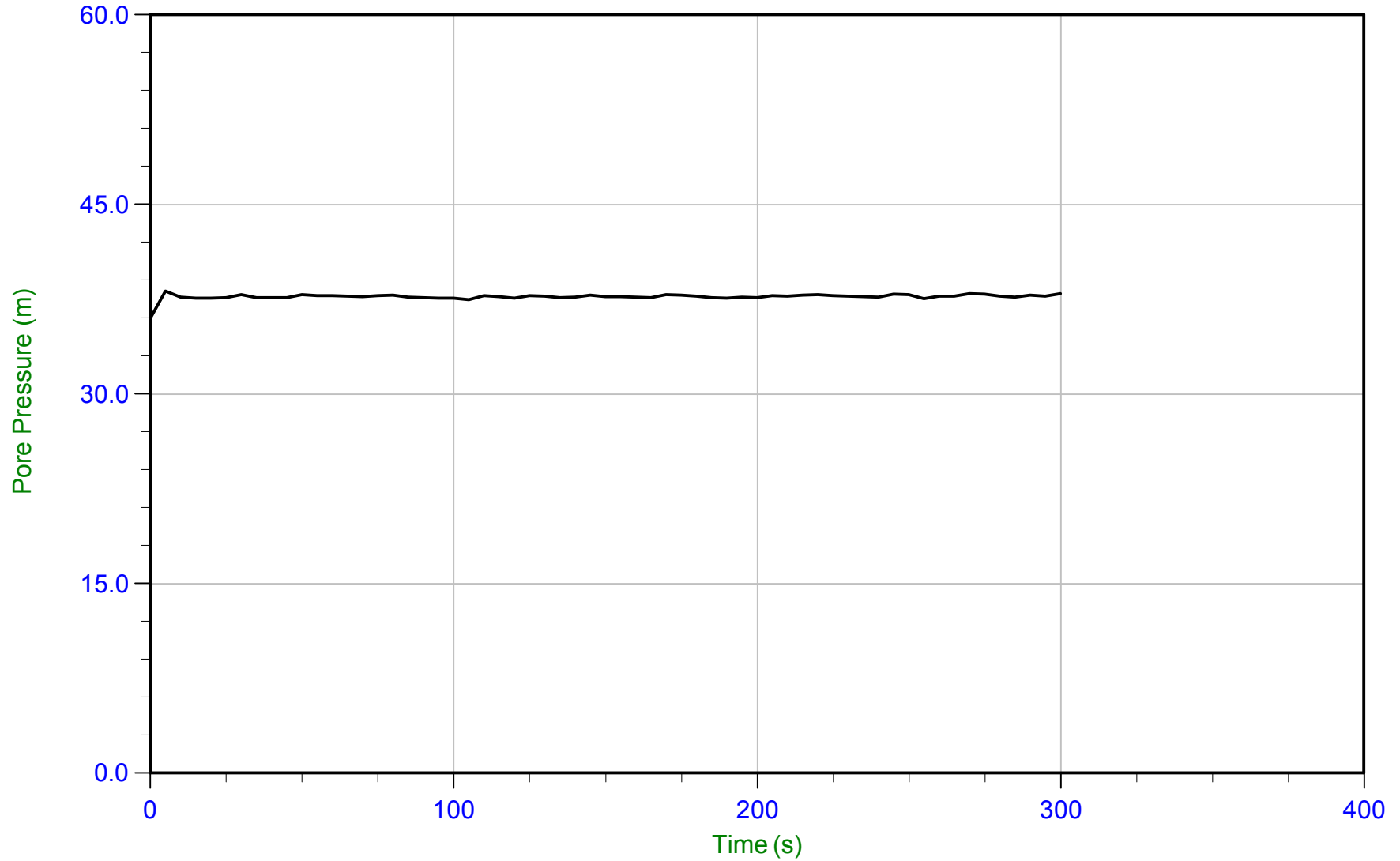
Trace Summary:	Filename: 15-02048_SP02.PPF	U Min: 124.8 m	WT: 3.400 m / 11.155 ft	T(50): 883.6 s
	Depth: 60.000 m / 196.848 ft	U Max: 200.4 m	Ueq: 56.6 m	Ir: 100
	Duration: 1000.0 s		U(50): 128.52 m	Ch: 0.8 sq cm/min



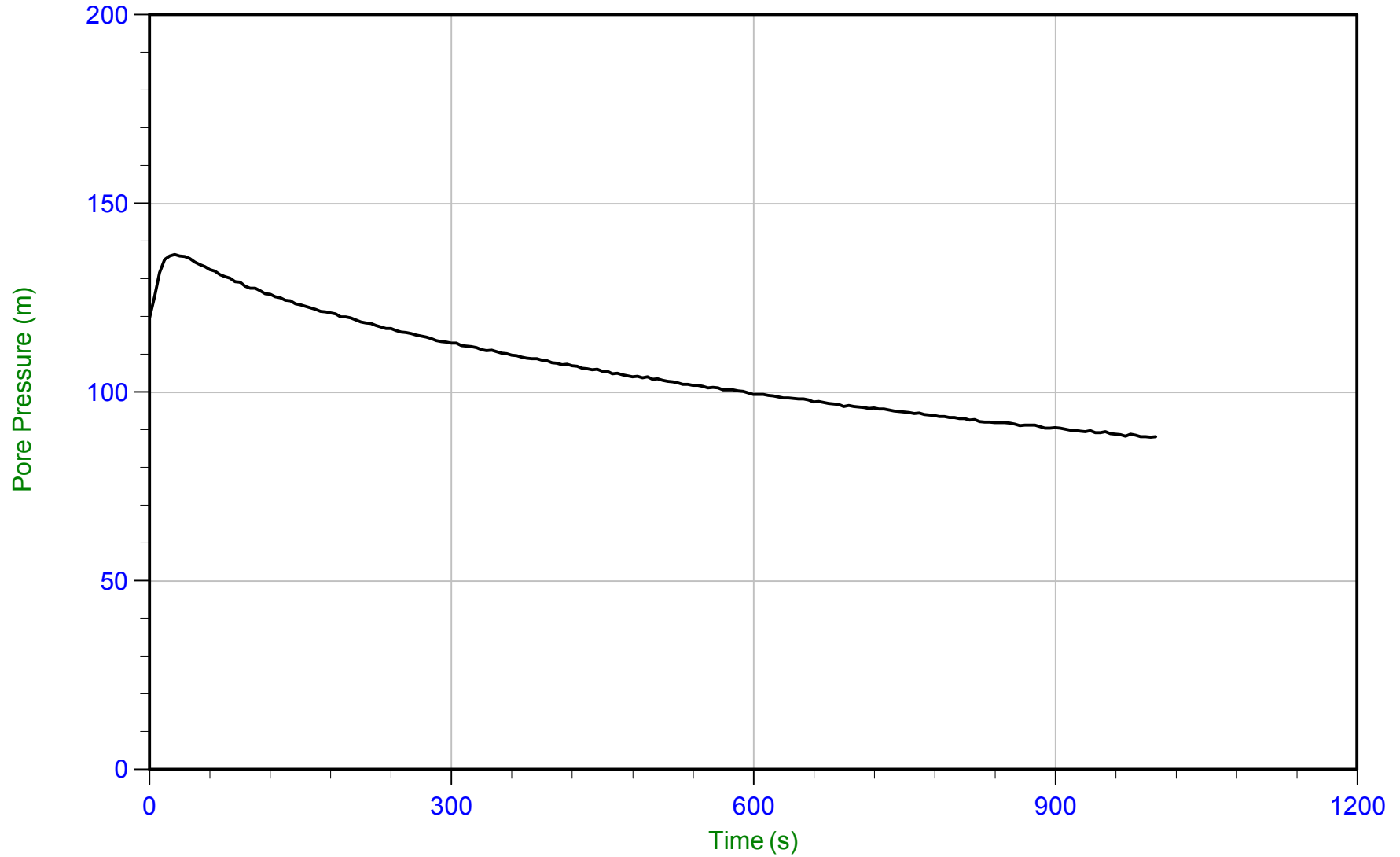
Trace Summary: Filename: 15-02048_SP03.PPF UMin: 3.3 m WT: 3.330 m / 10.925 ft
 Depth: 8.100 m / 26.574 ft UMax: 5.6 m Ueq: 4.8 m
 Duration: 300.0 s



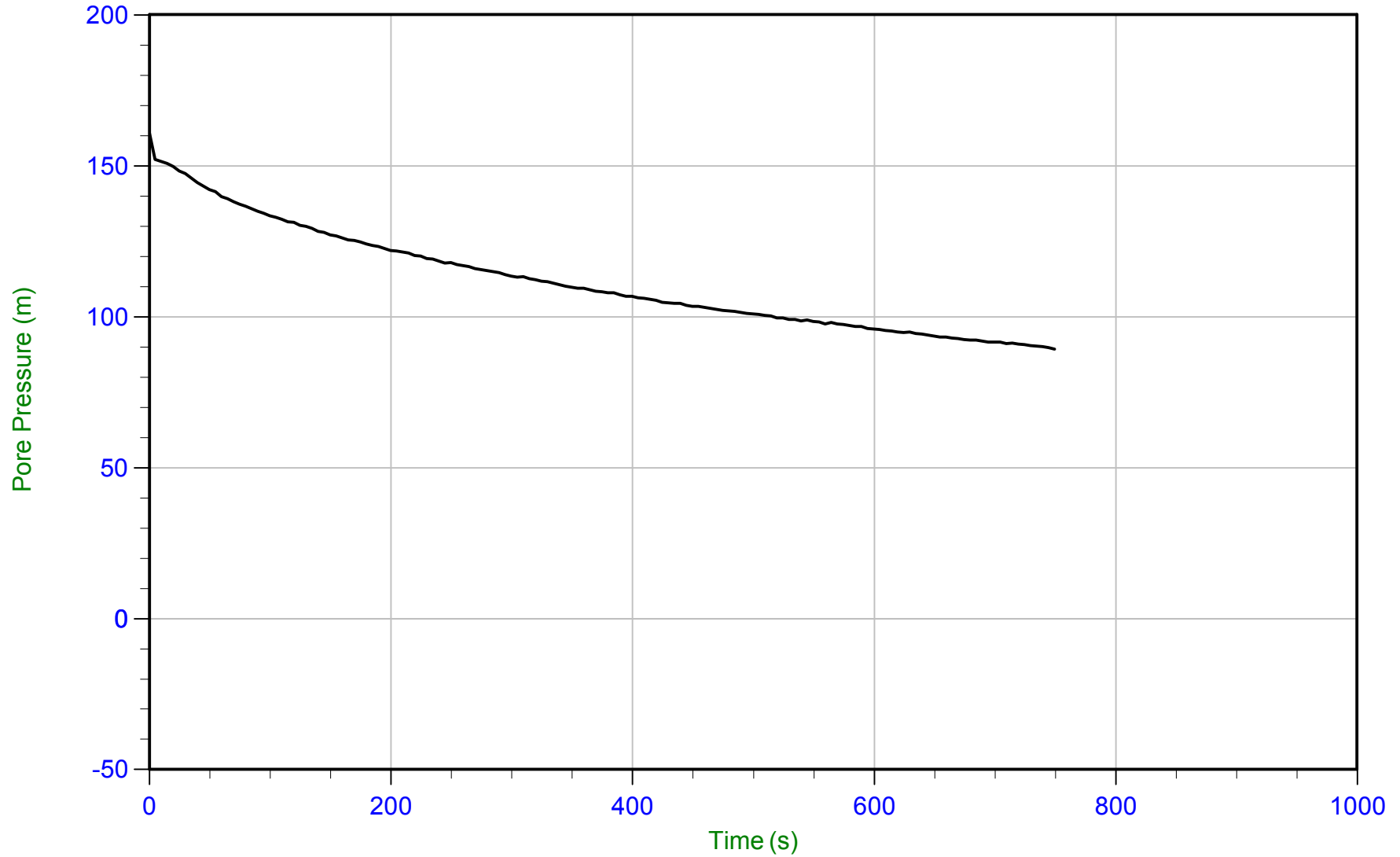
Trace Summary:	Filename: 15-02048_SP03.PPF	UMin: 15.7 m	WT: 3.364 m / 11.037 ft
	Depth: 20.100 m / 65.944 ft	UMax: 18.4 m	Ueq: 16.7 m
	Duration: 310.0 s		



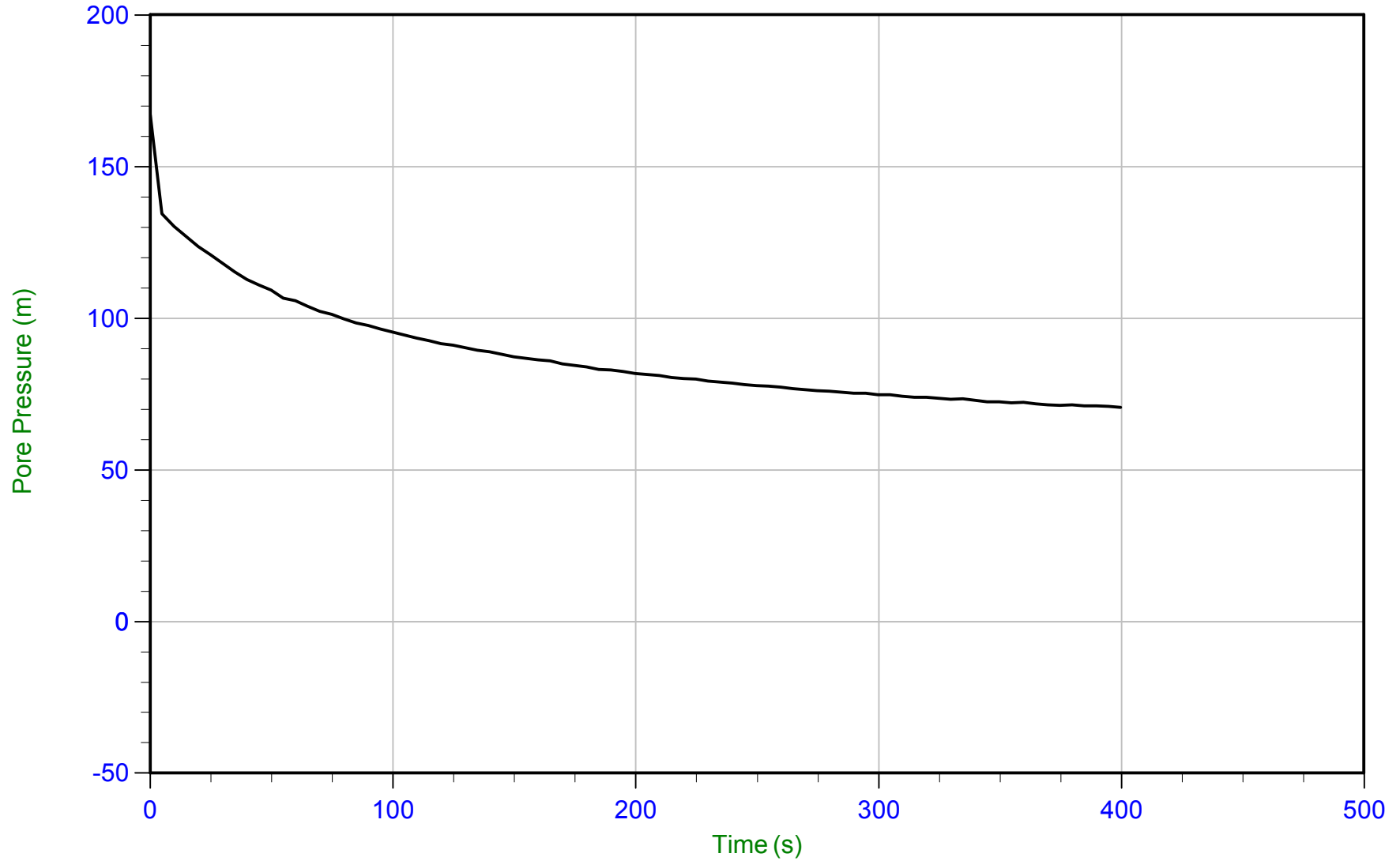
Trace Summary: Filename: 15-02048_SP03.PPF UMin: 36.0 m WT: 3.443 m / 11.296 ft
 Depth: 41.100 m / 134.841 ft UMax: 38.2 m Ueq: 37.7 m
 Duration: 300.0 s



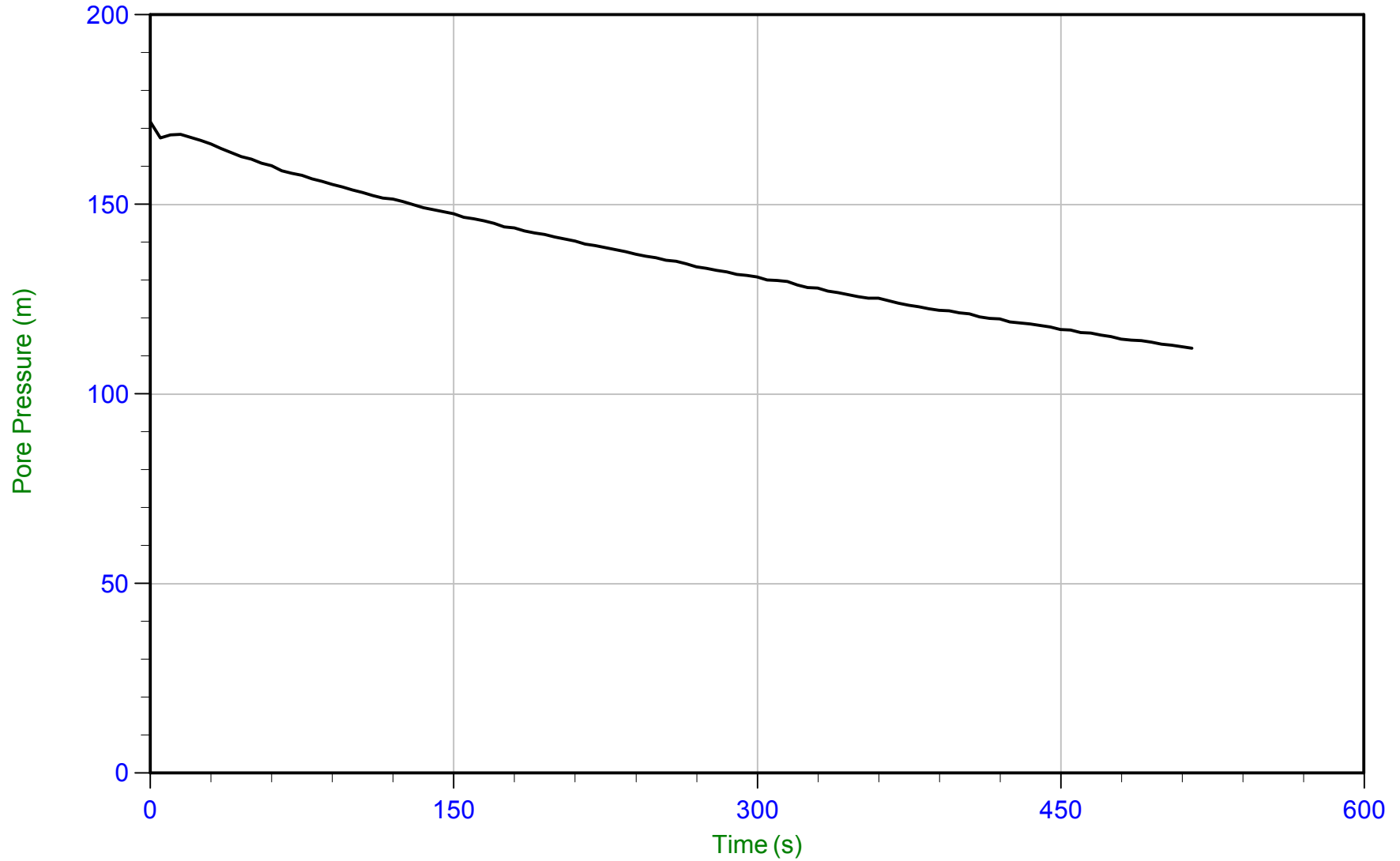
Trace Summary: Filename: 15-02048_SP03.PPF UMin: 88.1 m WT: 3.300 m / 10.827 ft T(50): 857.0 s
 Depth: 49.100 m / 161.087 ft UMax: 136.4 m Ueq: 45.8 m Ir: 100
 Duration: 1000.0 s U(50): 91.10 m Ch: 0.8 sq cm/min



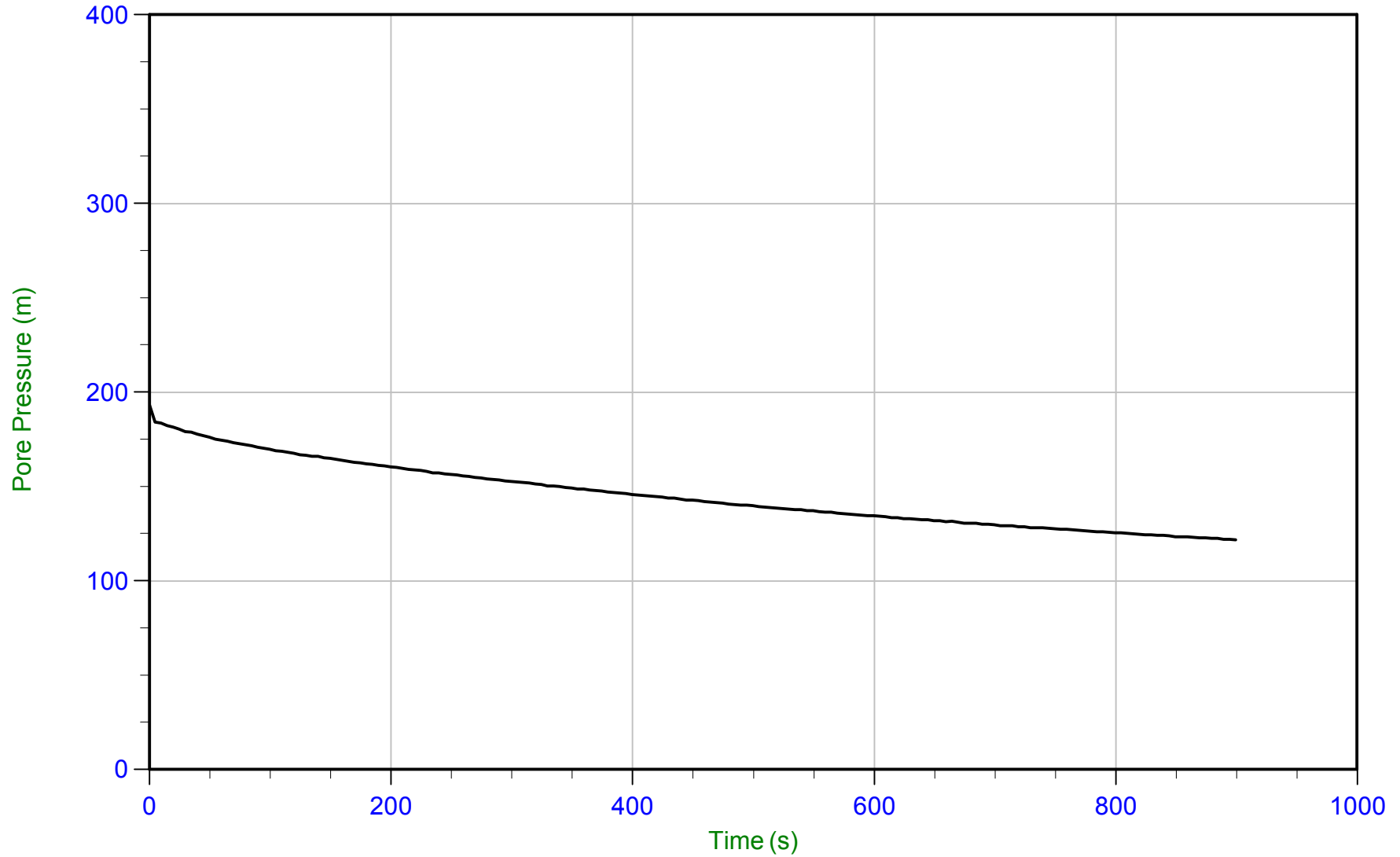
Trace Summary:	Filename: 15-02048_SP03.PPF	UMin: 89.3 m	WT: 3.300 m / 10.827 ft	T(50): 425.0 s
	Depth: 52.100 m / 170.930 ft	UMax: 160.7 m	Ueq: 48.8 m	Ir: 100
	Duration: 750.0 s		U(50): 104.77 m	Ch: 1.7 sq cm/min



Trace Summary:	Filename: 15-02048_SP03.PPF	UMin: 70.5 m	WT: 3.300 m / 10.827 ft	T(50): 49.3 s
	Depth: 55.000 m / 180.444 ft	UMax: 167.1 m	Ueq: 51.7 m	Ir: 100
	Duration: 400.0 s		U(50): 109.41 m	Ch: 14.2 sq cm/min



Trace Summary:	Filename: 15-02048_SP03.PPF	UMin: 112.1 m	WT: 3.300 m / 10.827 ft	T(50): 483.4 s
	Depth: 60.100 m / 197.176 ft	UMax: 171.8 m	Ueq: 56.8 m	Ir: 100
	Duration: 515.0 s		U(50): 114.28 m	Ch: 1.5 sq cm/min



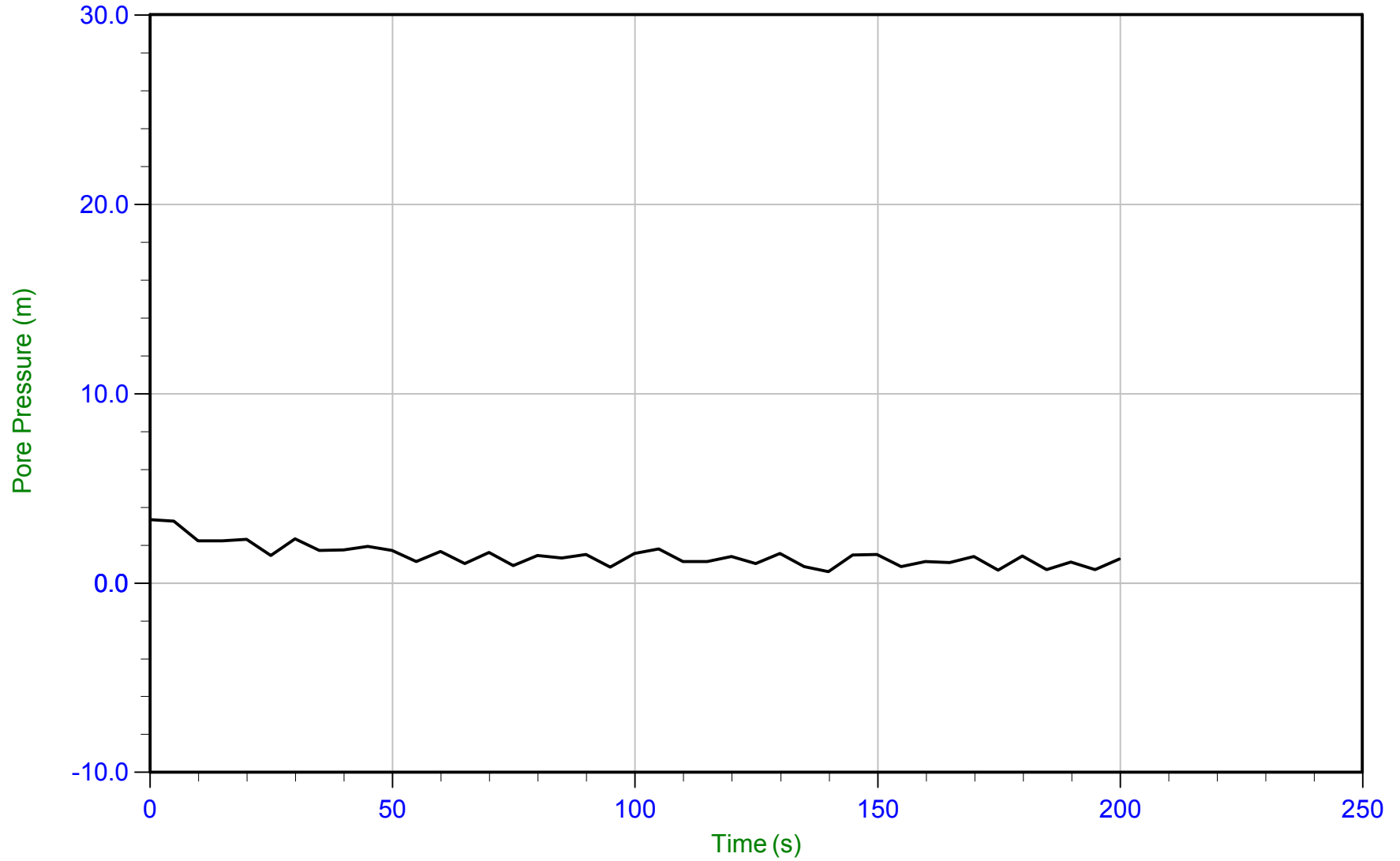
Trace Summary: Filename: 15-02048_SP03.PPF UMin: 121.6 m WT: 3.300 m / 10.827 ft T(50): 773.7 s
 Depth: 63.000 m / 206.690 ft UMax: 193.3 m Ueq: 59.7 m Ir: 100
 Duration: 900.0 s U(50): 126.51 m Ch: 0.9 sq cm/min



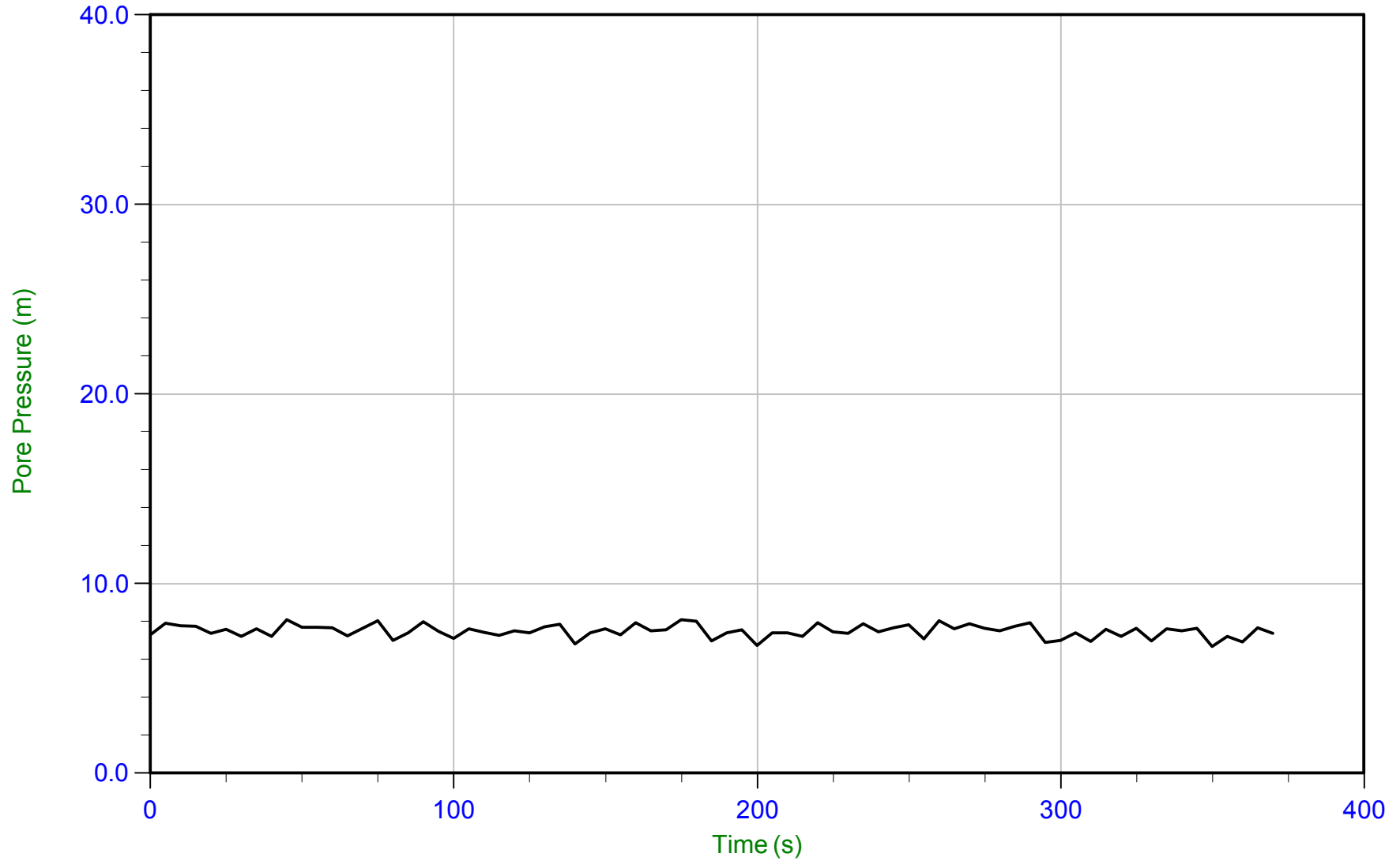
Golder Associates

Job No: 15-02048
Date: 03/21/2016 08:28
Site: Annacis WWTP

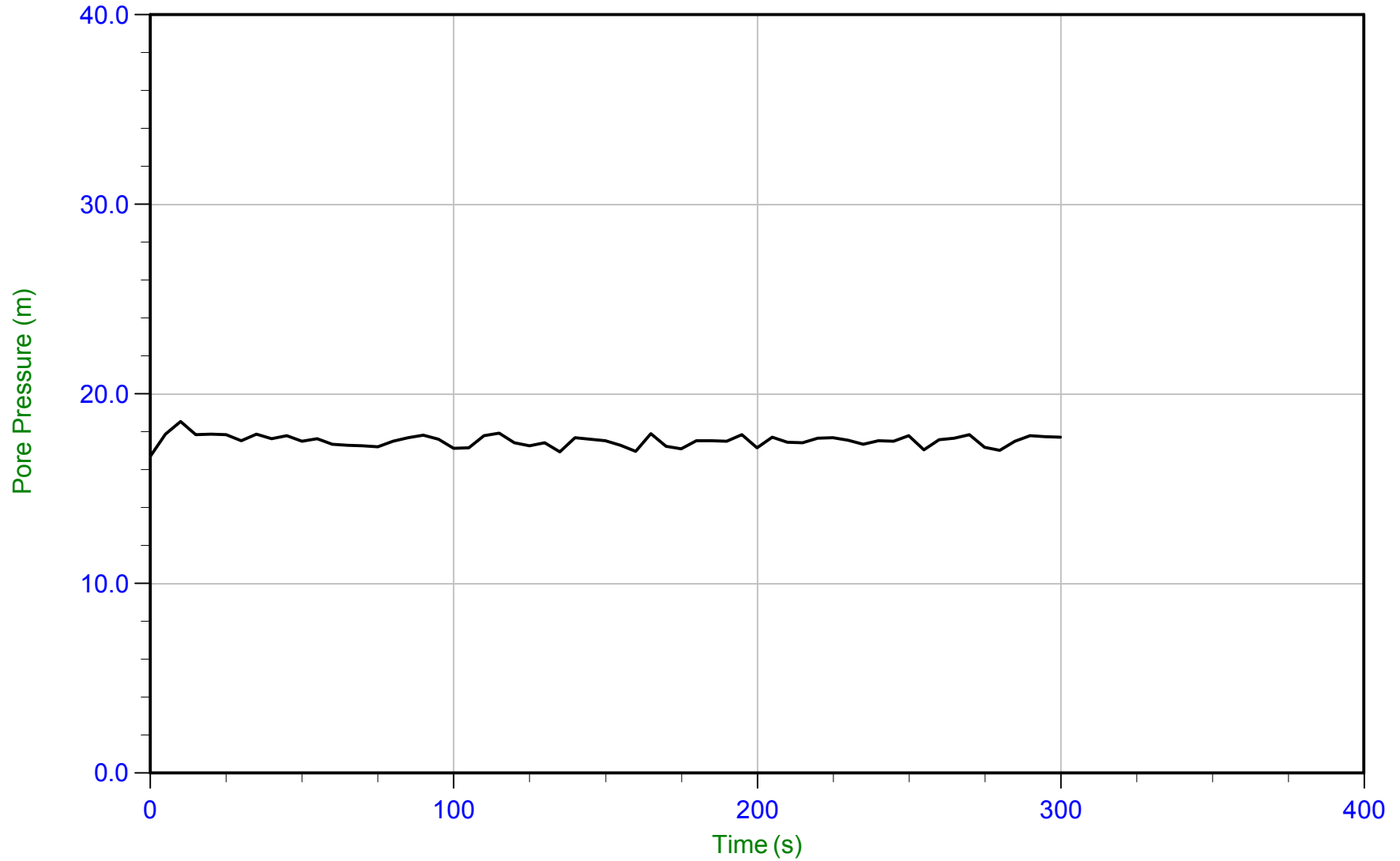
Sounding: SCPT16-04
Cone: 338:T1500F15U500
Cone Area: 15 sq cm



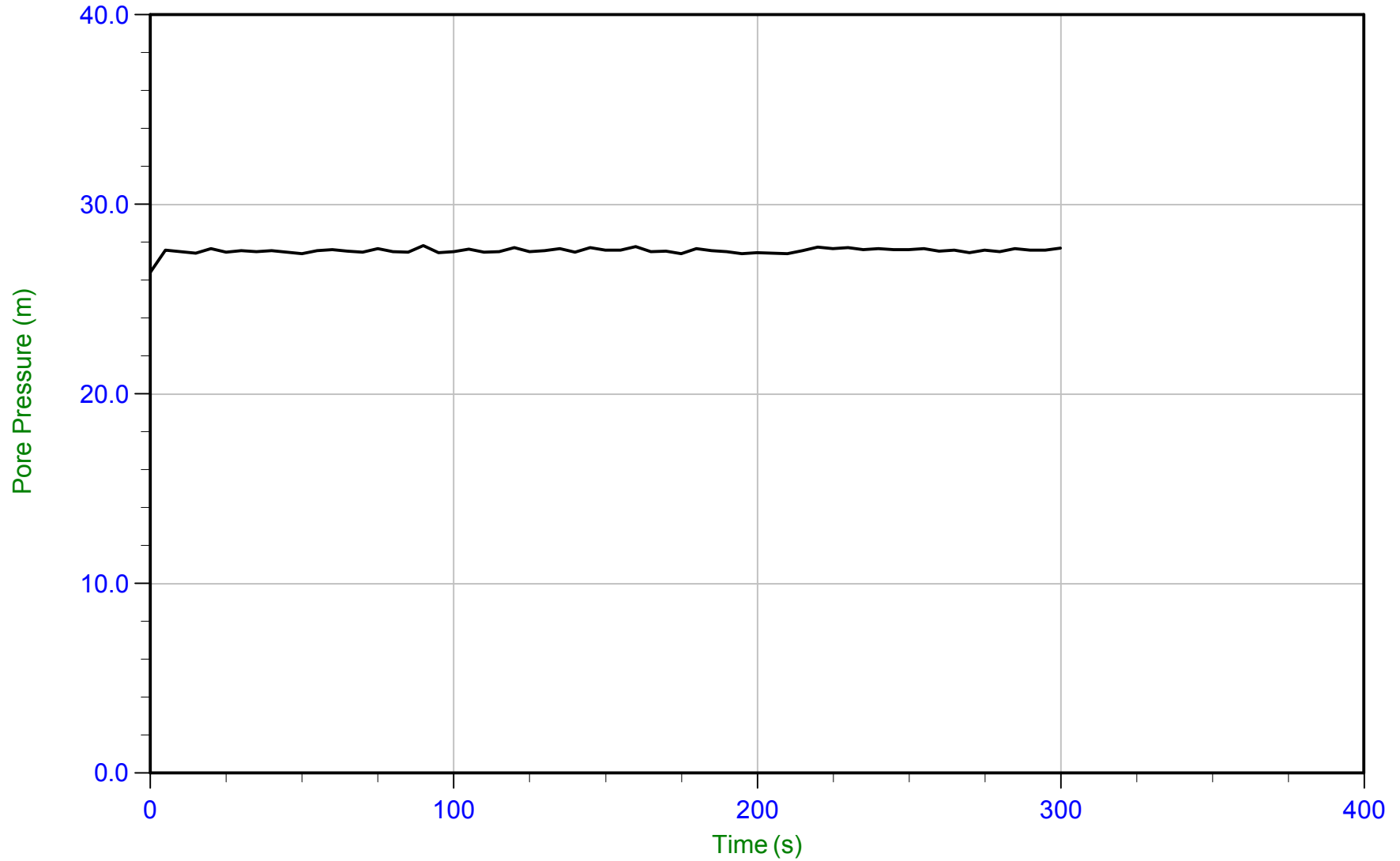
Trace Summary: Filename: 15-02048_SP04.PPF UMin: 0.6 m
Depth: 3.050 m / 10.006 ft UMax: 3.3 m
Duration: 200.0 s



Trace Summary: Filename: 15-02048_SP04.PPF UMin: 6.7 m WT: 2.728 m / 8.950 ft
 Depth: 10.050 m / 32.972 ft UMax: 8.1 m Ueq: 7.3 m
 Duration: 370.0 s



Trace Summary: Filename: 15-02048_SP04.PPF UMin: 16.7 m WT: 2.644 m / 8.674 ft
 Depth: 20.050 m / 65.780 ft UMax: 18.5 m Ueq: 17.4 m
 Duration: 300.0 s



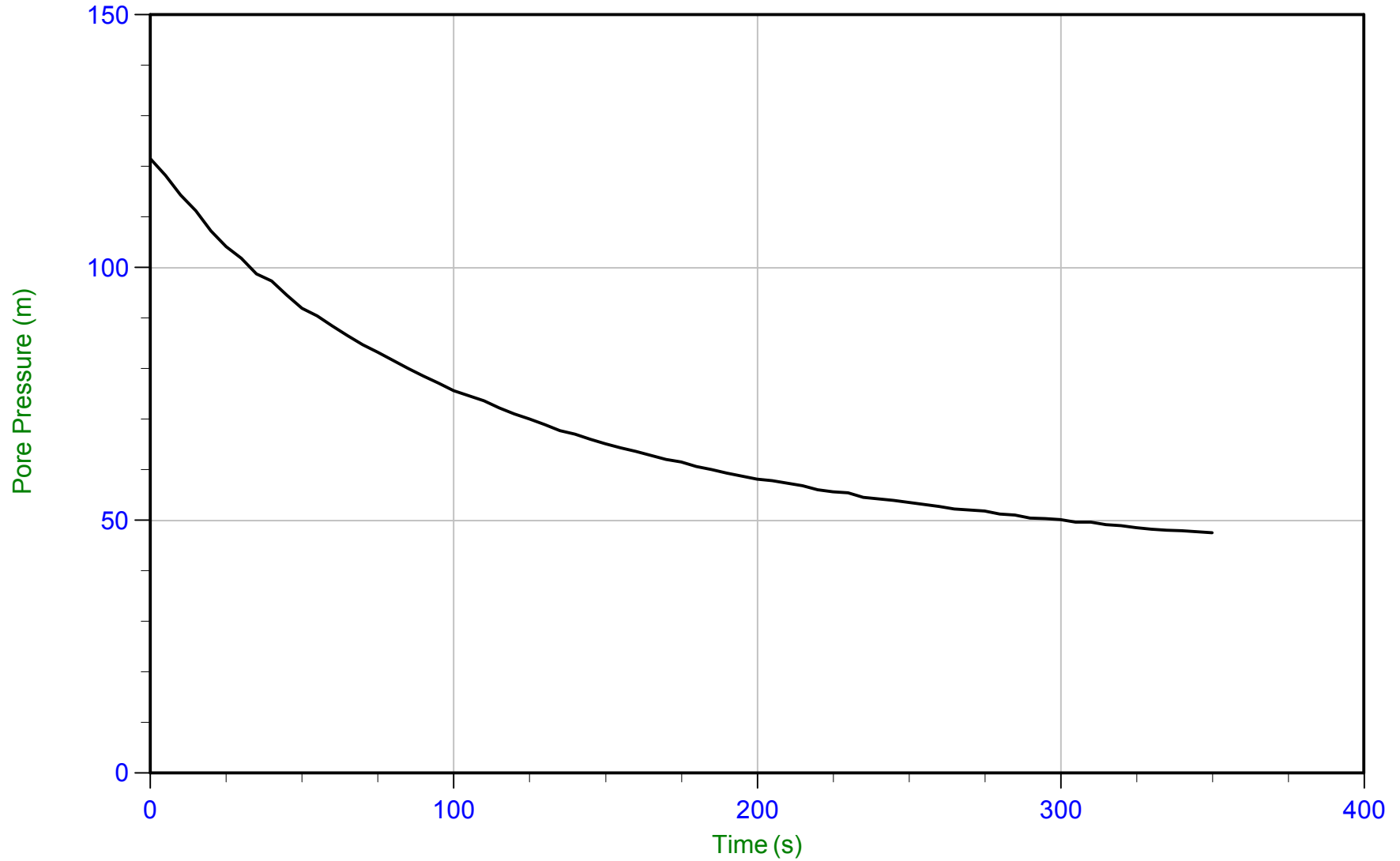
Trace Summary: Filename: 15-02048_SP04.PPF UMin: 26.4 m WT: 2.602 m / 8.537 ft
Depth: 30.050 m / 98.588 ft UMax: 27.8 m Ueq: 27.4 m
Duration: 300.0 s



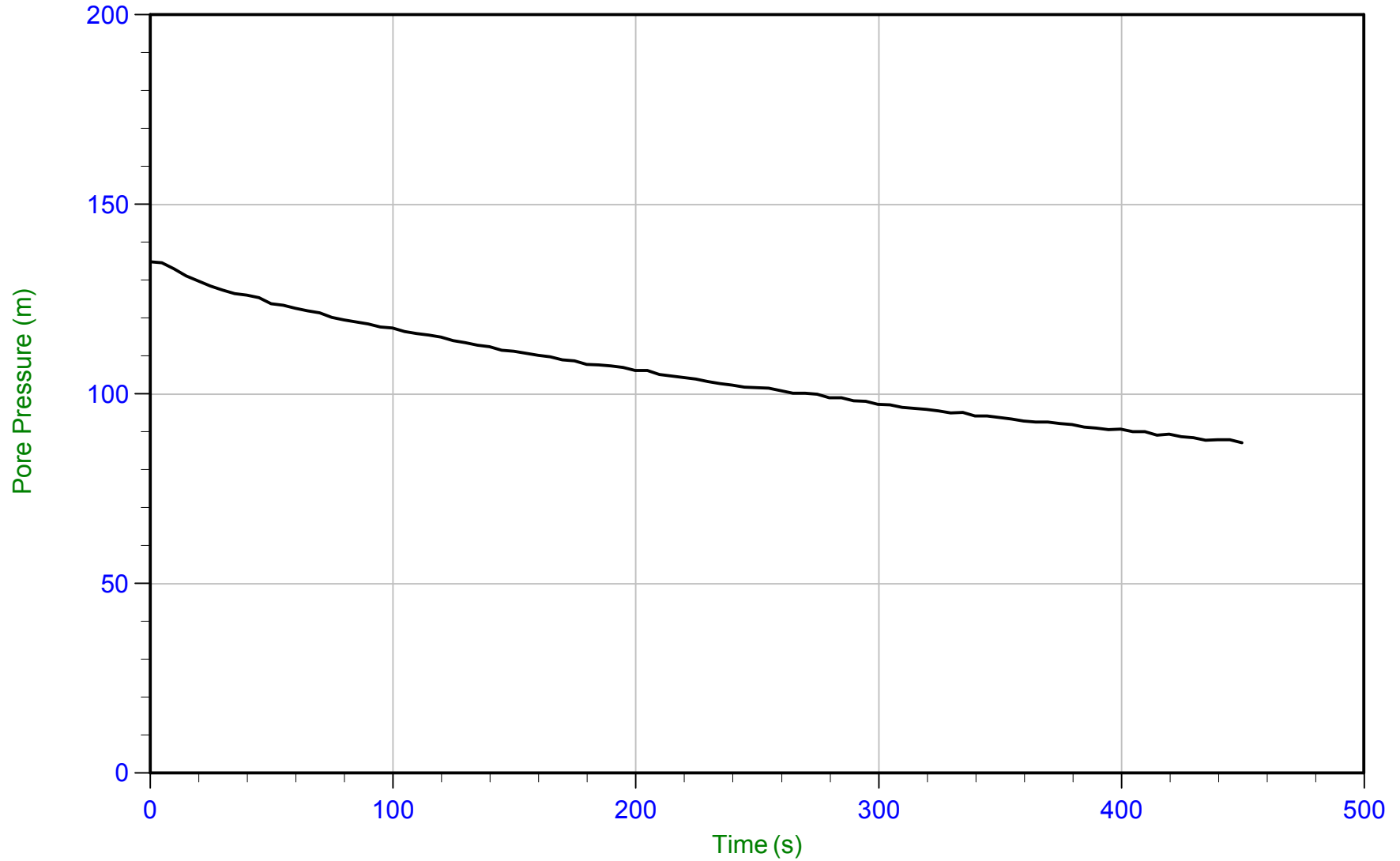
Golder Associates

Job No: 15-02048
Date: 03/21/2016 08:28
Site: Annacis WWTP

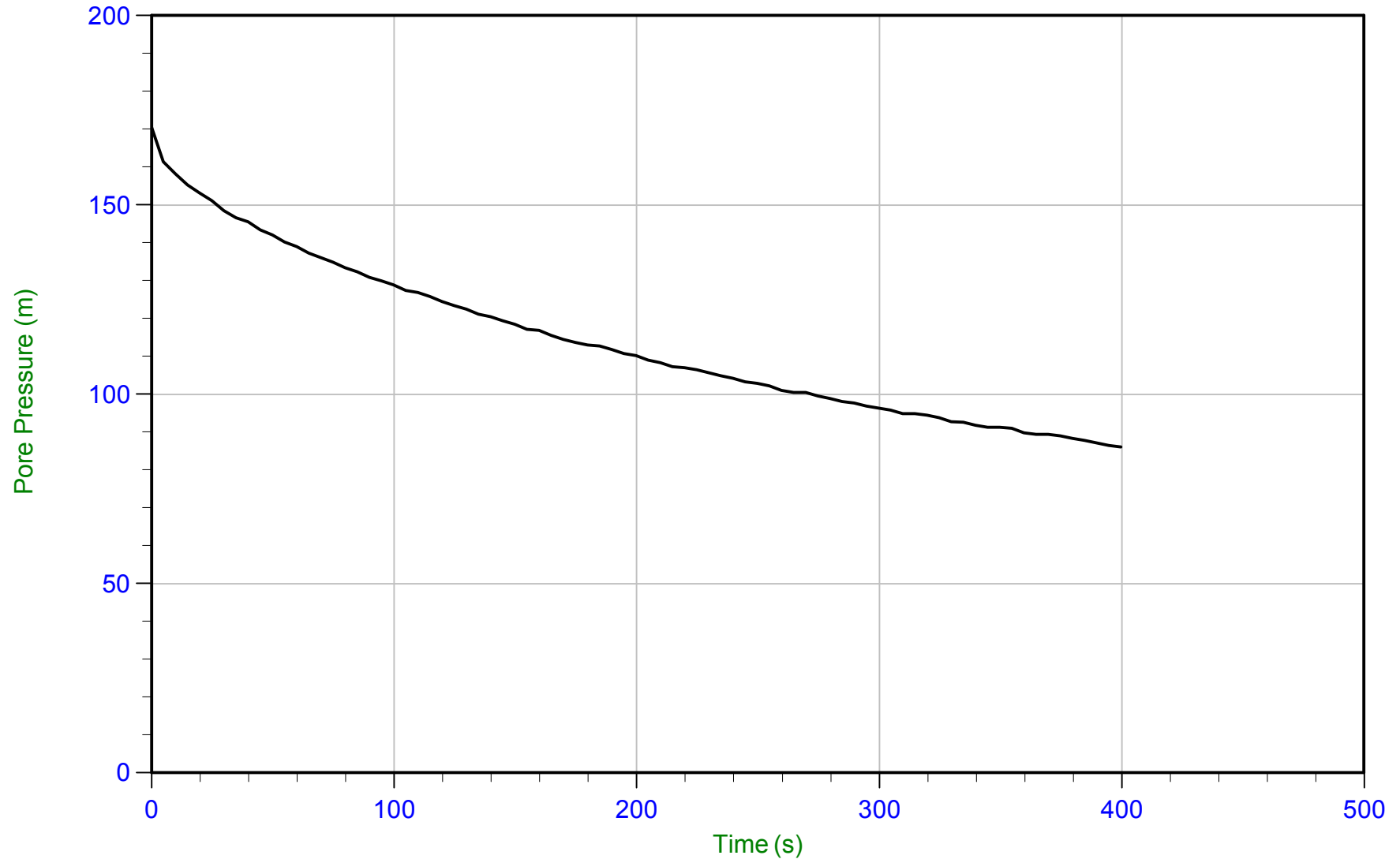
Sounding: SCPT16-04
Cone: 338:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP04.PPF UMin: 47.6 m WT: 2.700 m / 8.858 ft T(50): 87.1 s
Depth: 40.050 m / 131.396 ft UMax: 121.5 m Ueq: 37.4 m Ir: 100
Duration: 350.0 s U(50): 79.43 m Ch: 8.1 sq cm/min



Trace Summary:	Filename: 15-02048_SP04.PPF	UMin: 87.2 m	WT: 2.700 m / 8.858 ft	T(50): 422.2 s
	Depth: 46.050 m / 151.081 ft	UMax: 134.9 m	Ueq: 43.4 m	Ir: 100
	Duration: 450.0 s		U(50): 89.11 m	Ch: 1.7 sq cm/min

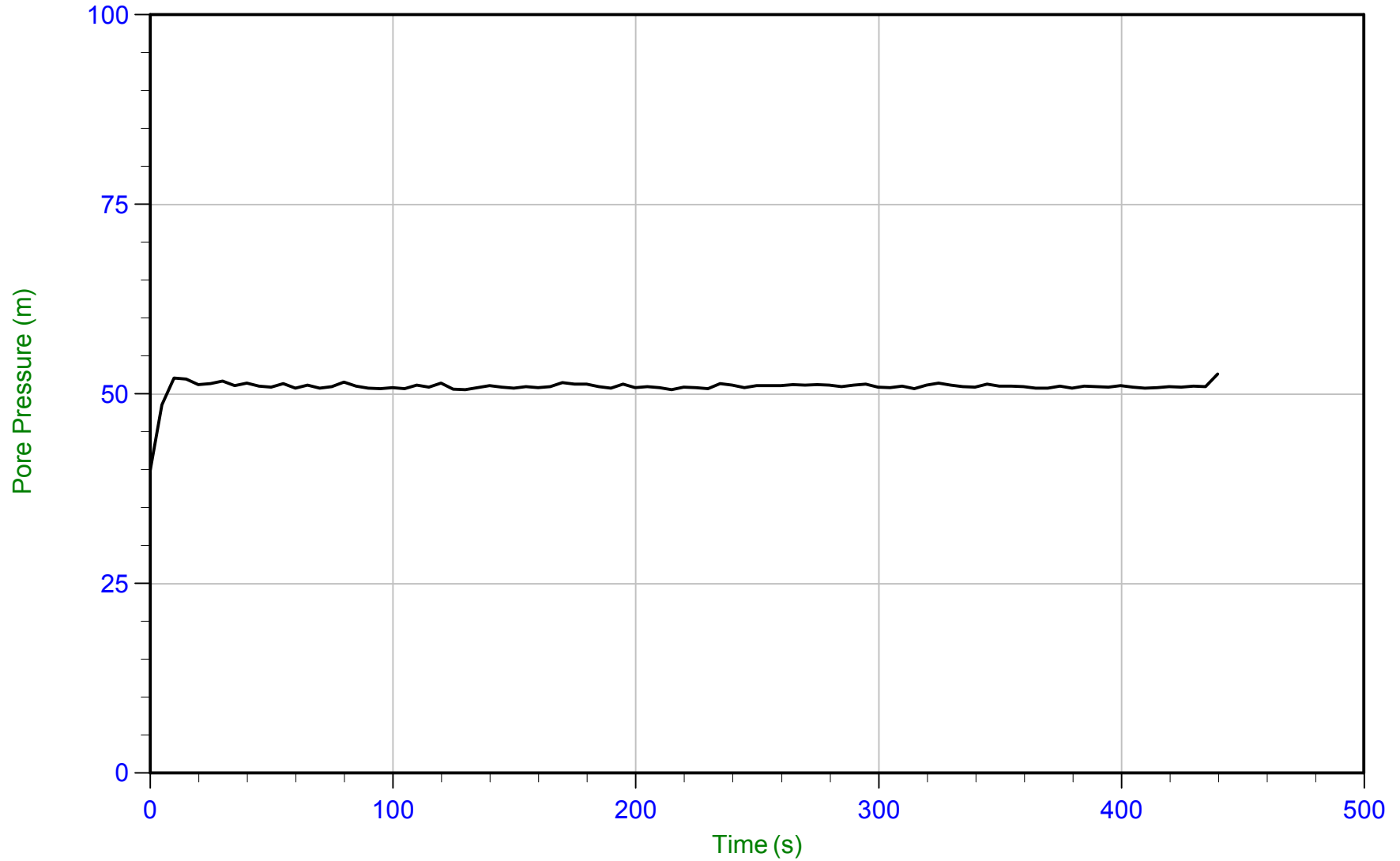


Trace Summary: Filename: 15-02048_SP04.PPF
Depth: 53.800 m / 176.507 ft
Duration: 400.0 s

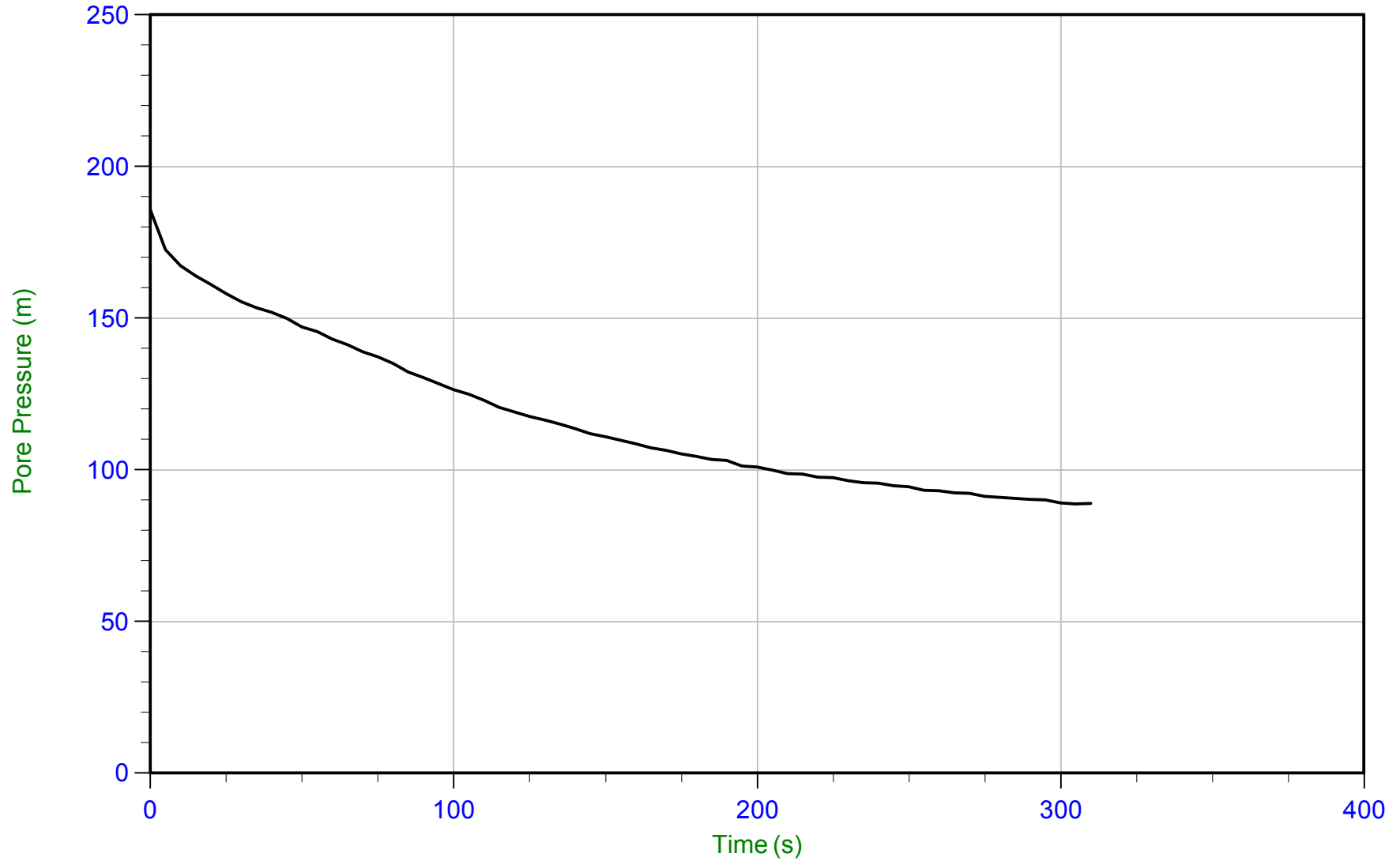
UMin: 86.1 m
UMax: 170.5 m

WT: 2.700 m / 8.858 ft
Ueq: 51.1 m
U(50): 110.81 m

T(50): 194.5 s
Ir: 100
Ch: 3.6 sq cm/min



Trace Summary: Filename: 15-02048_SP04.PPF UMin: 40.0 m WT: 3.063 m / 10.049 ft
 Depth: 53.900 m / 176.835 ft UMax: 52.6 m Ueq: 50.8 m
 Duration: 440.0 s

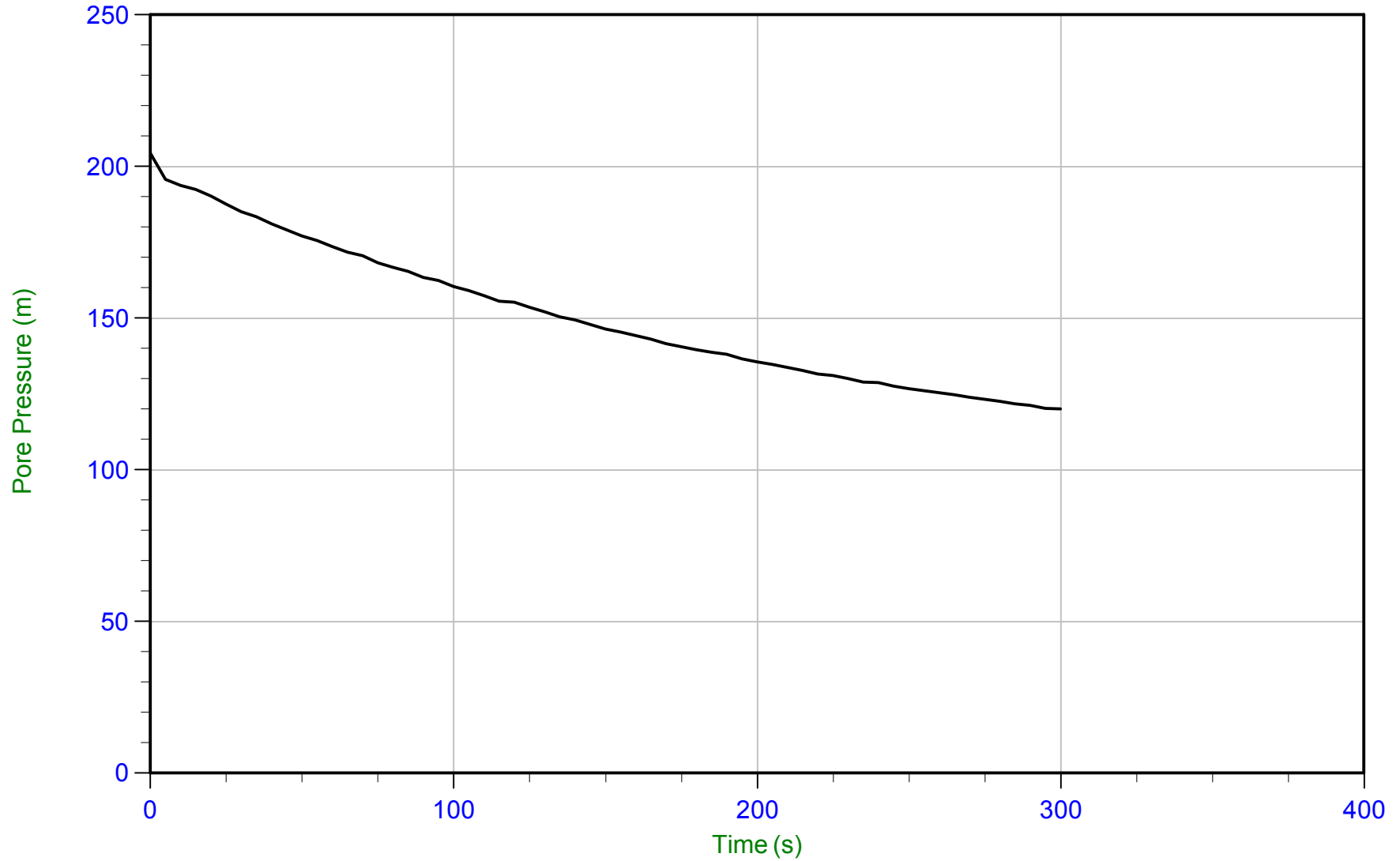


Trace Summary: Filename: 15-02048_SP04.PPF
Depth: 62.050 m / 203.574 ft
Duration: 310.0 s

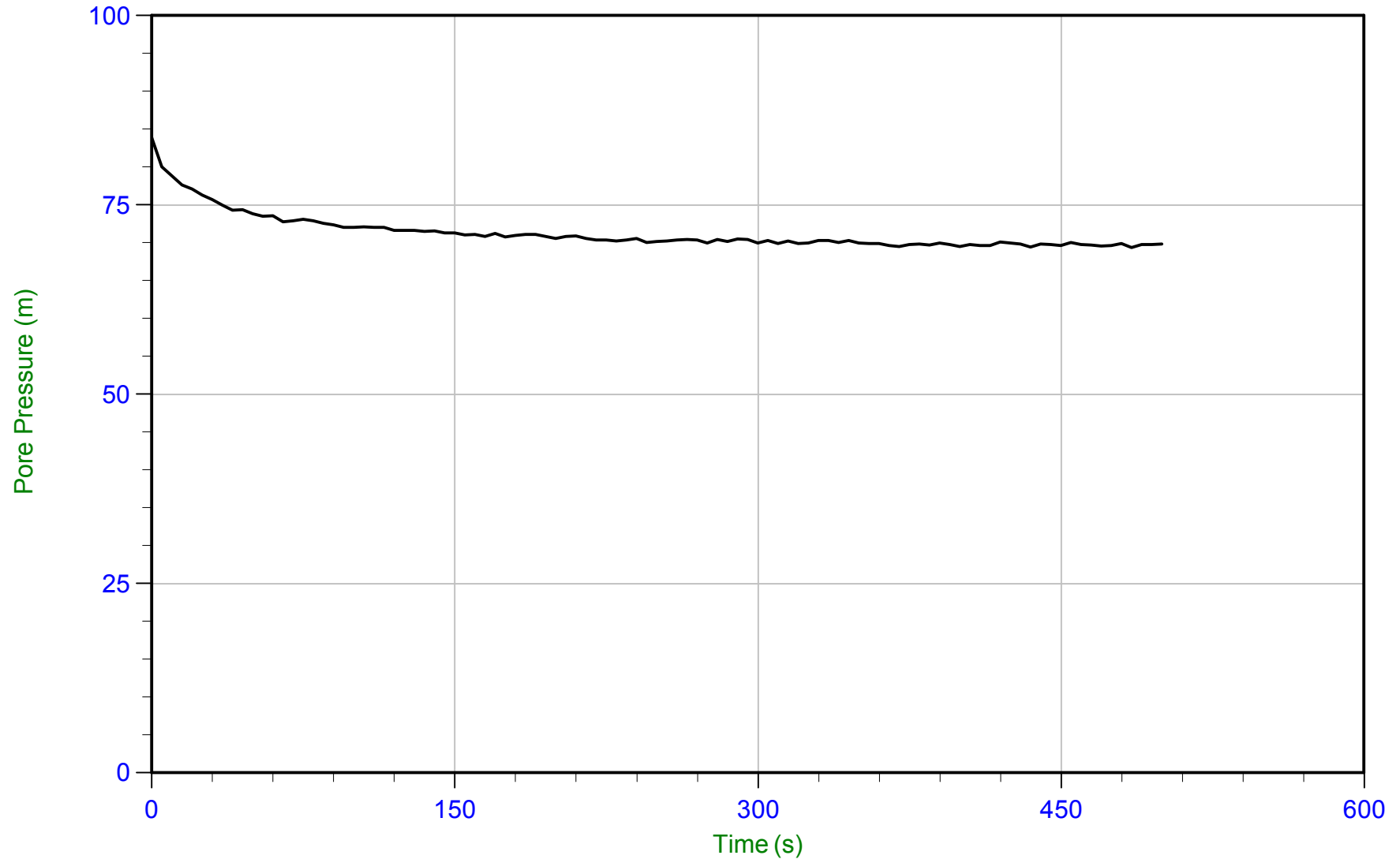
UMin: 88.7 m
UMax: 185.8 m

WT: 2.700 m / 8.858 ft
Ueq: 59.4 m
U(50): 122.58 m

T(50): 110.8 s
Ir: 100
Ch: 6.3 sq cm/min



Trace Summary: Filename: 15-02048_SP04.PPF UMin: 120.2 m WT: 2.700 m / 8.858 ft T(50): 203.8 s
 Depth: 68.050 m / 223.258 ft UMax: 204.4 m Ueq: 65.3 m Ir: 100
 Duration: 300.0 s U(50): 134.88 m Ch: 3.4 sq cm/min



Trace Summary: Filename: 15-02048_SP04.PPF
Depth: 70.350 m / 230.804 ft
Duration: 500.0 s

UMin: 69.4 m
UMax: 83.9 m

WT: 0.685 m / 2.247 ft
Ueq: 69.7 m
U(50): 76.77 m

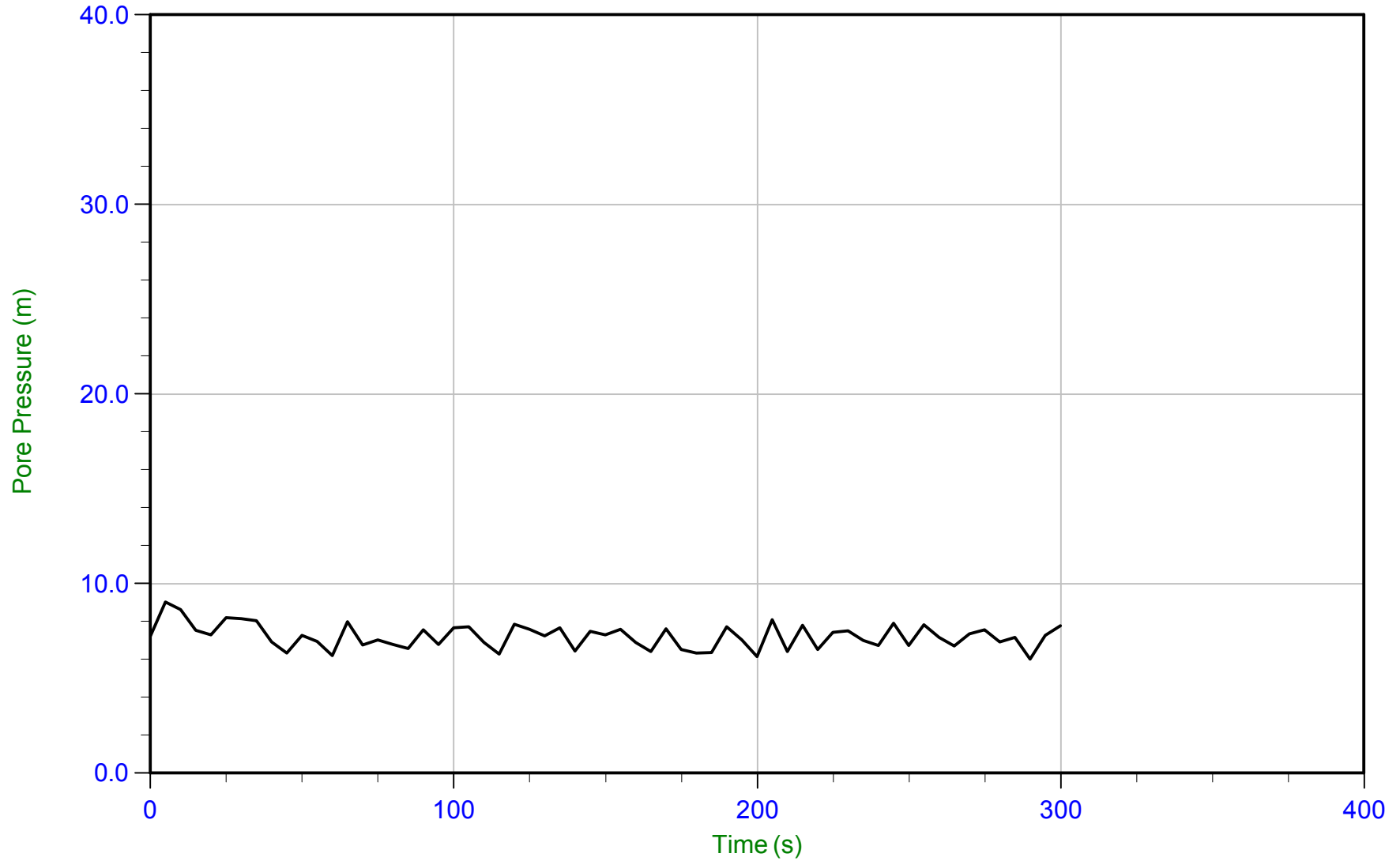
T(50): 22.2 s
Ir: 100
Ch: 31.6 sq cm/min



Golder Associates

Job No: 15-02048
Date: 03/24/2016 08:10
Site: Annacis WWTP

Sounding: SCPT16_05
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



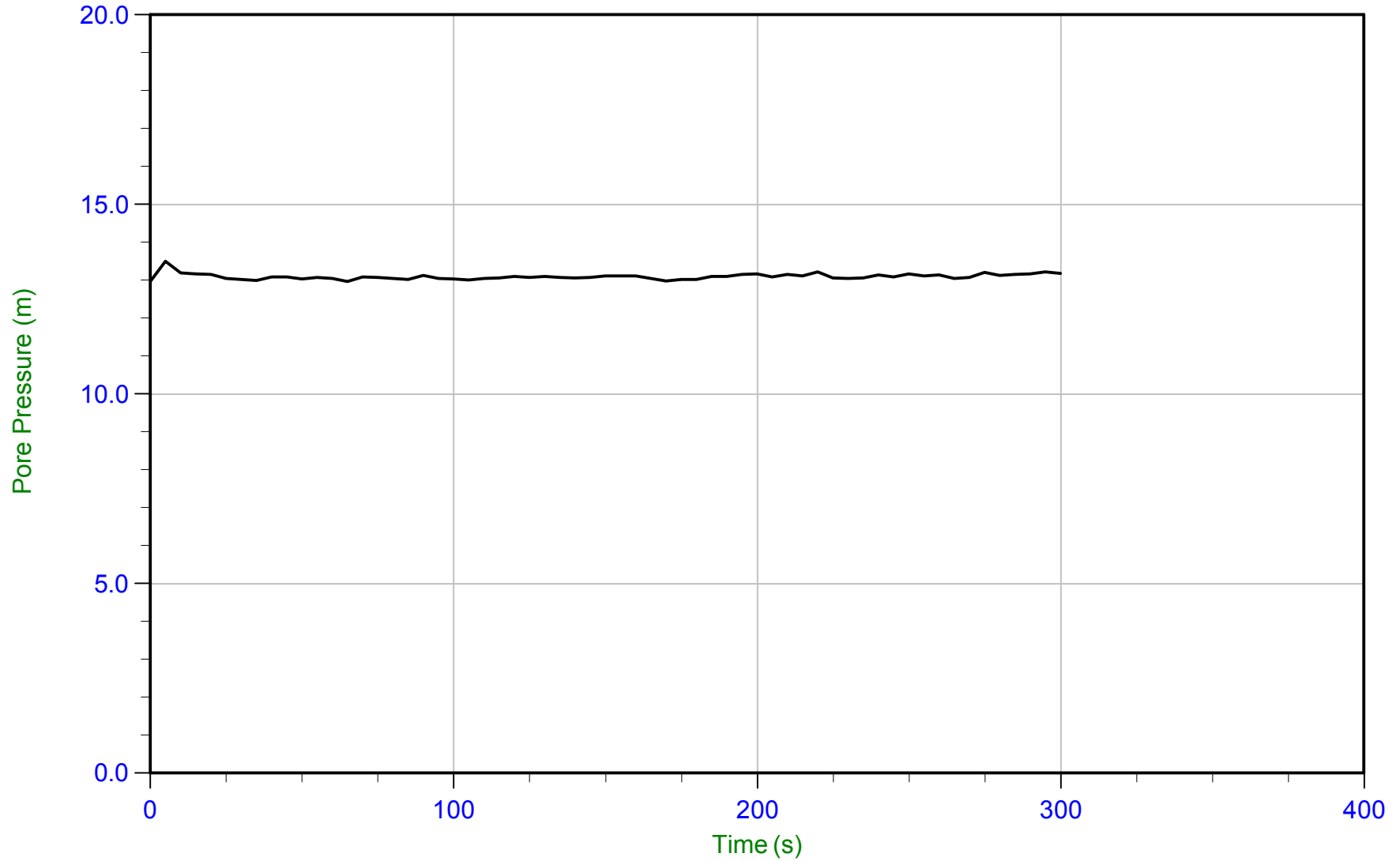
Trace Summary: Filename: 15-02048_SP05.PPF UMin: 6.0 m WT: 3.054 m / 10.020 ft
Depth: 10.000 m / 32.808 ft UMax: 9.0 m Ueq: 6.9 m
Duration: 300.0 s



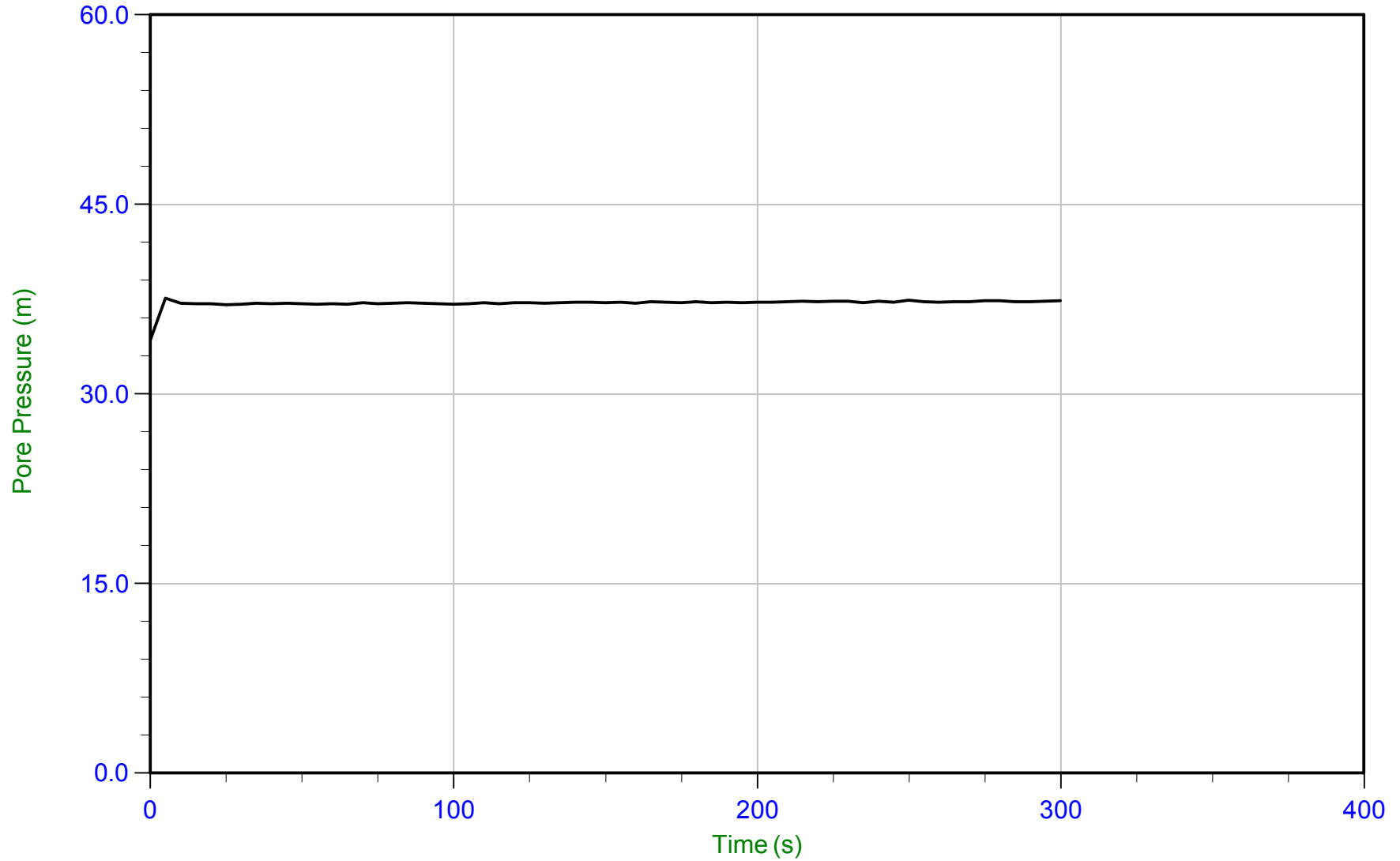
Golder Associates

Job No: 15-02048
Date: 03/24/2016 08:10
Site: Annacis WWTP

Sounding: SCPT16_05
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



Trace Summary: Filename: 15-02048_SP05.PPF UMin: 13.0 m WT: 2.904 m / 9.527 ft
Depth: 16.000 m / 52.493 ft UMax: 13.5 m Ueq: 13.1 m
Duration: 300.0 s



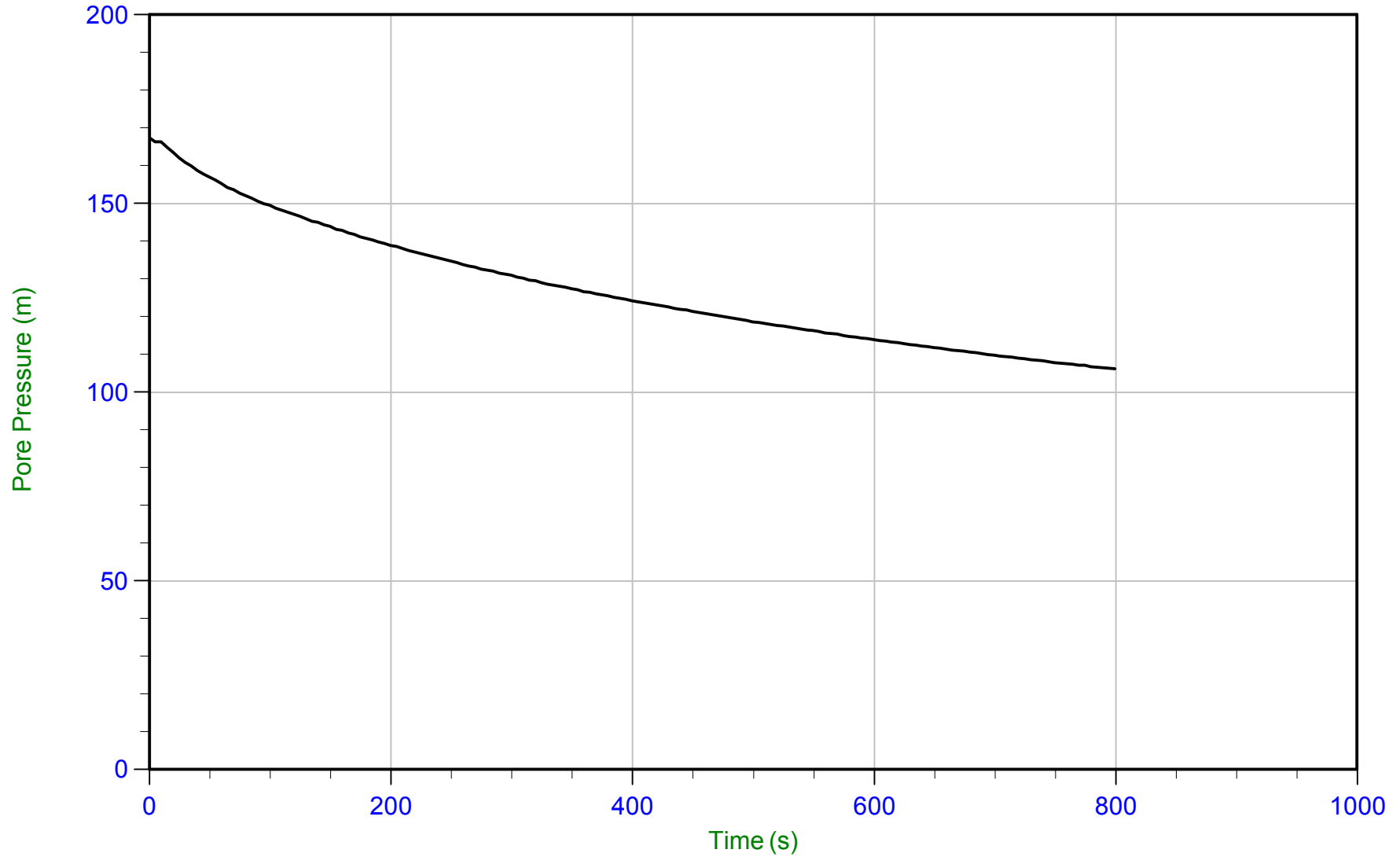
Trace Summary: Filename: 15-02048_SP05.PPF UMin: 34.2 m WT: 2.720 m / 8.924 ft
 Depth: 40.000 m / 131.232 ft UMax: 37.6 m Ueq: 37.3 m
 Duration: 300.0 s



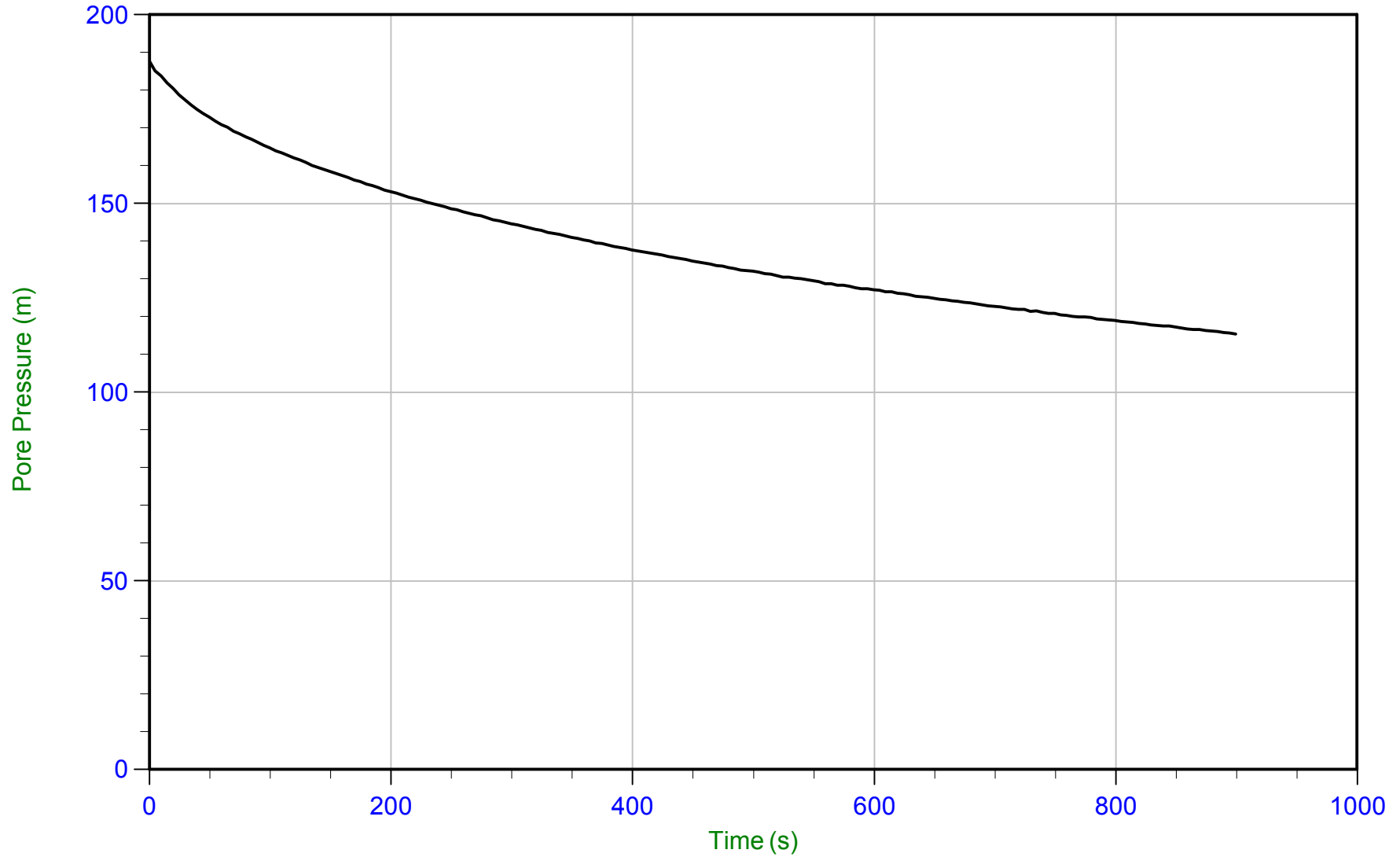
Golder Associates

Job No: 15-02048
Date: 03/24/2016 08:10
Site: Annacis WWTP

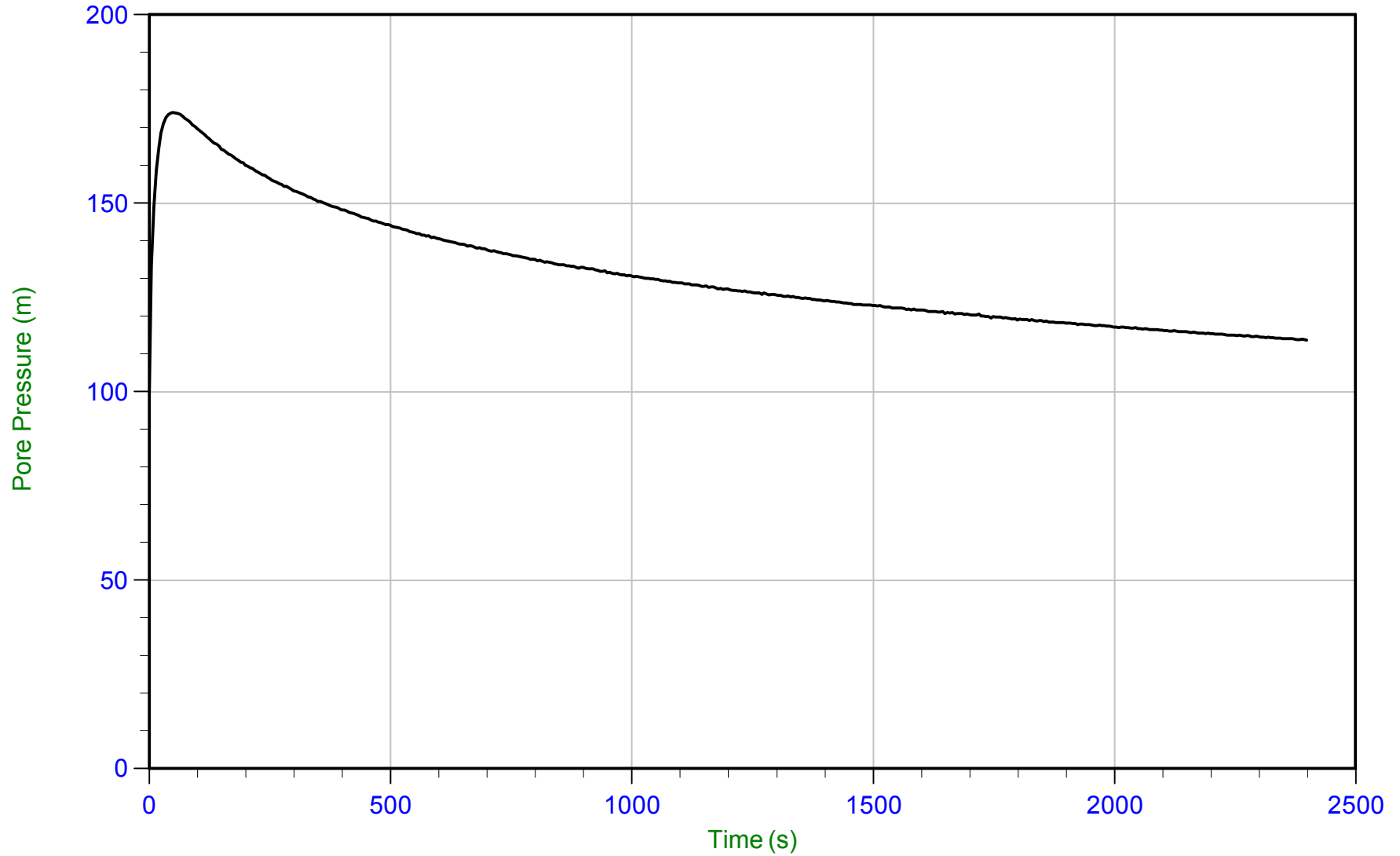
Sounding: SCPT16_05
Cone: 457:T1500F15U500
Cone Area: 15 sq cm



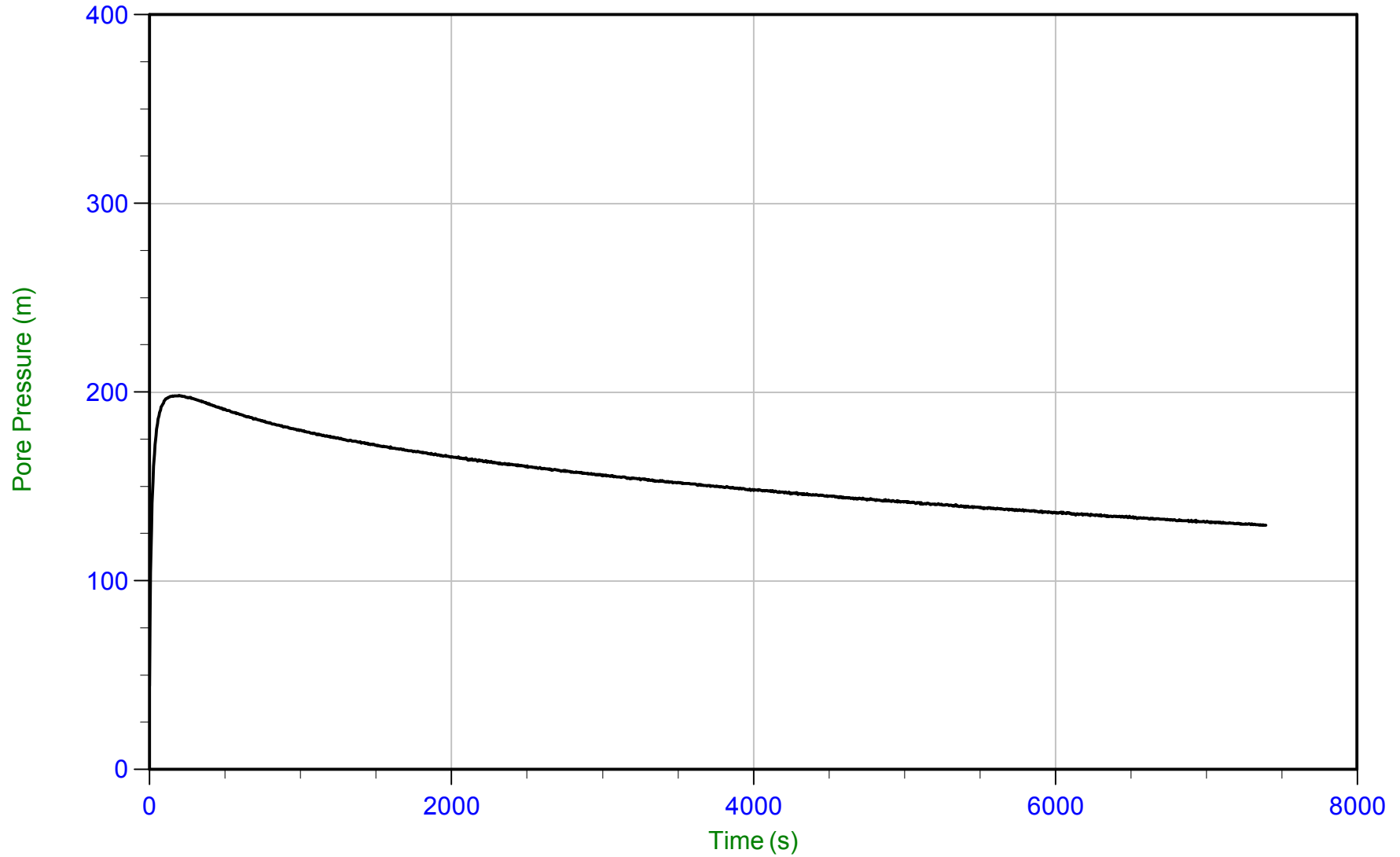
Trace Summary: Filename: 15-02048_SP05.PPF UMin: 106.1 m WT: 3.100 m / 10.170 ft T(50): 741.1 s
Depth: 52.300 m / 171.586 ft UMax: 167.4 m Ueq: 49.2 m Ir: 100
Duration: 800.0 s U(50): 108.28 m Ch: 0.9 sq cm/min



Trace Summary: Filename: 15-02048_SP05.PPF UMin: 115.4 m WT: 3.100 m / 10.170 ft T(50): 779.1 s
 Depth: 55.000 m / 180.444 ft UMax: 187.6 m Ueq: 51.9 m Ir: 100
 Duration: 900.0 s U(50): 119.77 m Ch: 0.9 sq cm/min



Trace Summary: Filename: 15-02048_SP05.PPF UMin: 100.4 m WT: 3.100 m / 10.170 ft T(50): 2258.3 s
 Depth: 58.000 m / 190.286 ft UMax: 174.0 m Ueq: 54.9 m Ir: 100
 Duration: 2400.0 s U(50): 114.46 m Ch: 0.3 sq cm/min



Trace Summary: Filename: 15-02048_SP05.PPF UMin: 44.4 m WT: 3.100 m / 10.170 ft T(50): 7183.1 s
 Depth: 63.950 m / 209.807 ft UMax: 198.2 m Ueq: 60.9 m Ir: 100
 Duration: 7400.0 s U(50): 129.52 m Ch: 0.1 sq cm/min



Golder

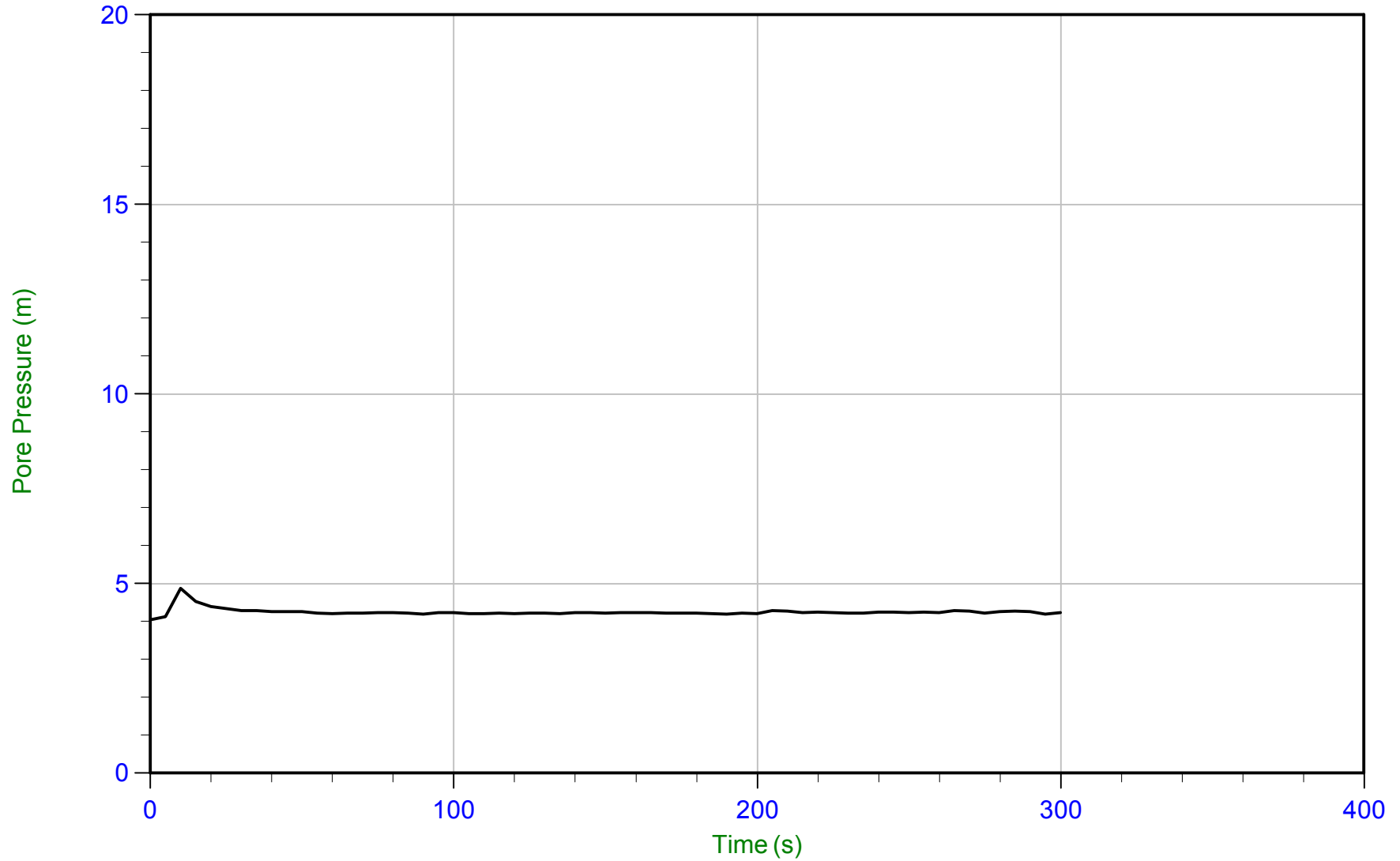
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF U Min: 4.1 m WT: 2.782 m / 9.127 ft
Depth: 7.000 m / 22.966 ft U Max: 4.9 m Ueq: 4.2 m
Duration: 300.0 s



Golder

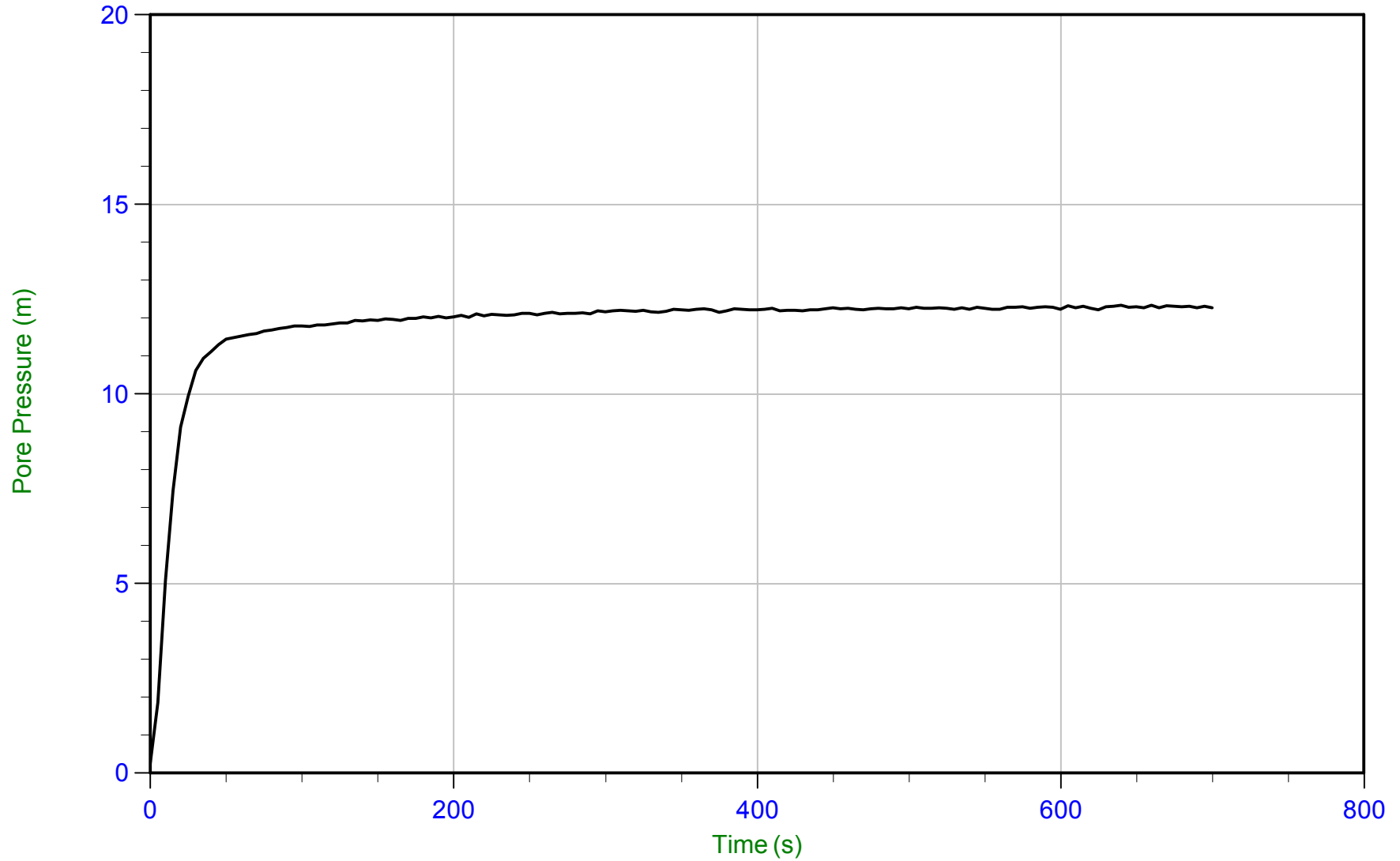
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF U Min: 0.3 m WT: 2.709 m / 8.888 ft
Depth: 15.000 m / 49.212 ft U Max: 12.3 m Ueq: 12.3 m
Duration: 700.0 s



Golder

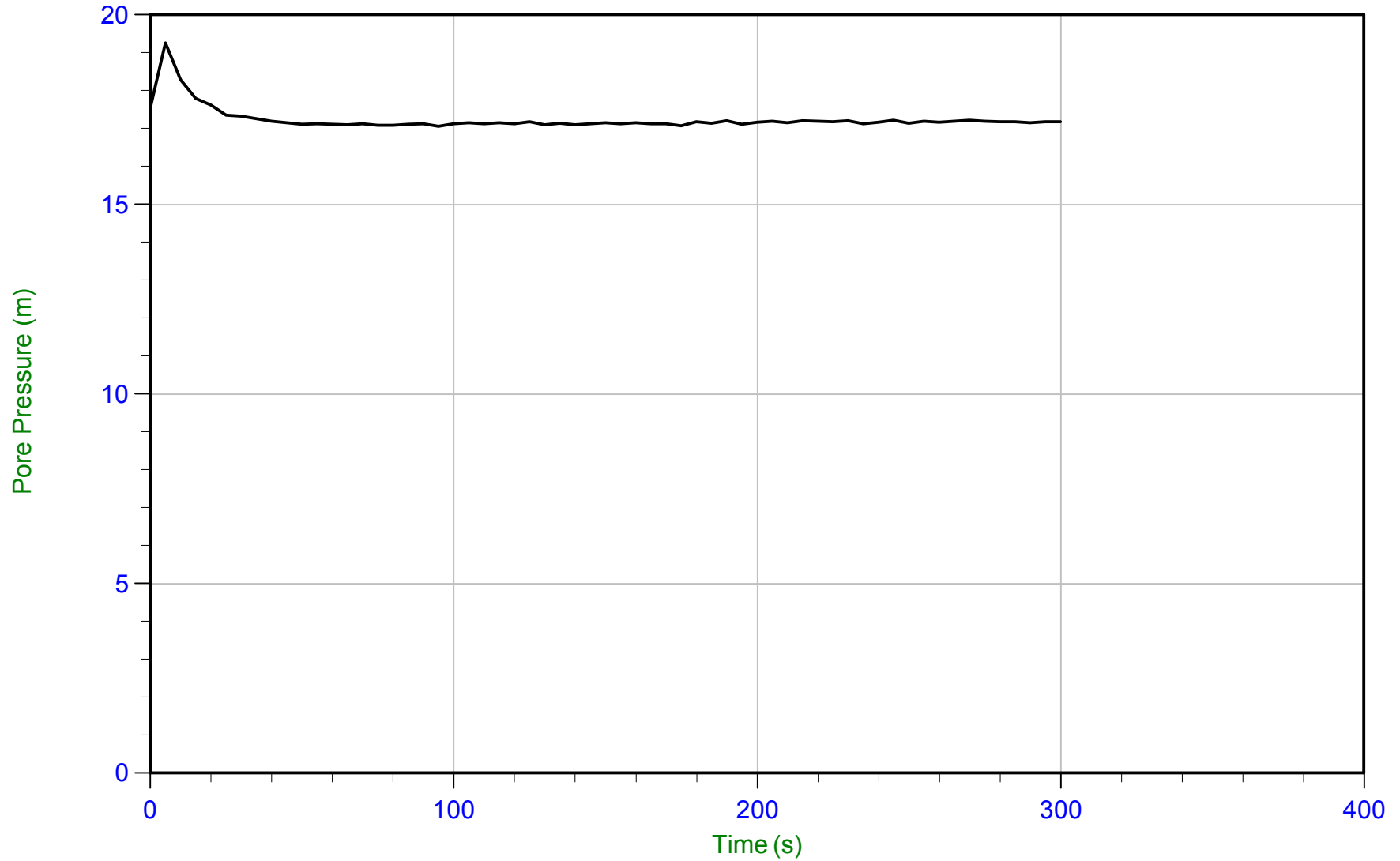
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF U Min: 17.1 m WT: 2.764 m / 9.068 ft
Depth: 20.000 m / 65.616 ft U Max: 19.3 m Ueq: 17.2 m
Duration: 300.0 s



Golder

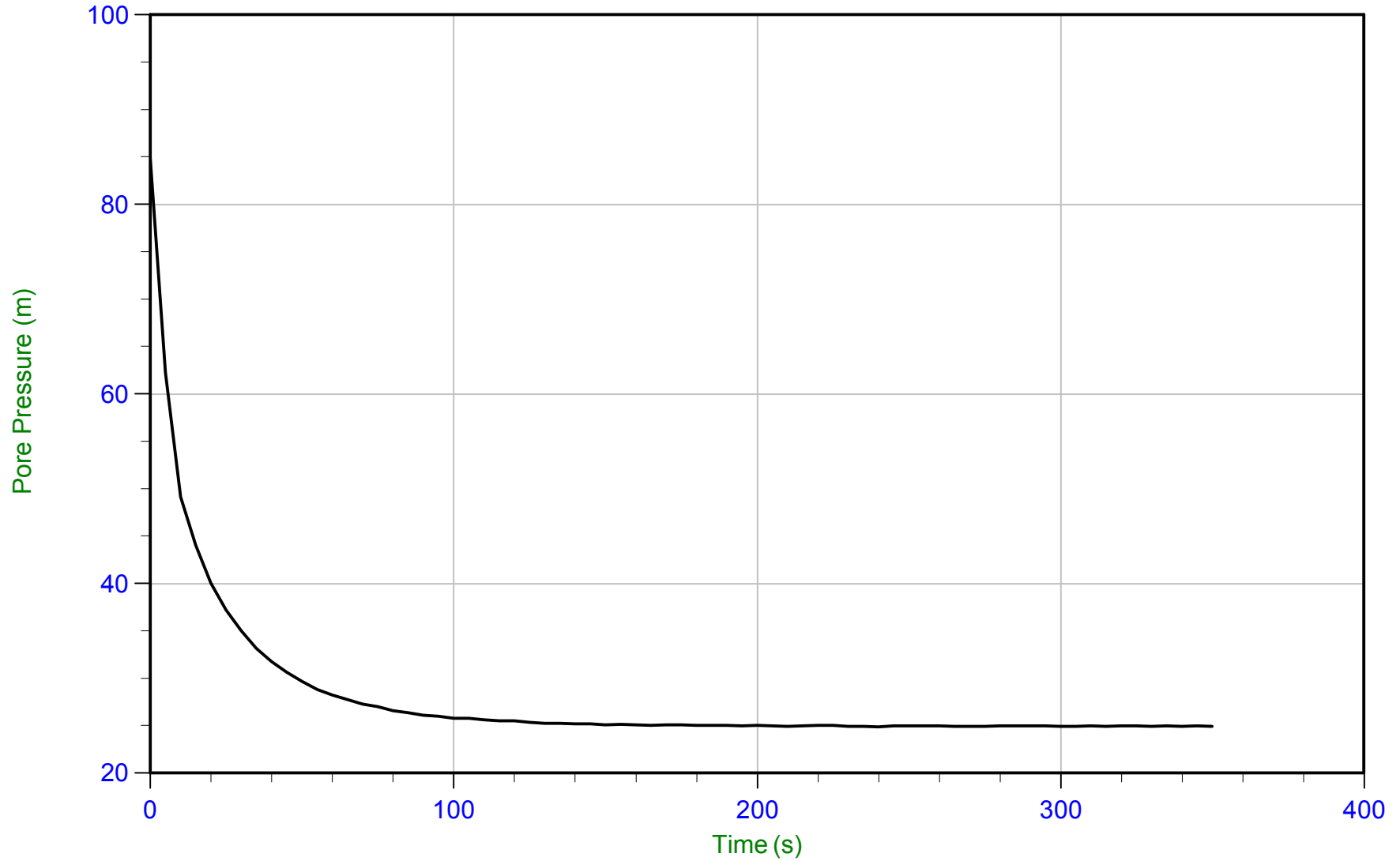
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF U Min: 24.9 m WT: 2.730 m / 8.957 ft
 Depth: 27.675 m / 90.796 ft U Max: 84.8 m Ueq: 24.9 m
 Duration: 350.0 s



Golder

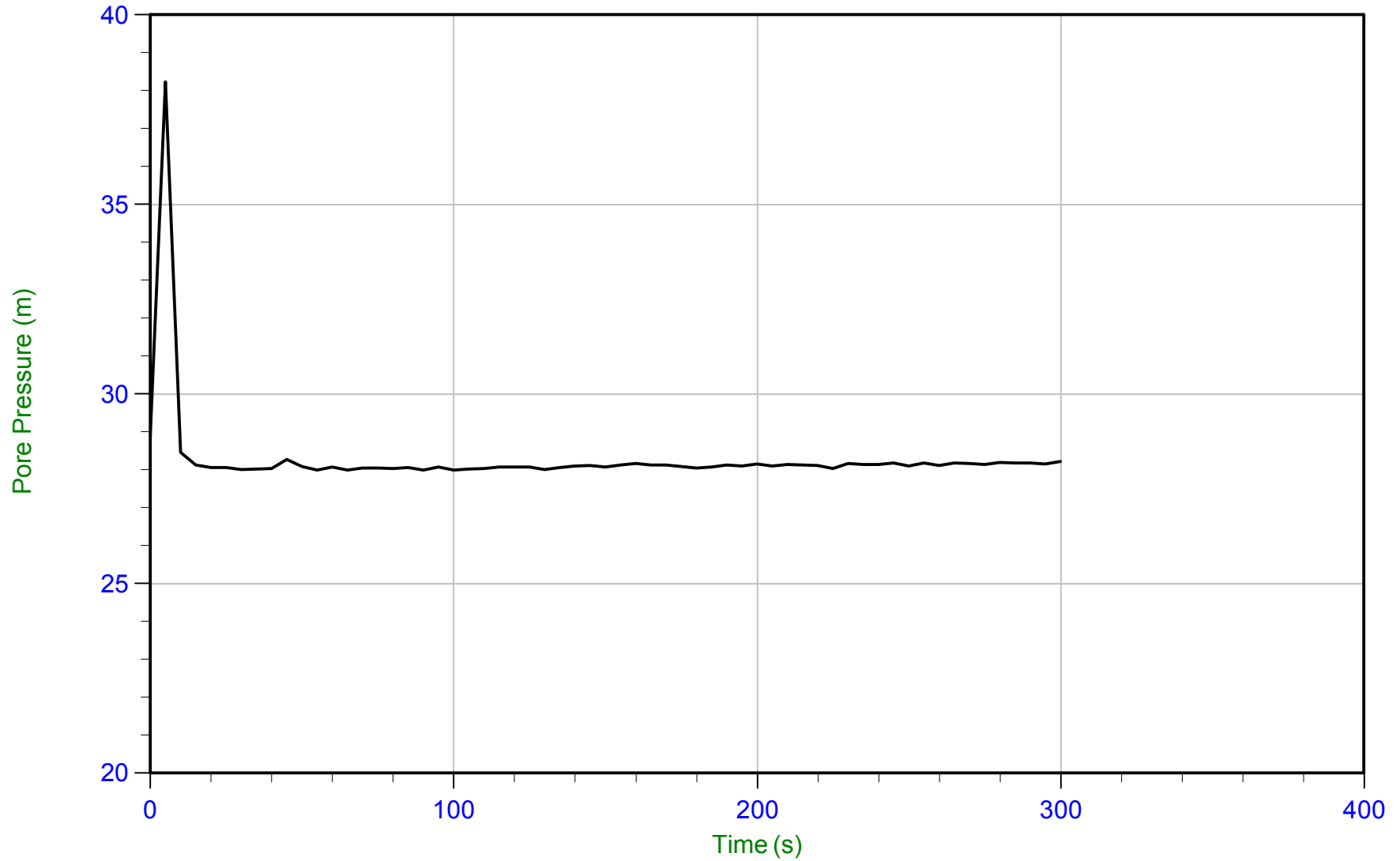
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



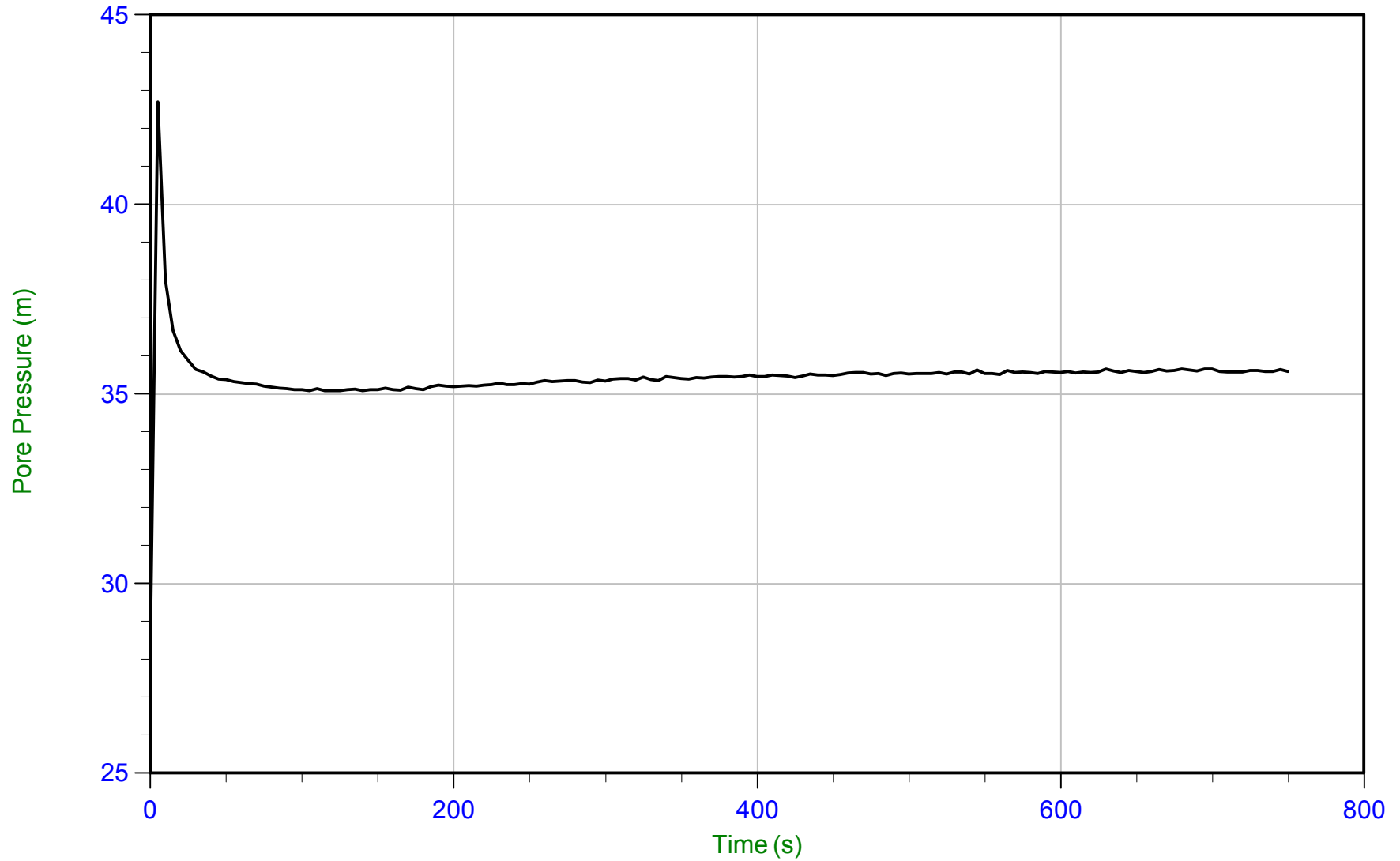
Trace Summary: Filename: 16-02063_SP06.PPF U Min: 28.0 m WT: 2.782 m / 9.127 ft
Depth: 31.000 m / 101.705 ft U Max: 38.2 m Ueq: 28.2 m
Duration: 300.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 15:06
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06
Cone: 474:T1500F15U500 Area=15 cm²



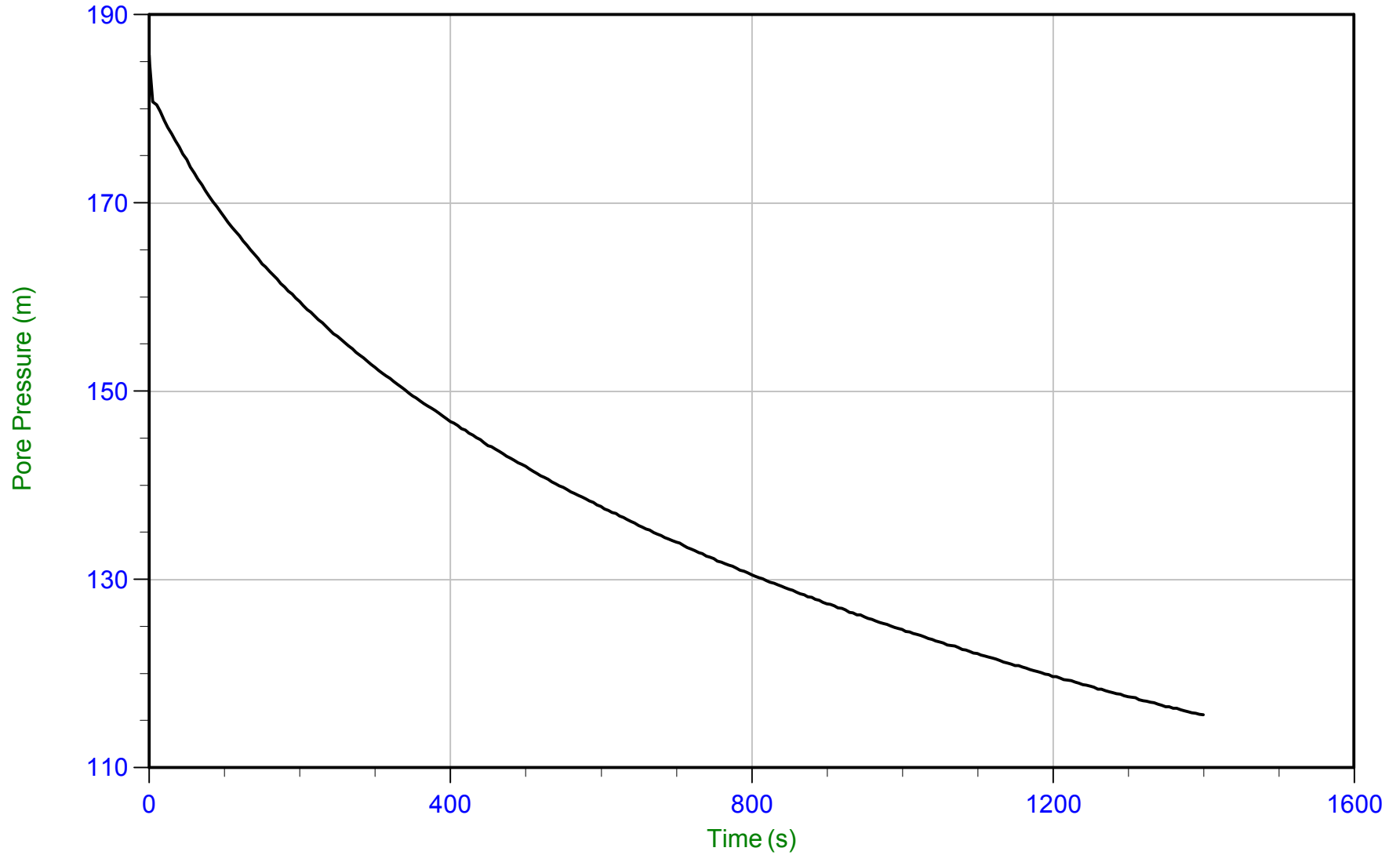
Trace Summary: Filename: 16-02063_SP06.PPF U Min: 28.2 m WT: 2.809 m / 9.216 ft
Depth: 38.500 m / 126.311 ft U Max: 42.7 m Ueq: 35.7 m
Duration: 750.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 15:06
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF U Min: 115.6 m WT: 2.882 m / 9.455 ft T(50): 1161.2 s
 Depth: 58.525 m / 192.009 ft U Max: 185.7 m Ueq: 55.6 m Ir: 100
 Duration: 1400.0 s U(50): 120.68 m Ch: 0.6 sq cm/min



Golder

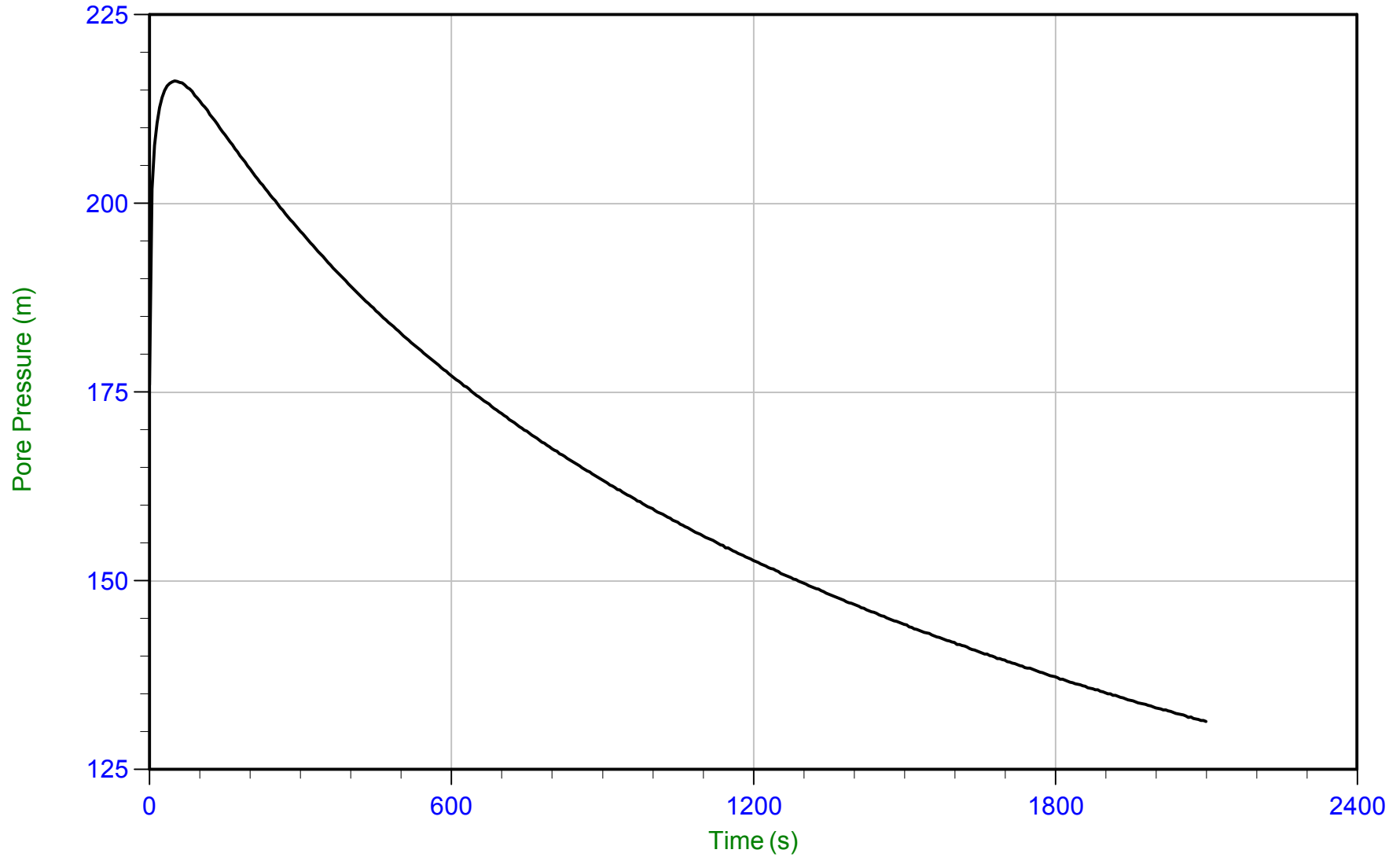
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF
Depth: 62.500 m / 205.050 ft
Duration: 2100.0 s

U Min: 131.4 m
U Max: 216.2 m

WT: 2.882 m / 9.455 ft
Ueq: 59.6 m
U(50): 137.92 m

T(50): 1720.5 s
Ir: 100
Ch: 0.4 sq cm/min



Golder

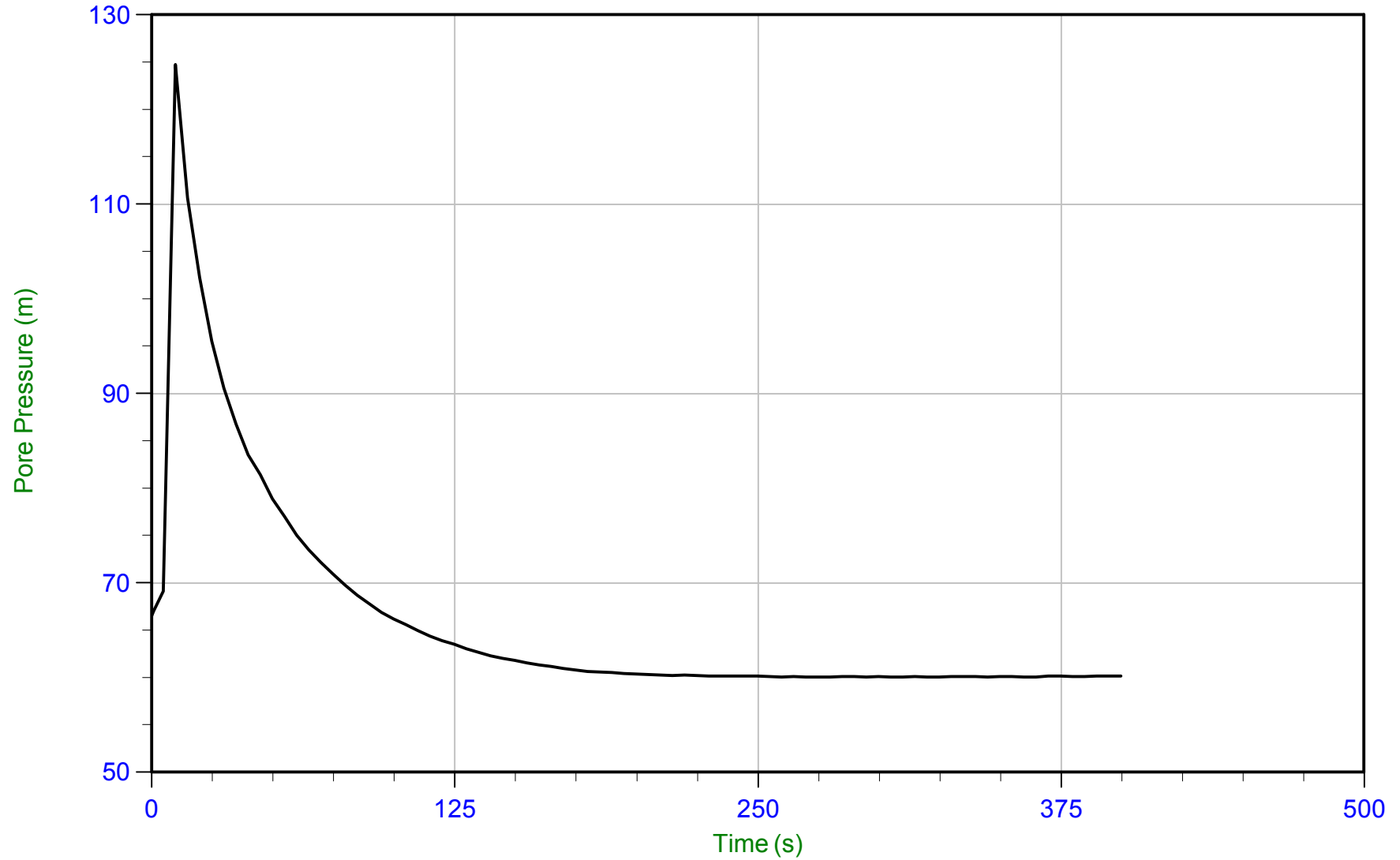
Job No: 16-02063

Date: 11/24/2016 15:06

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-06

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP06.PPF
Depth: 62.650 m / 205.542 ft
Duration: 400.0 s

U Min: 60.0 m
U Max: 124.7 m

WT: 2.832 m / 9.291 ft
Ueq: 59.8 m



Golder

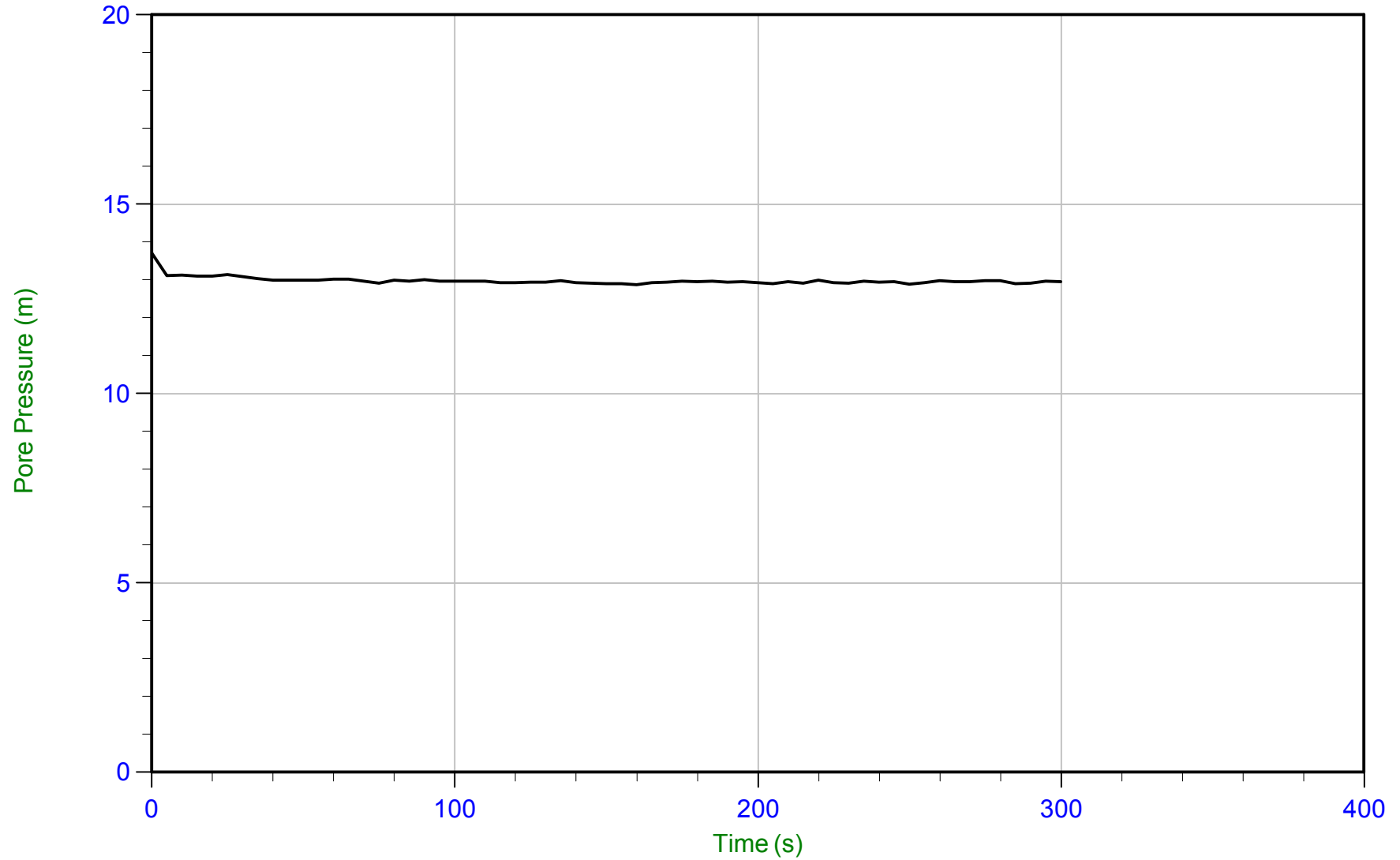
Job No: 16-02063

Date: 11/25/2016 13:38

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP07.PPF U Min: 12.9 m WT: 2.880 m / 9.449 ft
Depth: 15.825 m / 51.919 ft U Max: 13.7 m Ueq: 12.9 m
Duration: 300.0 s



Golder

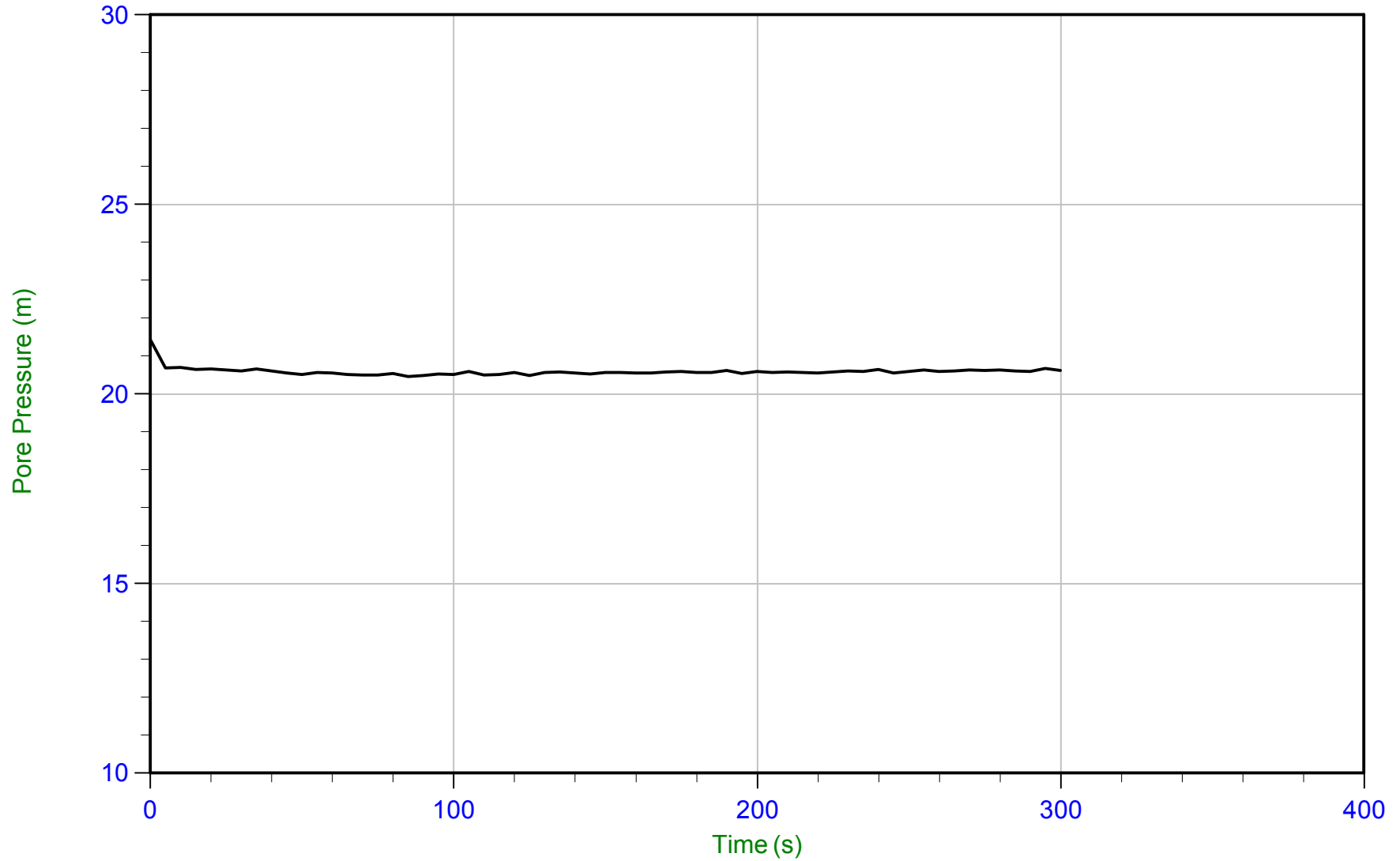
Job No: 16-02063

Date: 11/25/2016 13:38

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07

Cone: 474:T1500F15U500 Area=15 cm²



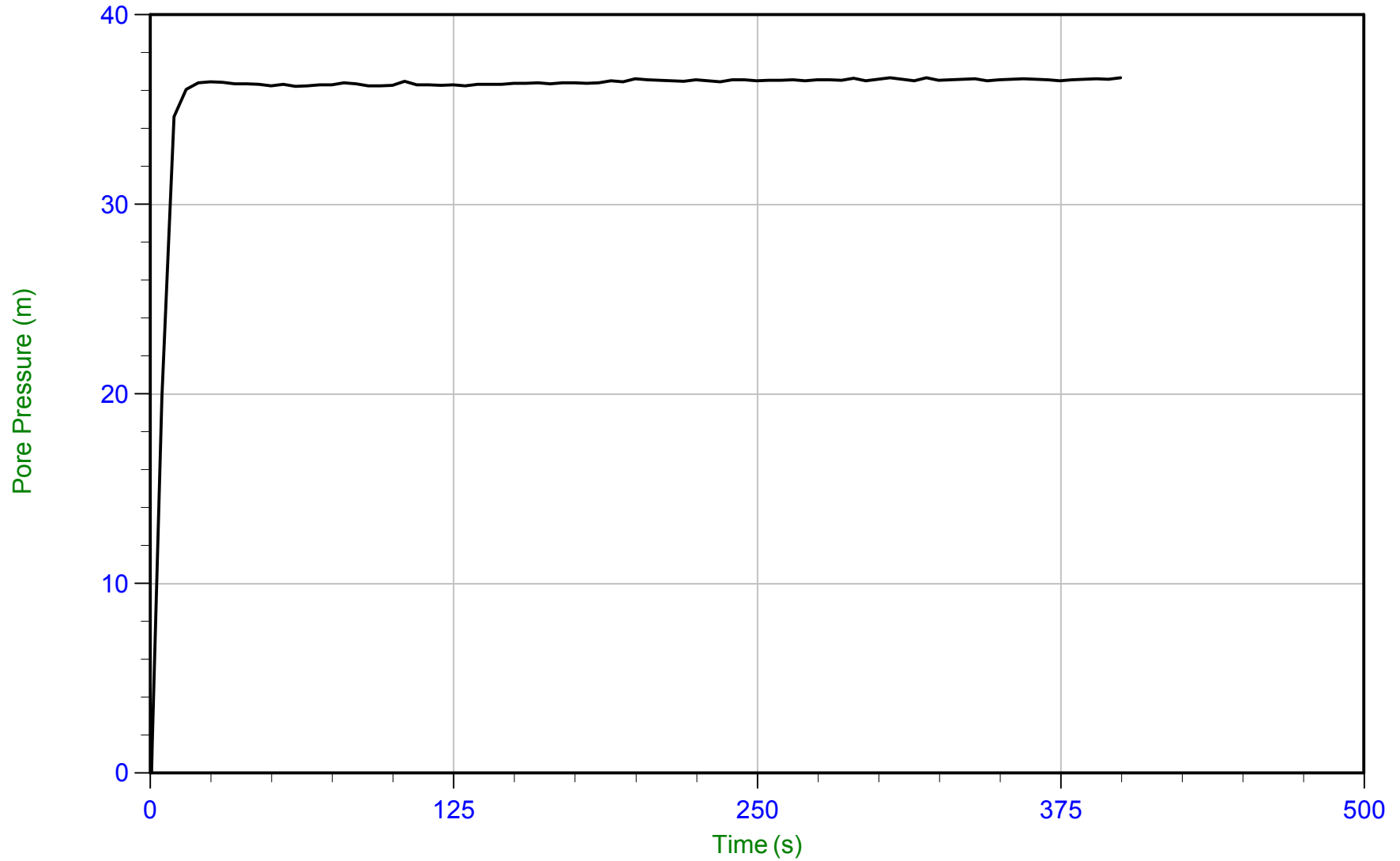
Trace Summary: Filename: 16-02063_SP07.PPF U Min: 20.5 m WT: 2.882 m / 9.455 ft
Depth: 23.500 m / 77.099 ft U Max: 21.4 m Ueq: 20.6 m
Duration: 300.0 s



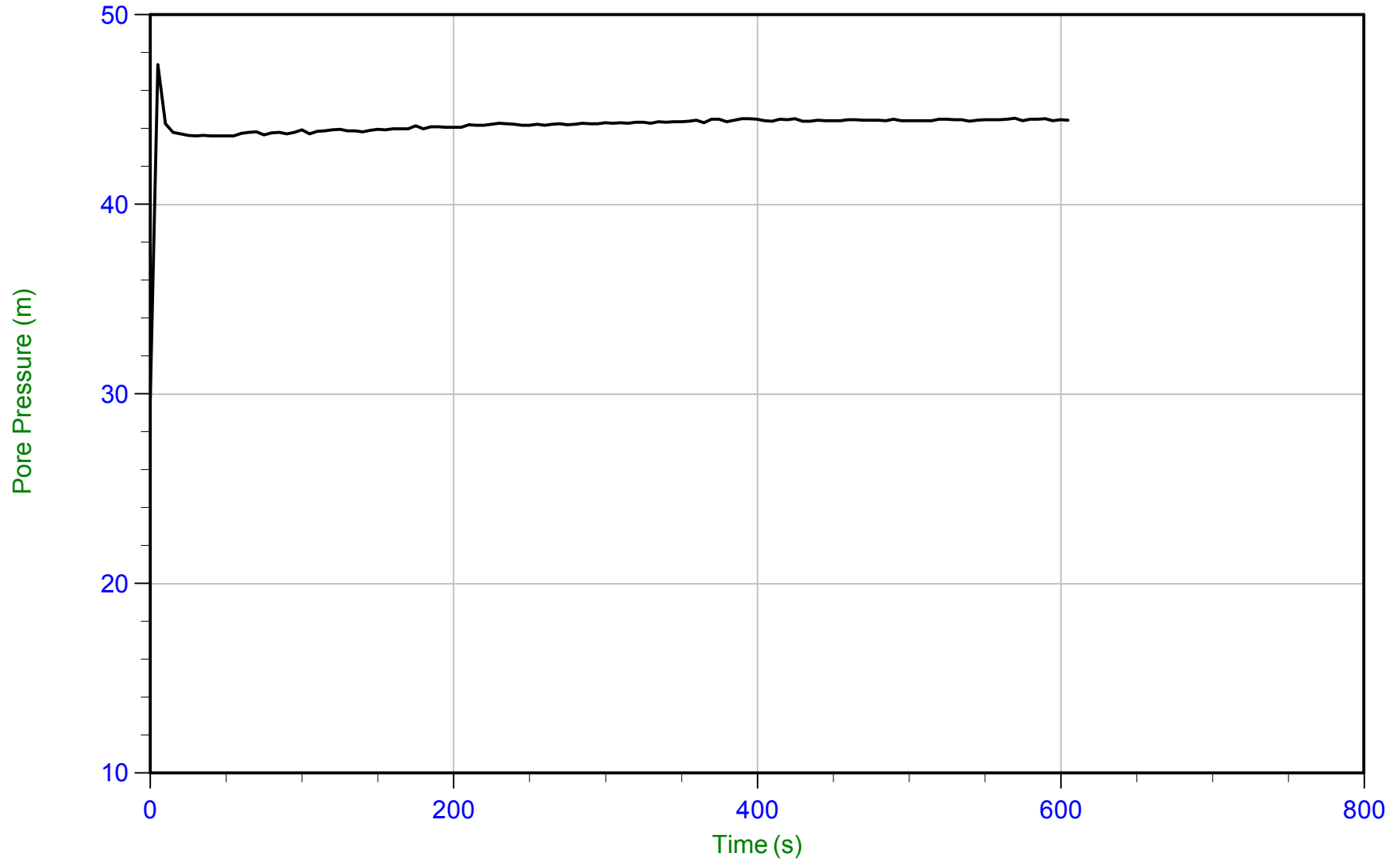
Golder

Job No: 16-02063
Date: 11/25/2016 13:38
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP07.PPF U Min: -2.9 m WT: 2.845 m / 9.334 ft
 Depth: 39.500 m / 129.592 ft U Max: 36.7 m Ueq: 36.7 m
 Duration: 400.0 s



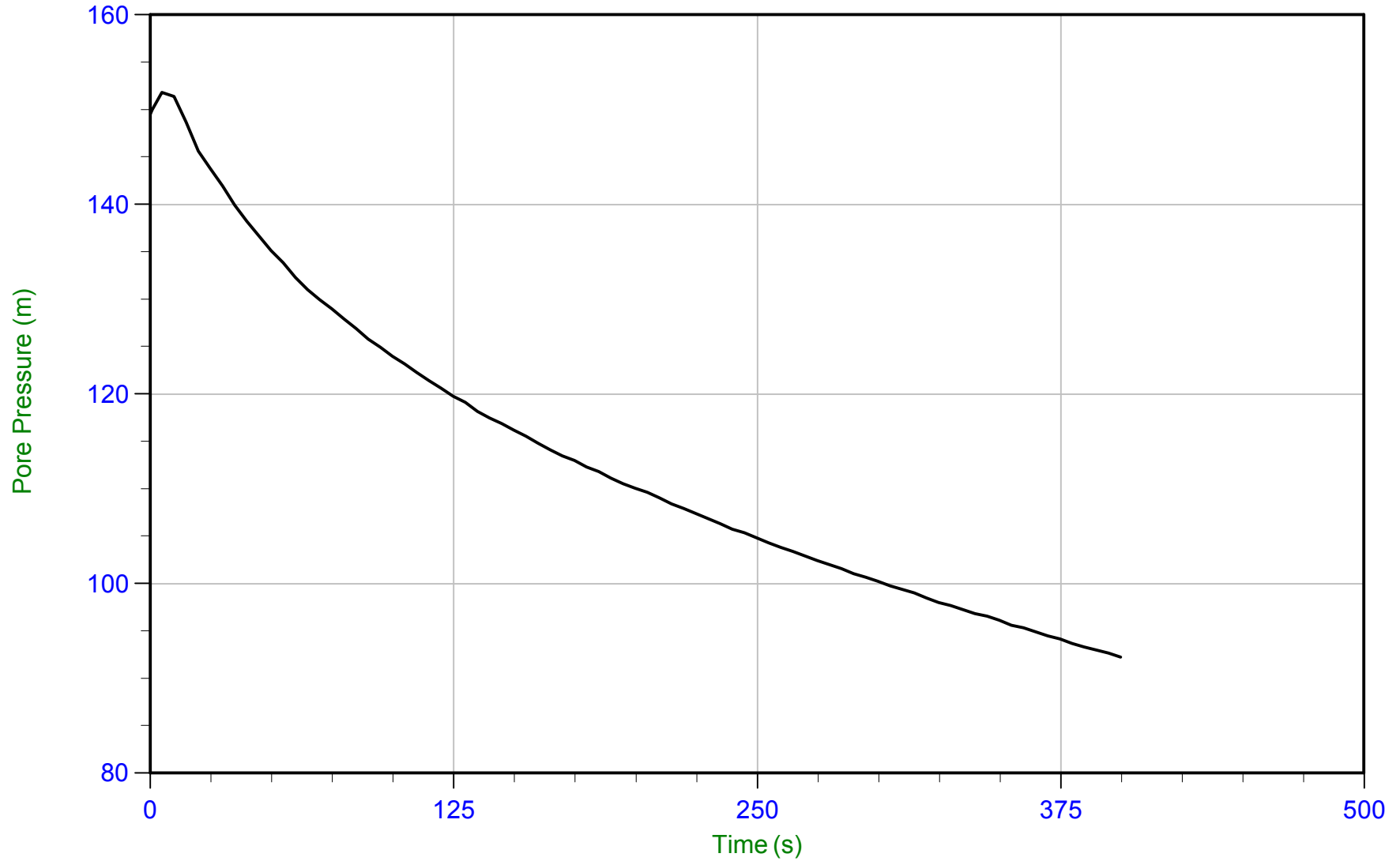
Trace Summary: Filename: 16-02063_SP07.PPF U Min: 29.7 m WT: 3.027 m / 9.931 ft
 Depth: 47.500 m / 155.838 ft U Max: 47.4 m Ueq: 44.5 m
 Duration: 605.0 s



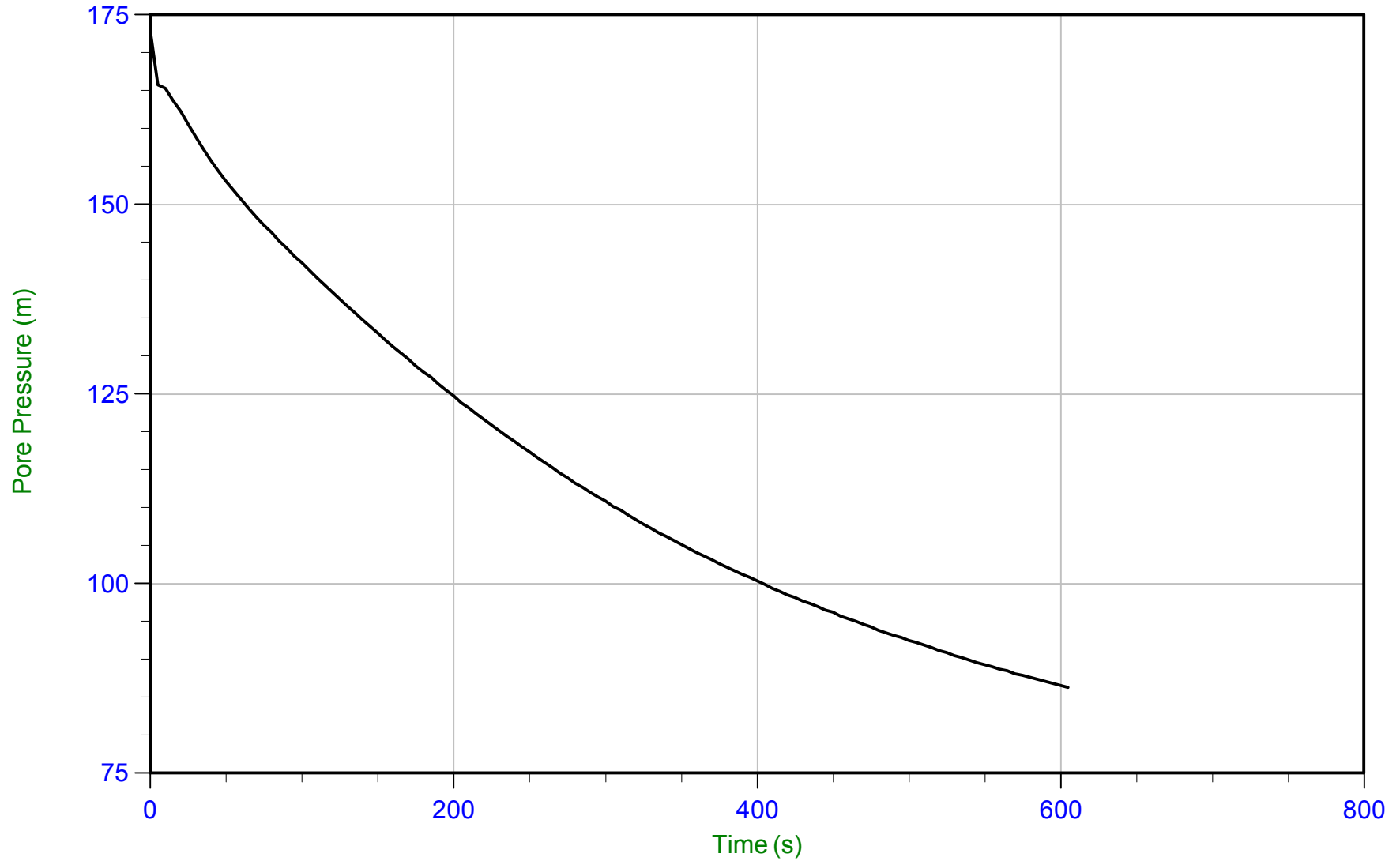
Golder

Job No: 16-02063
Date: 11/25/2016 13:38
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP07.PPF U Min: 92.2 m WT: 3.027 m / 9.931 ft T(50): 290.0 s
 Depth: 52.500 m / 172.242 ft U Max: 151.8 m Ueq: 49.5 m Ir: 100
 Duration: 400.0 s U(50): 100.65 m Ch: 2.4 sq cm/min



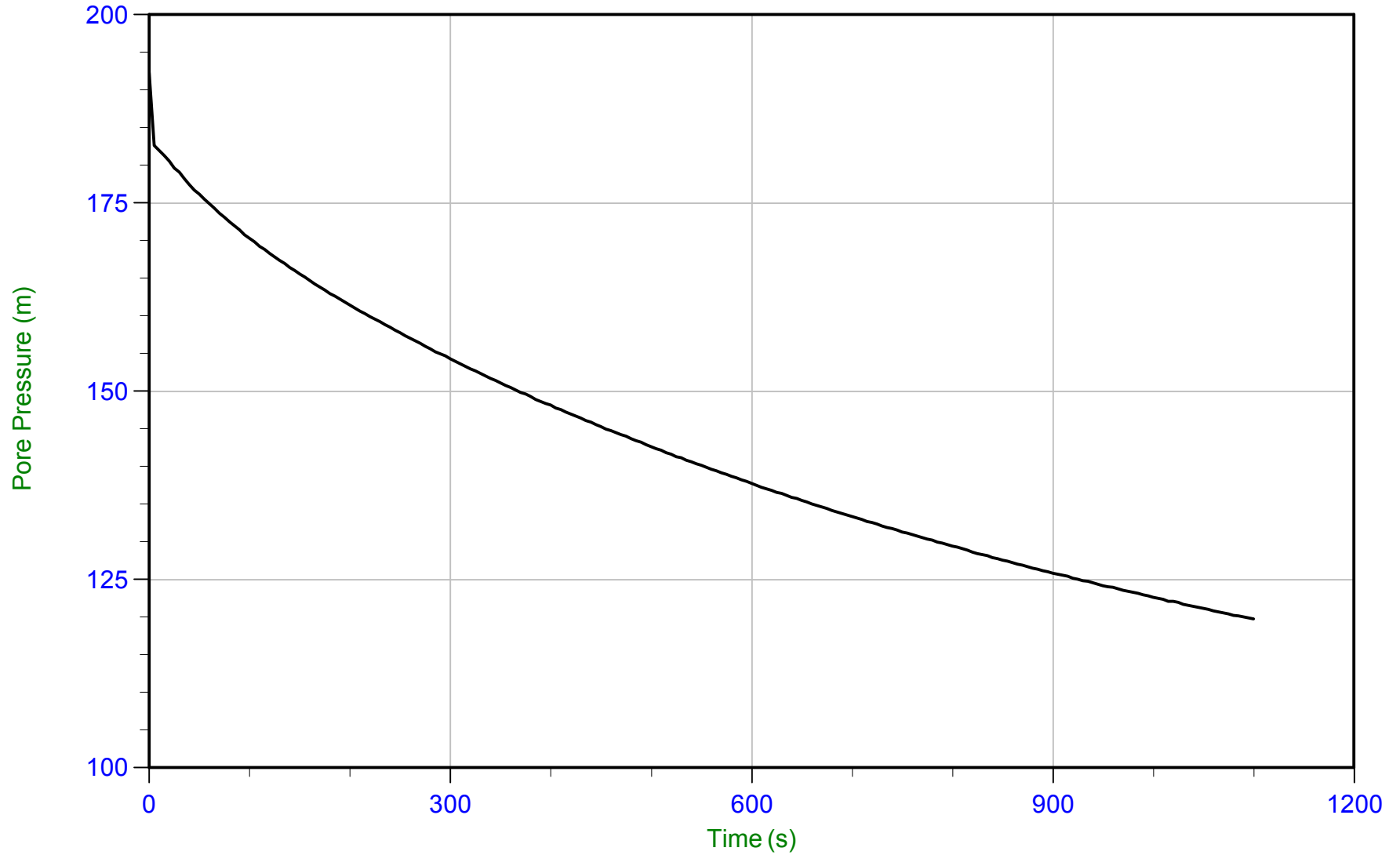
Trace Summary: Filename: 16-02063_SP07.PPF U Min: 86.3 m WT: 3.027 m / 9.931 ft T(50): 280.7 s
 Depth: 56.500 m / 185.365 ft U Max: 172.9 m Ueq: 53.5 m Ir: 100
 Duration: 605.0 s U(50): 113.19 m Ch: 2.5 sq cm/min



Golder

Job No: 16-02063
Date: 11/25/2016 13:38
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07
Cone: 474:T1500F15U500 Area=15 cm²



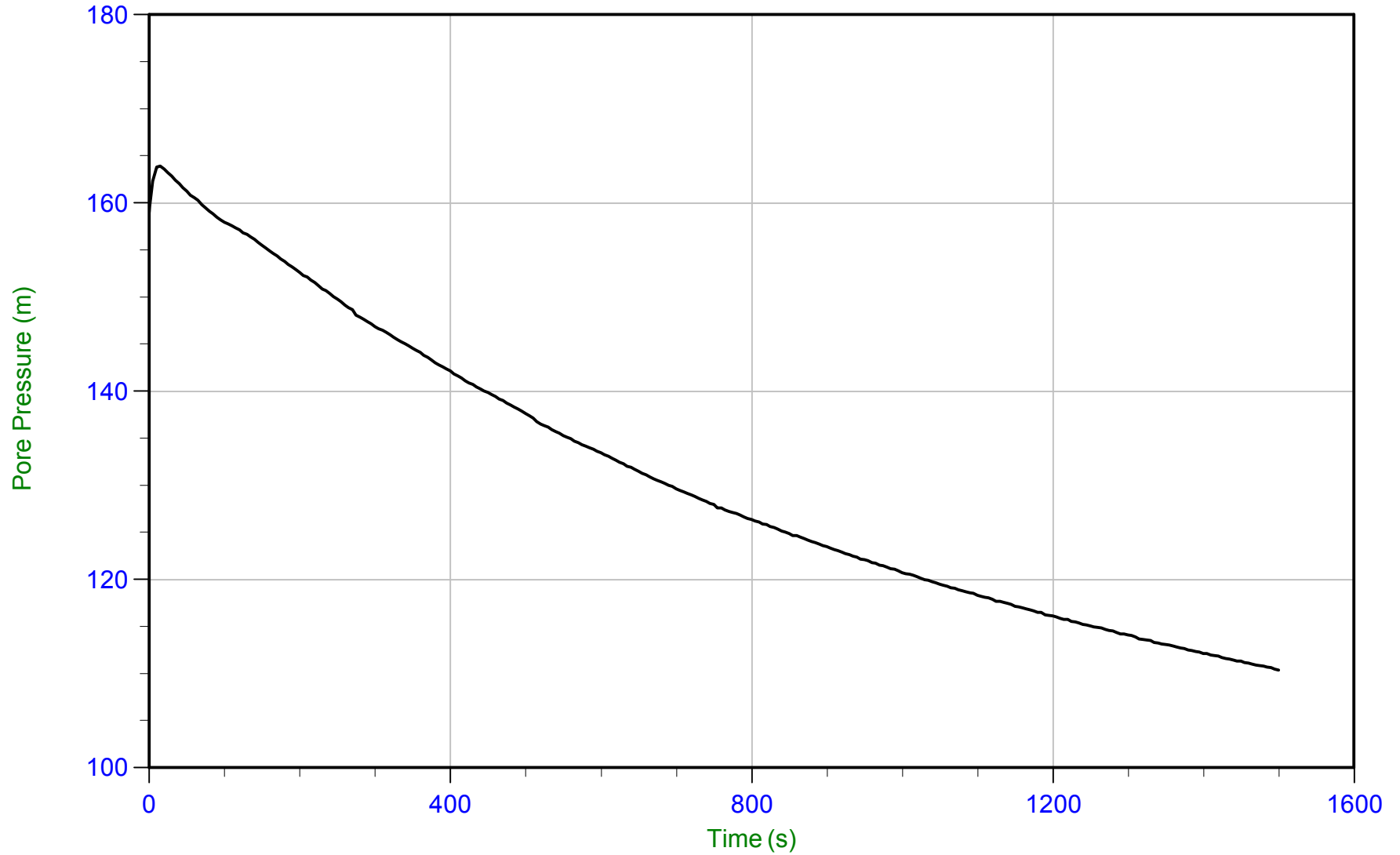
Trace Summary: Filename: 16-02063_SP07.PPF U Min: 119.8 m WT: 3.027 m / 9.931 ft T(50): 924.7 s
Depth: 60.825 m / 199.555 ft U Max: 192.3 m Ueq: 57.8 m Ir: 100
Duration: 1100.0 s U(50): 125.03 m Ch: 0.8 sq cm/min



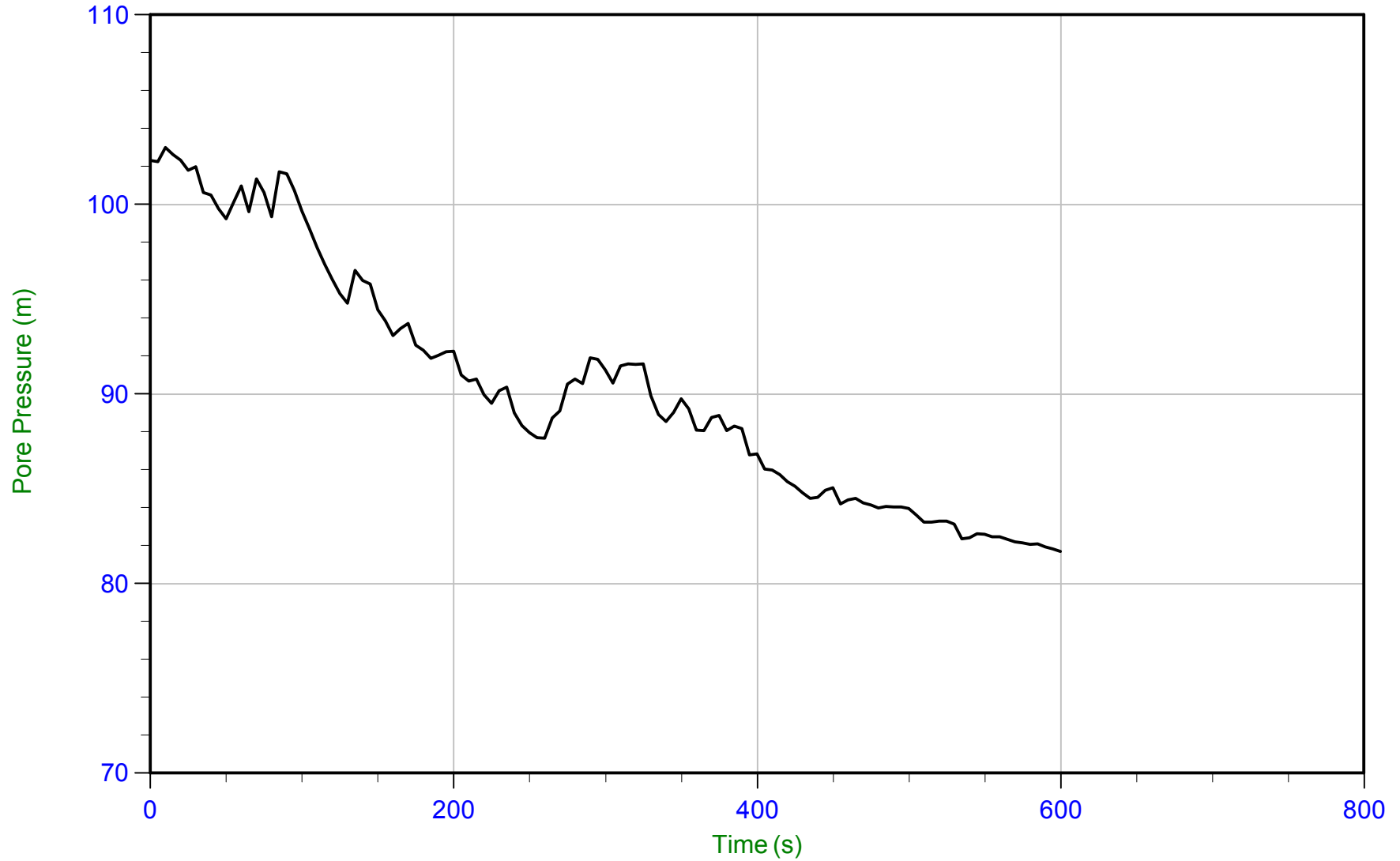
Golder

Job No: 16-02063
Date: 11/25/2016 13:38
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-07
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP07.PPF U Min: 110.4 m WT: 3.027 m / 9.931 ft T(50): 1319.2 s
Depth: 65.825 m / 215.959 ft U Max: 163.9 m Ueq: 62.8 m Ir: 100
Duration: 1500.0 s U(50): 113.36 m Ch: 0.5 sq cm/min

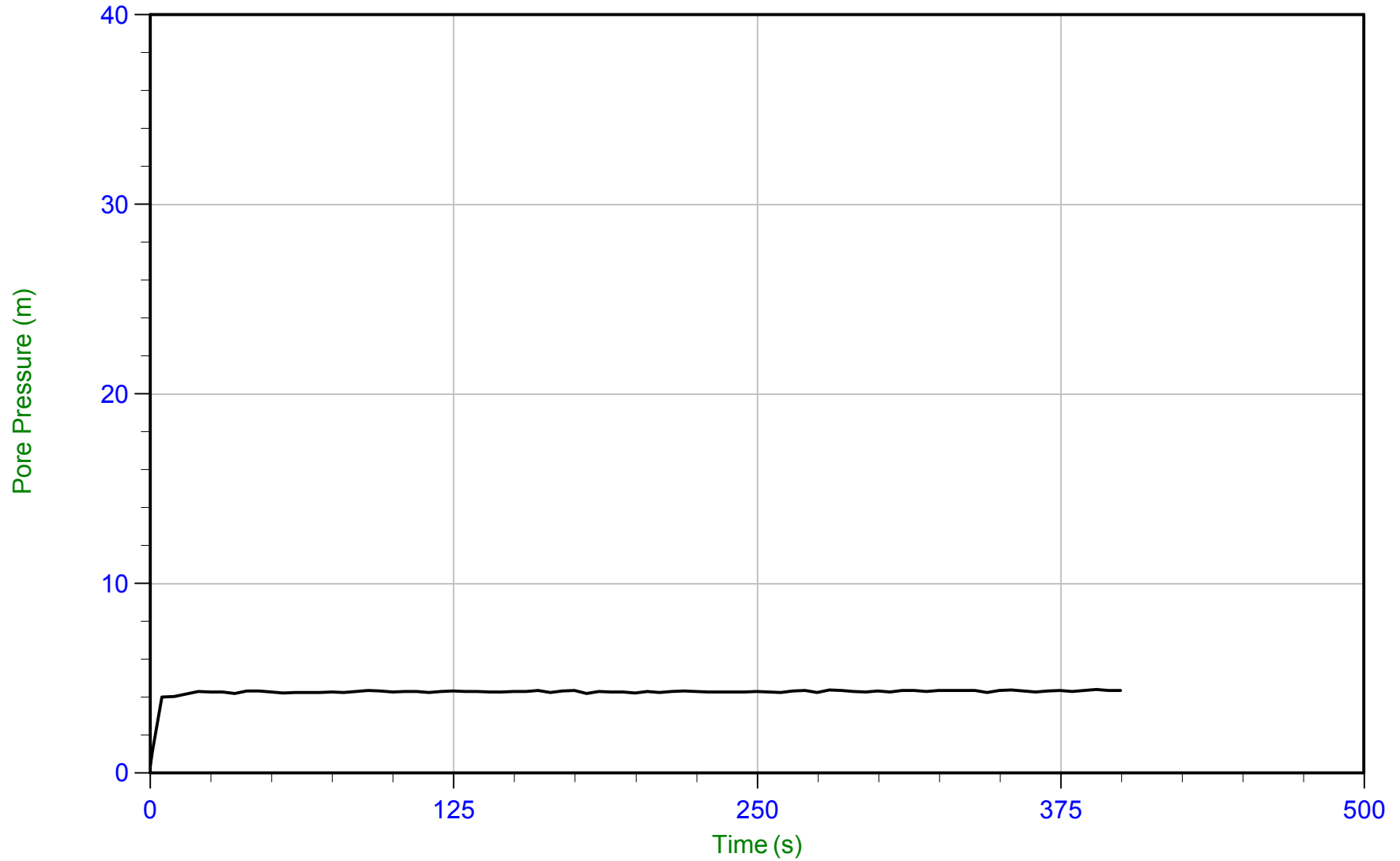


Trace Summary: Filename: 16-02063_SP07.PPF
Depth: 66.425 m / 217.927 ft
Duration: 600.0 s

U Min: 81.7 m
U Max: 103.0 m

WT: 3.027 m / 9.931 ft
Ueq: 63.4 m
U(50): 83.19 m

T(50): 518.0 s
Ir: 100
Ch: 1.4 sq cm/min



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 0.4 m WT: 3.661 m / 12.011 ft
 Depth: 8.025 m / 26.328 ft U Max: 4.4 m Ueq: 4.4 m
 Duration: 400.0 s



Golder

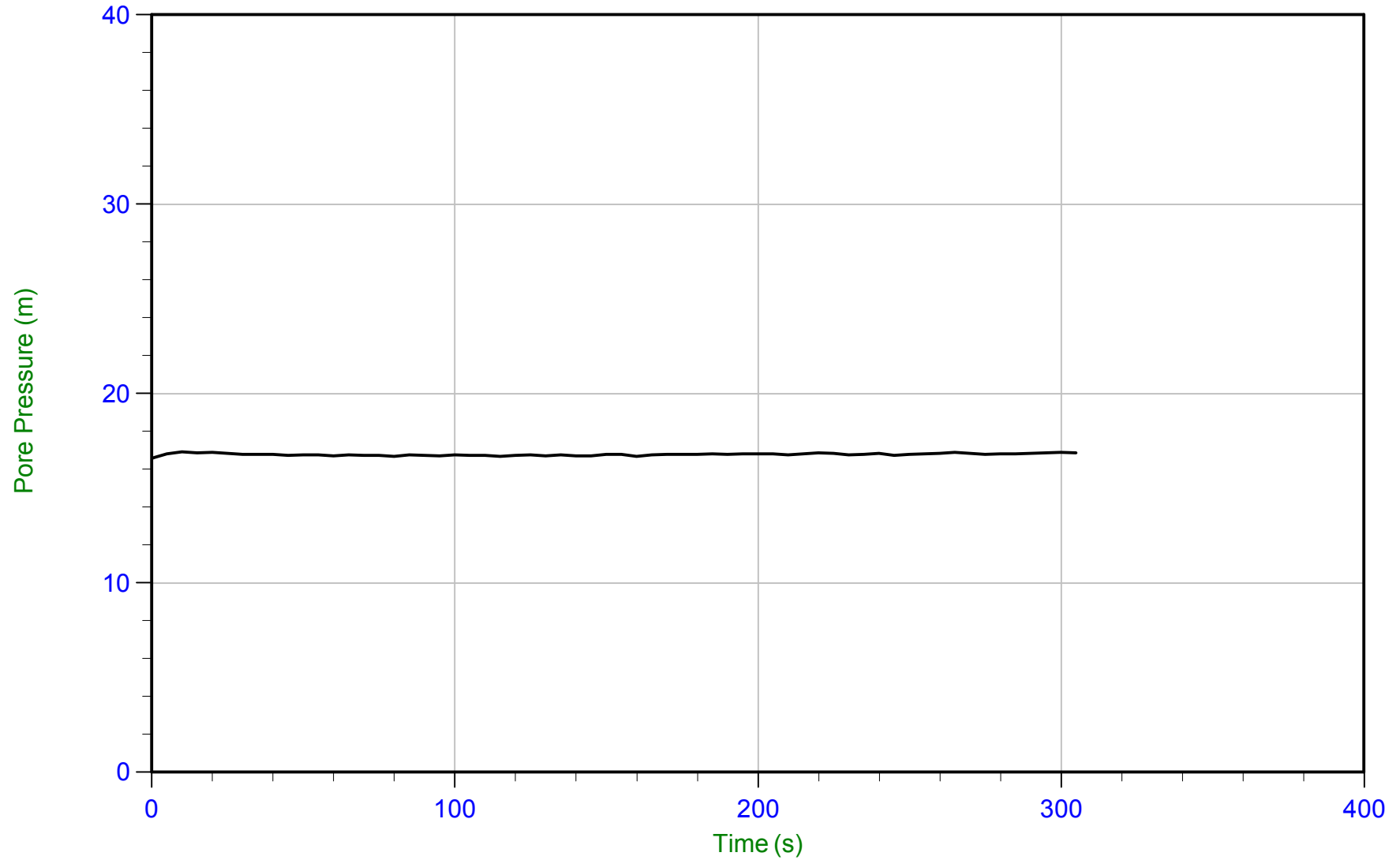
Job No: 16-02063

Date: 11/23/2016 07:59

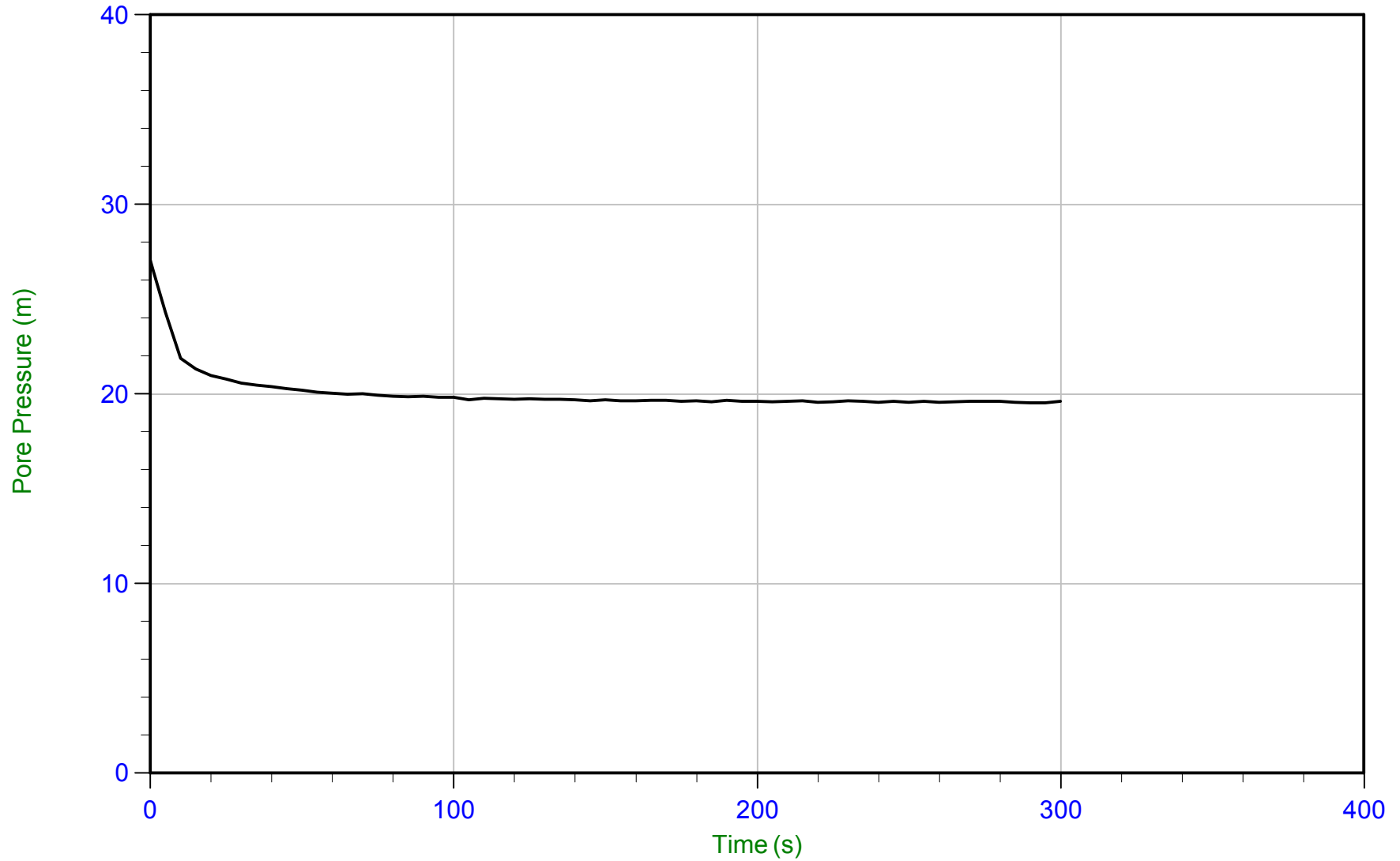
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 16.6 m WT: 3.127 m / 10.259 ft
Depth: 20.000 m / 65.616 ft U Max: 16.9 m Ueq: 16.9 m
Duration: 305.0 s



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 19.5 m WT: 3.009 m / 9.872 ft
 Depth: 22.500 m / 73.818 ft U Max: 27.1 m Ueq: 19.5 m
 Duration: 300.0 s



Golder

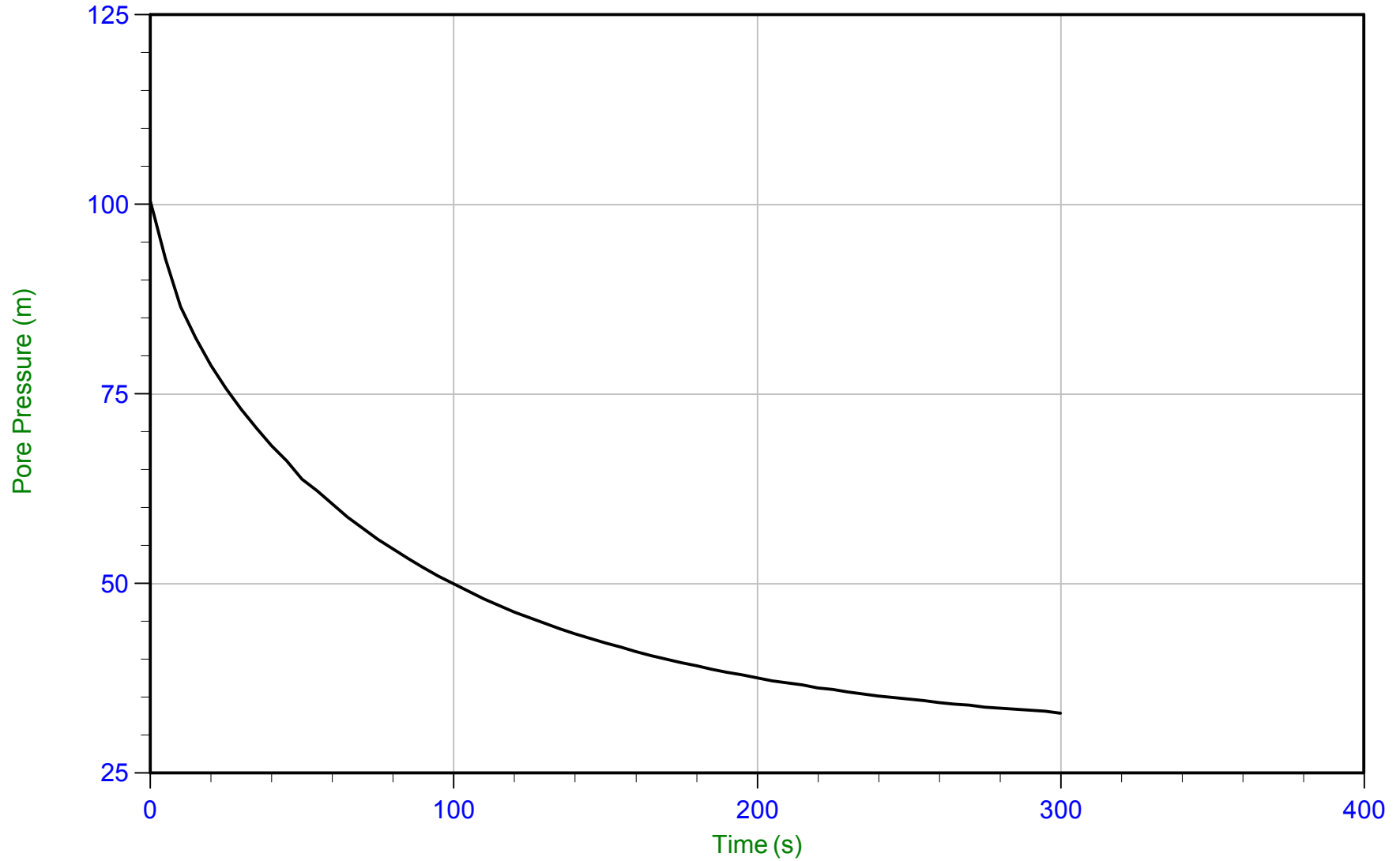
Job No: 16-02063

Date: 11/23/2016 07:59

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 32.9 m WT: 3.100 m / 10.170 ft T(50): 48.0 s
Depth: 32.025 m / 105.068 ft U Max: 100.5 m Ueq: 28.9 m Ir: 100
Duration: 300.0 s U(50): 64.69 m Ch: 14.6 sq cm/min



Golder

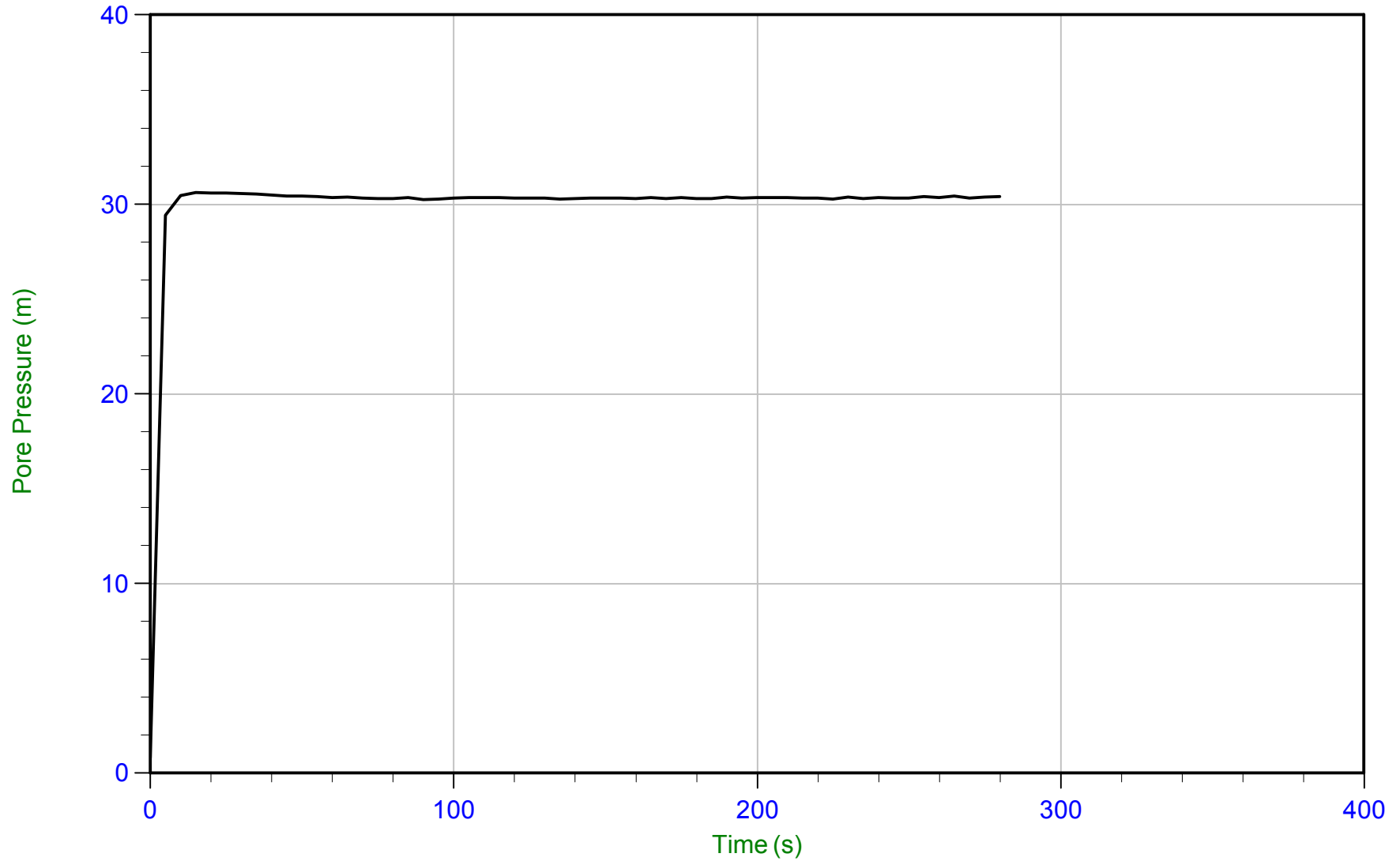
Job No: 16-02063

Date: 11/23/2016 07:59

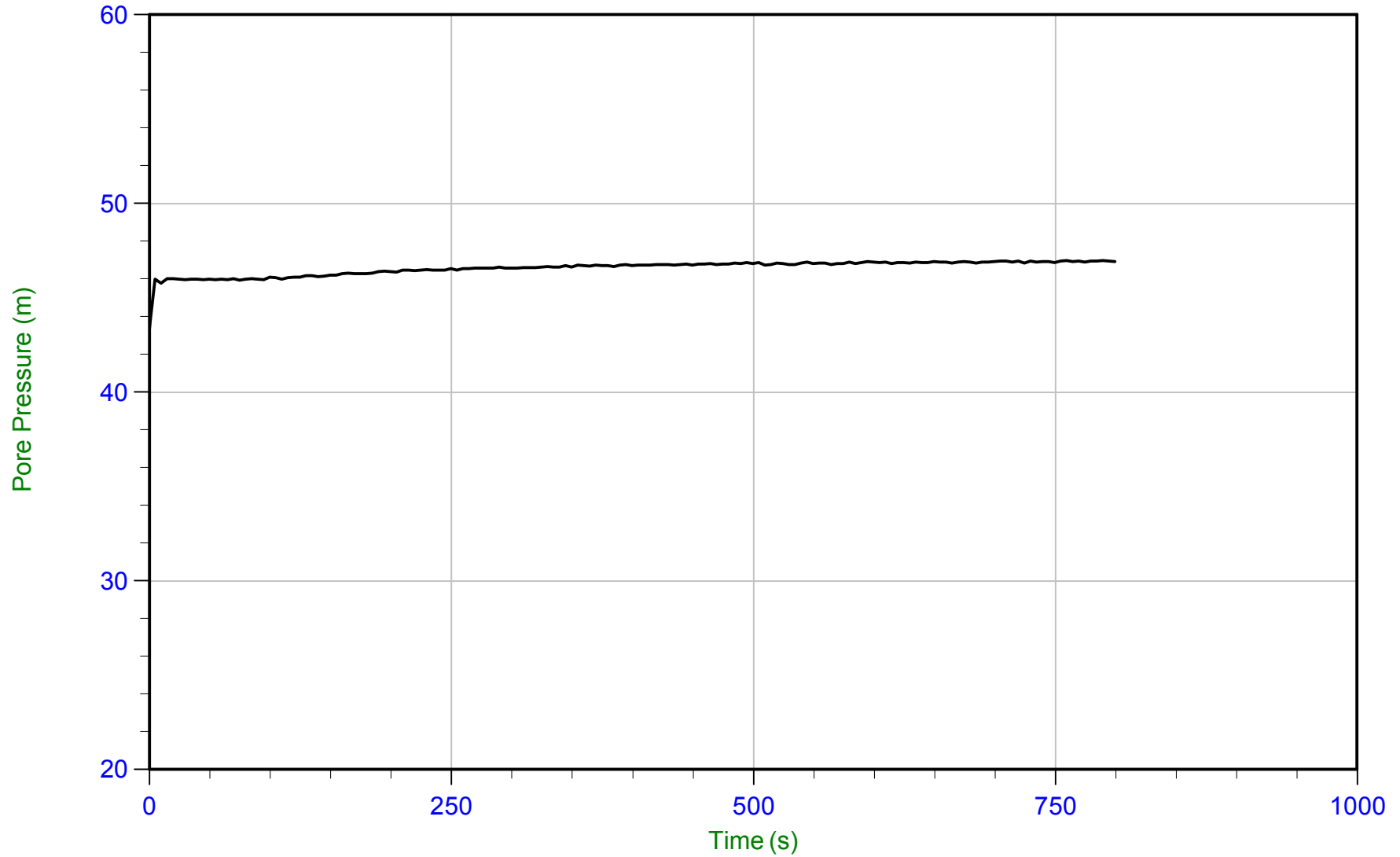
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 0.8 m WT: 3.100 m / 10.170 ft
 Depth: 33.500 m / 109.907 ft U Max: 30.6 m Ueq: 30.4 m
 Duration: 280.0 s



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 43.4 m WT: 2.945 m / 9.662 ft
 Depth: 50.000 m / 164.040 ft U Max: 47.0 m Ueq: 47.1 m
 Duration: 800.0 s



Golder

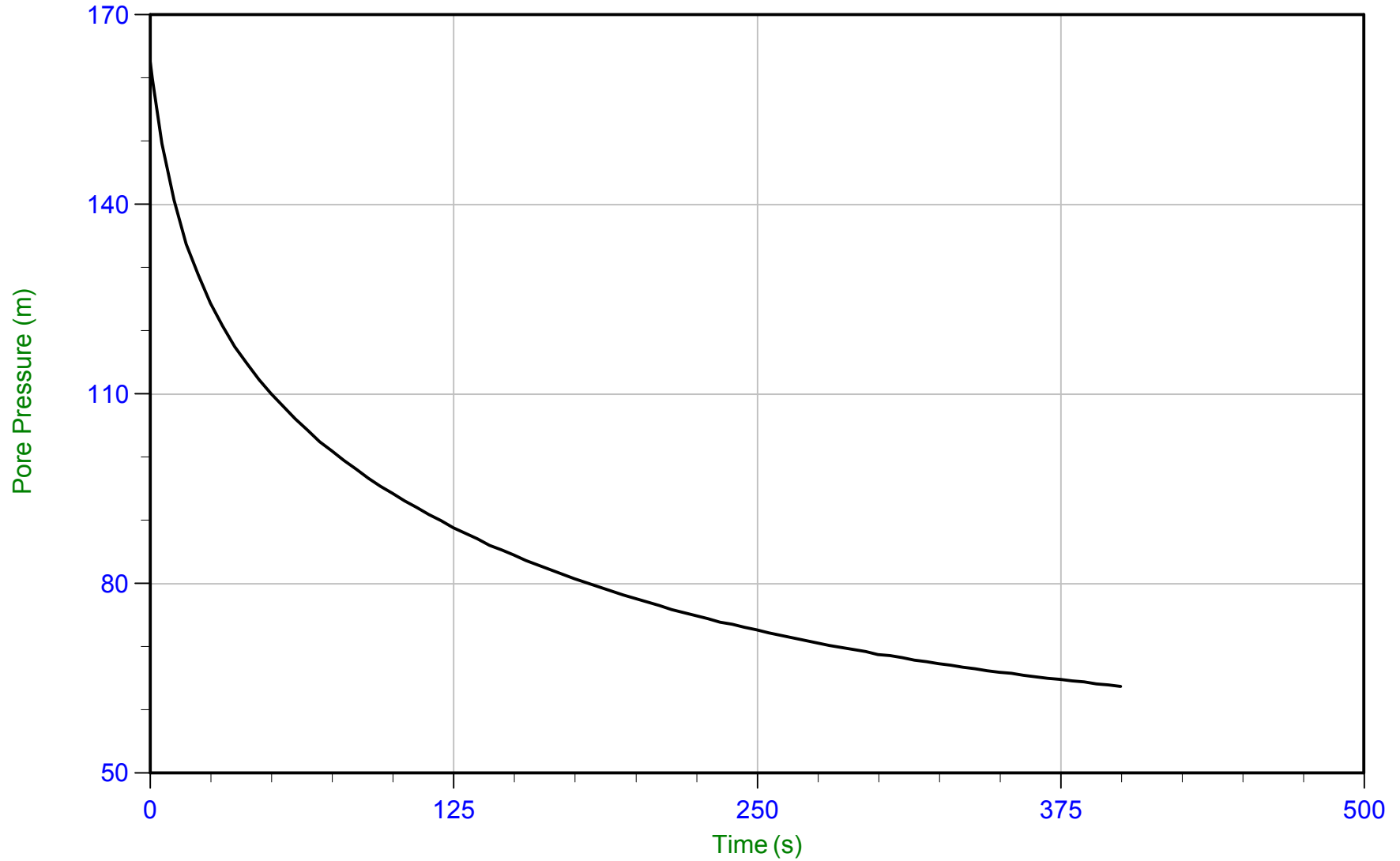
Job No: 16-02063

Date: 11/23/2016 07:59

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF
Depth: 56.725 m / 186.103 ft
Duration: 400.0 s

U Min: 63.7 m
U Max: 162.5 m

WT: 2.945 m / 9.662 ft
Ueq: 53.8 m
U(50): 108.16 m

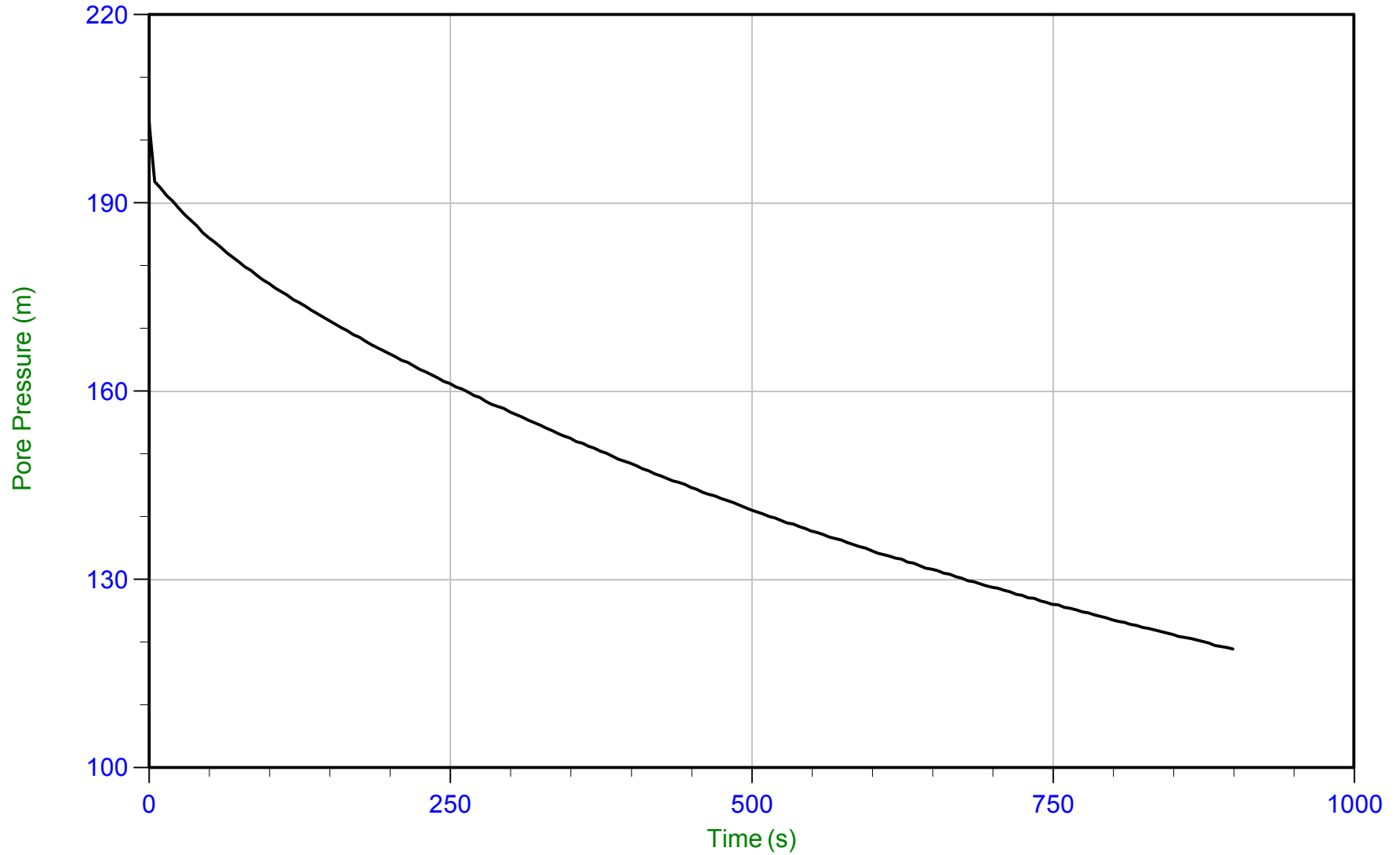
T(50): 54.7 s
Ir: 100
Ch: 12.8 sq cm/min



Golder

Job No: 16-02063
Date: 11/23/2016 07:59
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08
Cone: 474:T1500F15U500 Area=15 cm²



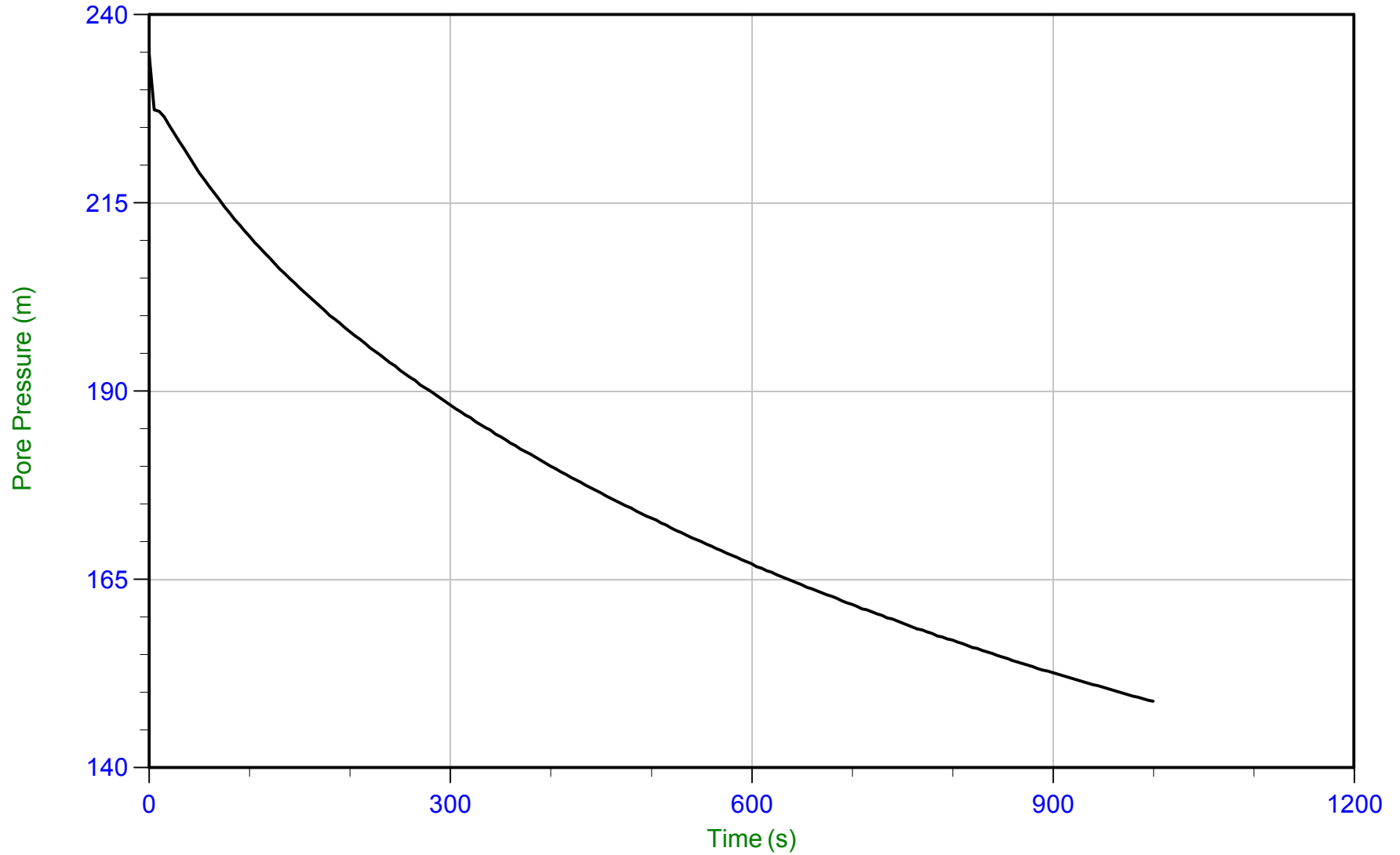
Trace Summary: Filename: 16-02063_SP08.PPF U Min: 119.0 m WT: 2.945 m / 9.662 ft T(50): 669.4 s
 Depth: 61.000 m / 200.129 ft U Max: 202.9 m Ueq: 58.1 m Ir: 100
 Duration: 900.0 s U(50): 130.49 m Ch: 1.0 sq cm/min



Golder

Job No: 16-02063
Date: 11/23/2016 07:59
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-08
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF U Min: 148.8 m WT: 2.945 m / 9.662 ft T(50): 945.9 s
Depth: 70.000 m / 229.656 ft U Max: 234.7 m Ueq: 67.1 m Ir: 100
Duration: 1000.0 s U(50): 150.89 m Ch: 0.7 sq cm/min



Golder

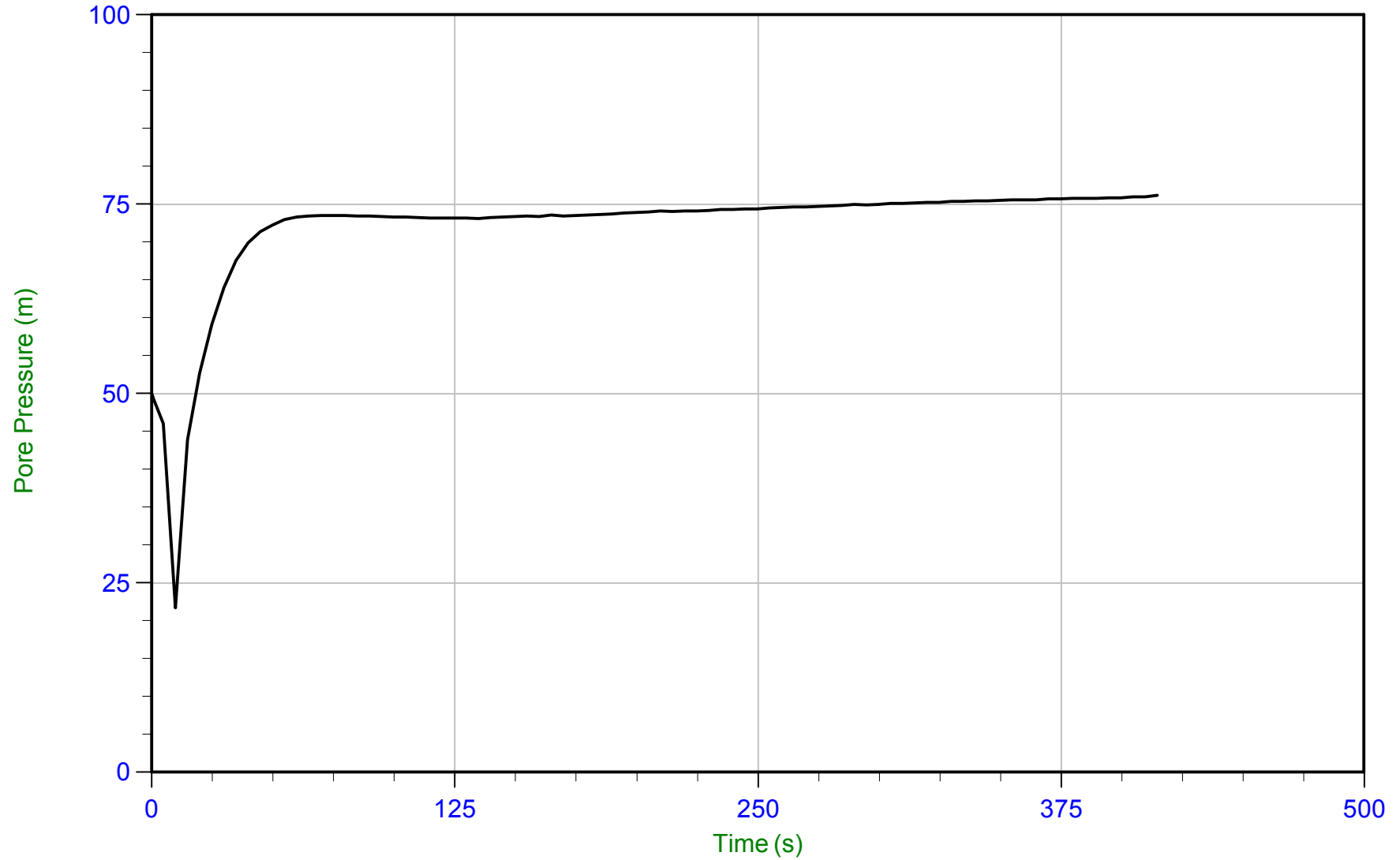
Job No: 16-02063

Date: 11/23/2016 07:59

Site: Annacis Island Wastewater Treatment Plant

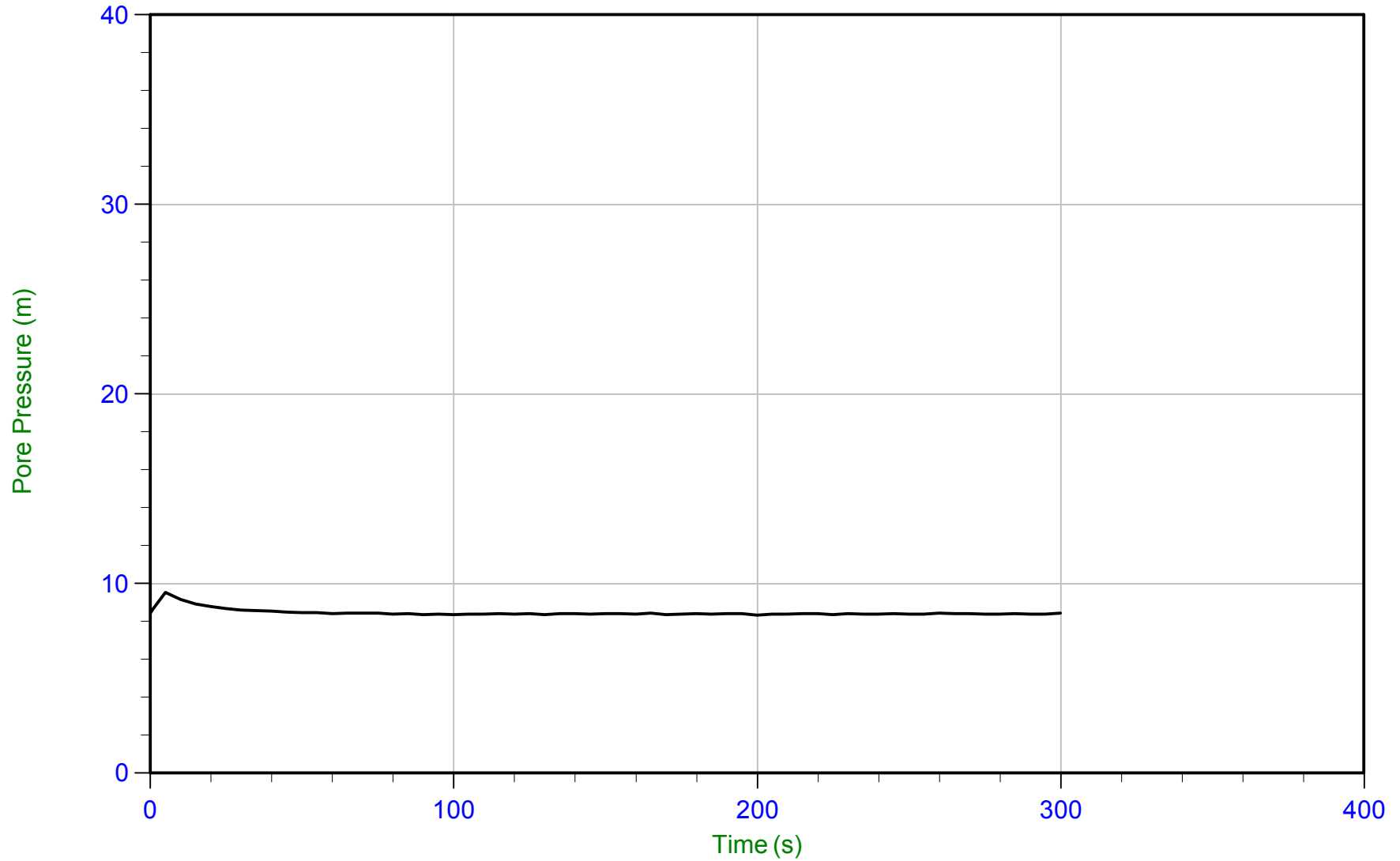
Sounding: SCPT16-08

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP08.PPF
Depth: 76.525 m / 251.063 ft
Duration: 415.0 s

U Min: 21.7 m
U Max: 76.1 m



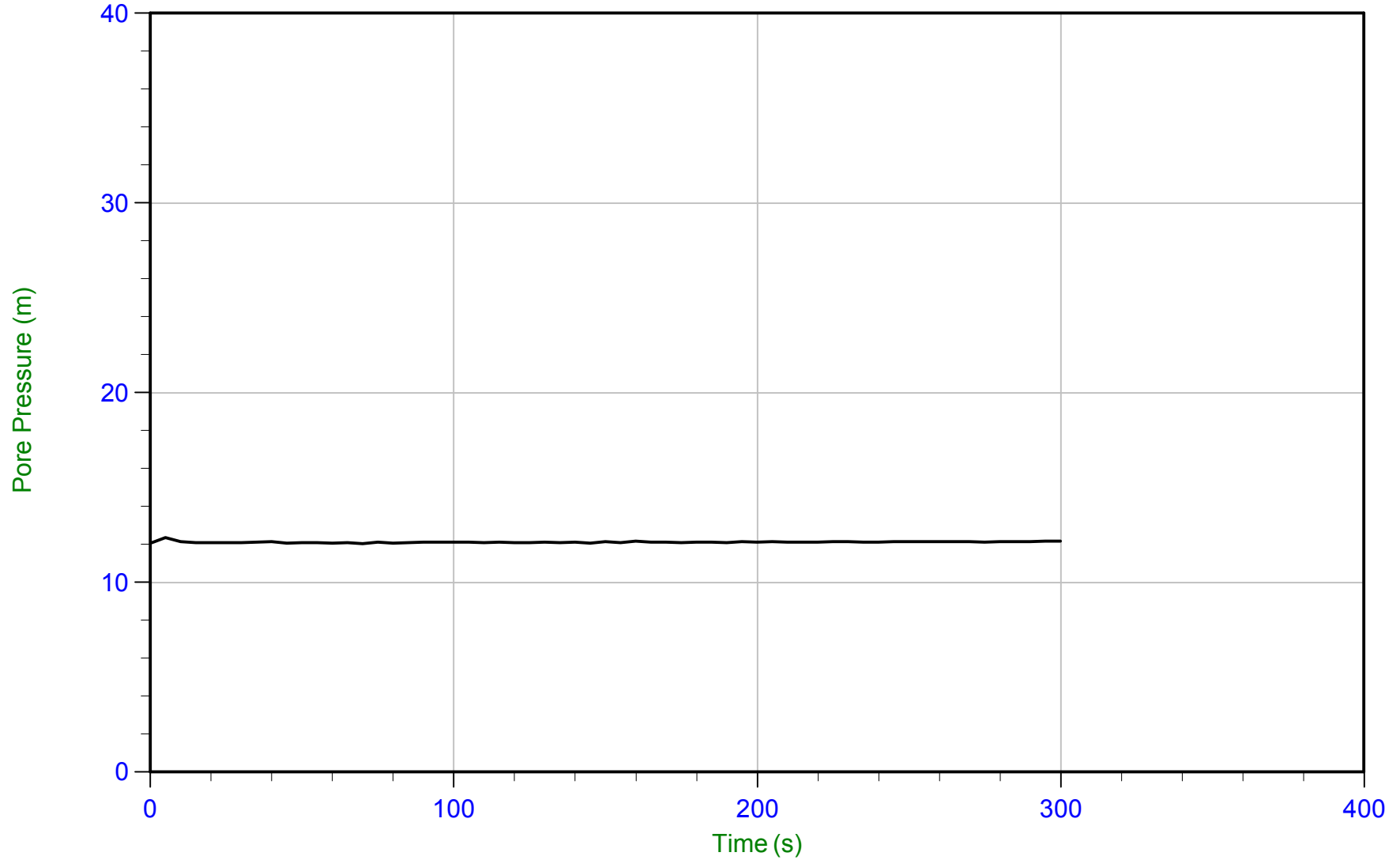
Trace Summary: Filename: 16-02063_SP09.PPF U Min: 8.3 m WT: 3.564 m / 11.693 ft
 Depth: 12.000 m / 39.370 ft U Max: 9.5 m Ueq: 8.4 m
 Duration: 300.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 07:28
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09
Cone: 474:T1500F15U500 Area=15 cm²



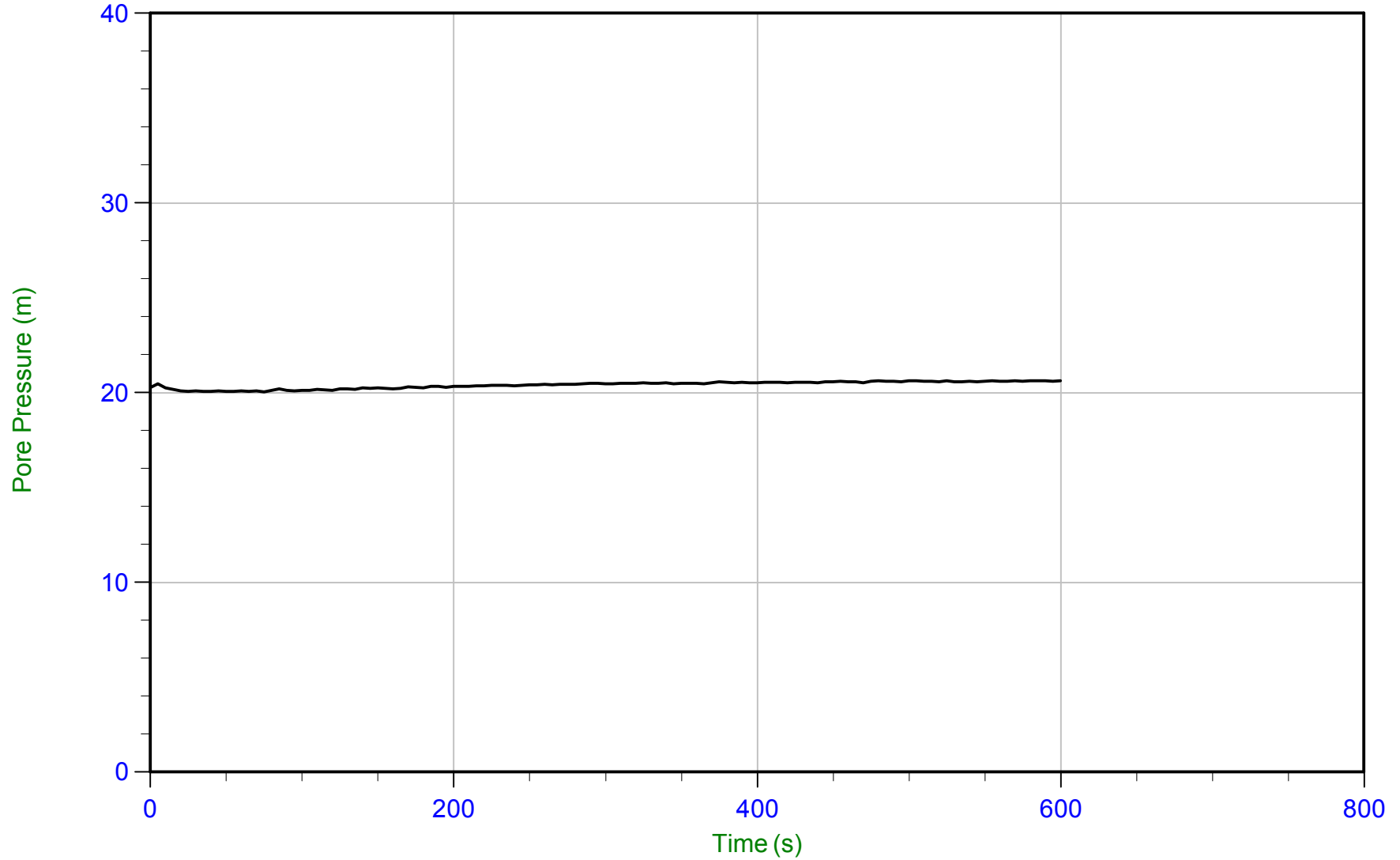
Trace Summary: Filename: 16-02063_SP09.PPF U Min: 12.1 m WT: 3.532 m / 11.588 ft
Depth: 15.750 m / 51.673 ft U Max: 12.4 m Ueq: 12.2 m
Duration: 300.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 07:28
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09
Cone: 474:T1500F15U500 Area=15 cm²



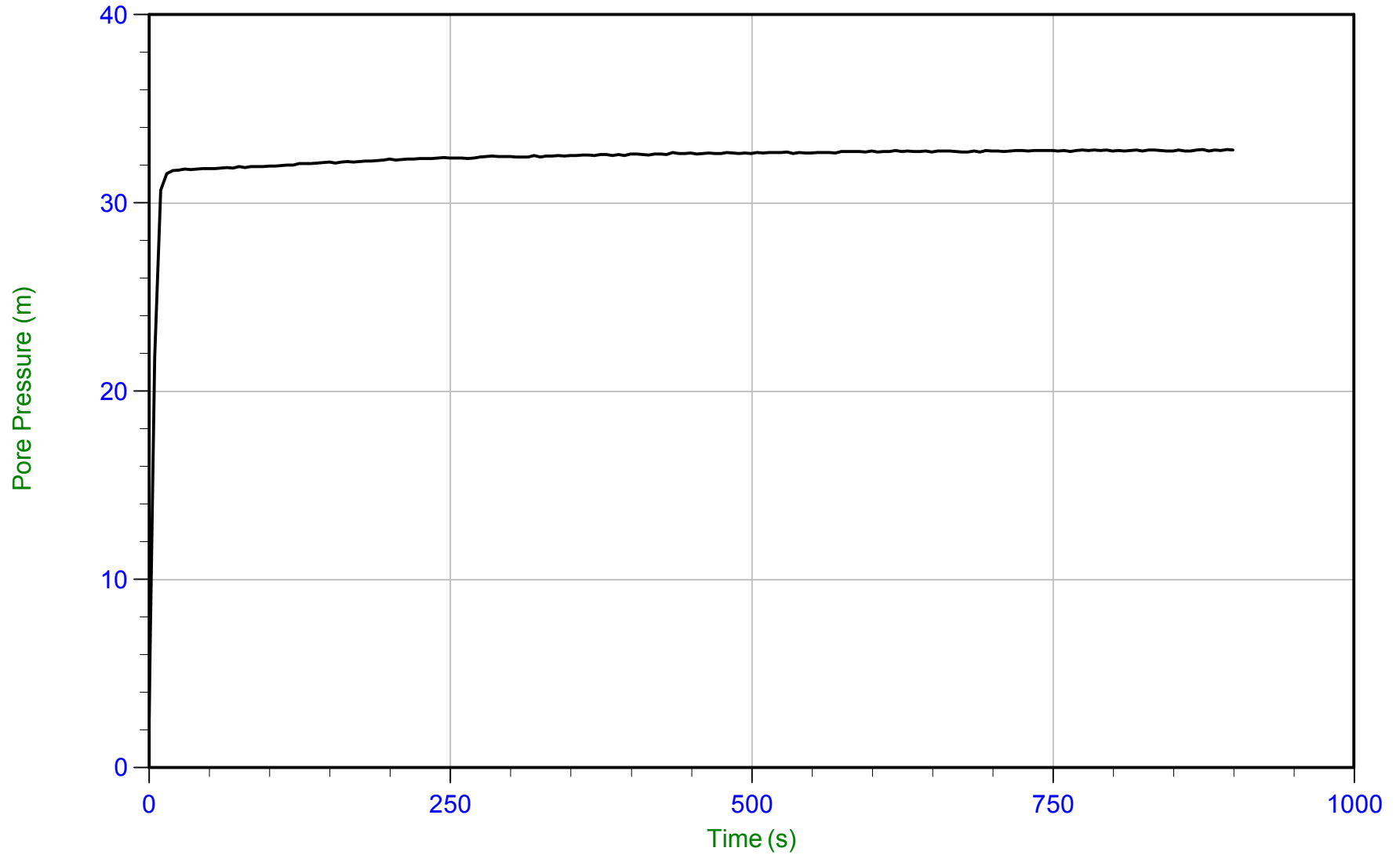
Trace Summary: Filename: 16-02063_SP09.PPF U Min: 20.0 m WT: 3.370 m / 11.056 ft
Depth: 24.025 m / 78.821 ft U Max: 20.6 m Ueq: 20.7 m
Duration: 600.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 07:28
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09
Cone: 474:T1500F15U500 Area=15 cm²



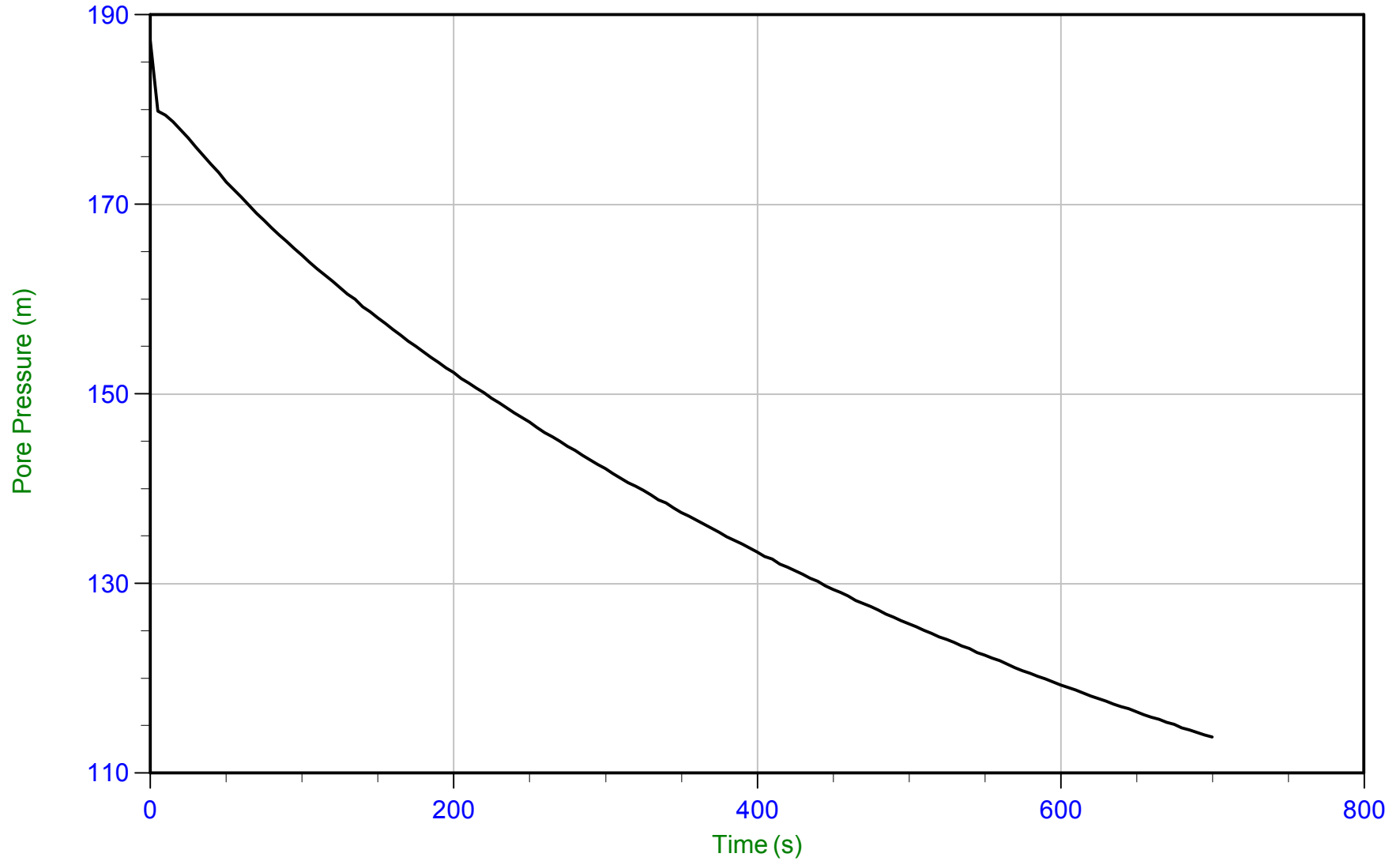
Trace Summary: Filename: 16-02063_SP09.PPF U Min: 2.7 m WT: 3.127 m / 10.259 ft
Depth: 36.000 m / 118.109 ft U Max: 32.8 m Ueq: 32.9 m
Duration: 900.0 s



Golder

Job No: 16-02063
Date: 11/24/2016 07:28
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09
Cone: 474:T1500F15U500 Area=15 cm²



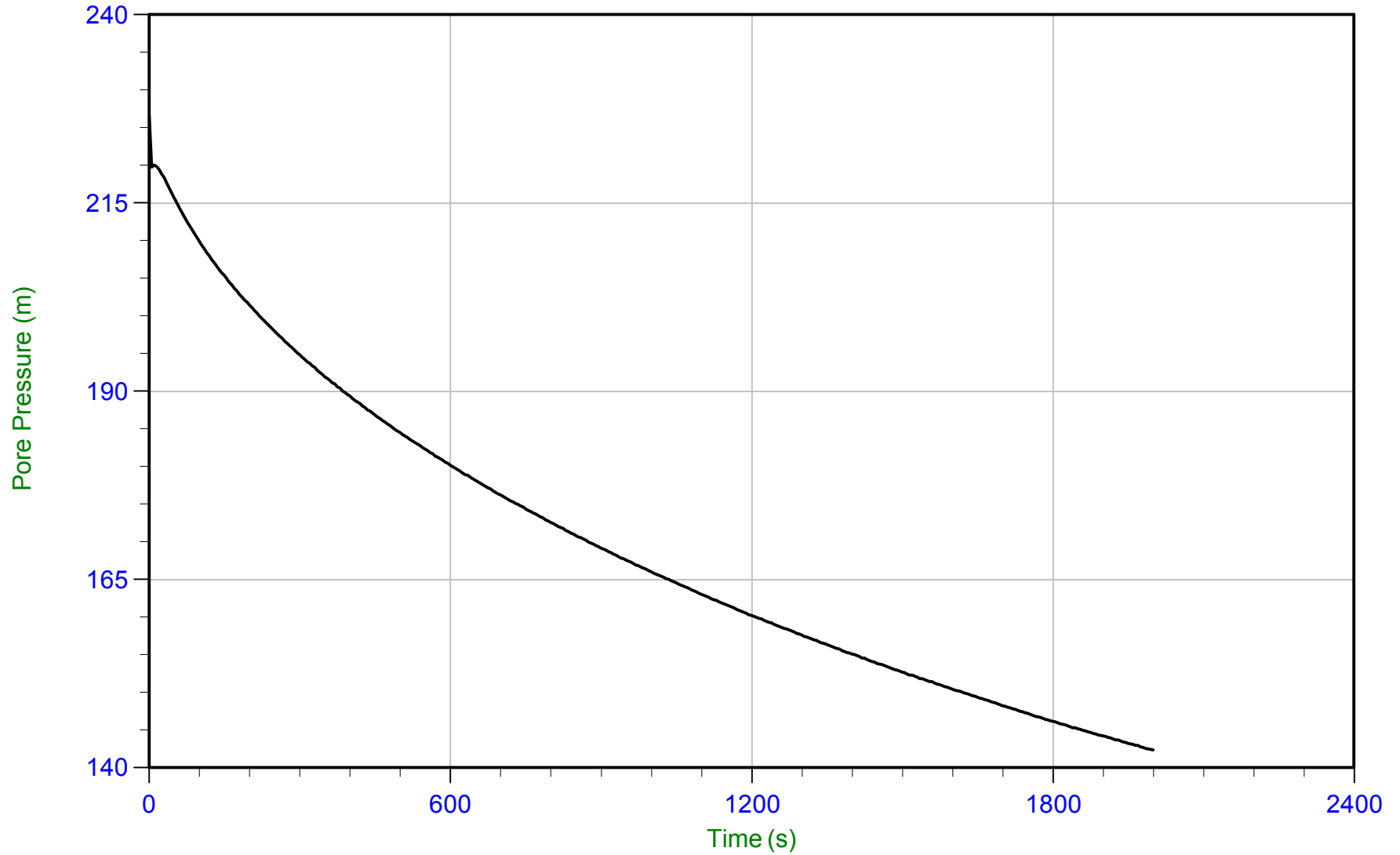
Trace Summary: Filename: 16-02063_SP09.PPF U Min: 113.8 m WT: 3.127 m / 10.259 ft T(50): 556.0 s
Depth: 60.000 m / 196.848 ft U Max: 187.3 m Ueq: 56.9 m Ir: 100
Duration: 700.0 s U(50): 122.07 m Ch: 1.3 sq cm/min



Golder

Job No: 16-02063
Date: 11/24/2016 07:28
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09
Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP09.PPF U Min: 142.3 m WT: 3.127 m / 10.259 ft T(50): 1770.0 s
Depth: 70.000 m / 229.656 ft U Max: 226.7 m Ueq: 66.9 m Ir: 100
Duration: 2000.0 s U(50): 146.79 m Ch: 0.4 sq cm/min



Golder

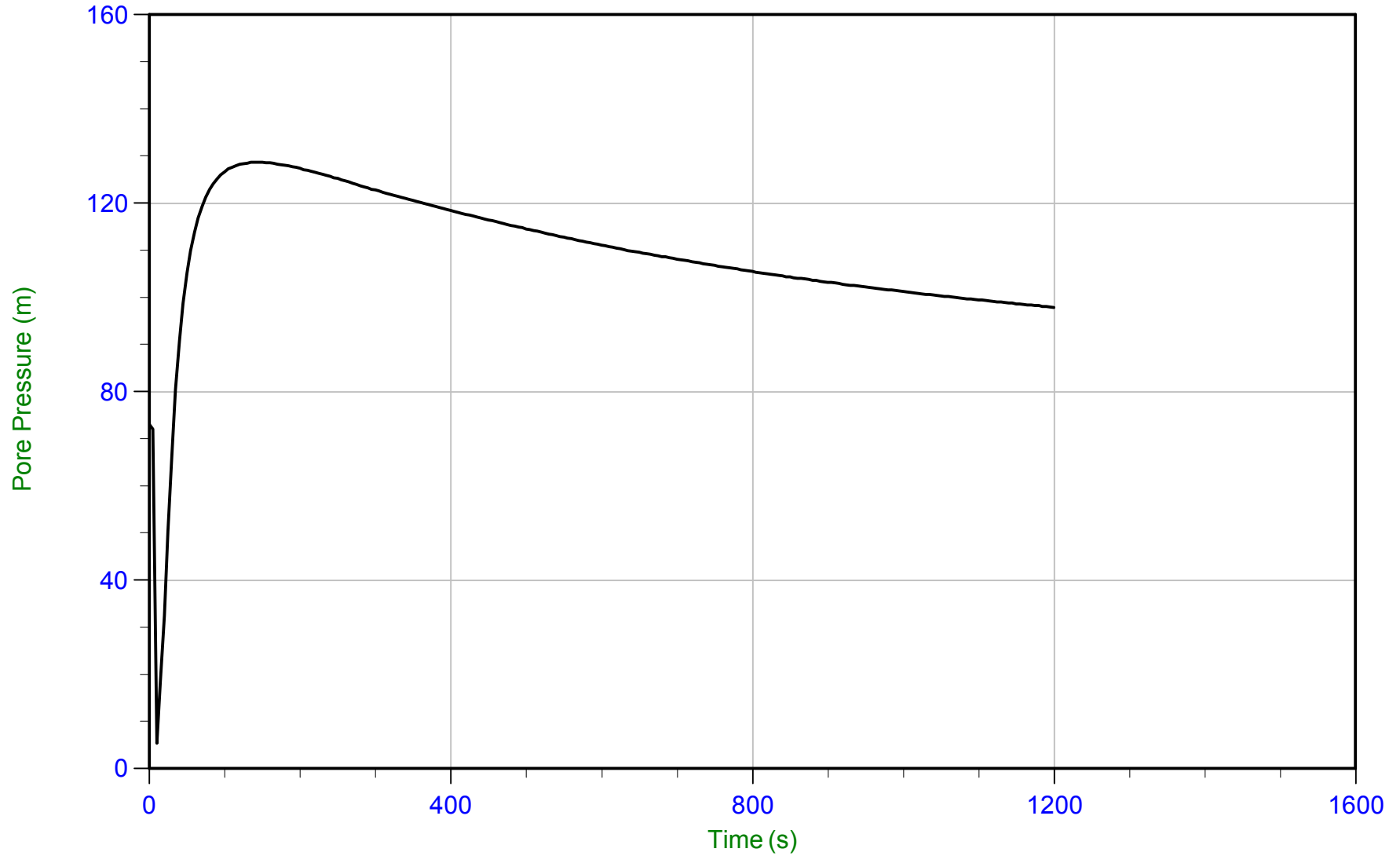
Job No: 16-02063

Date: 11/24/2016 07:28

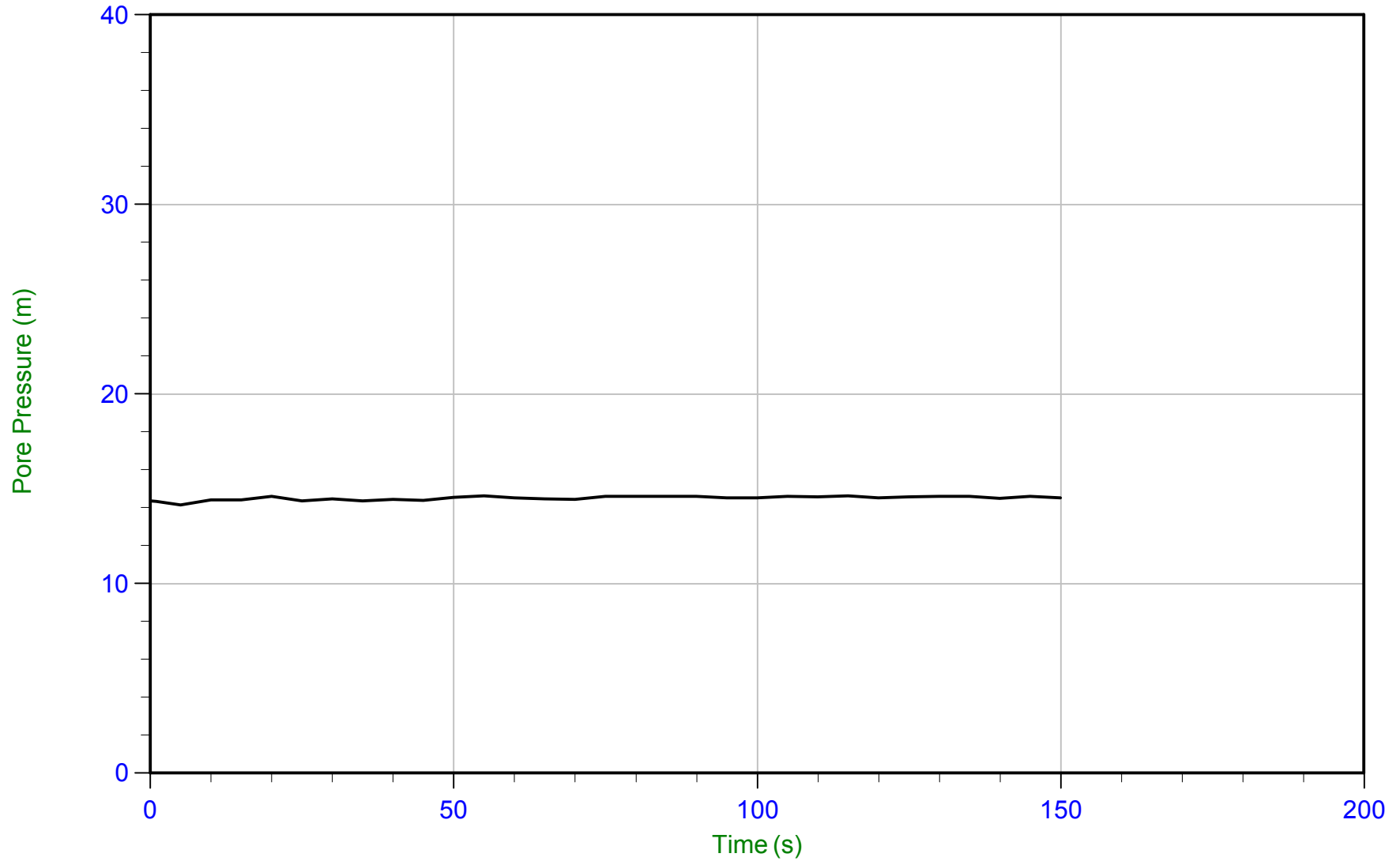
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-09

Cone: 474:T1500F15U500 Area=15 cm²



Trace Summary: Filename: 16-02063_SP09.PPF U Min: 5.4 m WT: 3.127 m / 10.259 ft T(50): 951.1 s
Depth: 73.675 m / 241.713 ft U Max: 128.7 m Ueq: 70.5 m Ir: 100
Duration: 1200.0 s U(50): 99.63 m Ch: 0.7 sq cm/min



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 1.575 m / 5.167 ft
Duration: 150.0 s

U Min: 14.2 m
U Max: 14.6 m

WT: -12.970 m / -42.552 ft
Ueq: 14.5 m



Golder

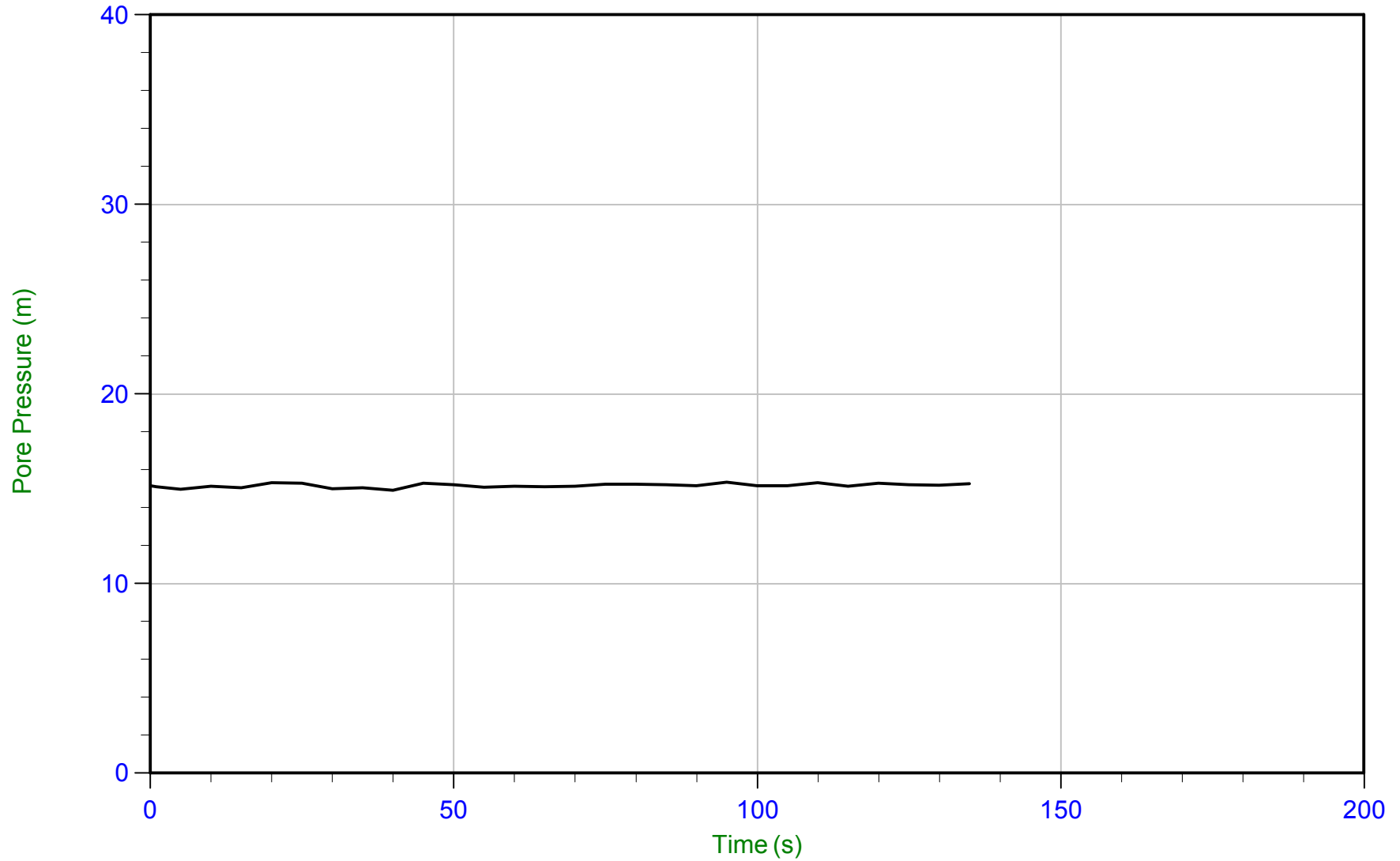
Job No: 16-02063

Date: 12/15/2016 16:15

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 2.025 m / 6.644 ft
Duration: 135.0 s

U Min: 14.9 m
U Max: 15.3 m

WT: -13.086 m / -42.933 ft
Ueq: 15.1 m



Golder

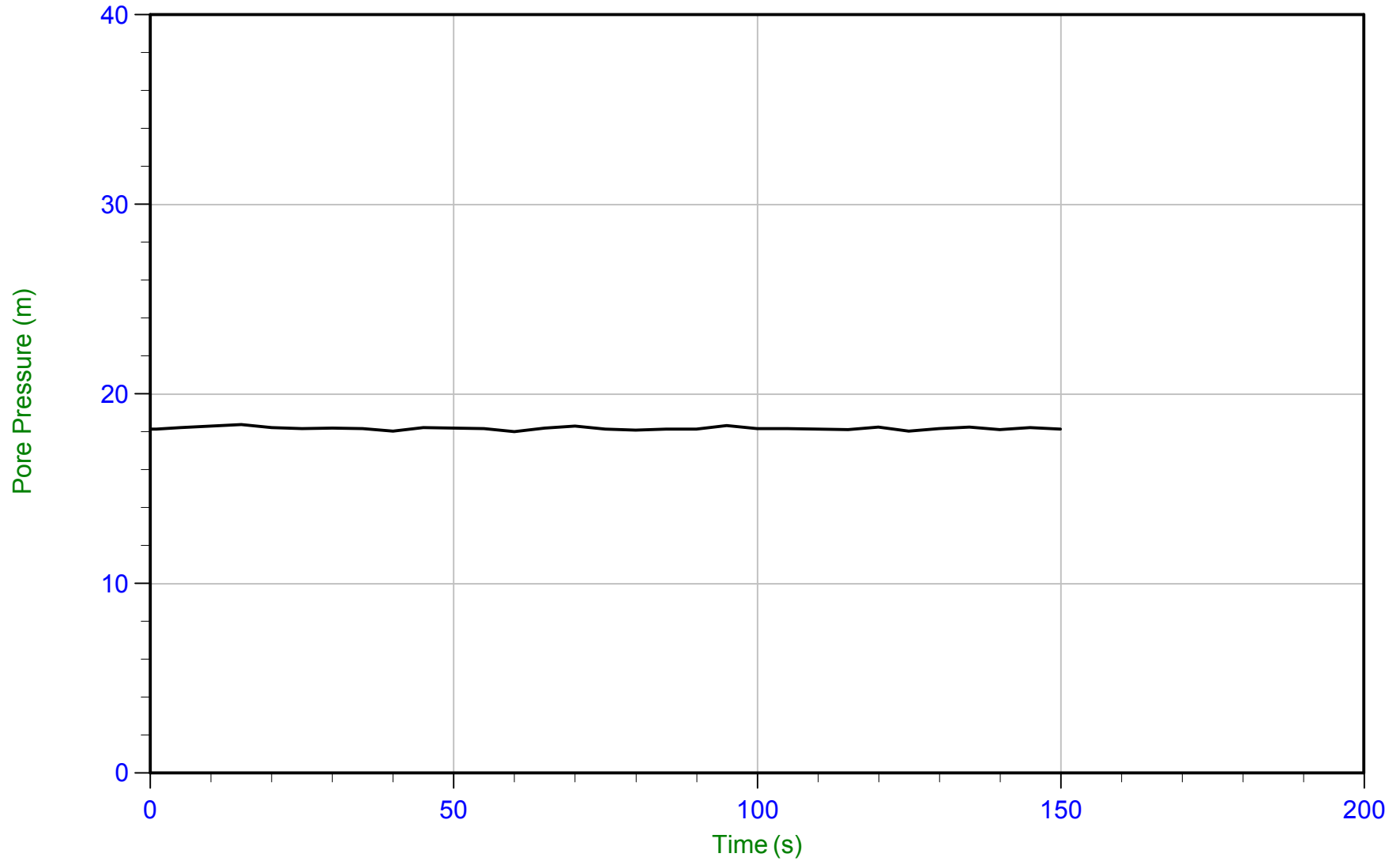
Job No: 16-02063

Date: 12/15/2016 16:15

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 4.700 m / 15.420 ft
Duration: 150.0 s

U Min: 18.0 m
U Max: 18.4 m

WT: -13.401 m / -43.966 ft
Ueq: 18.1 m



Golder

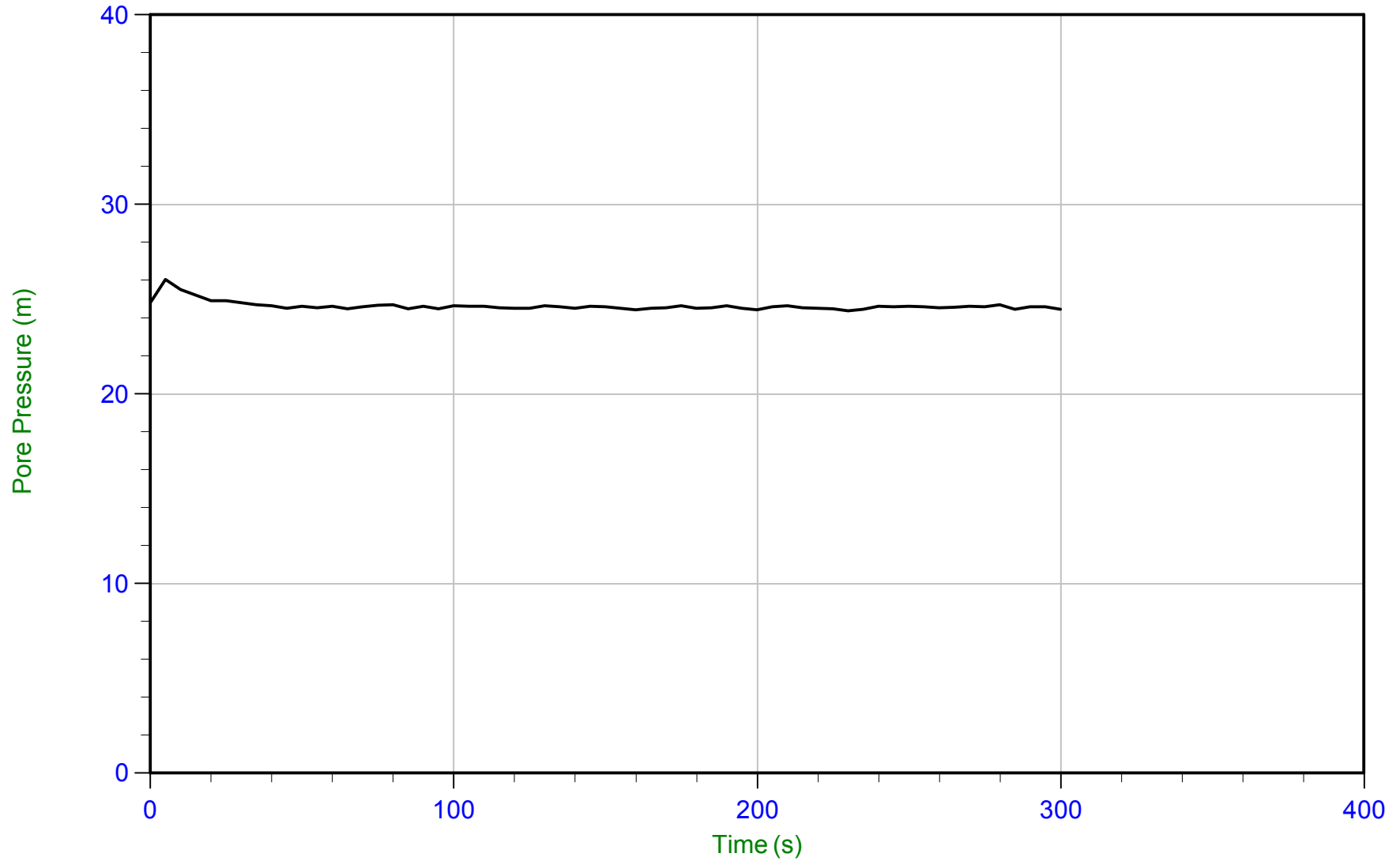
Job No: 16-02063

Date: 12/15/2016 16:15

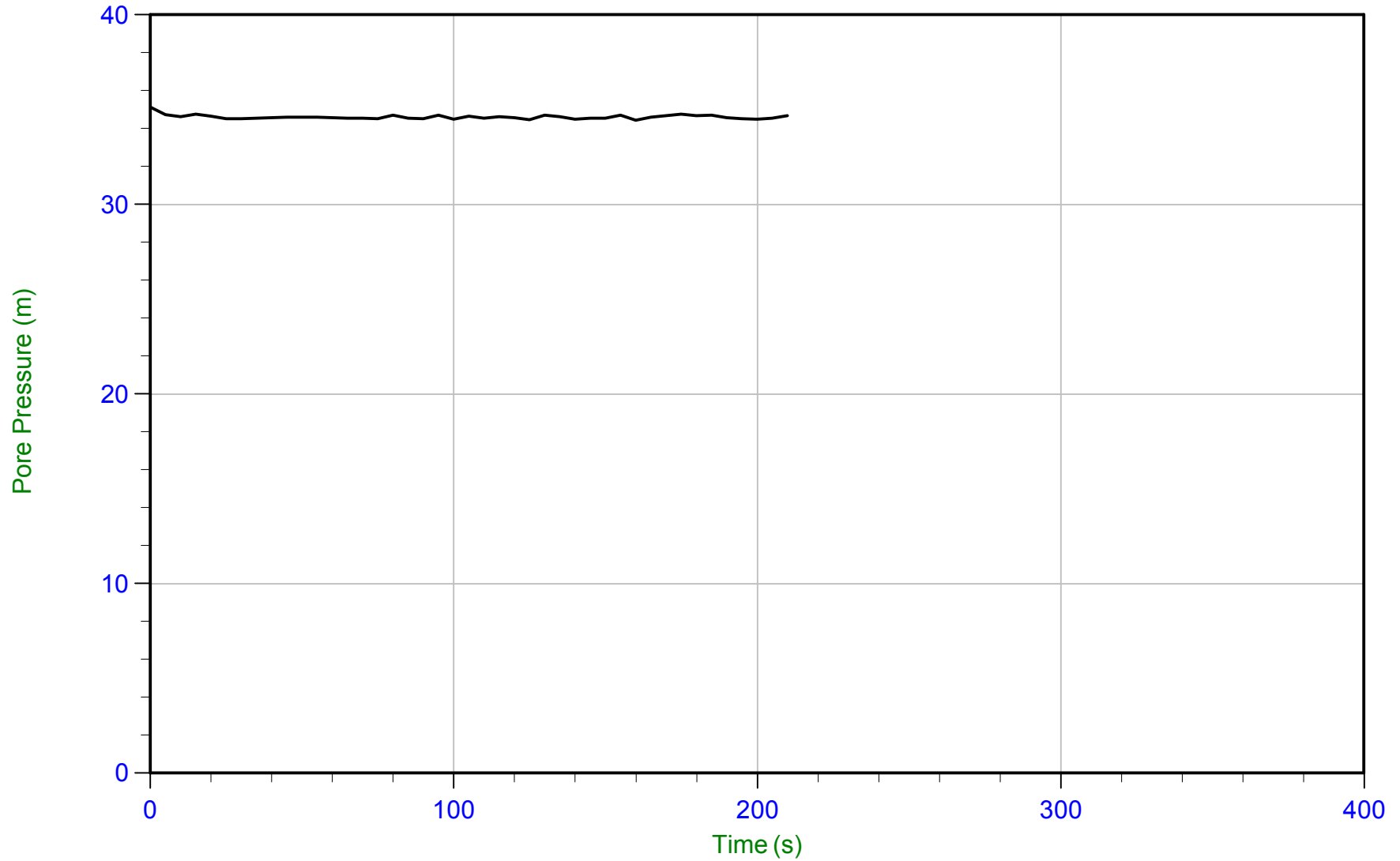
Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



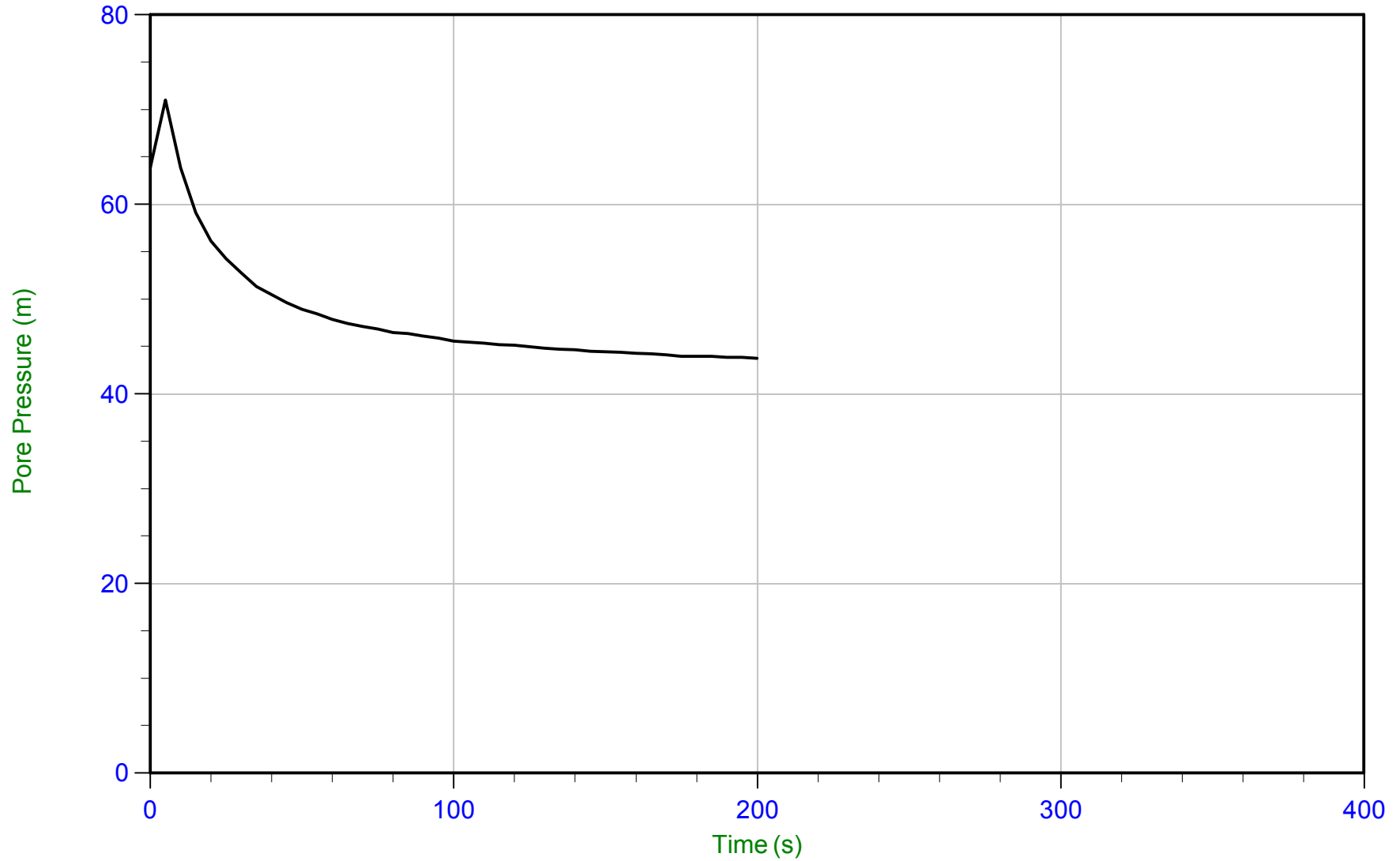
Trace Summary: Filename: 16-02063_SP10.PPF U Min: 24.4 m WT: -14.341 m / -47.050 ft
Depth: 10.225 m / 33.546 ft U Max: 26.0 m Ueq: 24.6 m
Duration: 300.0 s



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 20.150 m / 66.108 ft
Duration: 210.0 s

U Min: 34.4 m
U Max: 35.1 m

WT: -14.355 m / -47.096 ft
Ueq: 34.5 m



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 26.225 m / 86.039 ft
Duration: 200.0 s

U Min: 43.8 m
U Max: 71.0 m

WT: -14.355 m / -47.096 ft
Ueq: 40.6 m
U(50): 55.81 m

T(50): 15.9 s
Ir: 100
Ch: 44.2 sq cm/min



Golder

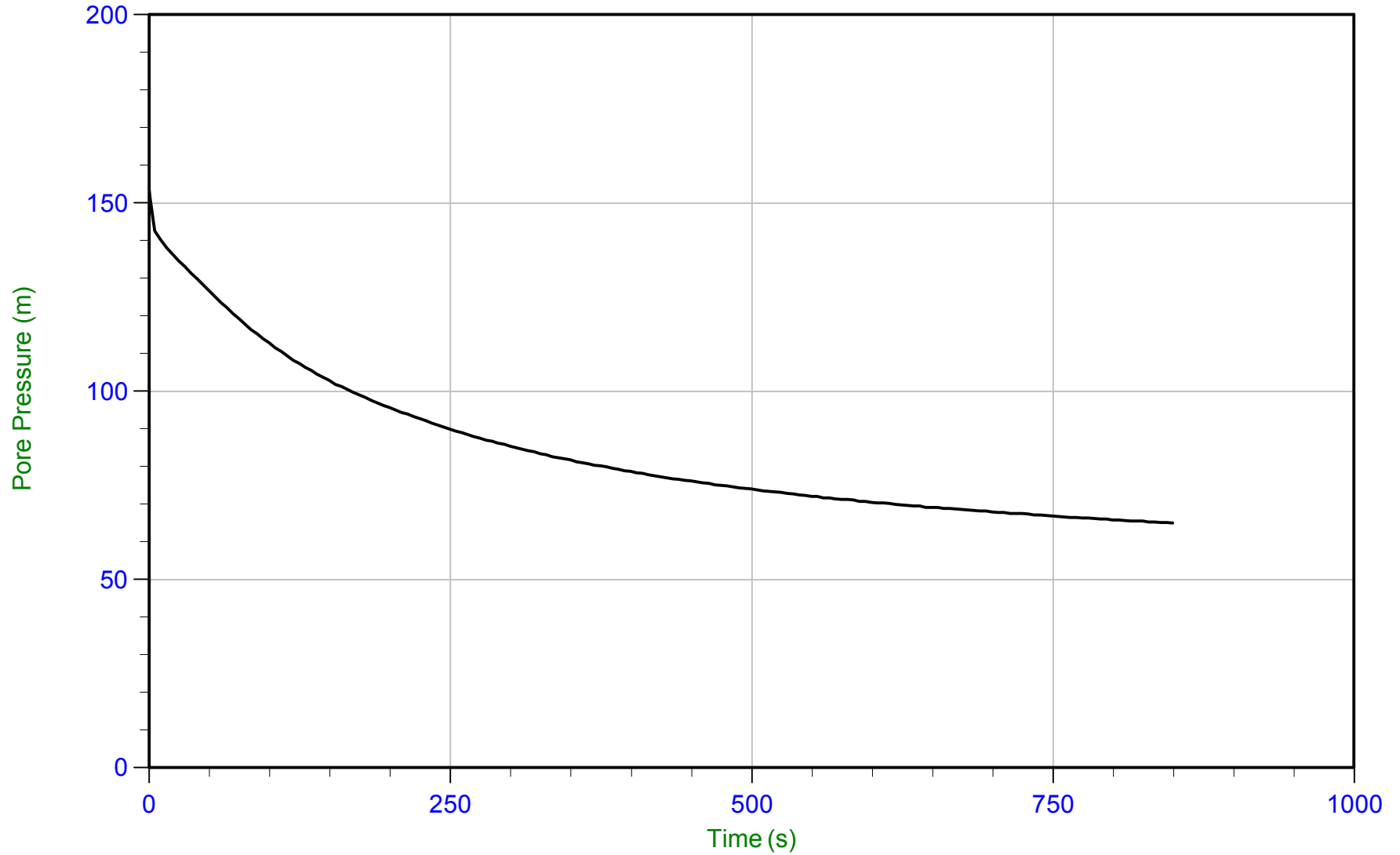
Job No: 16-02063

Date: 12/15/2016 16:15

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 34.200 m / 112.203 ft
Duration: 850.0 s

U Min: 65.0 m
U Max: 153.3 m

WT: -14.355 m / -47.096 ft
Ueq: 48.6 m
U(50): 100.95 m

T(50): 161.8 s
I_r: 100
Ch: 4.3 sq cm/min



Golder

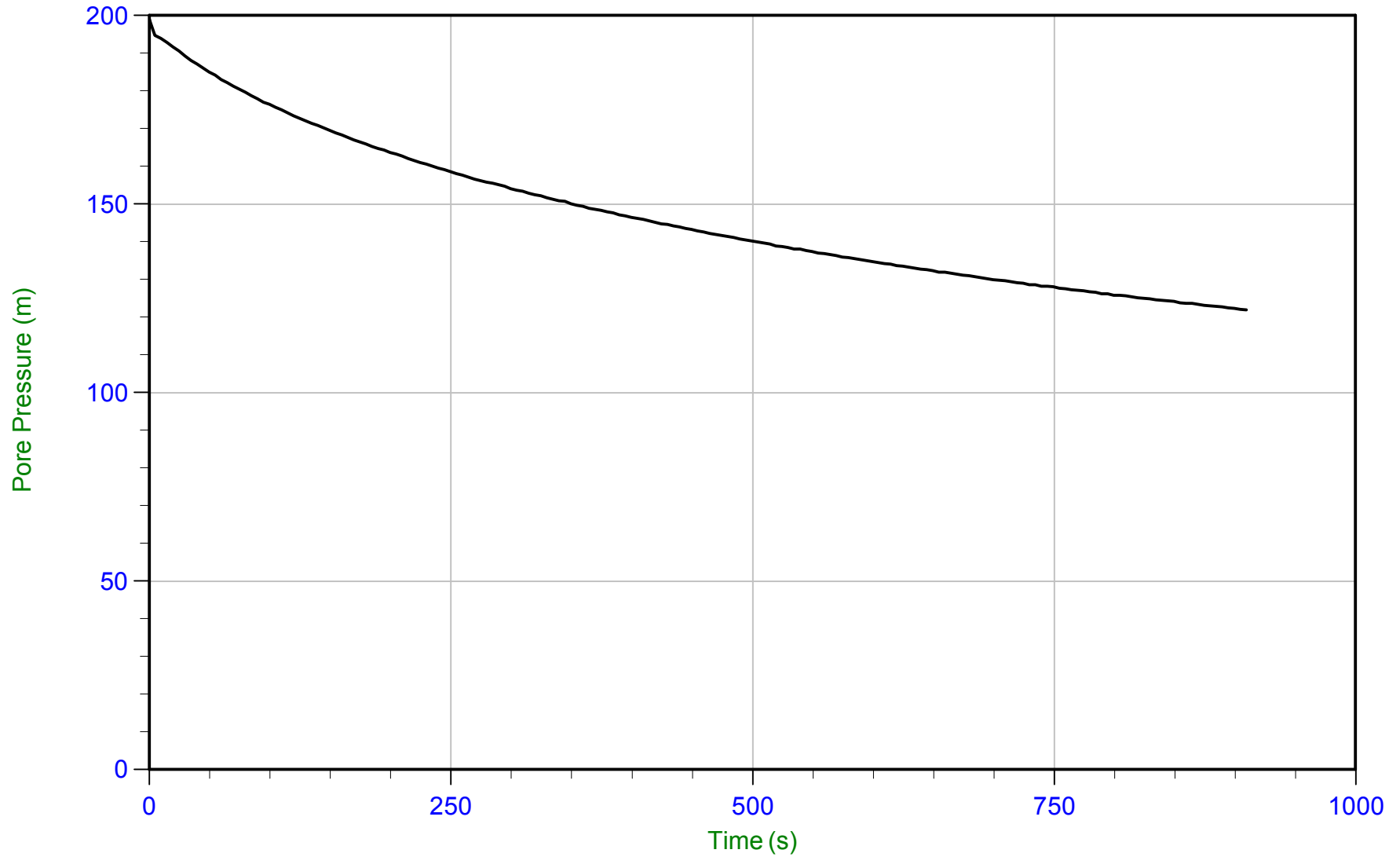
Job No: 16-02063

Date: 12/15/2016 16:15

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 43.400 m / 142.387 ft
Duration: 910.0 s

U Min: 122.0 m
U Max: 199.1 m

WT: -14.355 m / -47.096 ft
Ueq: 57.8 m
U(50): 128.44 m

T(50): 736.7 s
Ir: 100
Ch: 1.0 sq cm/min



Golder

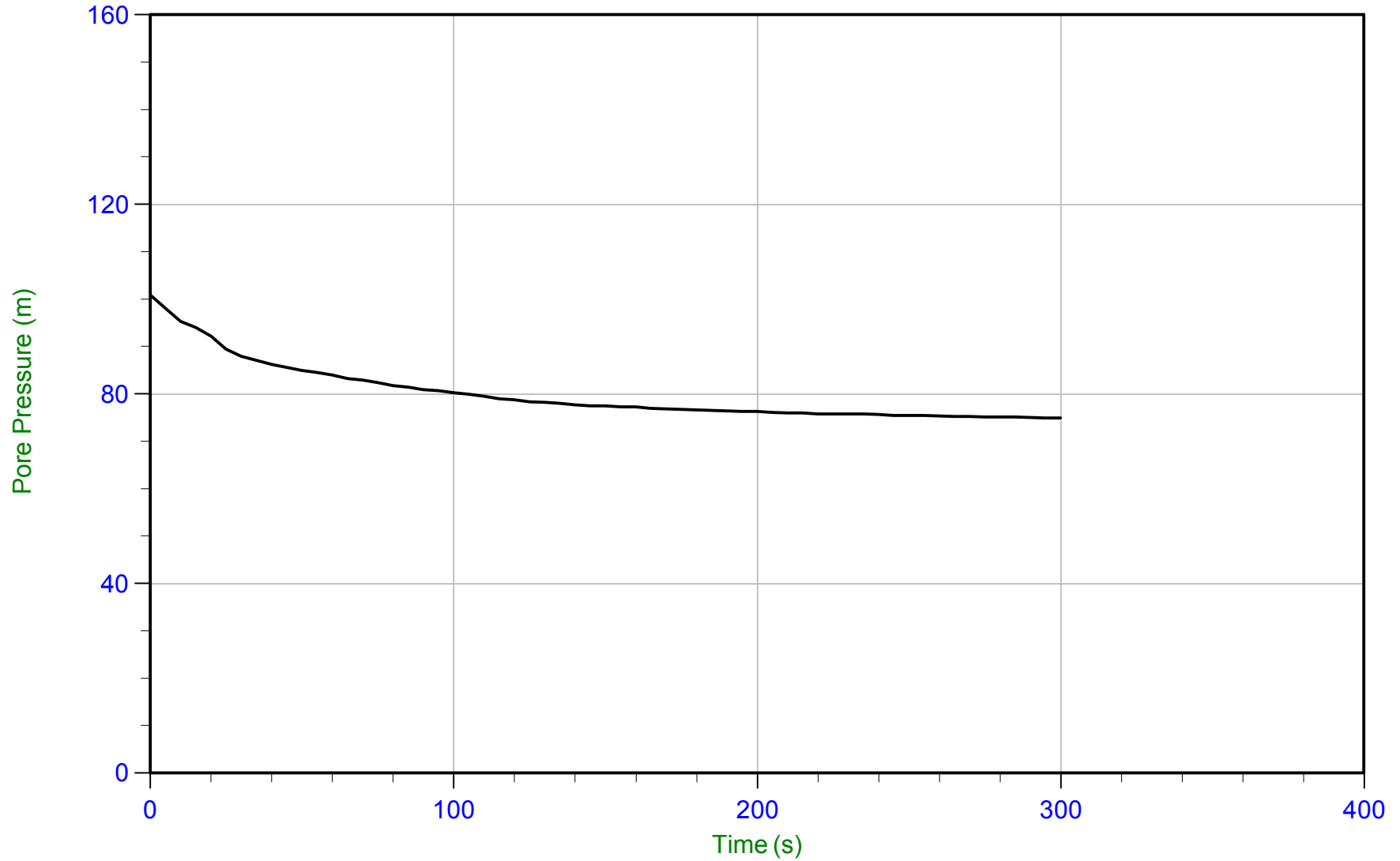
Job No: 16-02063

Date: 12/15/2016 16:15

Site: Annacis Island Wastewater Treatment Plant

Sounding: SCPT16-10

Cone: 477:T1500F15U1K Area=15 cm²



Trace Summary: Filename: 16-02063_SP10.PPF
Depth: 51.725 m / 169.699 ft
Duration: 300.0 s

U Min: 74.9 m
U Max: 100.9 m

WT: -14.355 m / -47.096 ft
Ueq: 66.1 m
U(50): 83.49 m

T(50): 63.6 s
Ir: 100
Ch: 11.0 sq cm/min

