



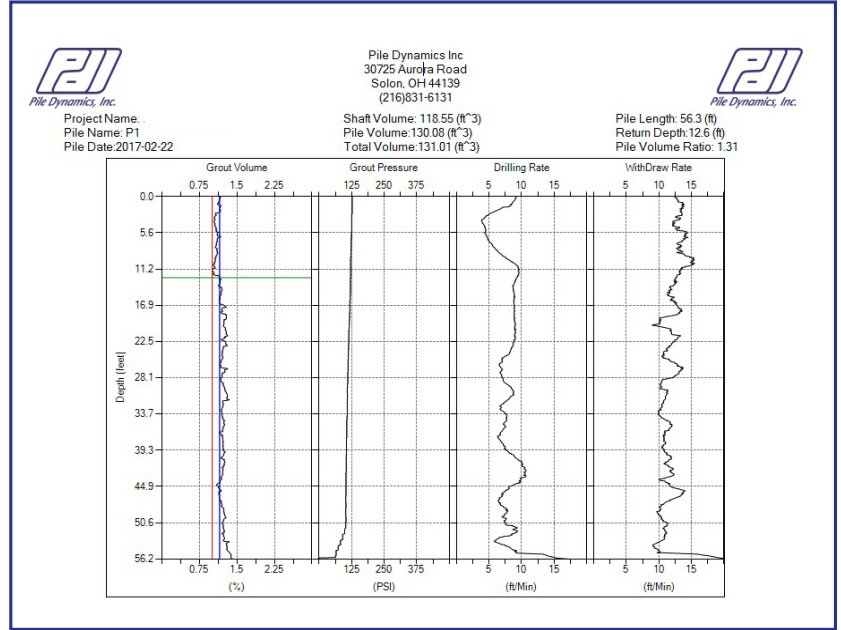
PIR-PLOT

Pile Installation Recorder (PIR-PLOT) Software

PIR-PLOT software allows you to summarize multiple piles on one chart, and to graph parameters of a specific pile

PIR-PLOT summary report:

- Actual and theoretical volumes
- Total length drilled
- Duration of drilling, grouting, and total installation
- Starting and return head
- Actual and requirement percent of neat line



PIR Plot

File Project Properties Tools Help Load Pile

Project Summary Report

Company: PDI
 Project Site: PDI Yard
 Number of Piles: 85
 Total Shaft Volume: 13292.69 (ft³)
 Total Pile Volume: 14313.86 (ft³)
 Total Volume: 14684.3 (ft³)

Pile Profile

Pile Name: 0026.28
 Max Depth: 75.1 (ft)
 Volume Ratio: 1.39
 Shaft Volume: 171.2 (ft³)
 Pile Volume: 184.21 (ft³)
 Total Volume: 184.88 (ft³)

Pile	Pile Length (ft)	Grout Ratio	Shaft Volume (ft ³)	Pile Volume (ft ³)	Total Volume (ft ³)	Target Volume (ft ³)	Nominal Volume (ft ³)	Drilling Time (min)	Grouting Time (min)	Return Depth (ft)	Date
0026.102	75.2	1.5	186.29	199.3	200.23	162.05	132.83	7	11	13.3	2014-05-22
0026.103	75.0	1.43	176.09	189.1	189.96	161.69	132.54	11	9	9.7	2014-05-28
0026.105	75.1	0.94	112.21	125.29	128.18	152.59	132.68	9	6	17.0	2014-05-30
0026.106	75.0	1.24	151.88	164.96	167.71	159.04	132.54	7	7	35.3	2014-05-30
0026.108	75.0	1.37	168.68	181.69	182.39	161.69	132.54	8	11	8.2	2014-05-29
0026.109	75.1	1.39	170.87	183.87	185.28	161.87	132.68	10	9	18.0	2014-05-23
0026.14	75.1	1.33	163.64	176.64	189.62	161.87	132.68	23	13	15.3	2014-05-22
0026.15	75.0	1.4	172.72	185.73	185.91	161.69	132.54	7	10	15.7	2014-05-21
0026.16	75.1	1.38	170.05	183.06	183.06	161.87	132.68	8	10	12.0	2014-05-22
0026.17	75.1	1.37	169.12	182.13	182.28	161.87	132.68	7	9	13.4	2014-05-21
0026.18	75.0	1.31	160.45	173.46	182.17	161.69	132.54	9	9	16.0	2014-05-22
0026.24	75.2	1.4	172.35	185.36	185.8	162.05	132.83	7	10	12.7	2014-05-21
0026.25	75.1	1.37	168.31	181.32	192.48	161.87	132.68	7	11	13.9	2014-05-22
0026.26	75.2	1.36	167.53	180.54	180.72	162.05	132.83	7	11	13.3	2014-05-21
0026.27	75.0	1.33	162.93	175.94	184.02	161.69	132.54	8	13	9.4	2014-05-22
0026.28	75.1	1.39	171.2	184.21	184.88	161.87	132.68	7	10	13.8	2014-05-21
0026.34	75.1	1.37	168.23	181.24	188.03	161.87	132.68	12	9	9.0	2014-05-22
0026.35	75.1	1.4	172.31	185.32	197.78	161.87	132.68	6	12	15.9	2014-05-21
0026.36	75.0	1.39	170.68	183.69	192.33	161.69	132.54	10	10	12.0	2014-05-22
0026.37	75.1	1.38	169.57	182.58	182.65	161.87	132.68	7	11	12.5	2014-05-21
0026.38	75.1	1.34	165.3	178.31	184.39	161.87	132.68	9	9	9.6	2014-05-22
0026.39	75.2	1.28	156.89	169.9	179.2	162.05	132.83	6	11	11.4	2014-05-21
0026.43	75.1	1.47	182.4	195.41	196.04	161.87	132.68	8	11	8.0	2014-05-21
0026.44	75.2	1.5	185.7	198.71	199.93	162.05	132.83	8	10	10.2	2014-05-23

PIR-PLOT graphs the following quality control variables versus depth:

- Grout pressure
- Grout volume
- Drilling rate
- Withdraw rate
- Torque pressure
- Percent of neat line
- Drilling resistance



The key parameters for a precise installation are pumped grout volume and auger depth. The PIR accurately records and displays both in real time. The equipment consists of a main unit installed in the crane cabin, a depth measurement device, a magnetic flow meter, a pressure sensor to measure grout line pressure, and optional devices including a pressure sensor for determining auger torque and a proximity sensor for measuring auger rotation.

Project: Aurora.P01

Company: PDI Project Site: Pile Yard Volume Profile Slider Increment (ft): 5

Summary Report Options

<input type="checkbox"/> Operator	<input checked="" type="checkbox"/> Nominal Volume	<input type="checkbox"/> Stem Volume
<input type="checkbox"/> Rig	<input checked="" type="checkbox"/> Target Volume	<input type="checkbox"/> Head Volume
<input checked="" type="checkbox"/> Date	<input checked="" type="checkbox"/> Pile Grout Ratio	<input type="checkbox"/> Spill Volume
<input type="checkbox"/> Auger Diameter	<input checked="" type="checkbox"/> Shaft Volume	
<input type="checkbox"/> Stem Diameter	<input checked="" type="checkbox"/> Pile Volume	
<input checked="" type="checkbox"/> Pile Length	<input checked="" type="checkbox"/> Total Volume	

Units
 English Metric

Project: Aurora.P01

<p>Volume</p> <p>Slider Inc (ft): 5</p> <p>Title: Grout Volume</p> <p>Scale: min 0 max 3</p>	<p>Drilling Rate</p> <p><input checked="" type="checkbox"/> Enable Points To Avg: 20</p> <p>Title: Drilling Rate</p> <p>Scale: min 0 max 20</p>	<p>Drilling Resistance</p> <p><input type="checkbox"/> Enable</p> <p>Title: Drilling Resistance</p> <p>Scale: min 0 max 100</p>
<p>Line Pressure</p> <p><input checked="" type="checkbox"/> Enable</p> <p>Title: Grout Pressure</p> <p>Scale: min 0 max 500</p>	<p>Withdraw Rate</p> <p><input checked="" type="checkbox"/> Enable Points To Avg: 20</p> <p>Title: Withdraw Rate</p> <p>Scale: min 0 max 20</p>	<p>Crowd Pressure</p> <p><input type="checkbox"/> Enable 1</p> <p>Title: Crowd Pressure</p> <p>Scale: min 0 max 1000</p>
<p>Torque Pressure</p> <p><input checked="" type="checkbox"/> Enable</p> <p>Title: Torque Pressure</p> <p>Scale: min 0 max 5000</p>	<p>Header Information</p> <p>Line 1: Pile Dynamics Inc</p> <p>Line 2: 30725 Aurora Road</p> <p>Line 3: Solon, OH 44139</p> <p>Line 4: (216)831-6131</p>	
<p>Auger RPM</p> <p><input checked="" type="checkbox"/> Enable</p> <p>Title: RPM</p> <p>Scale: min 0 max 100</p>	<p>Units</p> <p><input checked="" type="radio"/> English <input type="radio"/> Metric</p> <p>Apply Exit</p>	

Pile Dynamics, Inc. (PDI) is the world leader in developing, manufacturing and supplying state of the art QA/QC products and systems for the deep foundations industry. The company is headquartered in Cleveland, Ohio, USA, with offices and representatives worldwide. For additional information visit us at www.pile.com or contact info@pile.com.