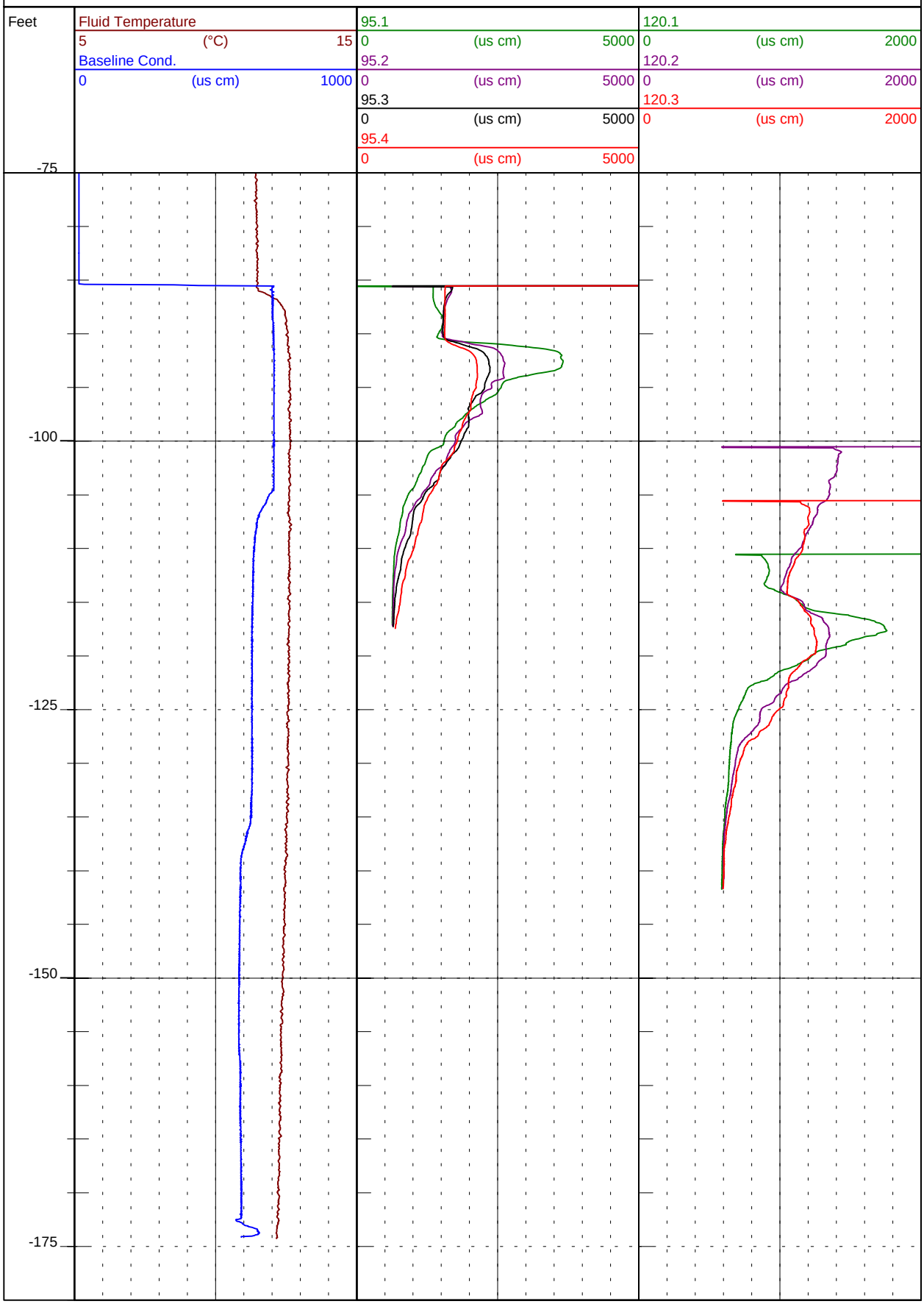
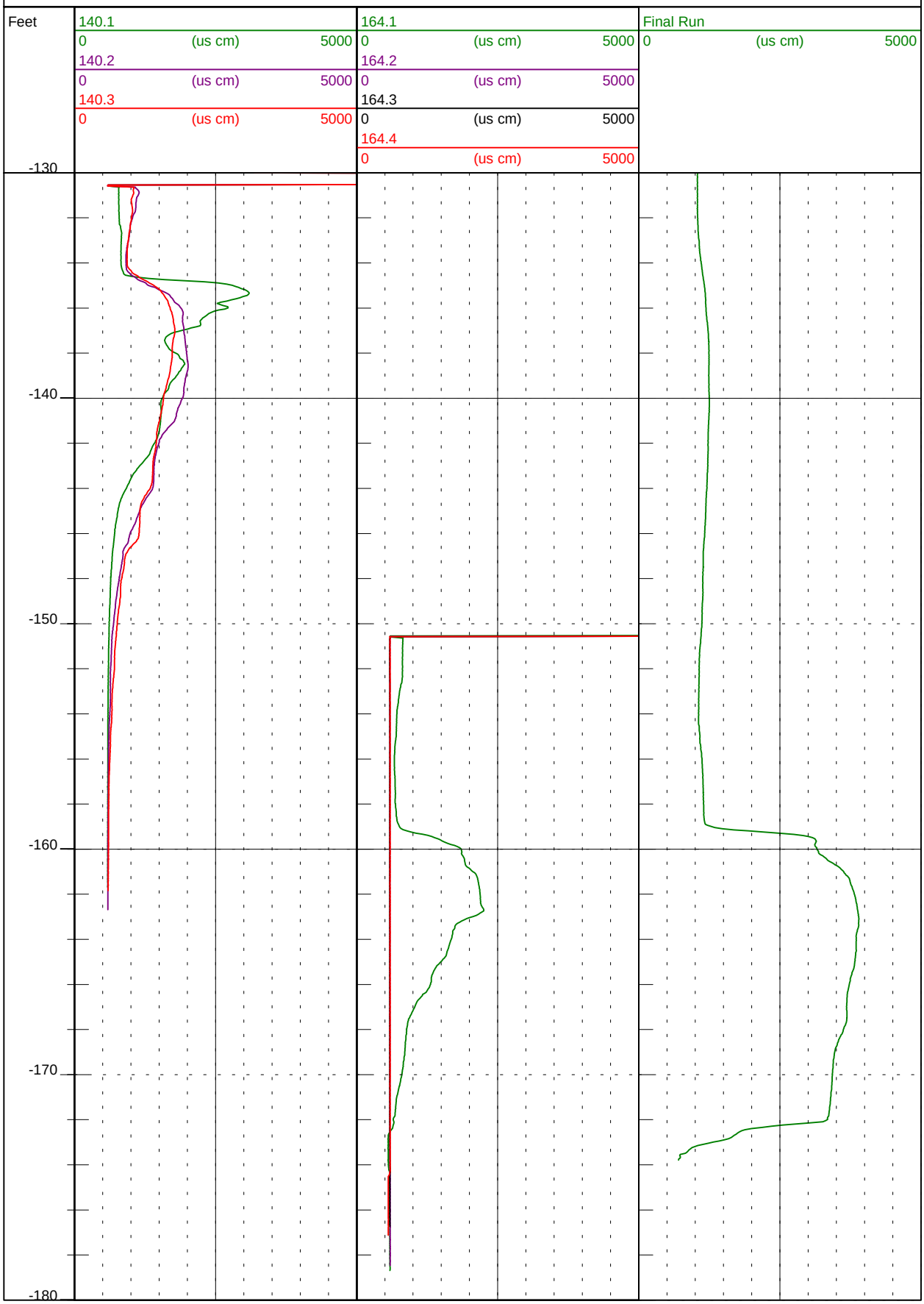
Appendix D

Salt Slug Test Results

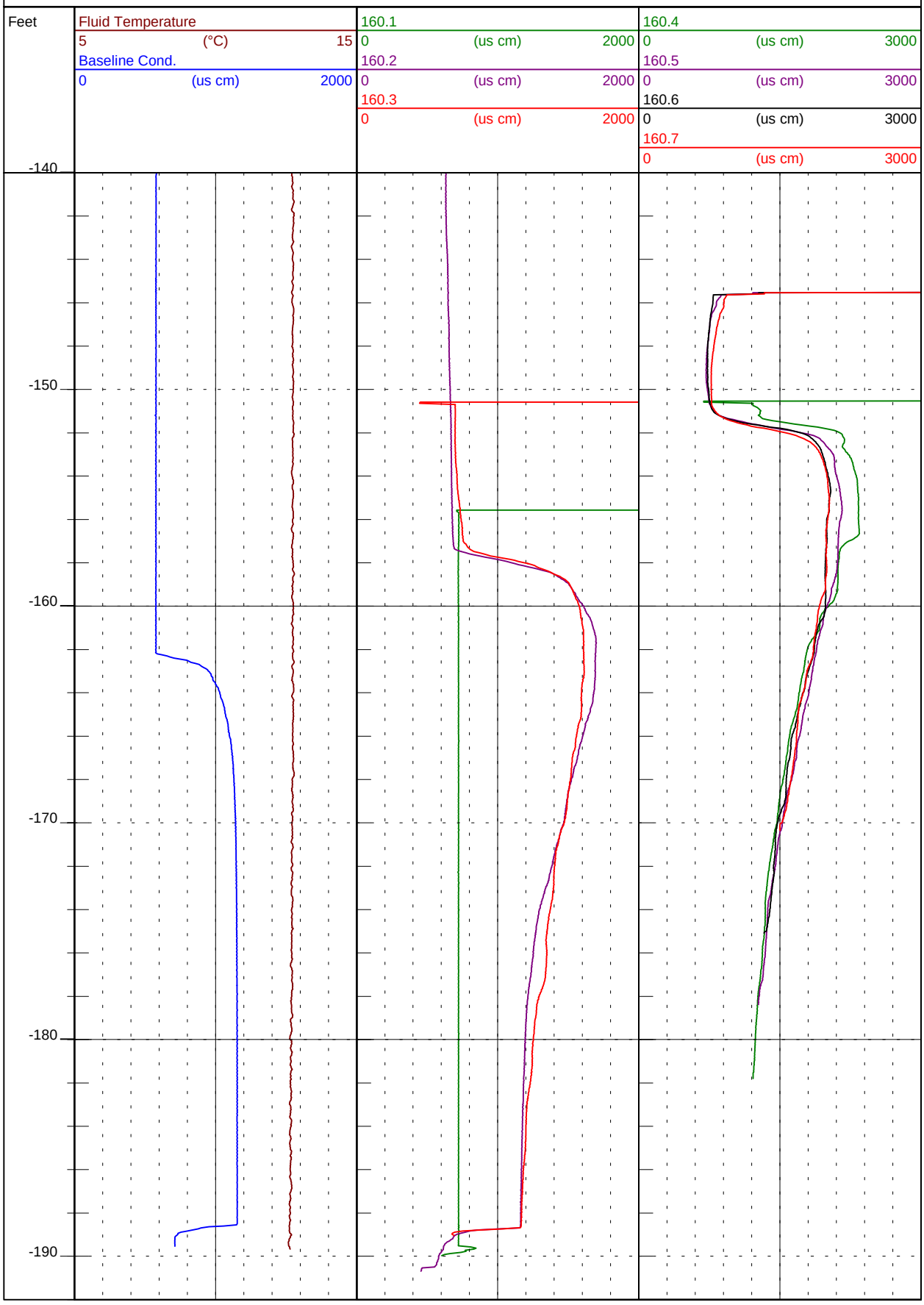
Well Name: ENSR: MW-8, page 1
Location: Phillipsburg, NJ
Reference: Top of Casing



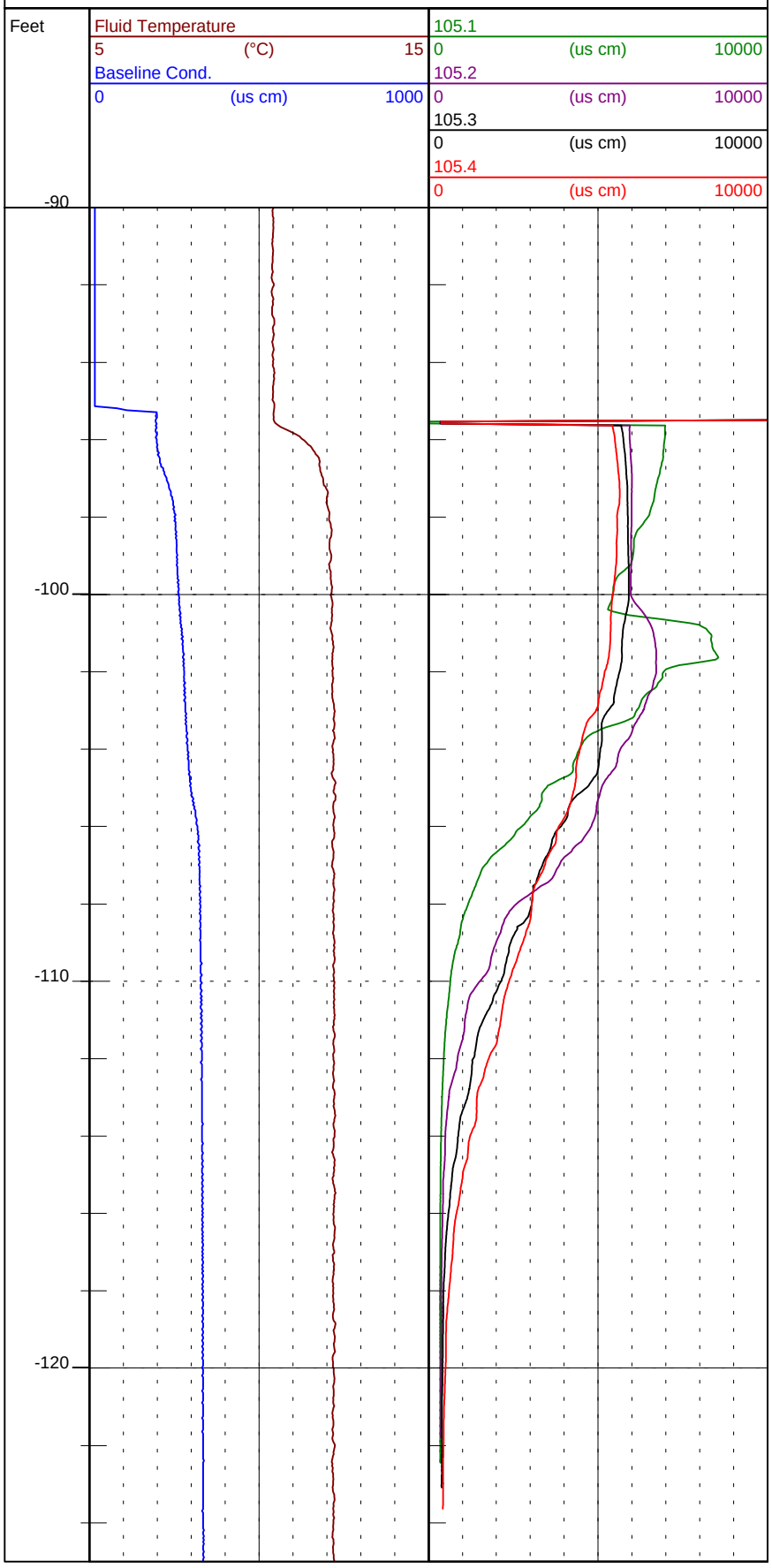
Well Name: ENSR: MW-8, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing



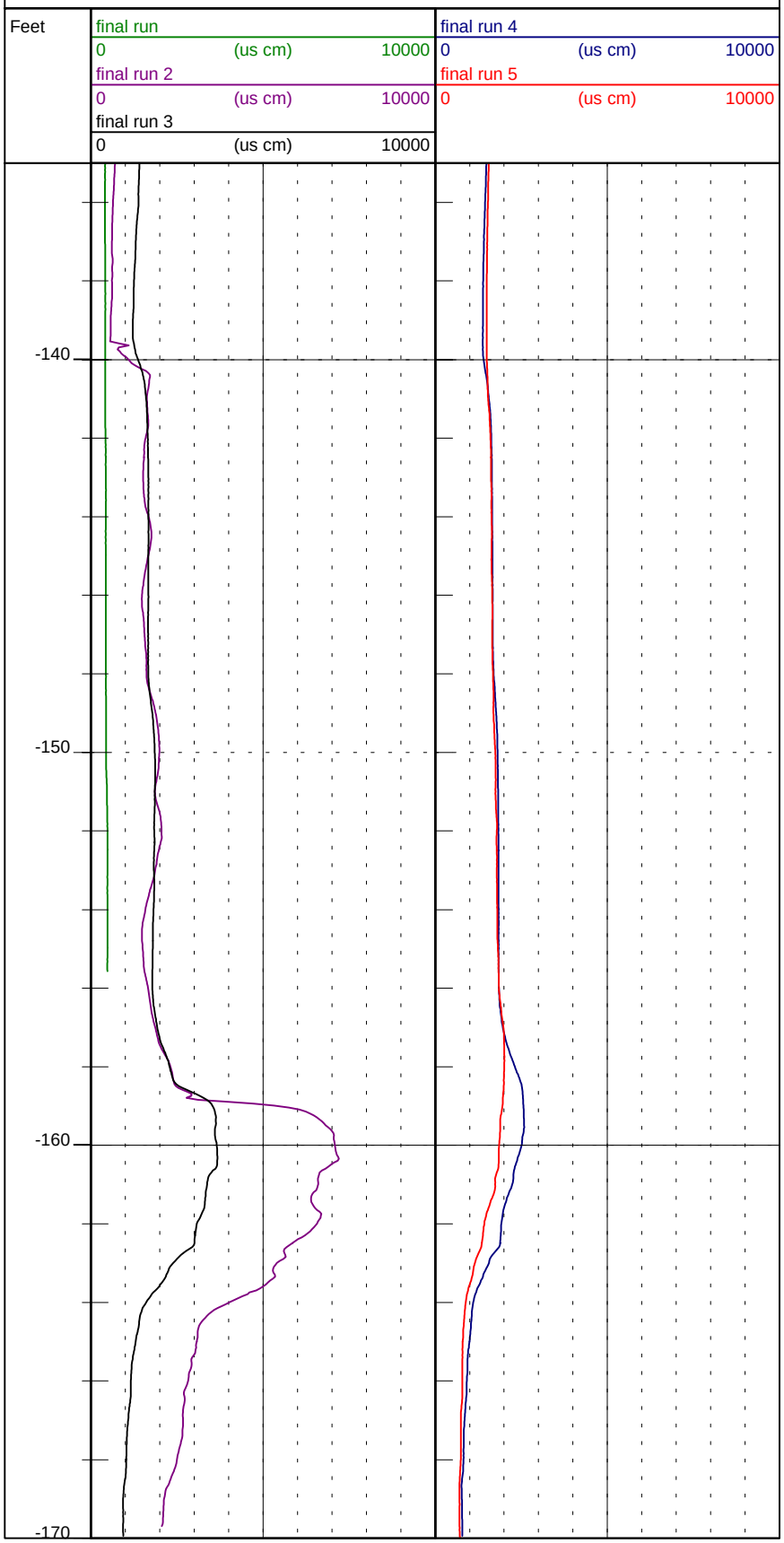
Well Name: ENSR: MW-9 (*re-inject at 155', far right column)
Location: Phillipsburg, NJ
Reference: Top of Casing



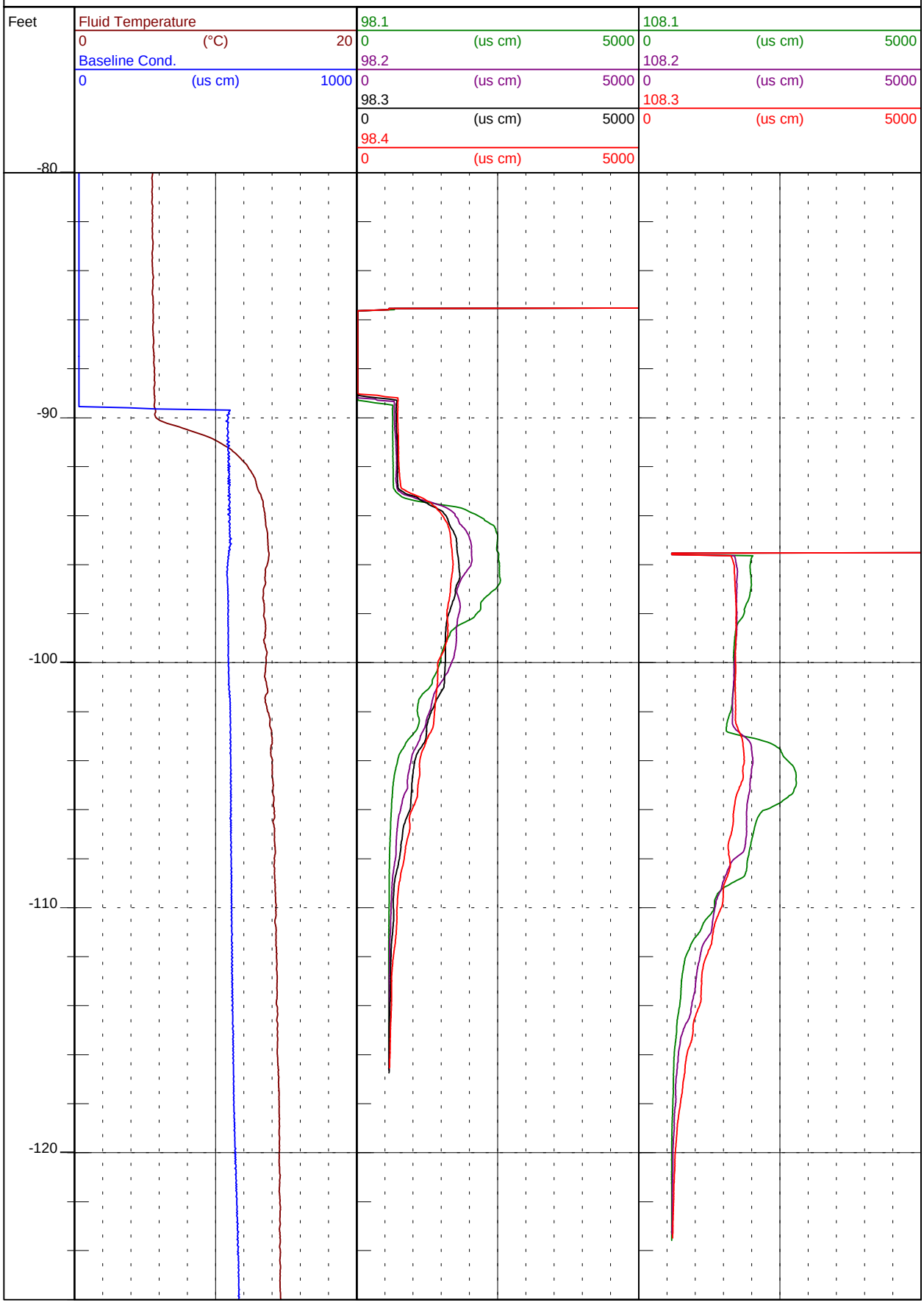
Well Name: ENSR: MW-12, page 1
Location: Phillipsburg, NJ
Reference: Top of Casing



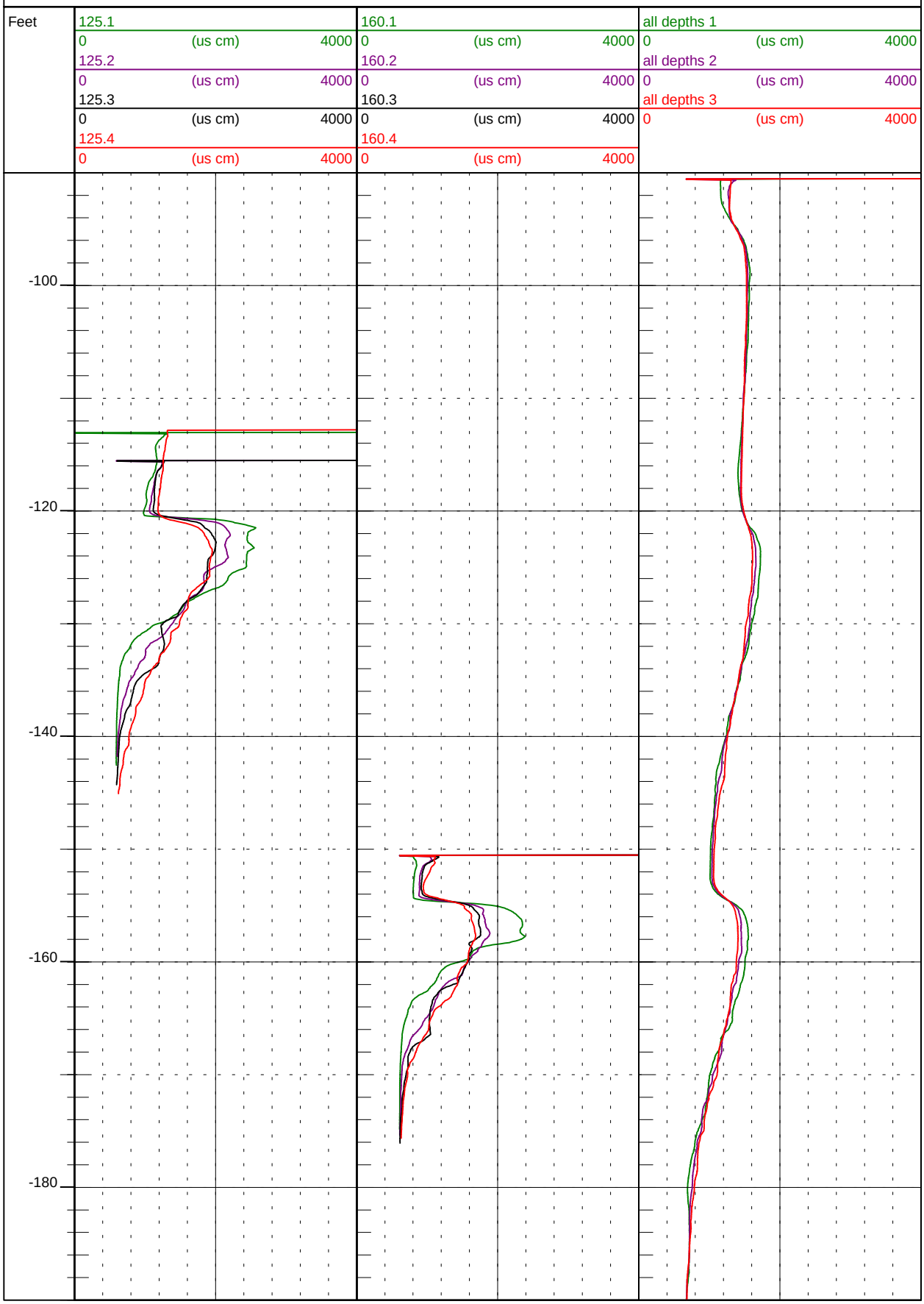
Well Name: ENSR: MW-12, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing



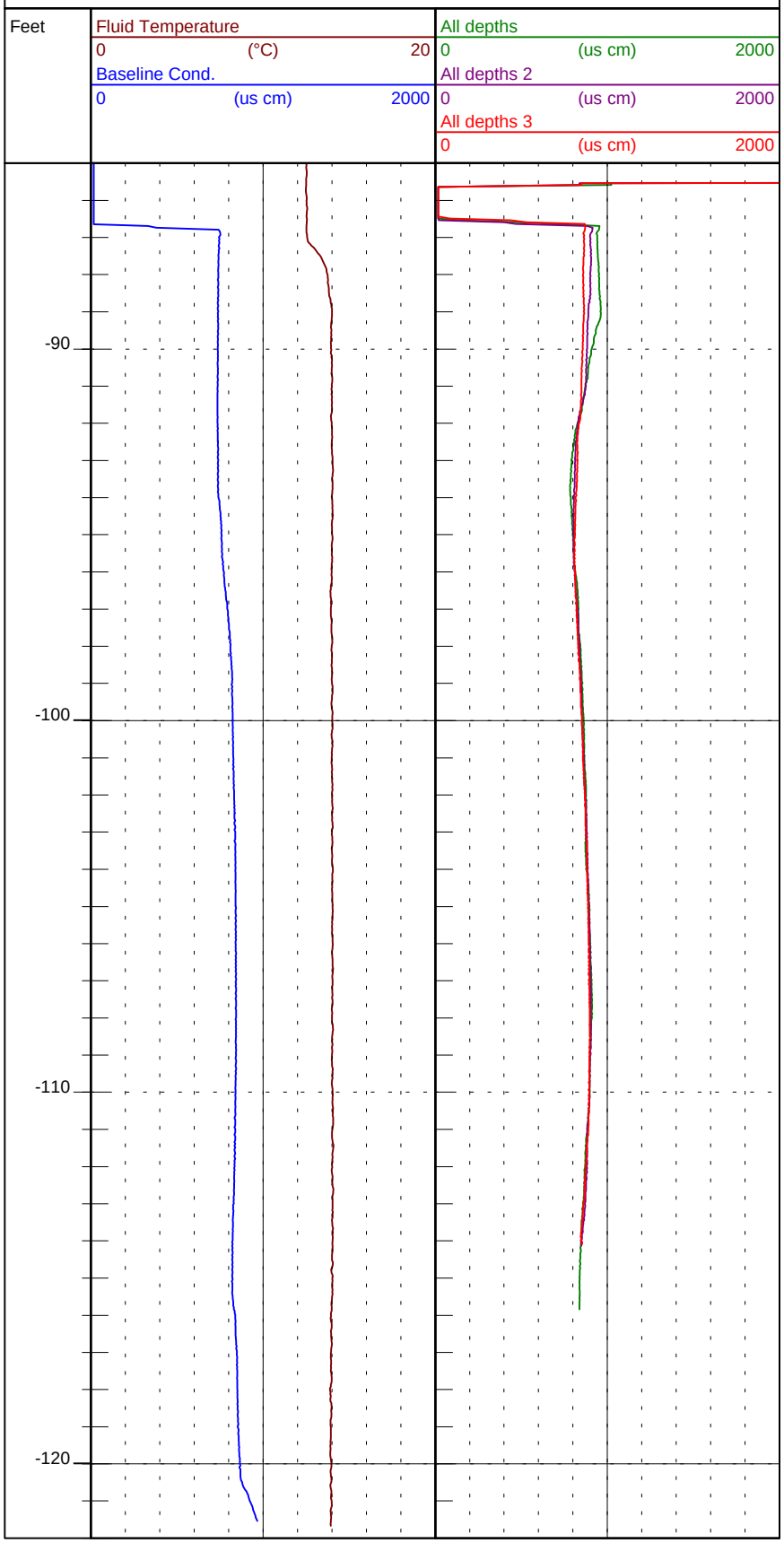
Well Name: ENSR: MW-16, page 1
Location: Phillipsburg, NJ
Reference: Top of Casing



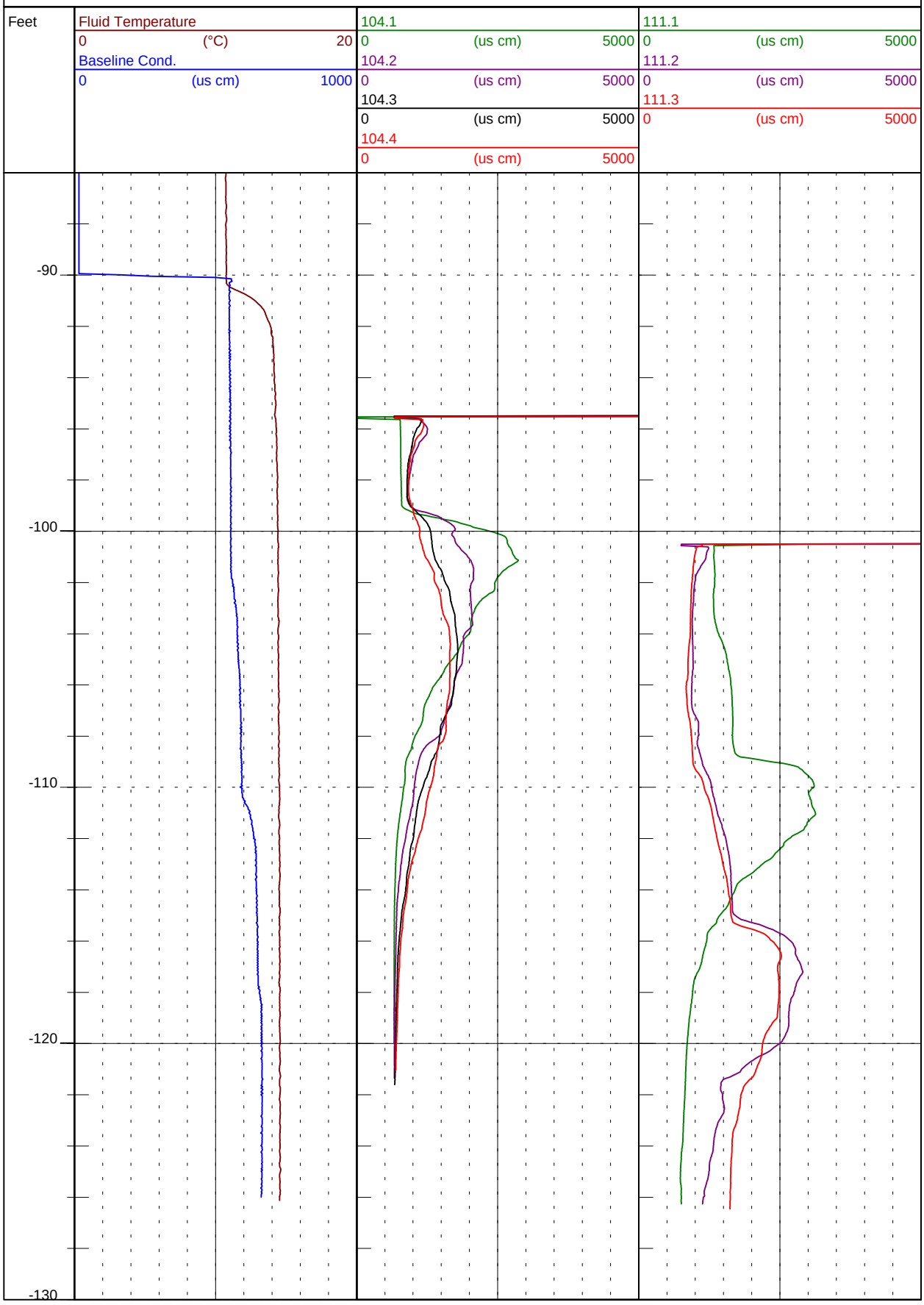
Well Name: ENSR: MW-16, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing



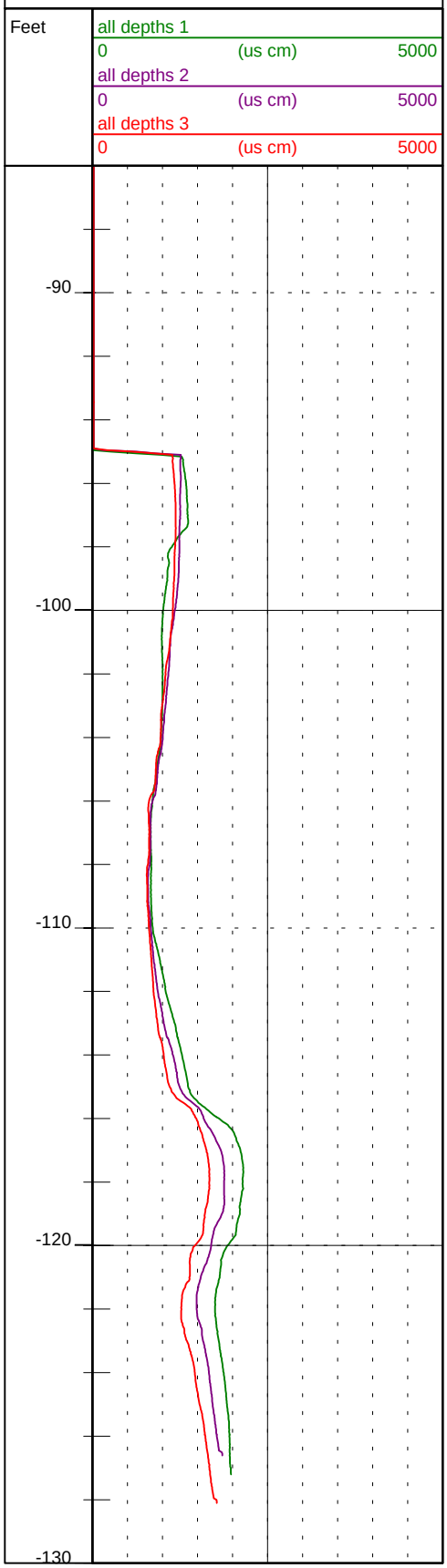
Well Name: ENSR: MW-33A
Location: Phillipsburg, NJ
Reference: Top of Casing



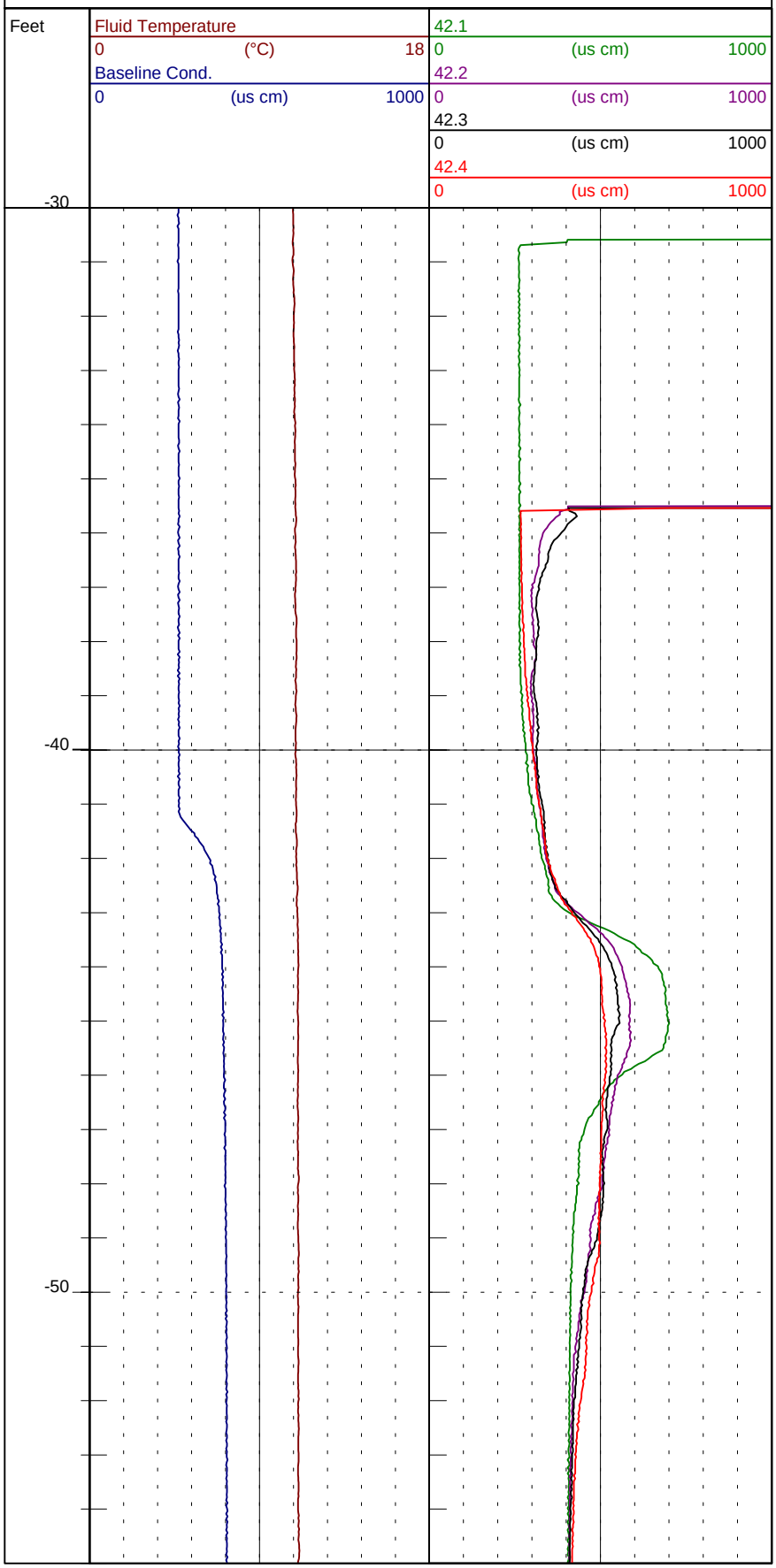
Well Name: ENSR: MW-34, page 1
Location: Philllipsburg, NJ
Reference: Top of Casing



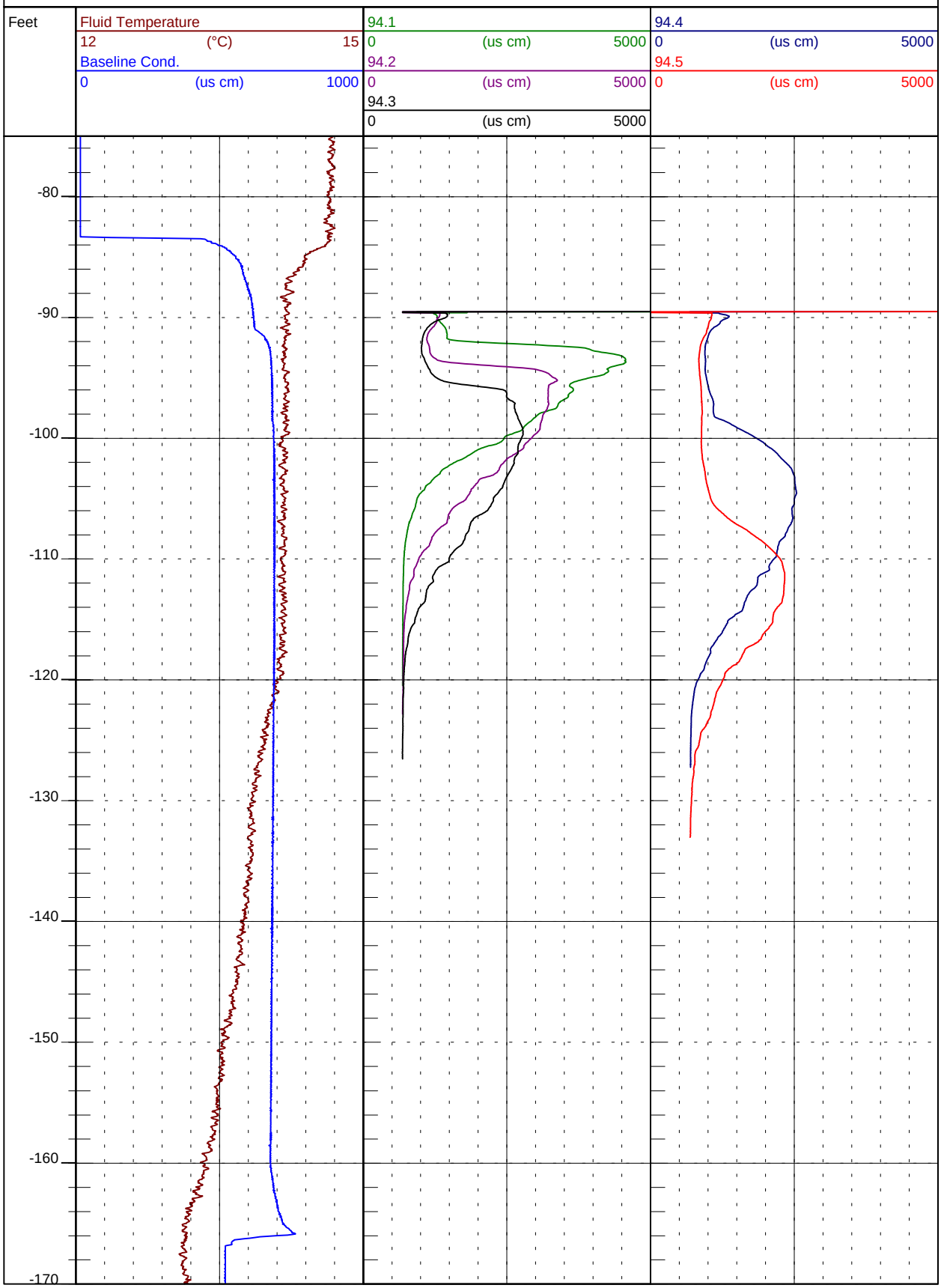
Well Name: ENSR: MW-34, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing



Well Name: ENSR: MW-49
Location: Phillipsburg, NJ
Reference: Top of Casing

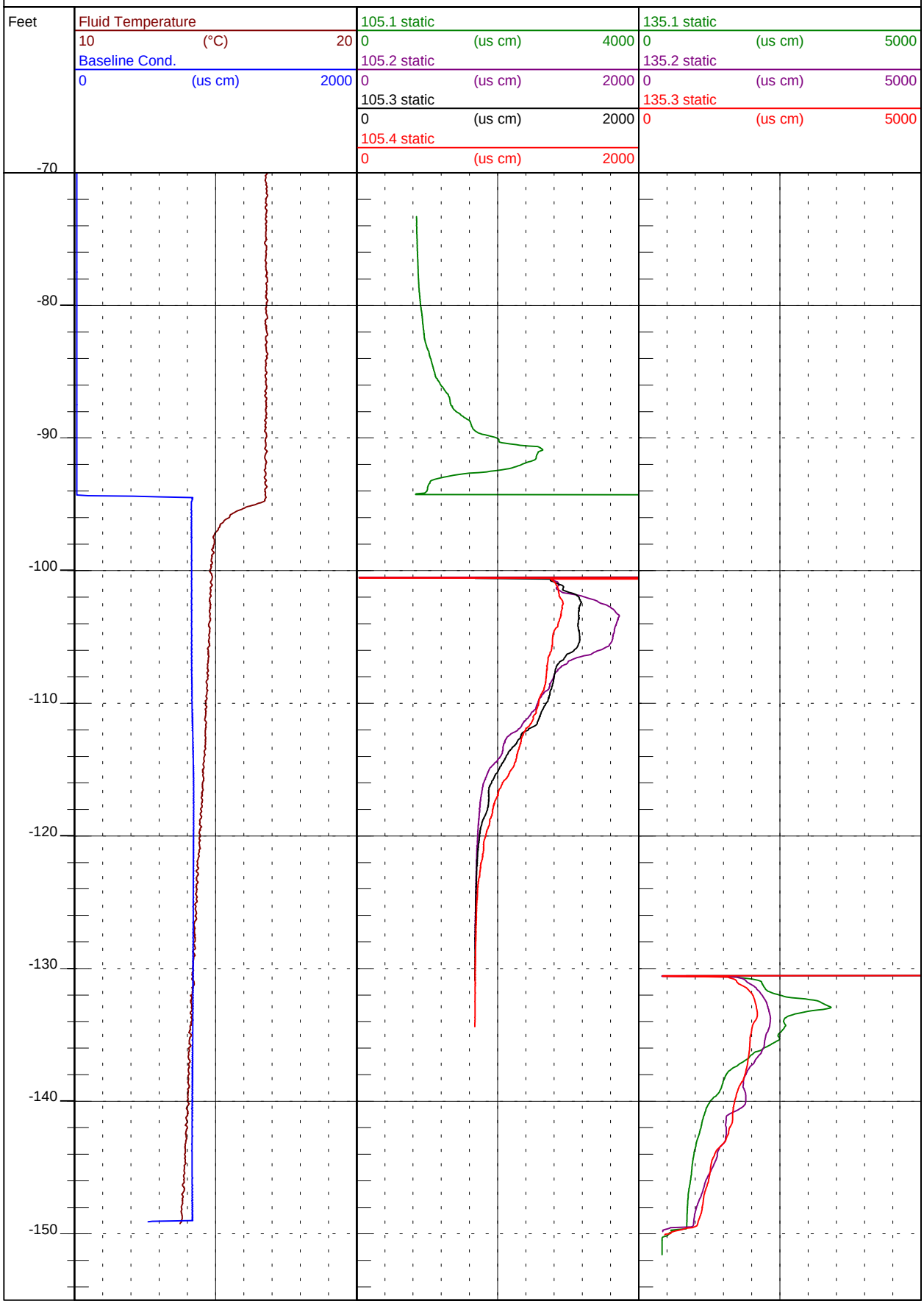


Well Name: ENSR: RW-15, page 1
Location: Phillipsburg, NJ
Reference: Top of Casing

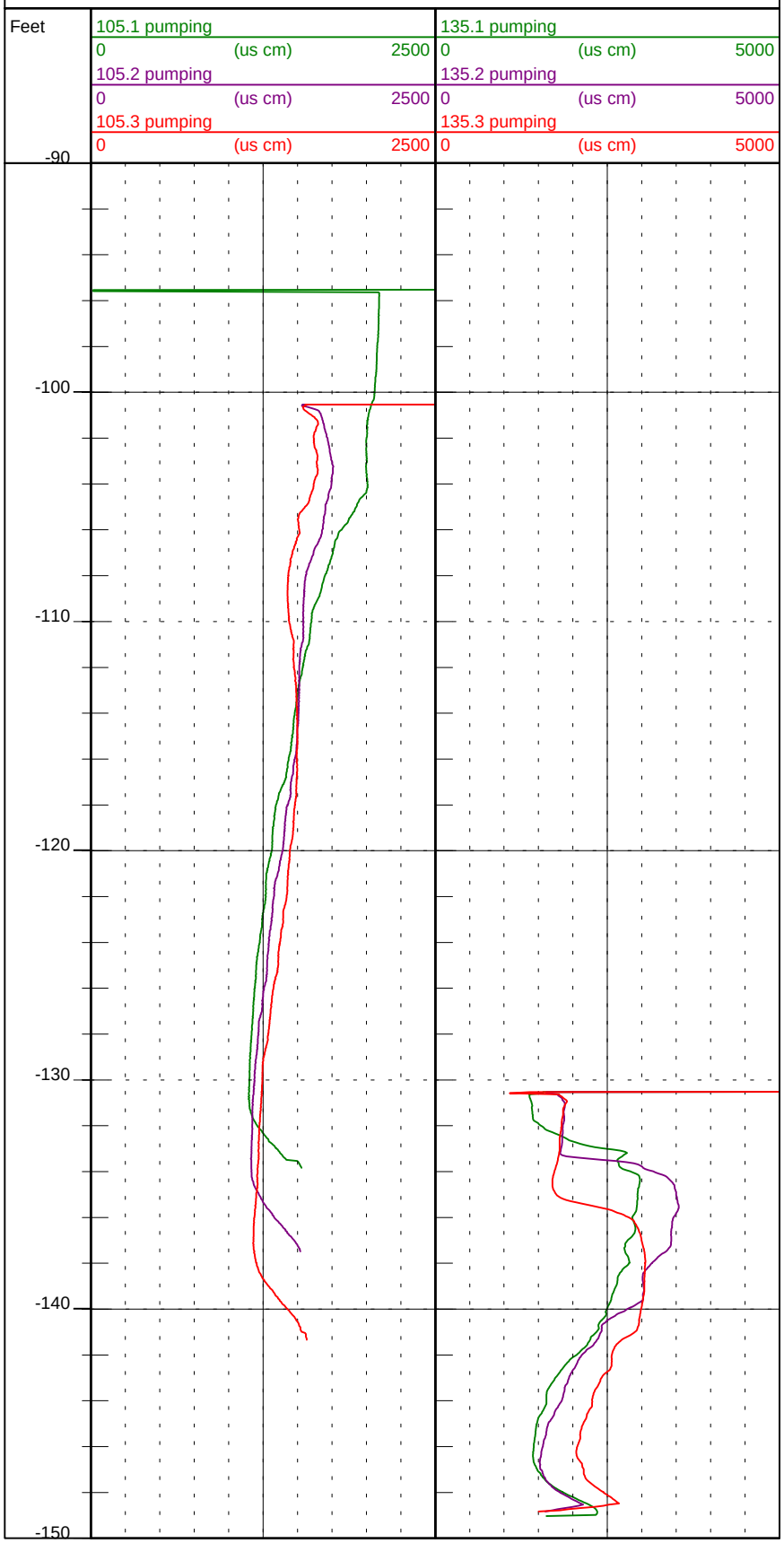


Well Name: ENSR: RW-15, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing

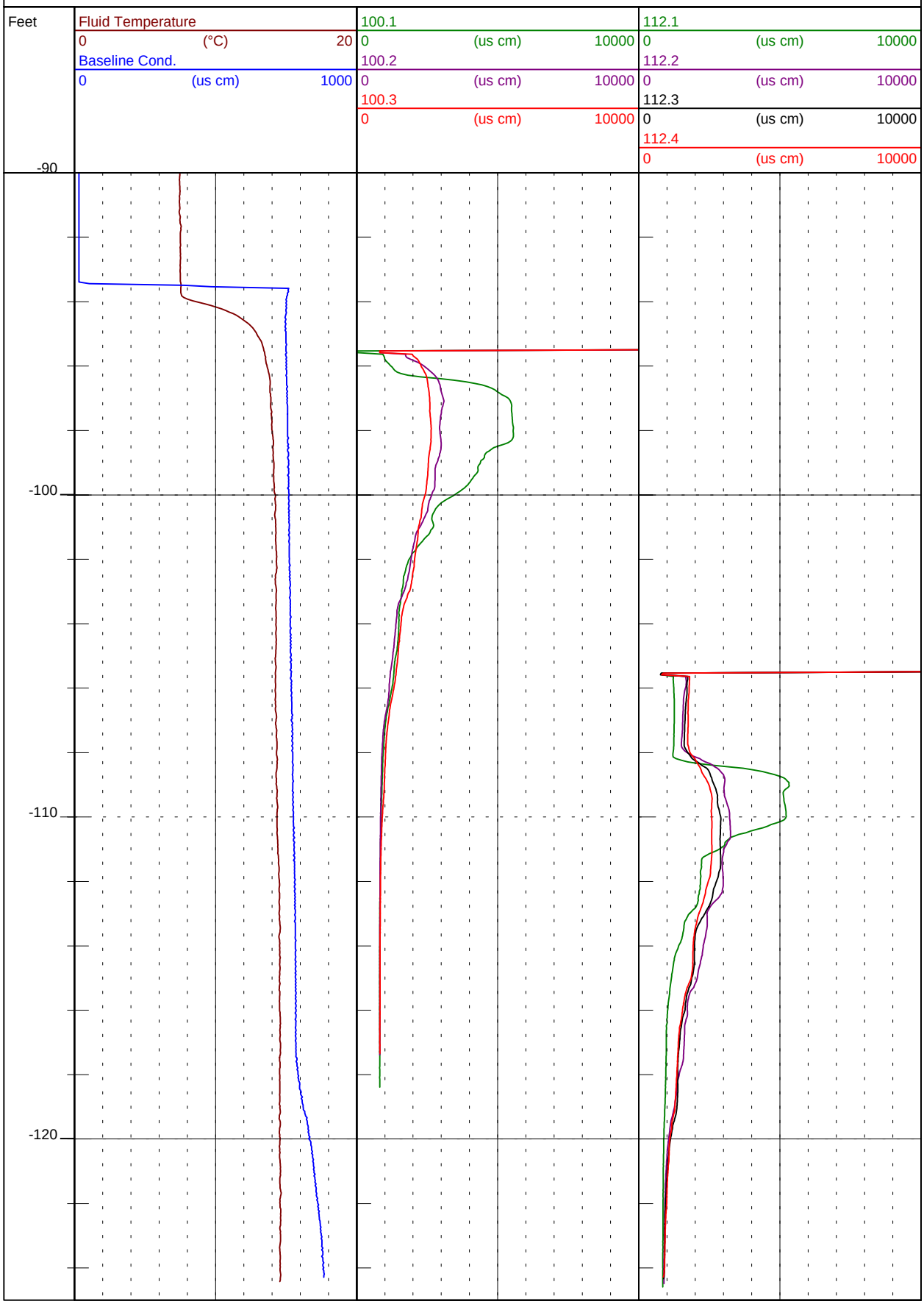
Well Name: ENSR: RW-16, page 1
Location: Phillipsburg, NJ
Reference: Top of Casing



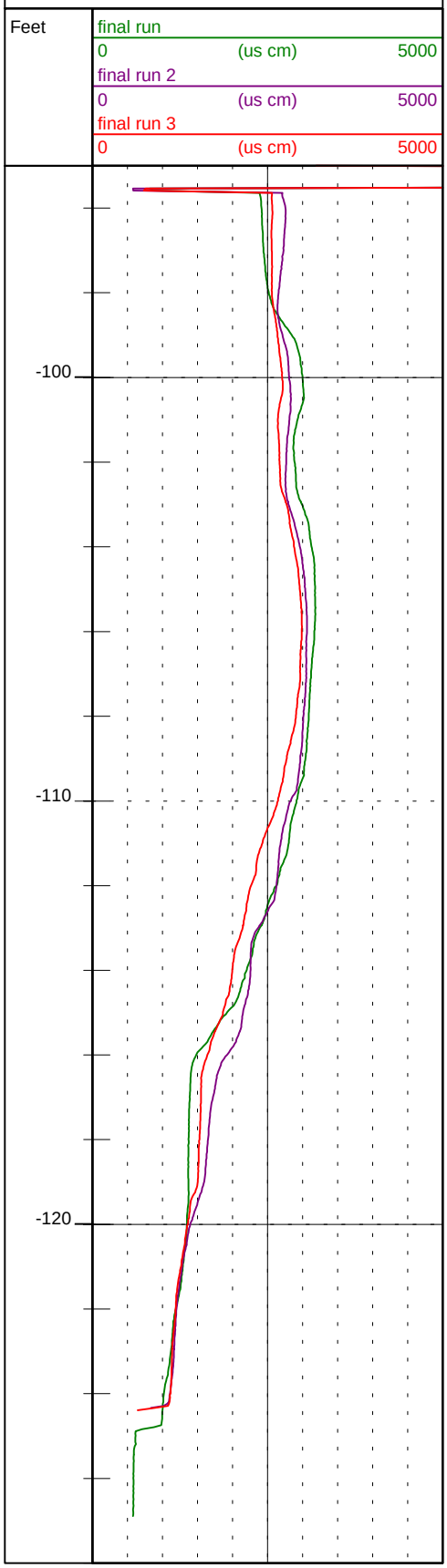
Well Name: ENSR: RW-16, page 2
Location: Phillipsburg, NJ
Reference: Top of Casing

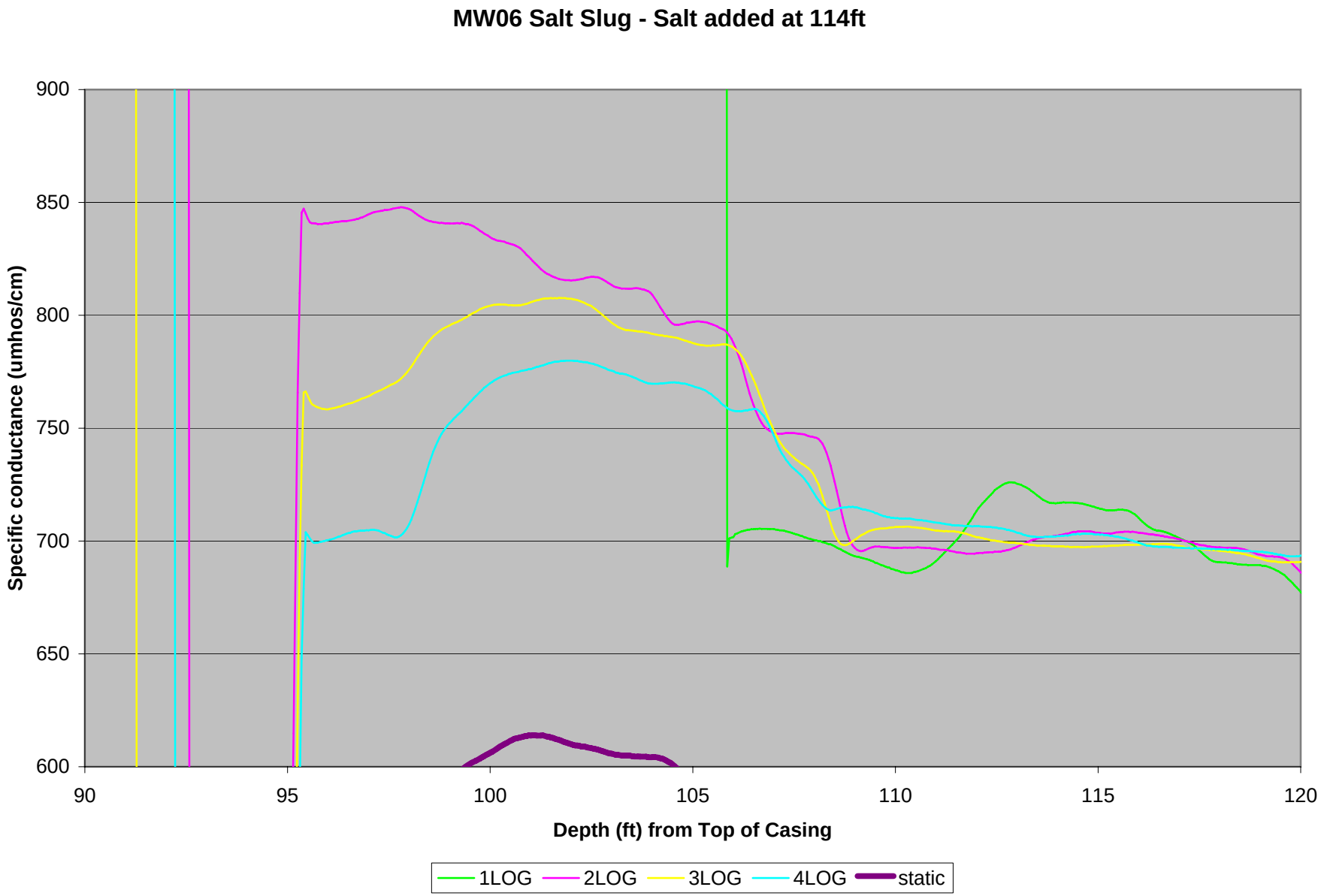


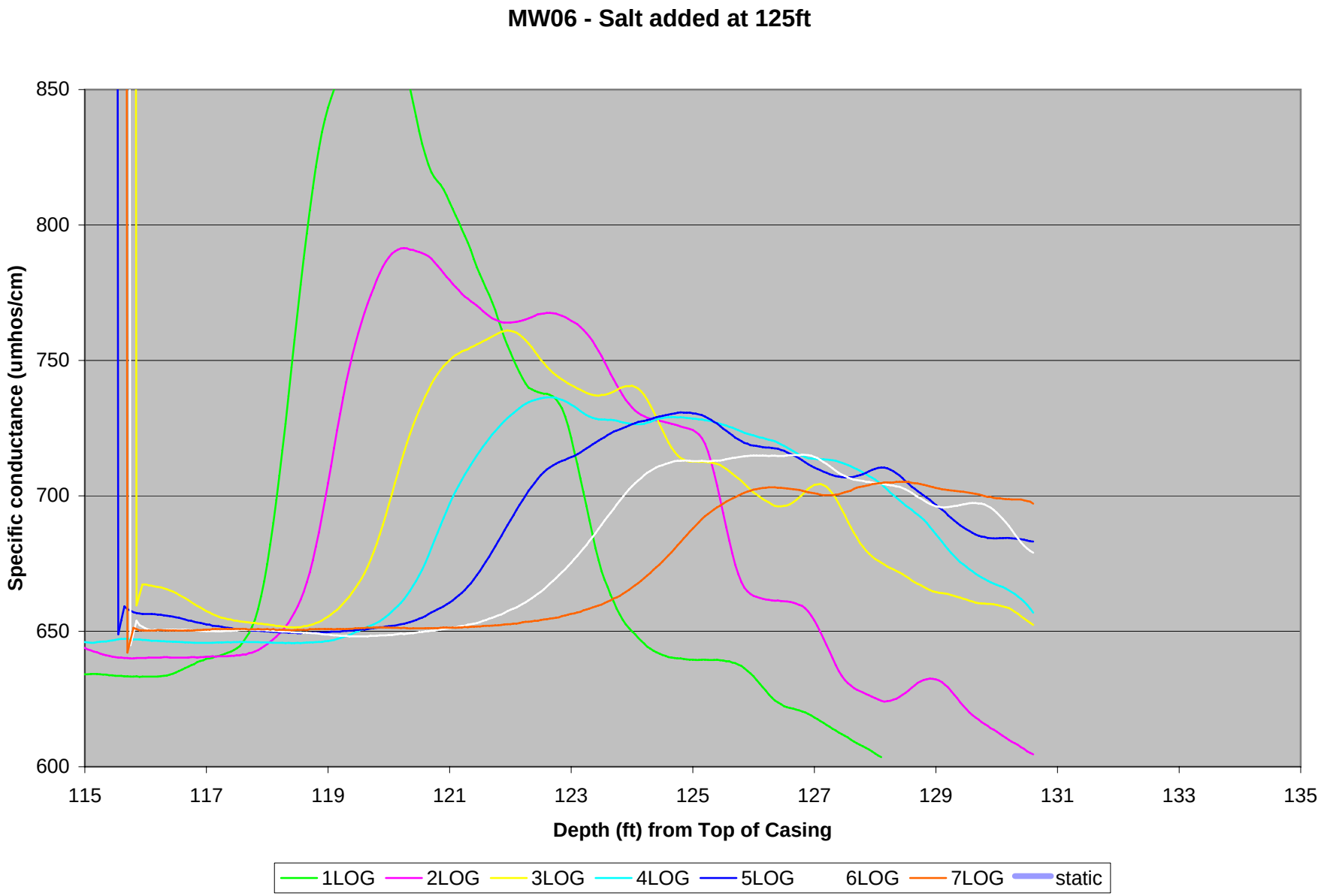
Well Name: ENSR: THWLS, page 1
Location: Phillipsburg, NJ
Reference: Ground Surface

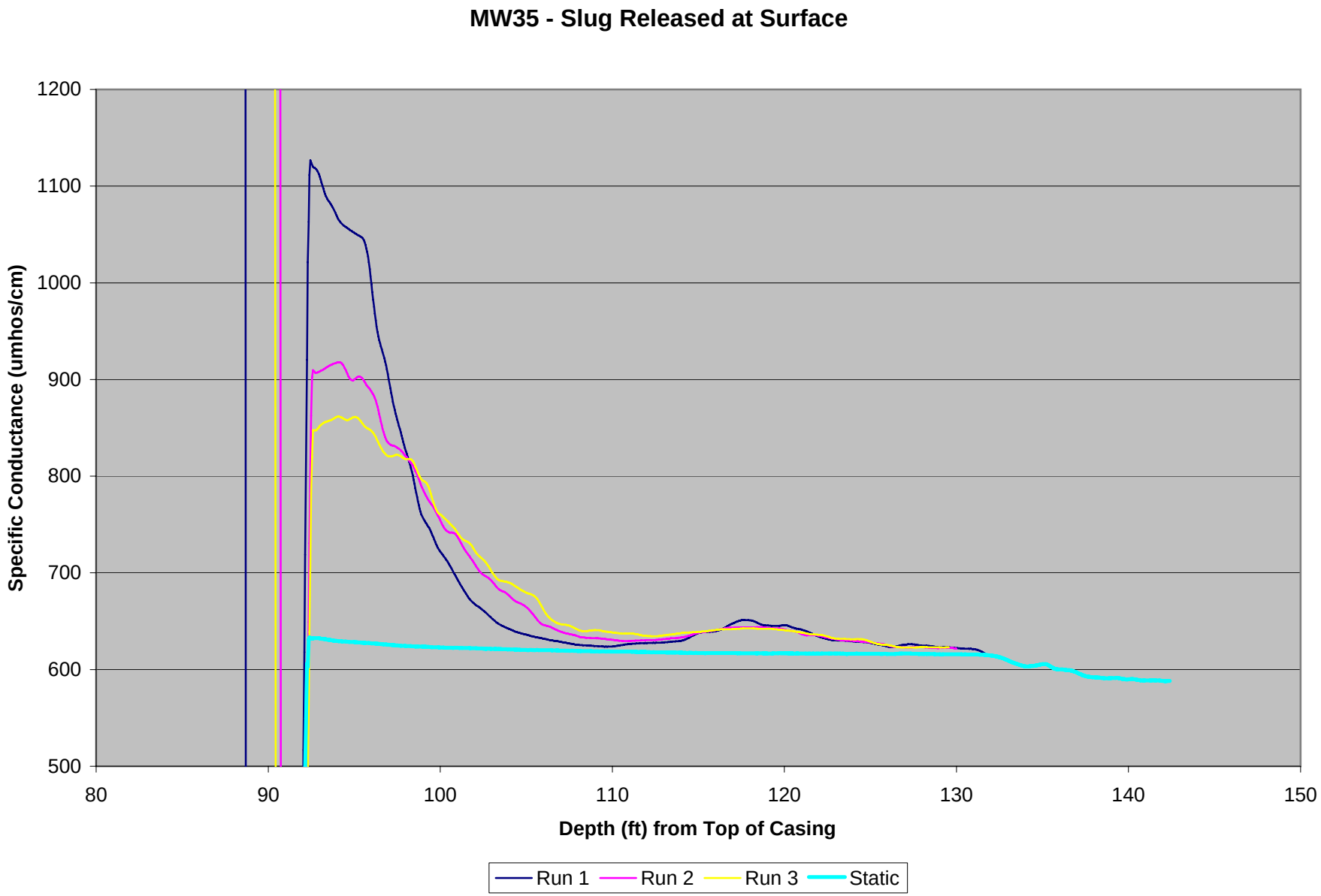


Well Name: ENSR: THWLS, page 2
Location: Phillipsburg, NJ
Reference: Ground Surface



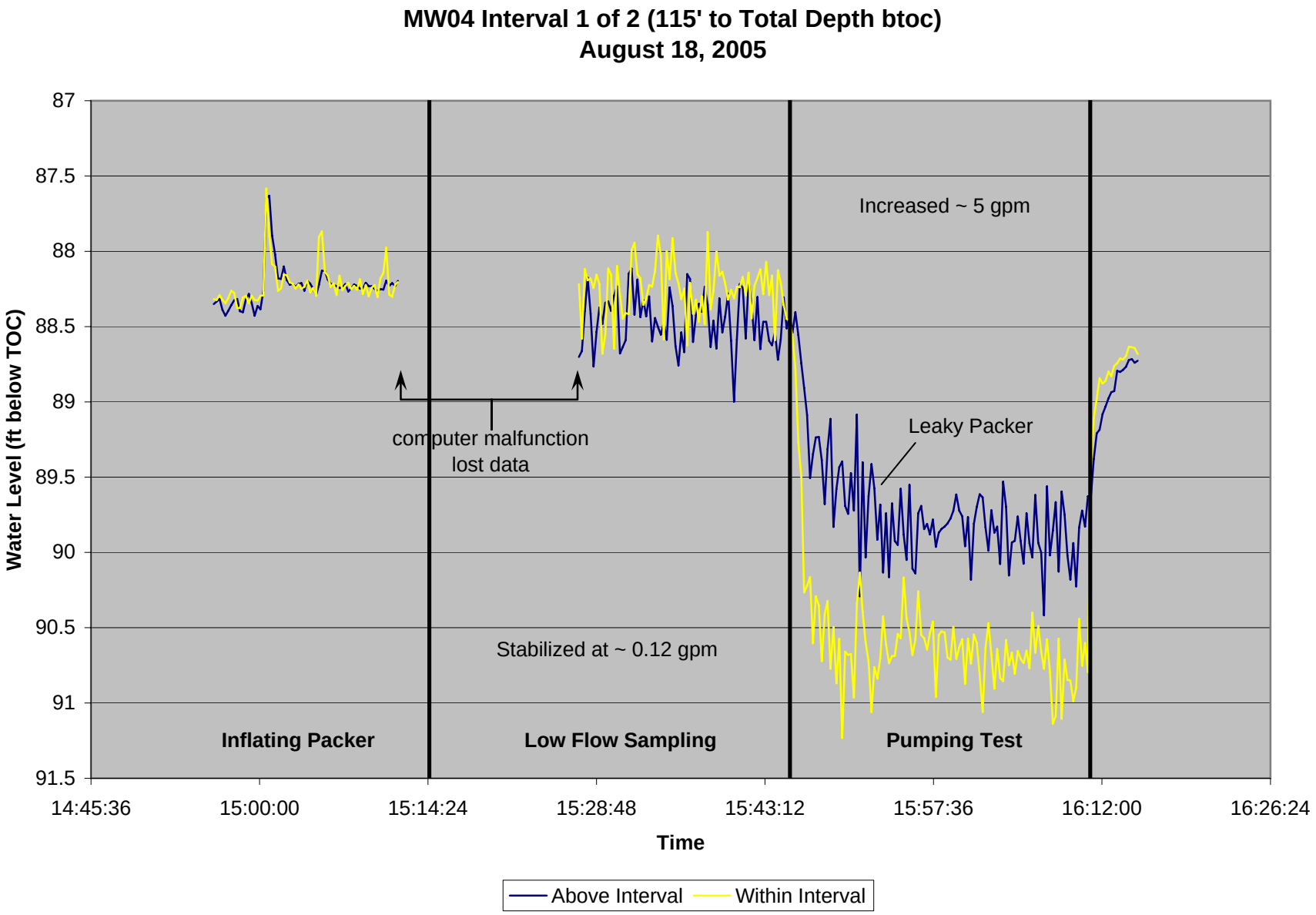

MW06 Salt Slug - Salt added at 114ft
Specific conductance (umhos/cm)
900
850
800
750
700
650
600
90
95
100
105
110
115
120
Depth (ft) from Top of Casing
1LOG
2LOG
3LOG
4LOG
static

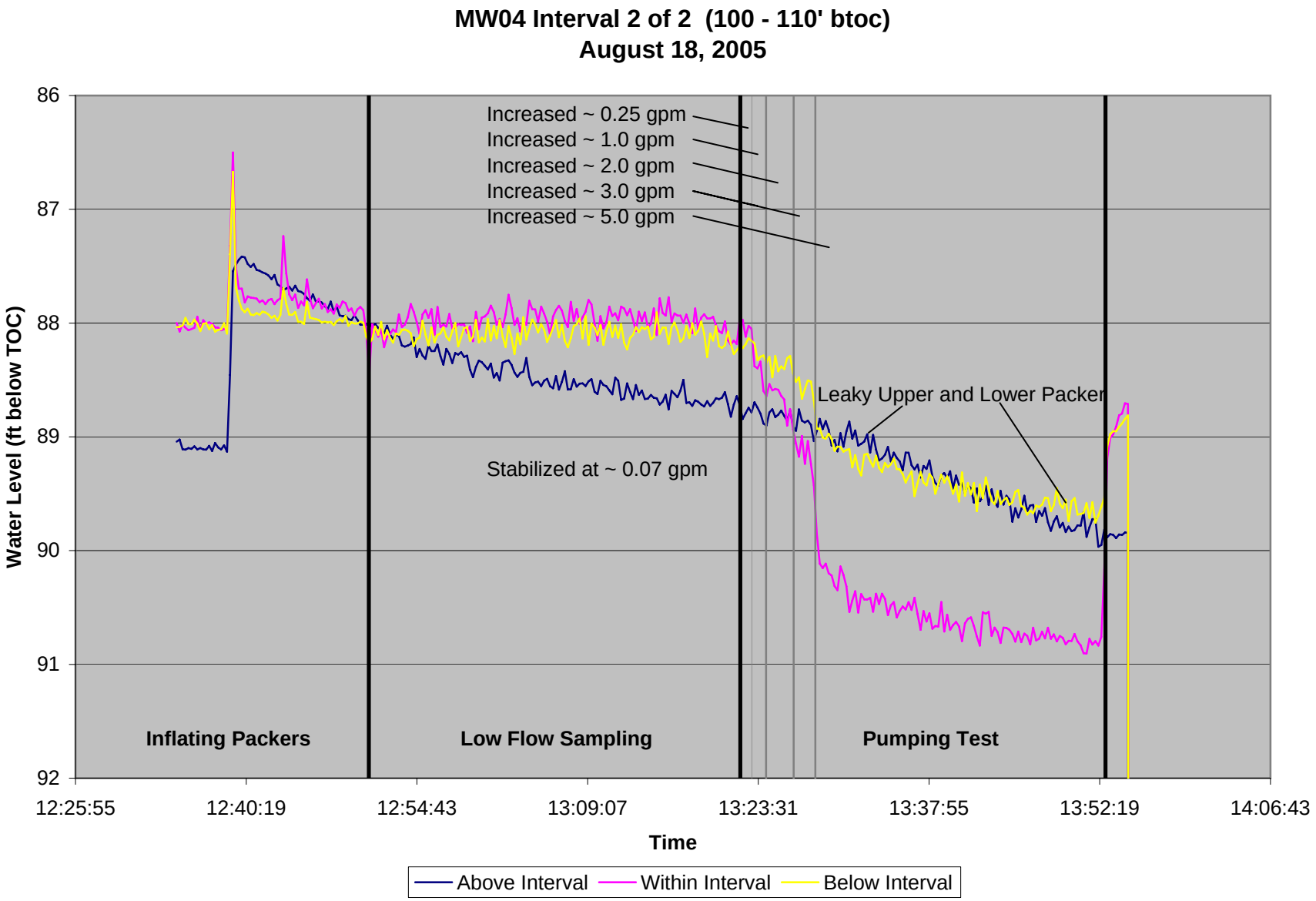

MW06 - Salt added at 125ft
Specific conductance (umhos/cm)
850
800
750
700
650
600
115
117
119
121
123
125
127
129
131
133
135
Depth (ft) from Top of Casing
1LOG
2LOG
3LOG
4LOG
5LOG
6LOG
7LOG
static

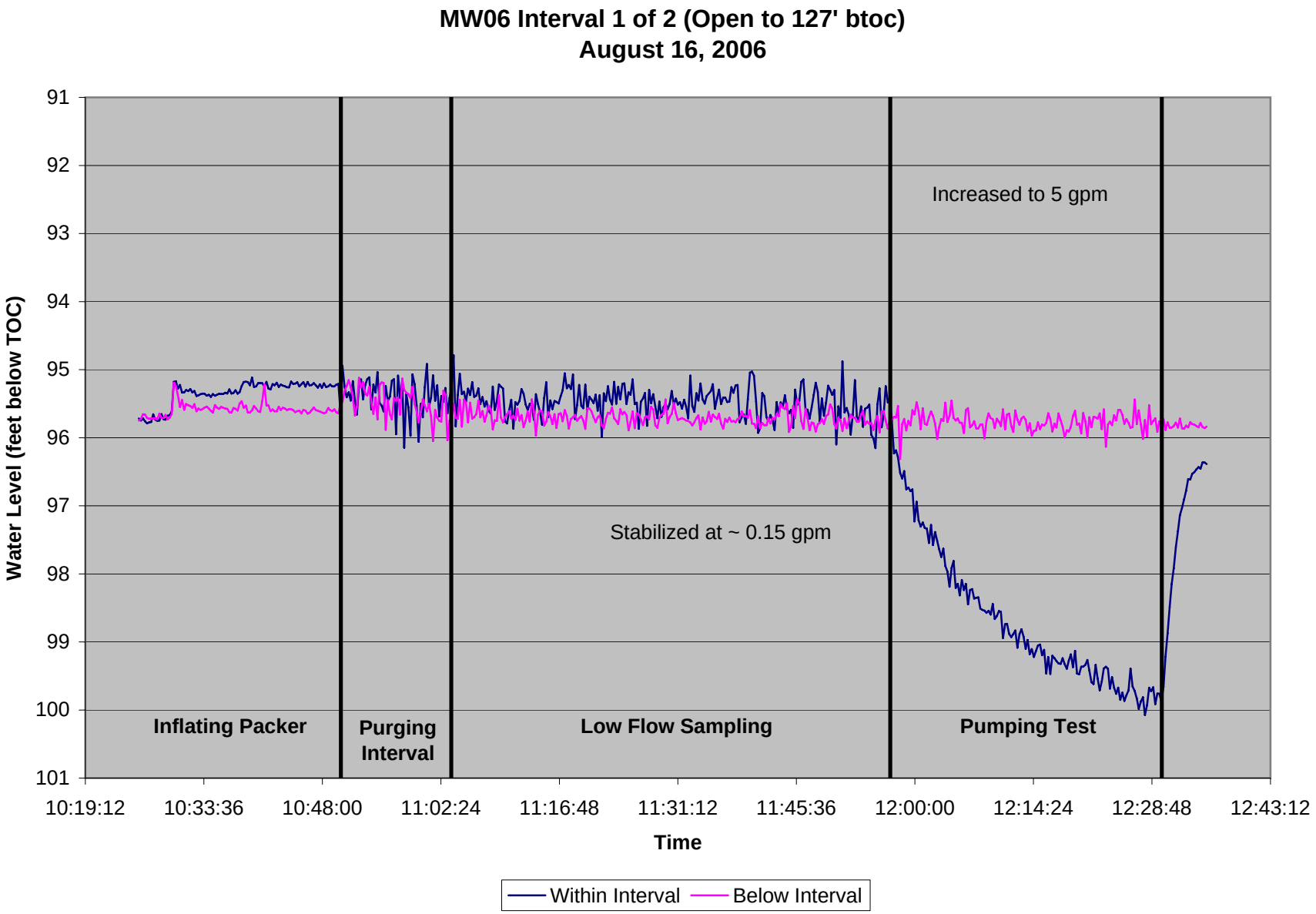

MW35 - Slug Released at Surface
Specific Conductance (umhos/cm)
1200
1100
1000
900
800
700
600
500
80
90
100
110
120
130
140
150
Depth (ft) from Top of Casing
Run 1
Run 2
Run 3
Static

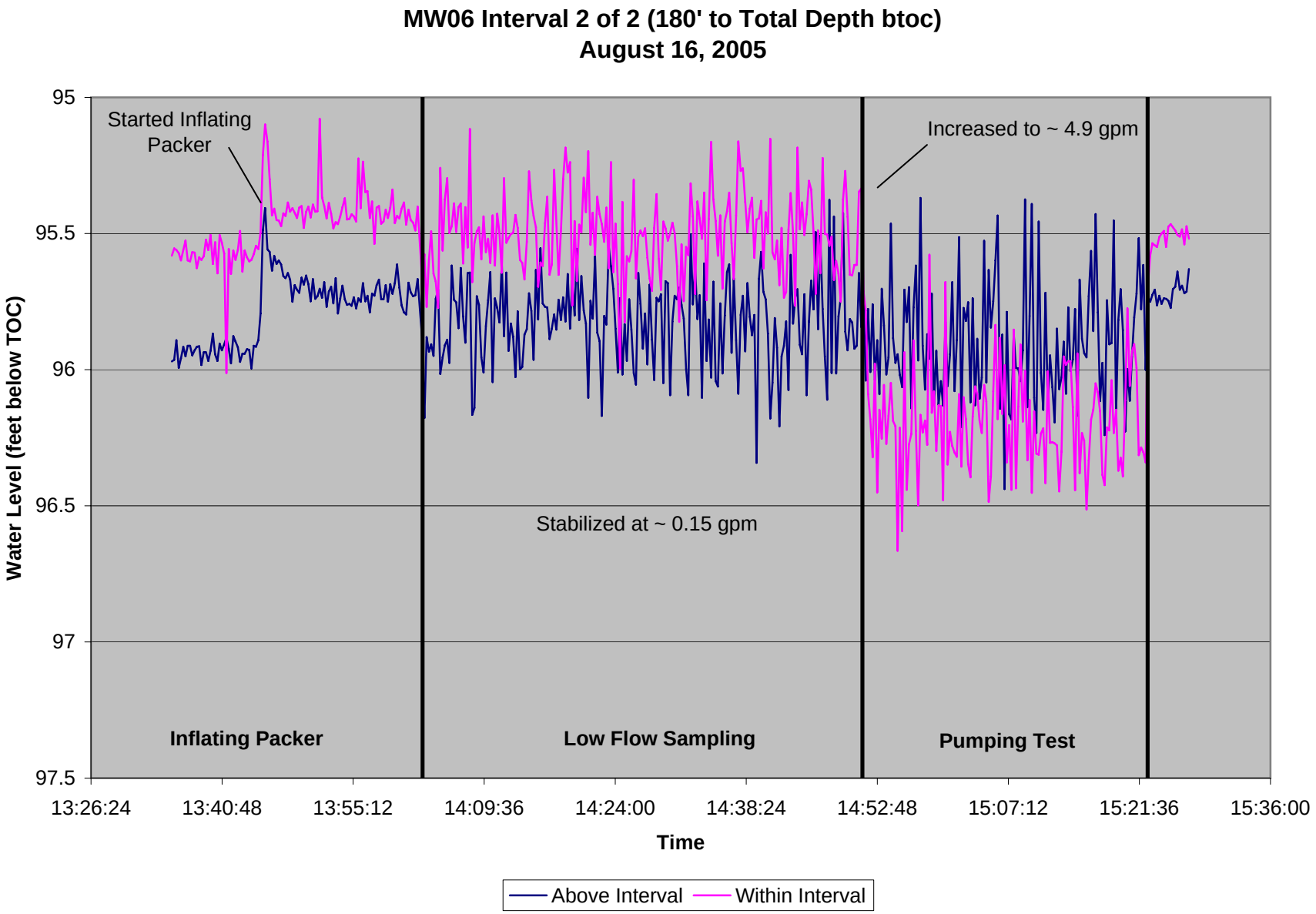
Appendix E

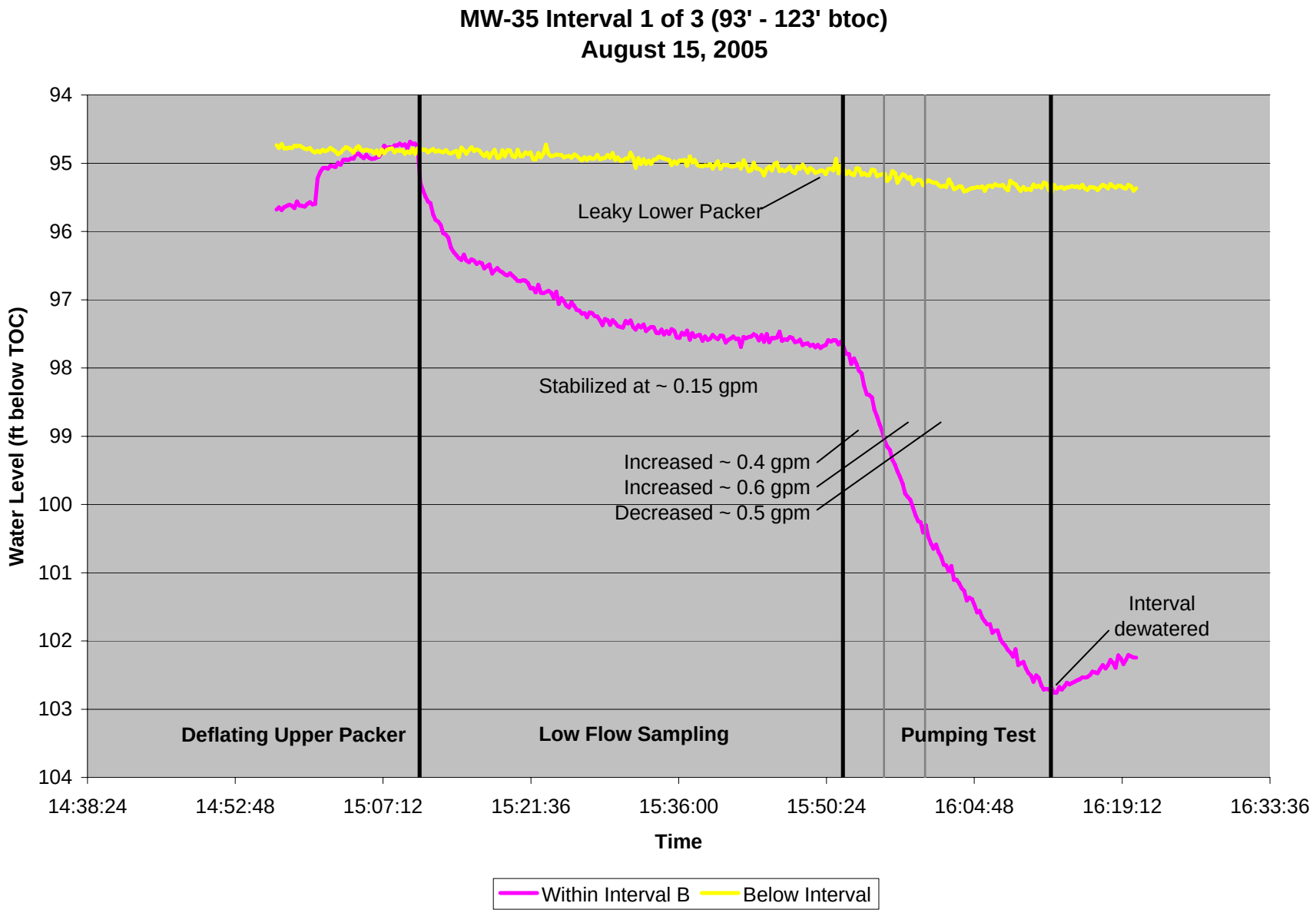
Packer Testing Plots

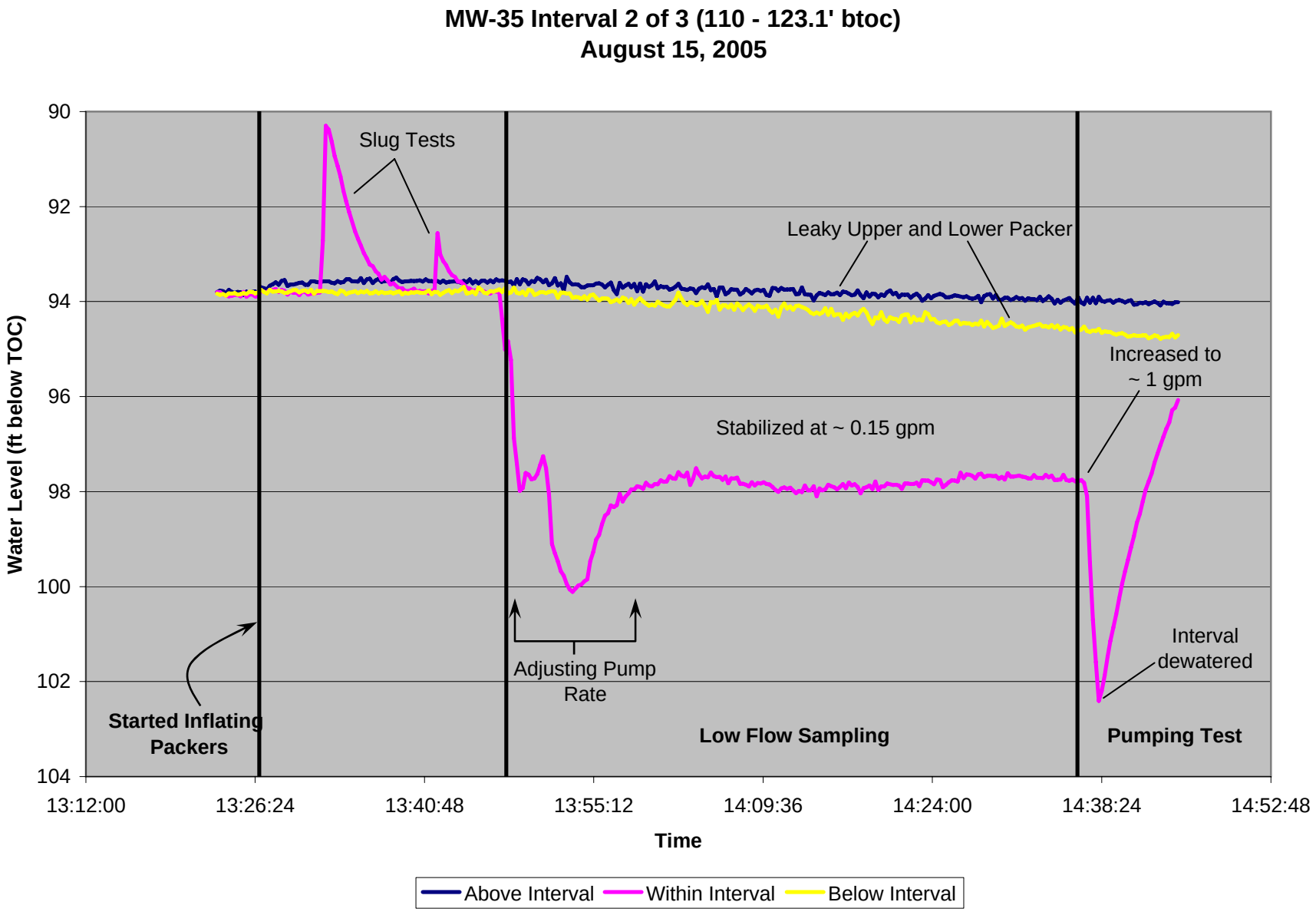

MW04 Interval 1 of 2 (115' to Total Depth btoc)
August 18, 2005
Water Level (ft below TOC)
87
87.5
88
88.5
89
89.5
90
90.5
91
91.5
14:45:36
15:00:00
15:14:24
15:28:48
15:43:12
15:57:36
16:12:00
16:26:24
Time
Increased ~ 5 gpm
computer malfunction
lost data
Leaky Packer
Stabilized at ~ 0.12 gpm
Inflating Packer
Low Flow Sampling
Pumping Test
Above Interval
Within Interval

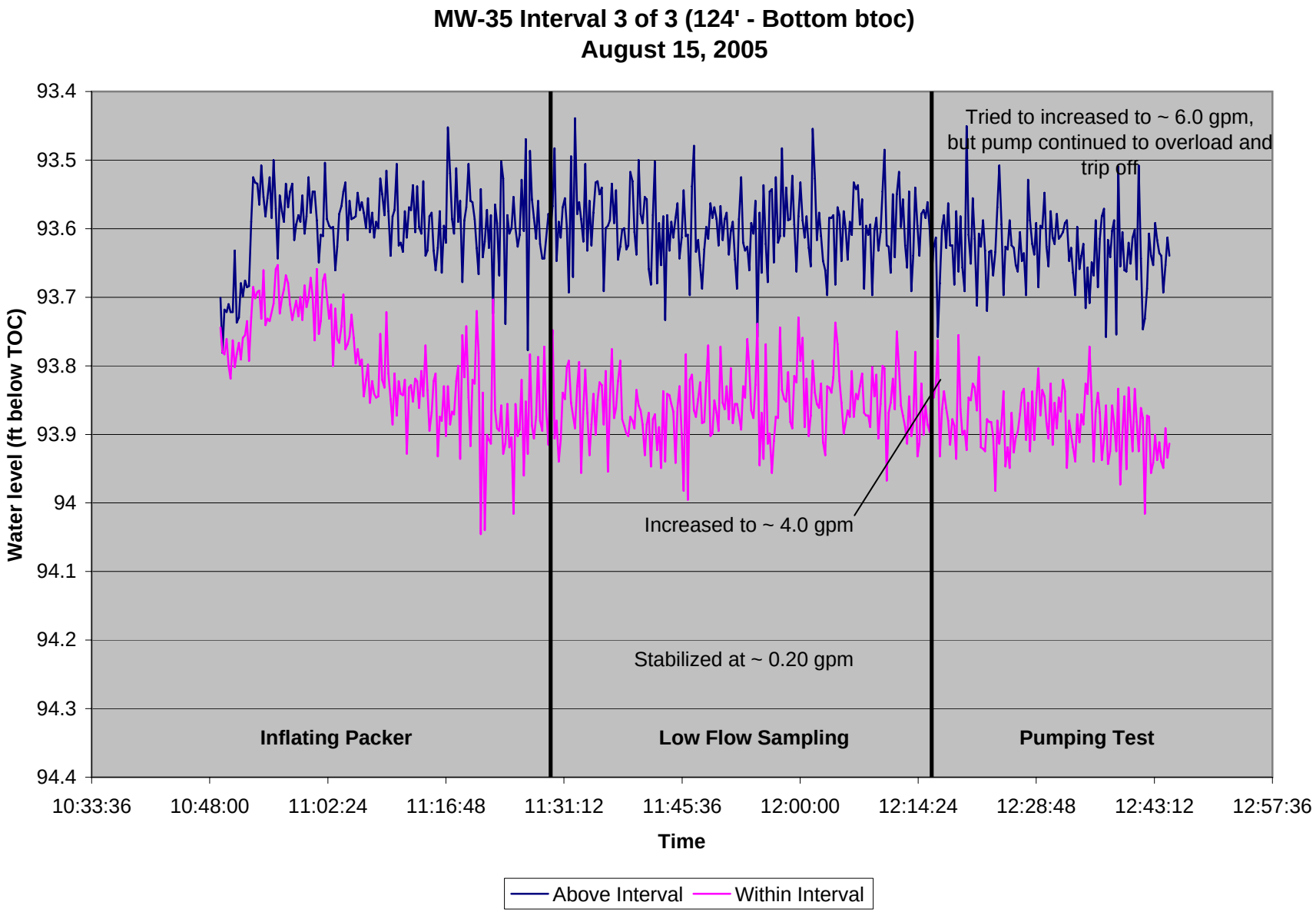

MW04 Interval 2 of 2 (100 - 110' btoc)
August 18, 2005
Increased ~ 0.25 gpm
Increased ~ 1.0 gpm
Increased ~ 2.0 gpm
Increased ~ 3.0 gpm
Increased ~ 5.0 gpm
Leaky Upper and Lower Packer
Stabilized at ~ 0.07 gpm
Inflating Packers
Low Flow Sampling
Pumping Test
Water Level (ft below TOC)
86
87
88
89
90
91
92
12:25:55
12:40:19
12:54:43
13:09:07
13:23:31
13:37:55
13:52:19
14:06:43
Time
Above Interval
Within Interval
Below Interval

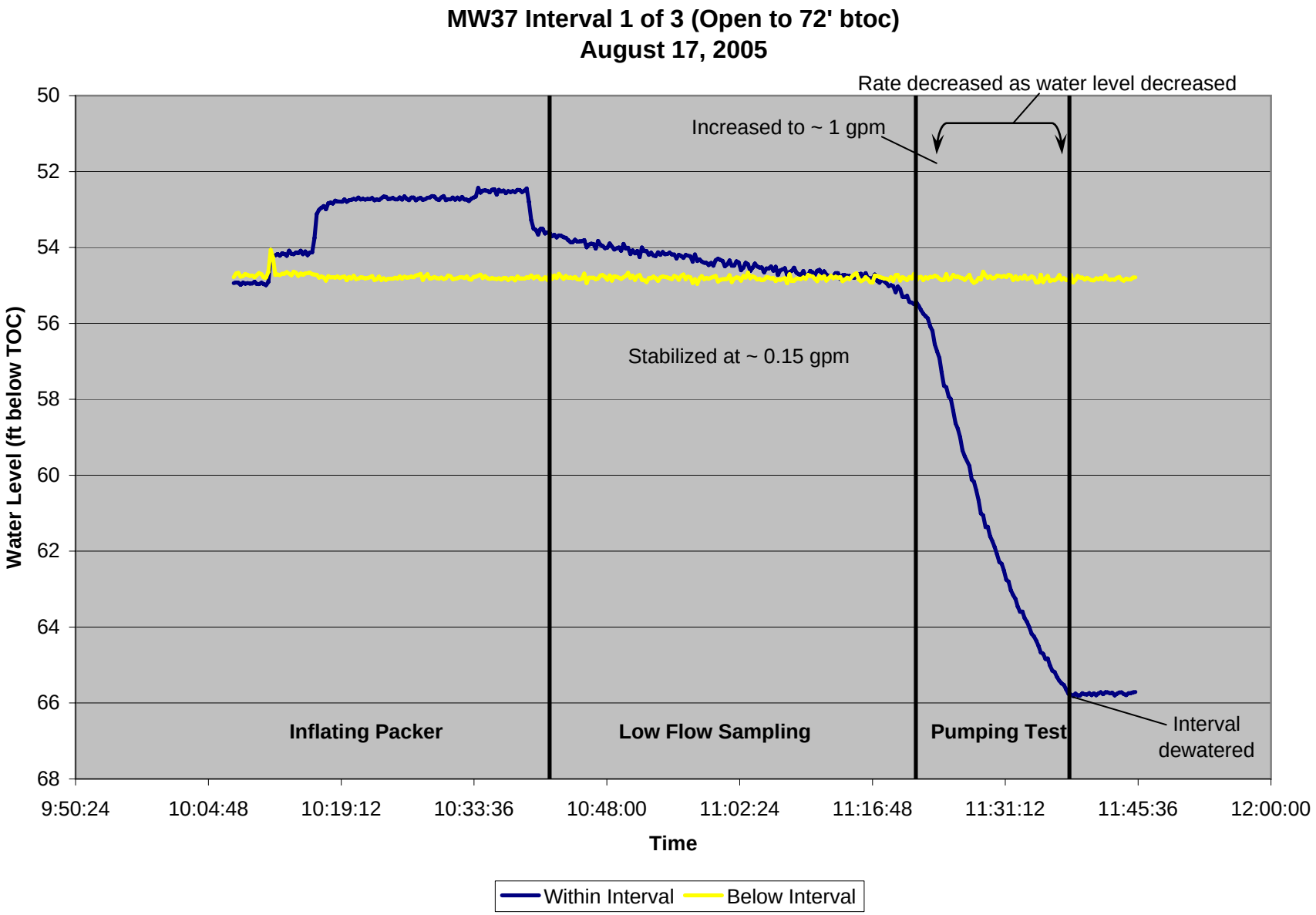

MW06 Interval 1 of 2 (Open to 127' btoc)
August 16, 2006
Water Level (feet below TOC)
91
92
93
94
95
96
97
98
99
100
101
Increased to 5 gpm
Stabilized at ~ 0.15 gpm
Inflating Packer
Purging Interval
Low Flow Sampling
Pumping Test
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
Time
Within Interval
Below Interval

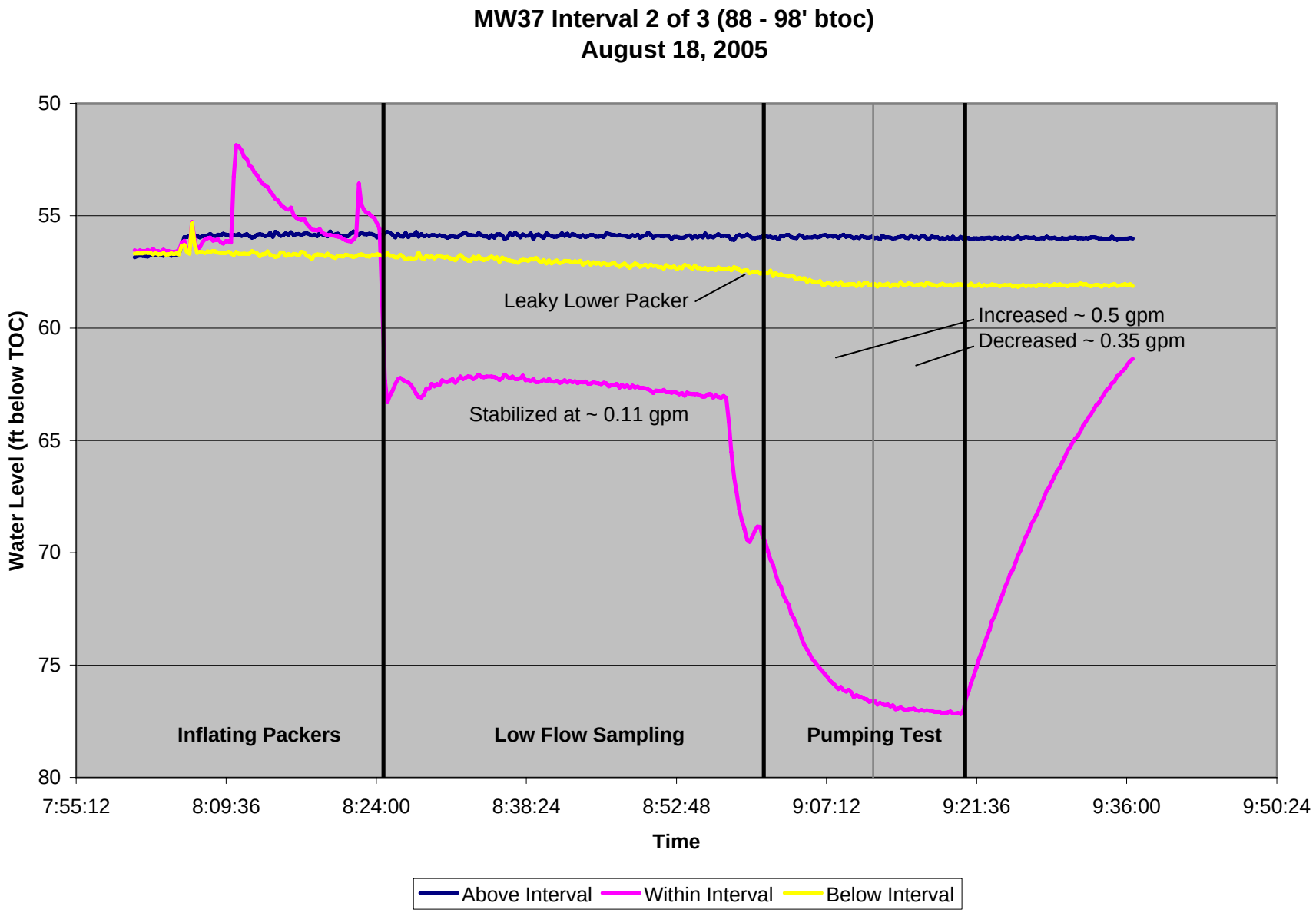

MW06 Interval 2 of 2 (180' to Total Depth btoc)
August 16, 2005
Started Inflating Packer
Increased to ~ 4.9 gpm
Stabilized at ~ 0.15 gpm
Inflating Packer
Low Flow Sampling
Pumping Test
Water Level (feet below TOC)
95
95.5
96
96.5
97
97.5
13:26:24
13:40:48
13:55:12
14:09:36
14:24:00
14:38:24
14:52:48
15:07:12
15:21:36
15:36:00
Time
Above Interval
Within Interval

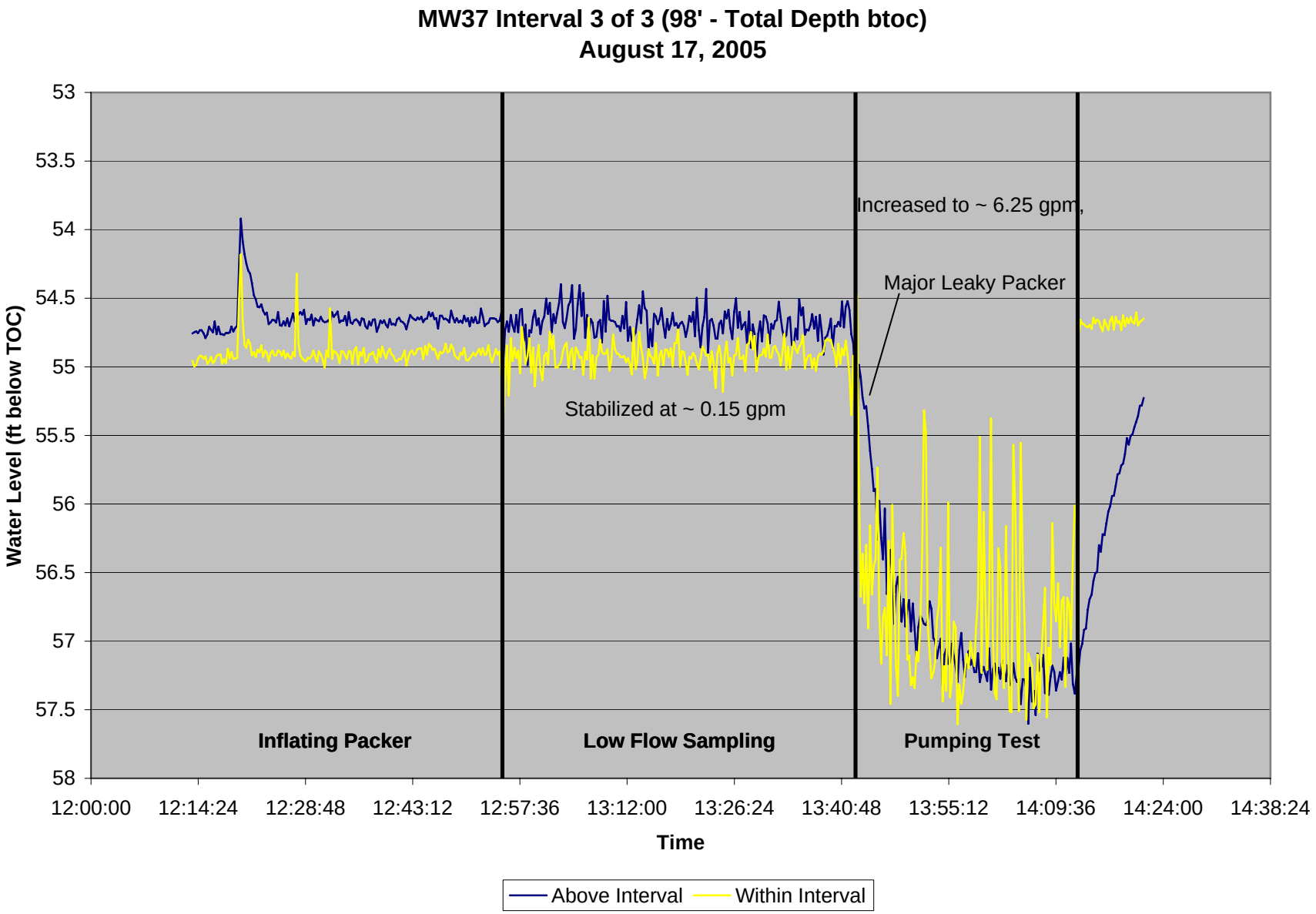

MW-35 Interval 1 of 3 (93' - 123' btoc)
August 15, 2005
Water Level (ft below TOC)
94
95
96
97
98
99
100
101
102
103
104
14:38:24
14:52:48
15:07:12
15:21:36
15:36:00
15:50:24
16:04:48
16:19:12
16:33:36
Time
Leaky Lower Packer
Stabilized at ~ 0.15 gpm
Increased ~ 0.4 gpm
Increased ~ 0.6 gpm
Decreased ~ 0.5 gpm
Interval dewatered
Deflating Upper Packer
Low Flow Sampling
Pumping Test
Within Interval B
Below Interval

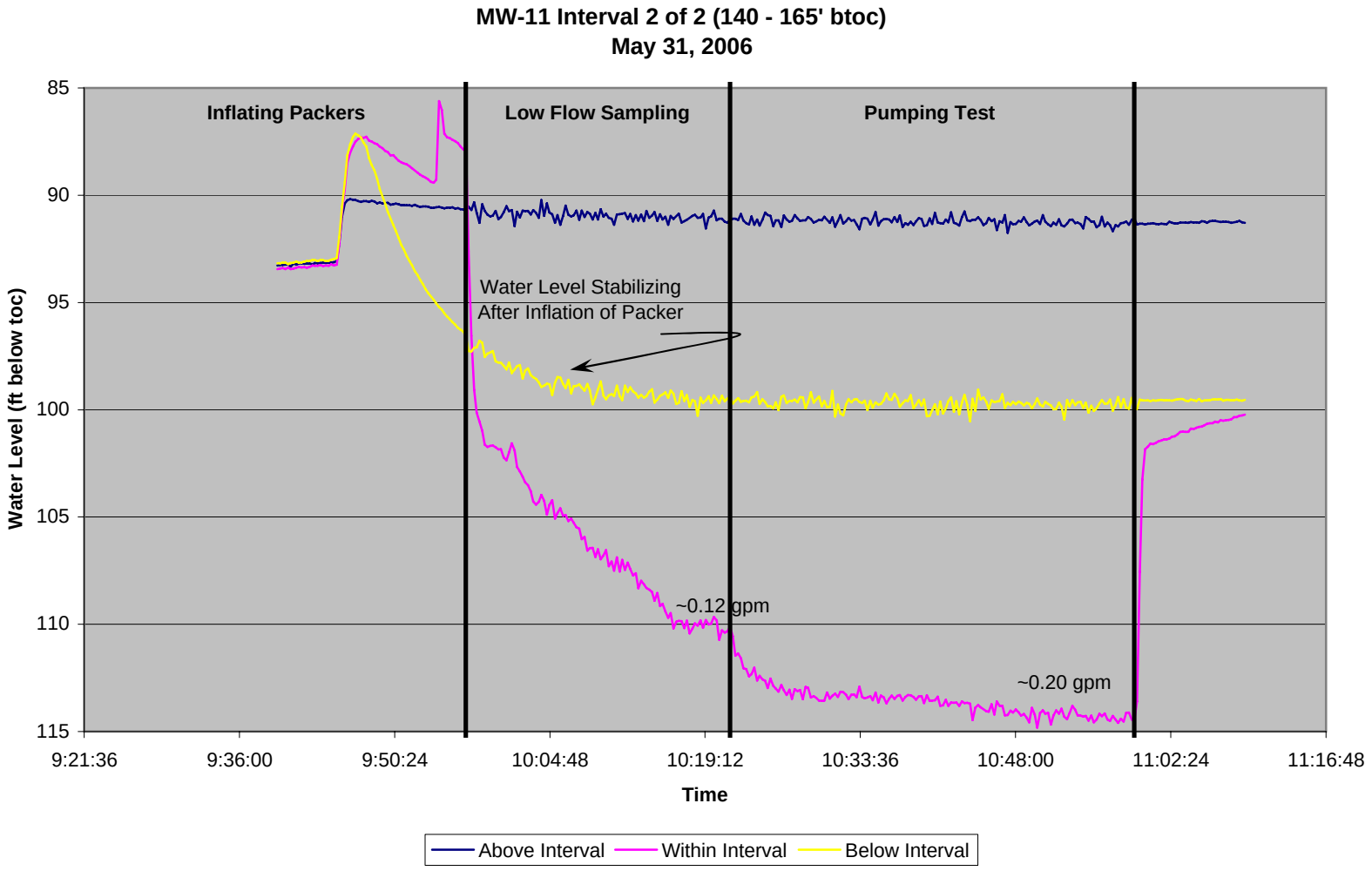

MW-35 Interval 2 of 3 (110 - 123.1' btoc)
August 15, 2005
Water Level (ft below TOC)
90
92
94
96
98
100
102
104
13:12:00
13:26:24
13:40:48
13:55:12
14:09:36
14:24:00
14:38:24
14:52:48
Time
Slug Tests
Leaky Upper and Lower Packer
Increased to
~ 1 gpm
Stabilized at ~ 0.15 gpm
Adjusting Pump
Rate
Interval
dewatered
Started Inflating
Packers
Low Flow Sampling
Pumping Test
Above Interval
Within Interval
Below Interval

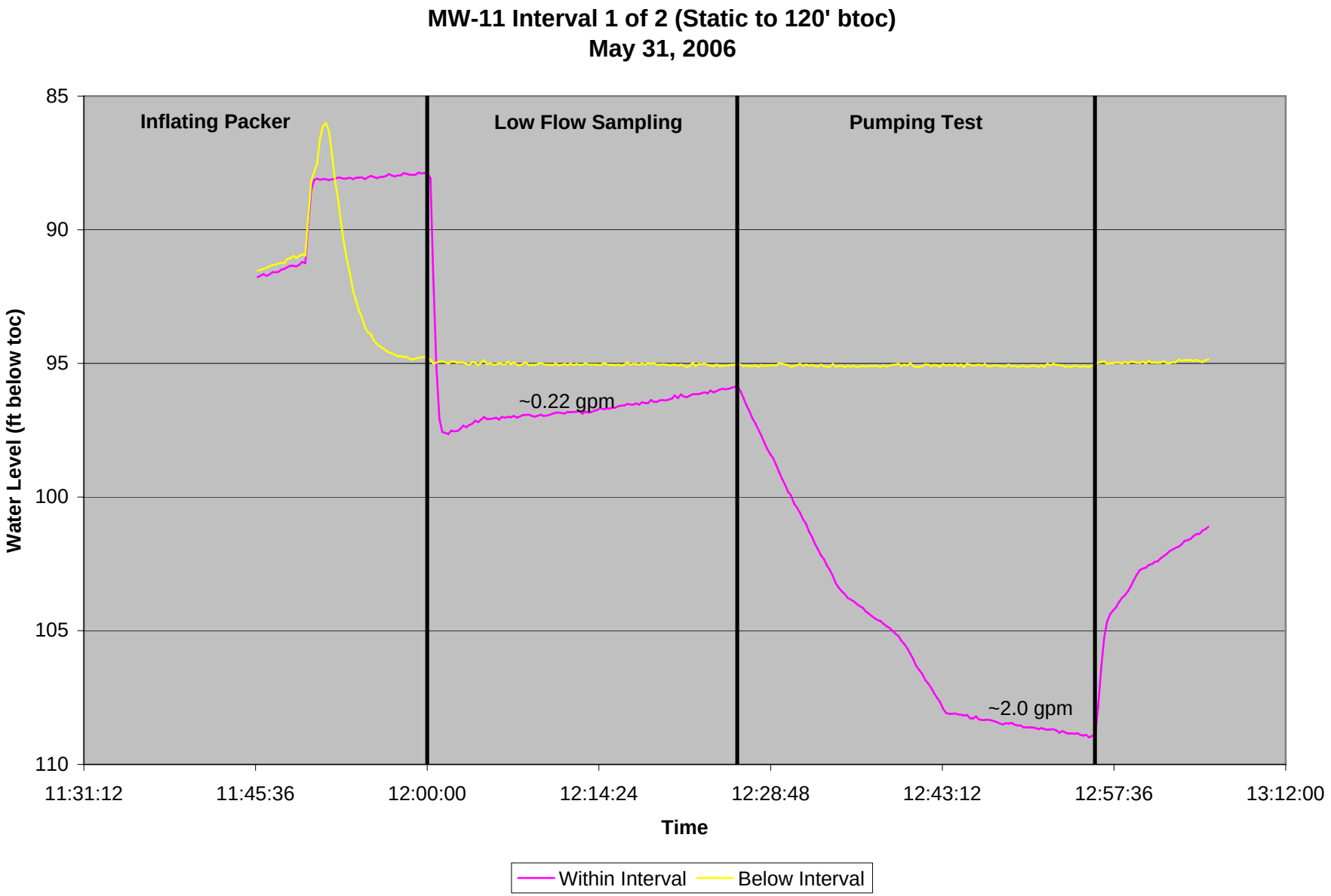

MW-35 Interval 3 of 3 (124' - Bottom btoc)
August 15, 2005
Water level (ft below TOC)
93.4
93.5
93.6
93.7
93.8
93.9
94
94.1
94.2
94.3
94.4
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
Time
Tried to increased to ~ 6.0 gpm, but pump continued to overload and trip off
Increased to ~ 4.0 gpm
Stabilized at ~ 0.20 gpm
Inflating Packer
Low Flow Sampling
Pumping Test
Above Interval
Within Interval

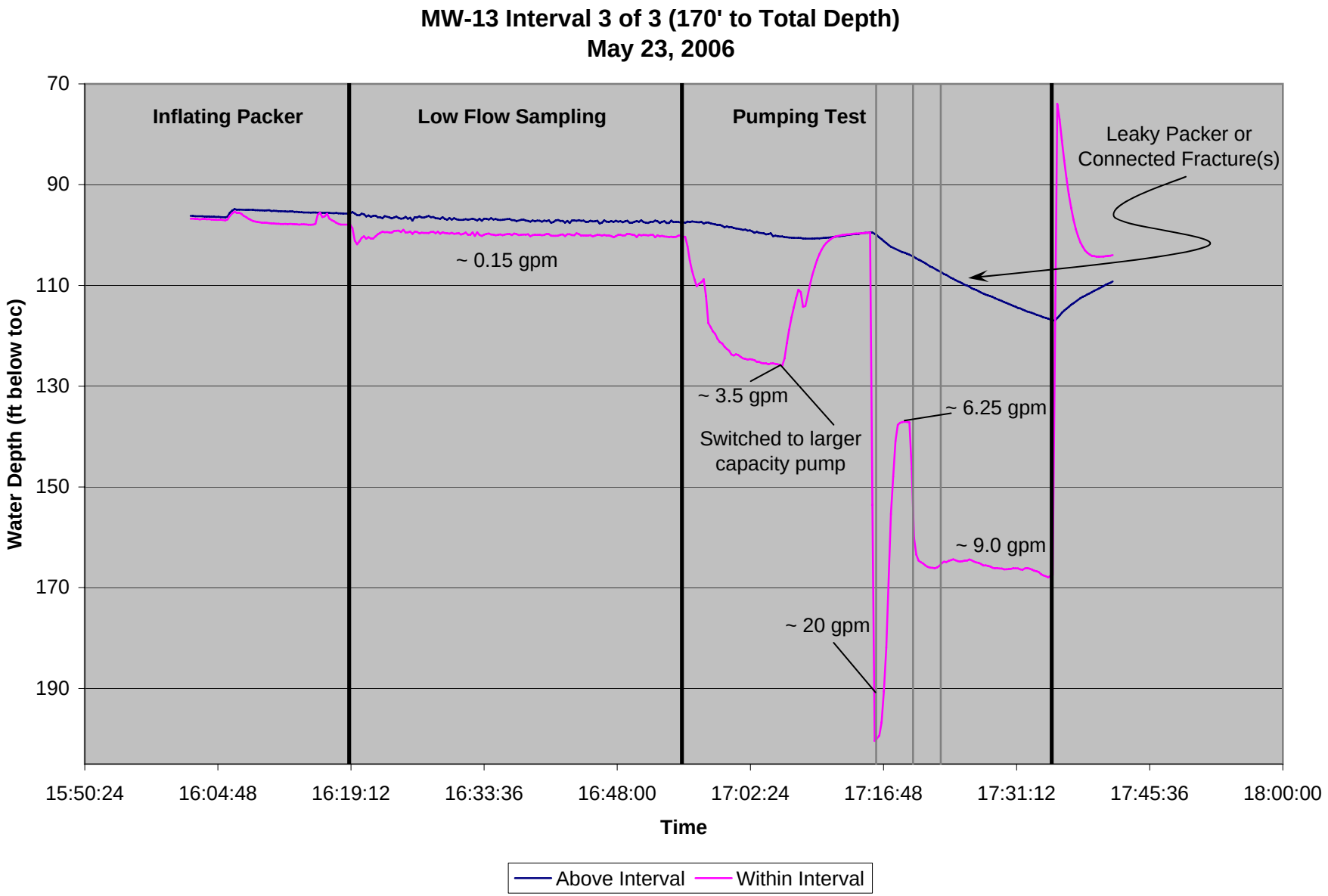

MW37 Interval 1 of 3 (Open to 72' btoc)
August 17, 2005
Rate decreased as water level decreased
Increased to ~ 1 gpm
Stabilized at ~ 0.15 gpm
Interval dewatered
Inflating Packer
Low Flow Sampling
Pumping Test
Water Level (ft below TOC)
50
52
54
56
58
60
62
64
66
68
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
Time
Within Interval
Below Interval

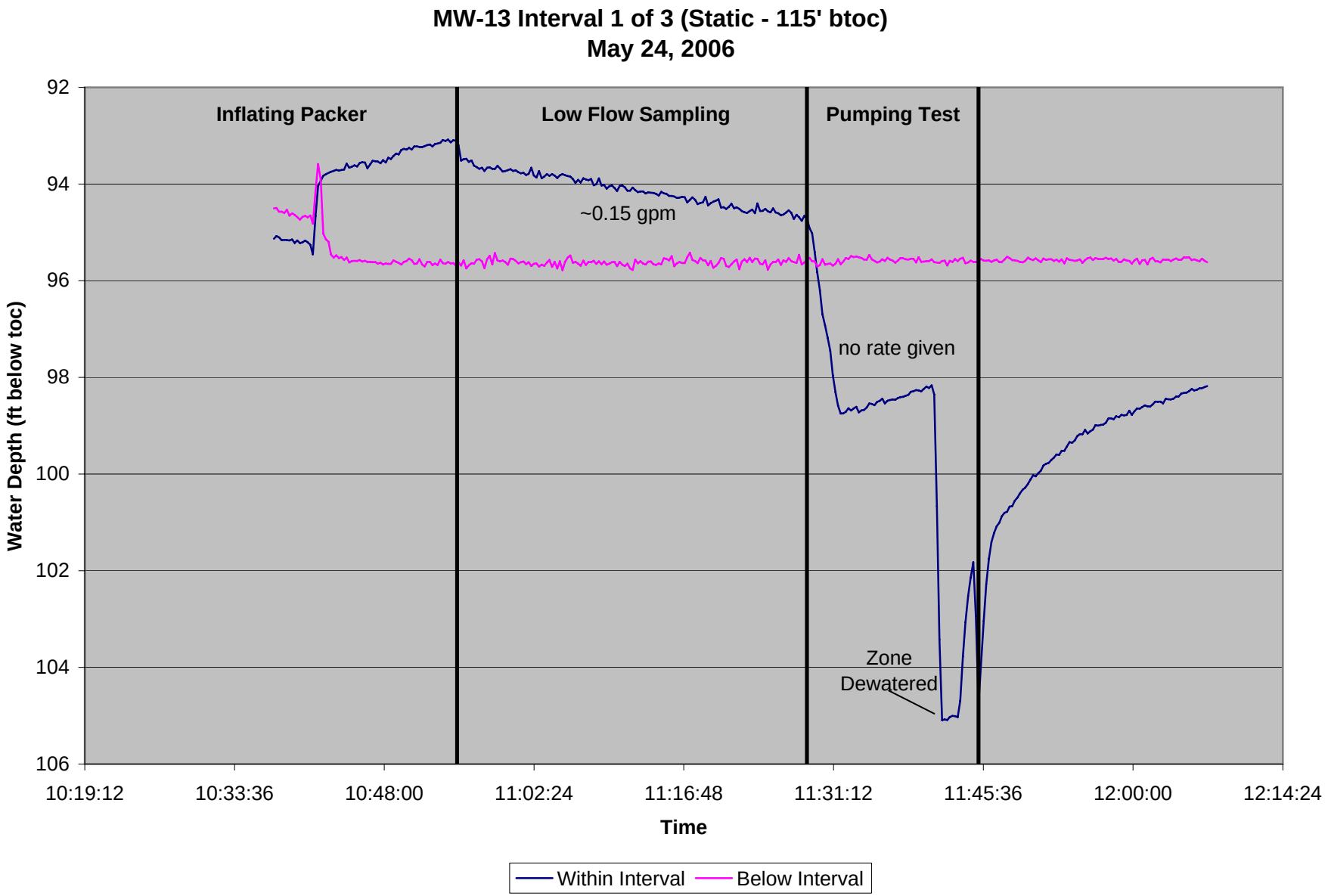

MW37 Interval 2 of 3 (88 - 98' btoc)
August 18, 2005
Water Level (ft below TOC)
50
55
60
65
70
75
80
7:55:12
8:09:36
8:24:00
8:38:24
8:52:48
9:07:12
9:21:36
9:36:00
9:50:24
Time
Leaky Lower Packer
Stabilized at ~ 0.11 gpm
Increased ~ 0.5 gpm
Decreased ~ 0.35 gpm
Inflating Packers
Low Flow Sampling
Pumping Test
Above Interval
Within Interval
Below Interval

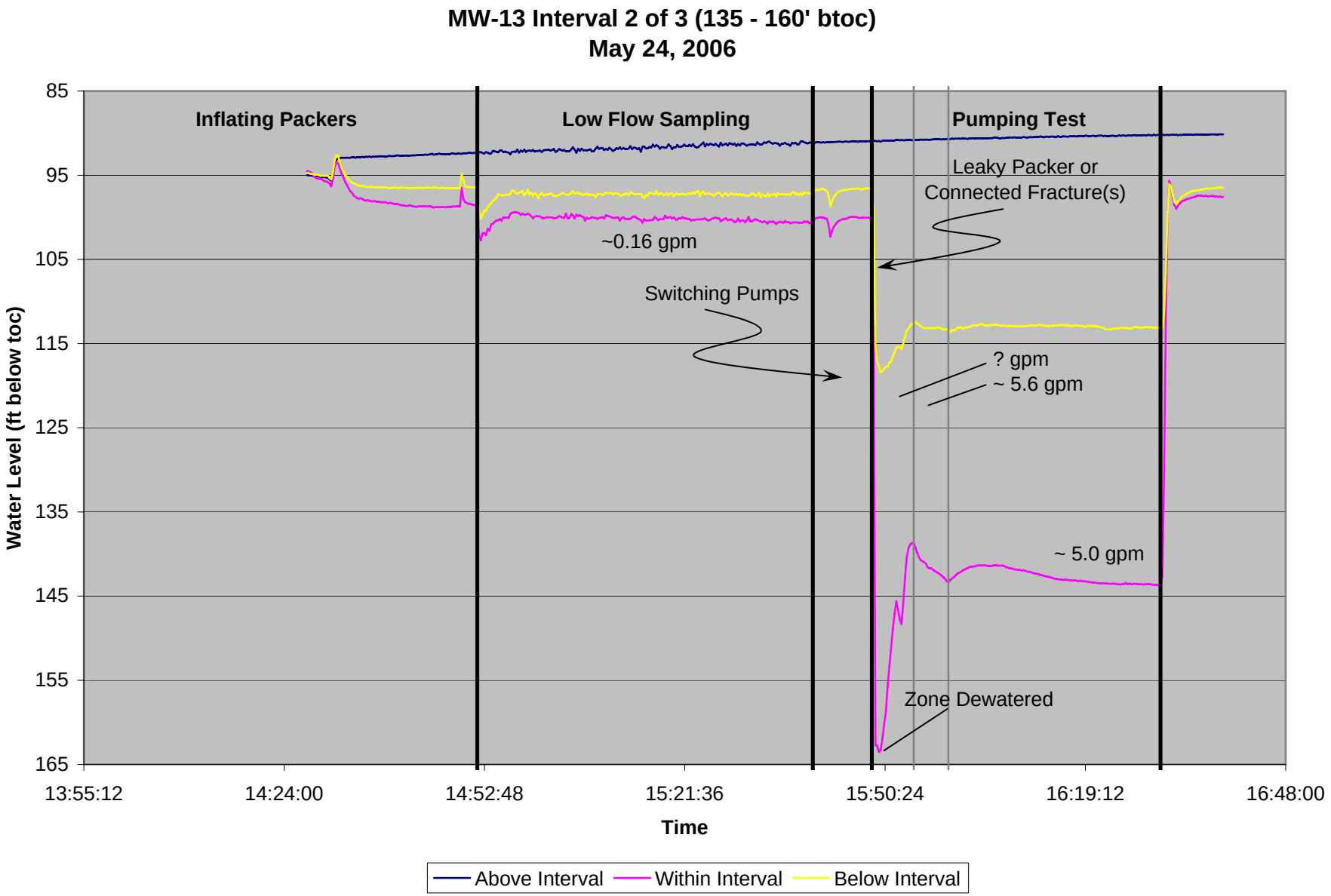

MW37 Interval 3 of 3 (98' - Total Depth btoc)
August 17, 2005
Water Level (ft below TOC)
53
53.5
54
54.5
55
55.5
56
56.5
57
57.5
58
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
13:12:00
13:26:24
13:40:48
13:55:12
14:09:36
14:24:00
14:38:24
Time
Increased to ~ 6.25 gpm,
Major Leaky Packer
Stabilized at ~ 0.15 gpm
Inflating Packer
Low Flow Sampling
Pumping Test
Above Interval
Within Interval

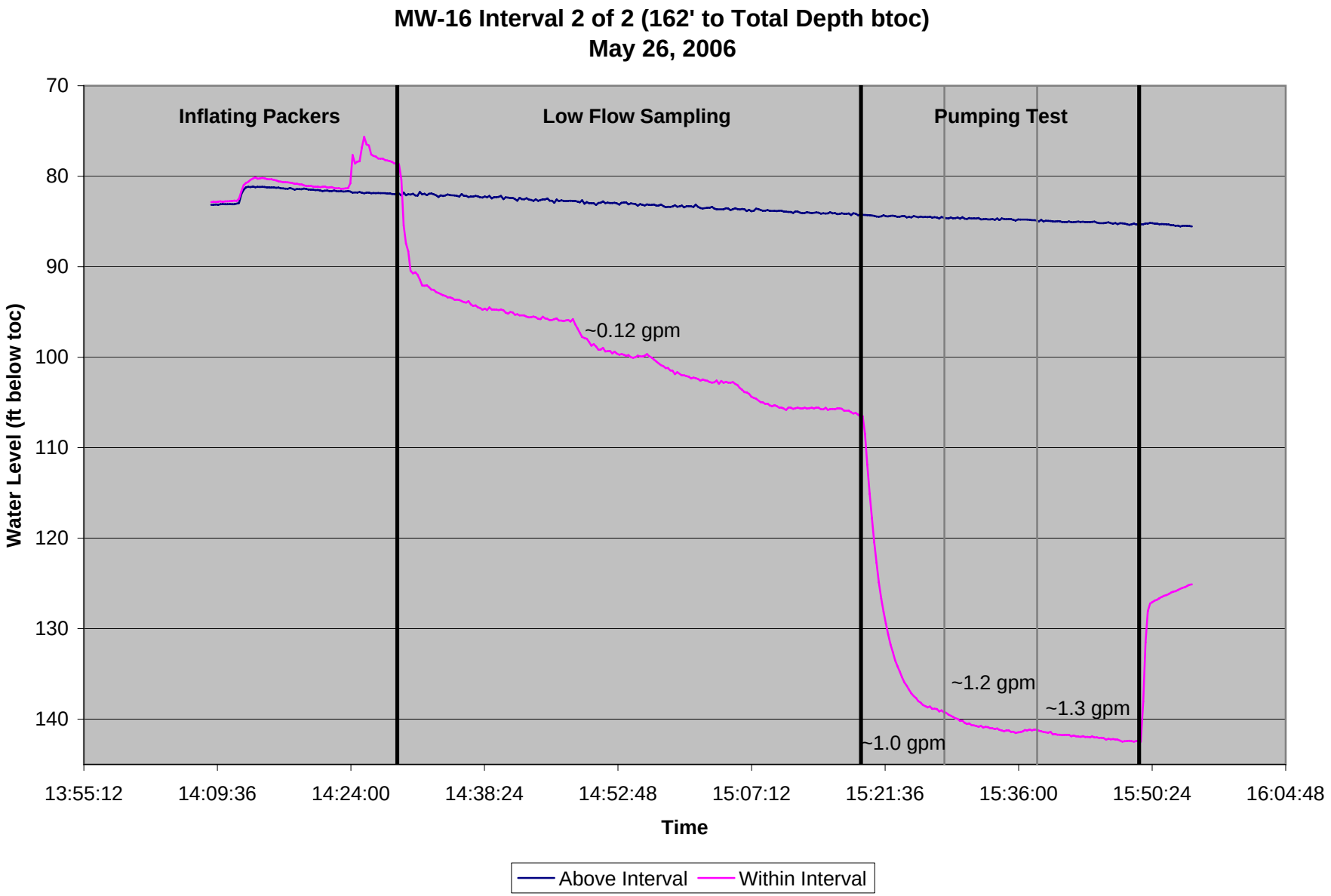

MW-11 Interval 2 of 2 (140 - 165' btoc)
May 31, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Water Level Stabilizing
After Inflation of Packer
~0.12 gpm
~0.20 gpm
Water Level (ft below toc)
85
90
95
100
105
110
115
9:21:36
9:36:00
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
Time
Above Interval
Within Interval
Below Interval

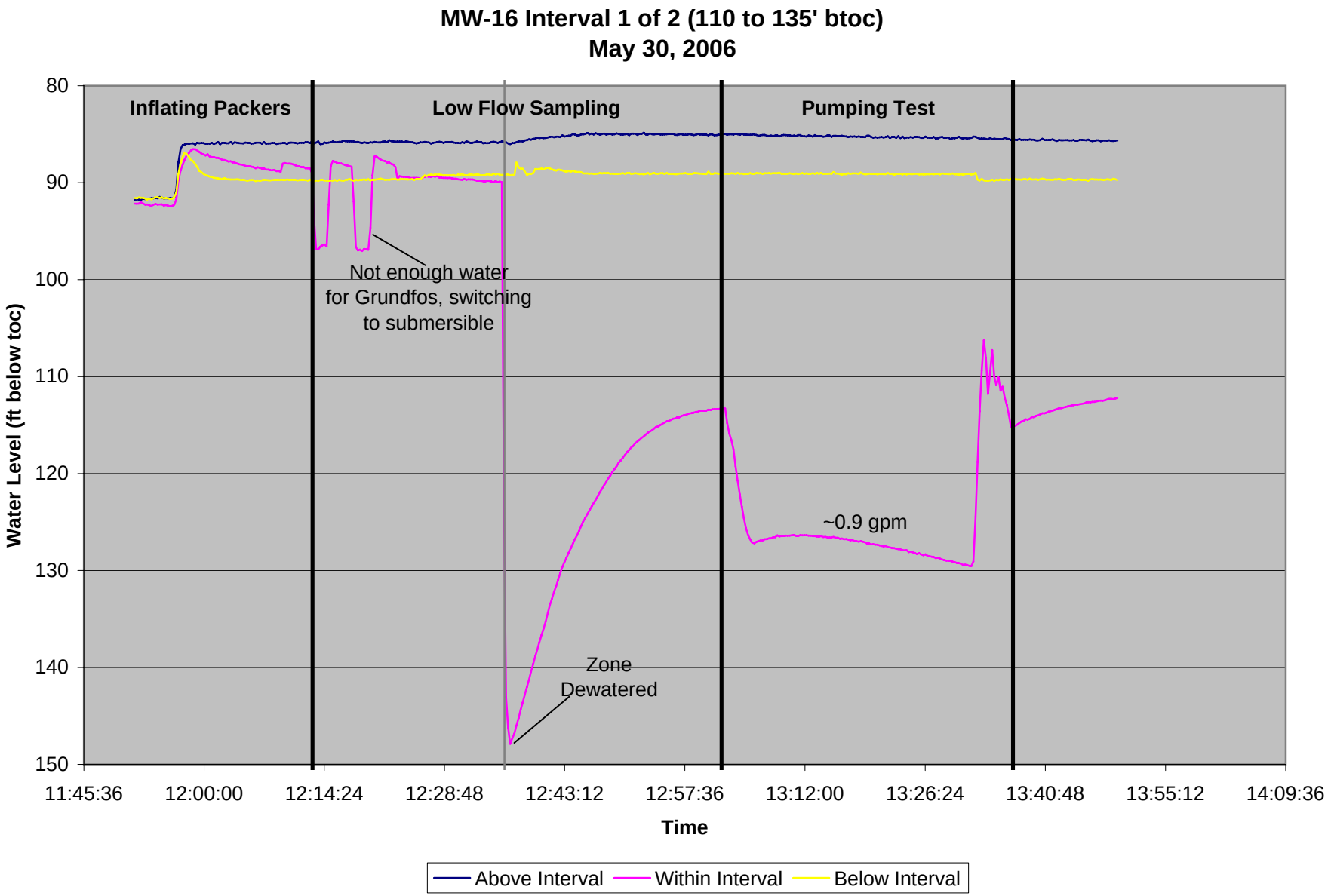

MW-11 Interval 1 of 2 (Static to 120' btoc)
May 31, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.22 gpm
~2.0 gpm
Water Level (ft below toc)
85
90
95
100
105
110
11:31:12
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
13:12:00
Time
Within Interval
Below Interval

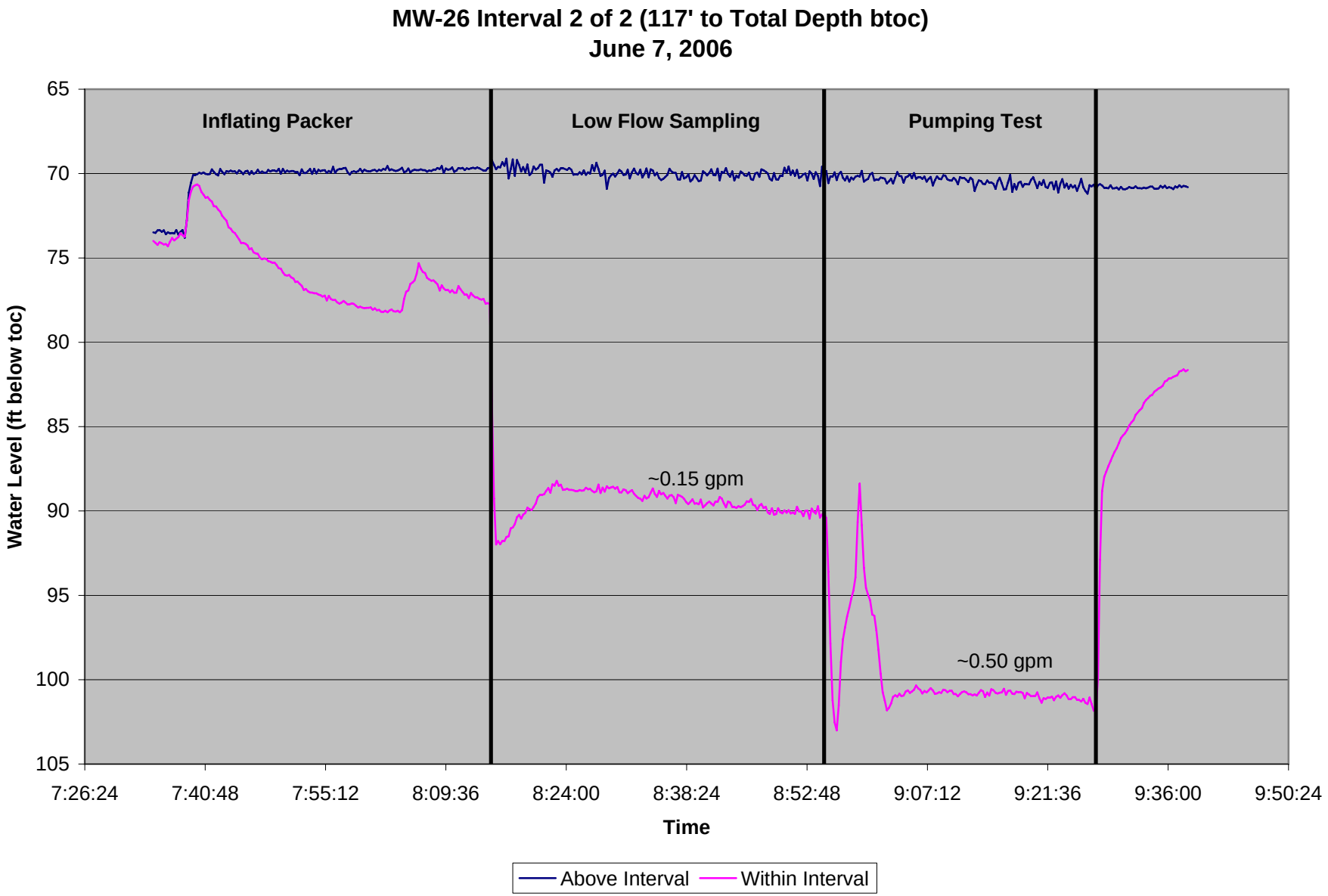

MW-13 Interval 3 of 3 (170' to Total Depth)
May 23, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
Leaky Packer or
Connected Fracture(s)
~ 0.15 gpm
~ 3.5 gpm
Switched to larger
capacity pump
~ 6.25 gpm
~ 9.0 gpm
~ 20 gpm
Water Depth (ft below toc)
70
90
110
130
150
170
190
15:50:24
16:04:48
16:19:12
16:33:36
16:48:00
17:02:24
17:16:48
17:31:12
17:45:36
18:00:00
Time
Above Interval
Within Interval

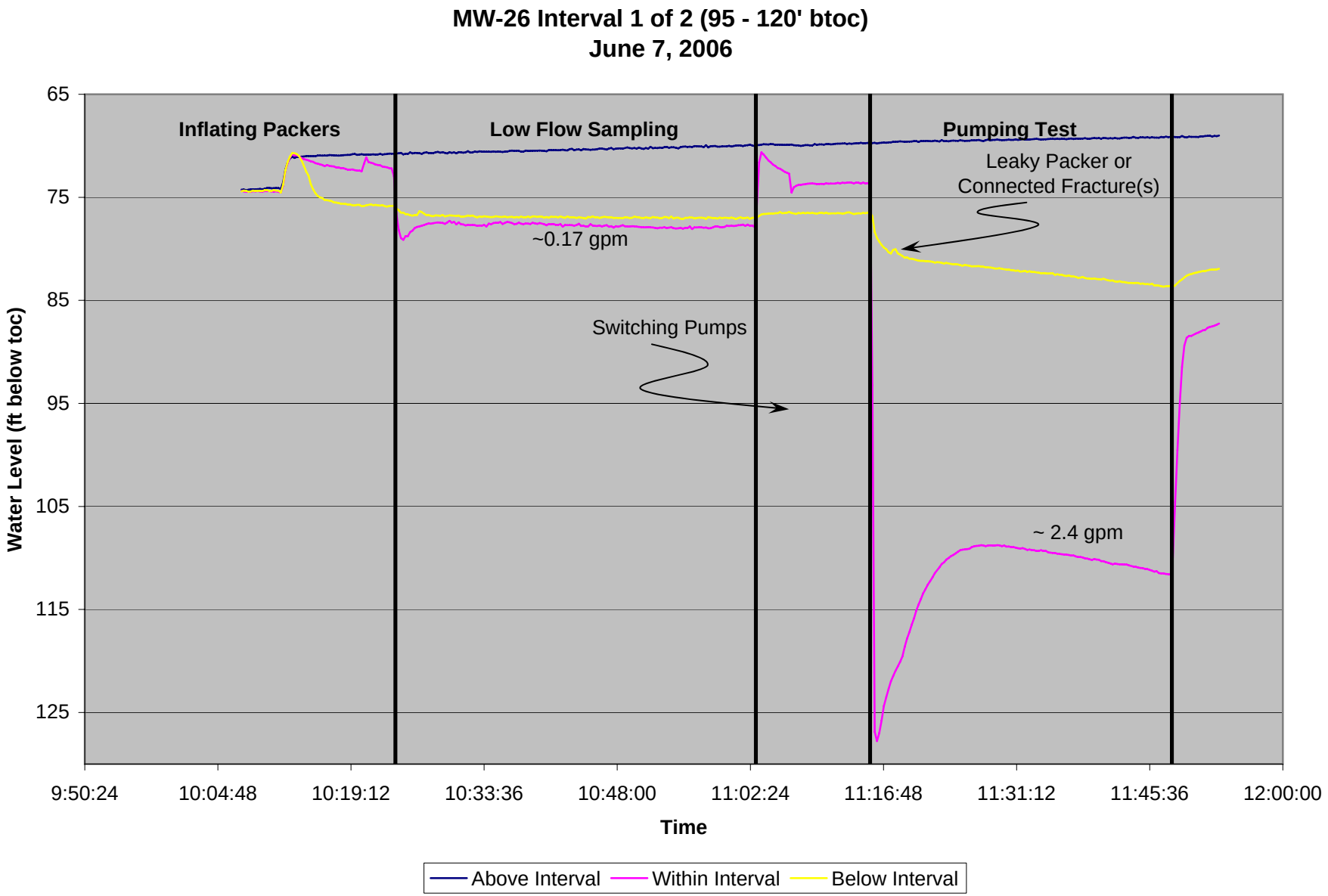

MW-13 Interval 1 of 3 (Static - 115' btoc)
May 24, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.15 gpm
no rate given
Zone
Dewatered
Water Depth (ft below toc)
92
94
96
98
100
102
104
106
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
12:14:24
Time
Within Interval
Below Interval

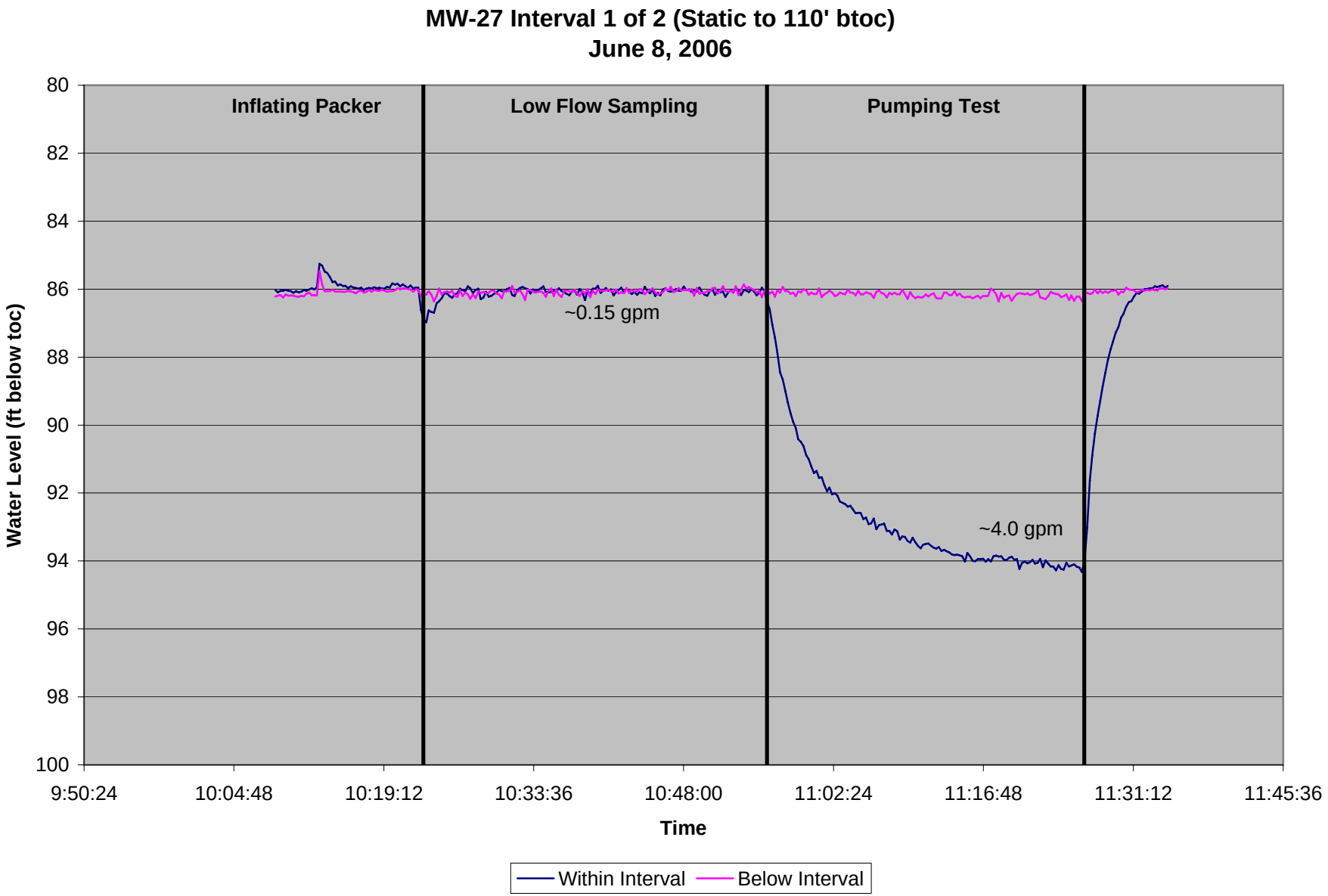

MW-13 Interval 2 of 3 (135 - 160' btoc)
May 24, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Leaky Packer or
Connected Fracture(s)
~0.16 gpm
Switching Pumps
? gpm
~ 5.6 gpm
~ 5.0 gpm
Zone Dewatered
Water Level (ft below toc)
85
95
105
115
125
135
145
155
165
13:55:12
14:24:00
14:52:48
15:21:36
15:50:24
16:19:12
16:48:00
Time
Above Interval
Within Interval
Below Interval

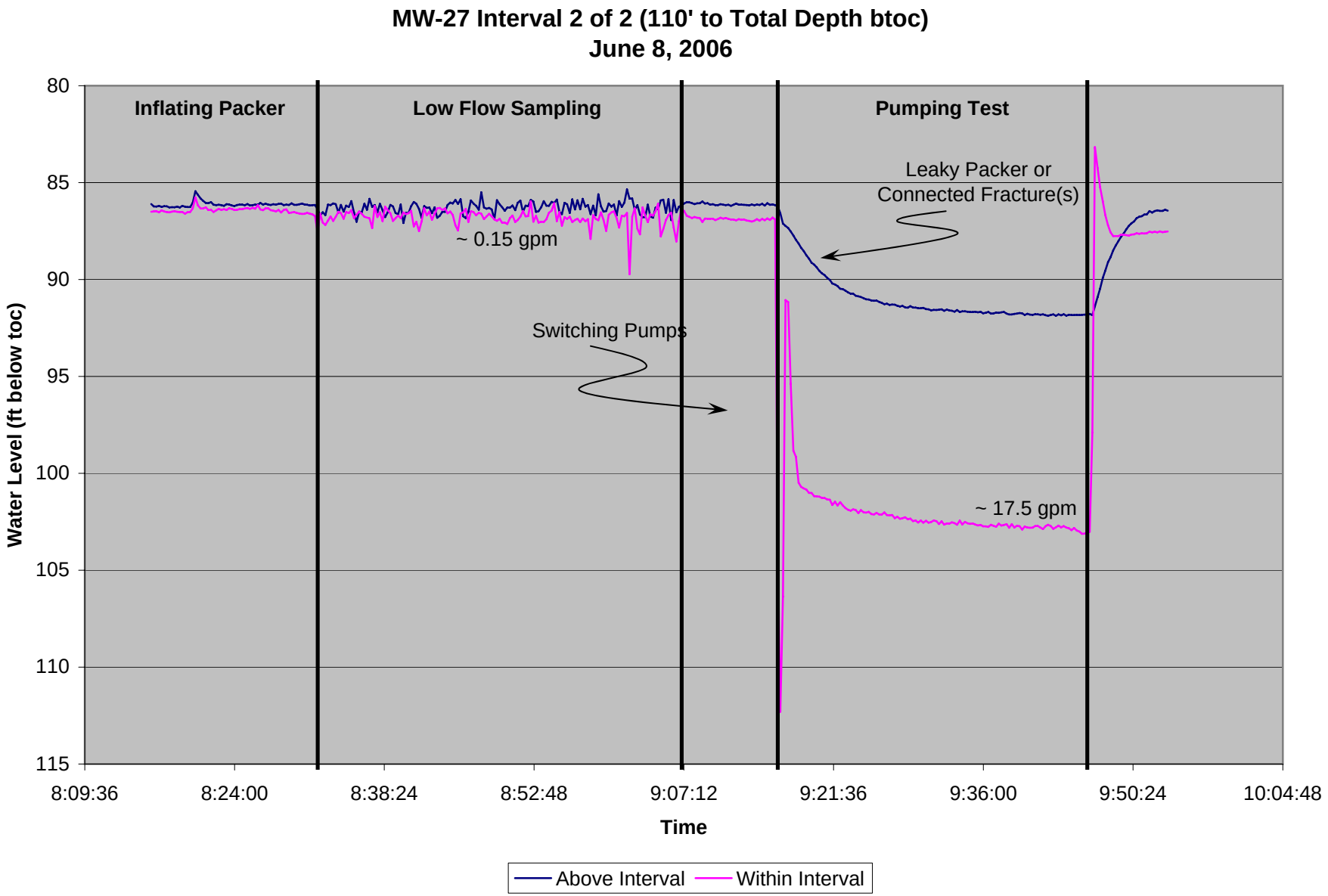

MW-16 Interval 2 of 2 (162' to Total Depth btoc)
May 26, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
~0.12 gpm
~1.0 gpm
~1.2 gpm
~1.3 gpm
Water Level (ft below toc)
70
80
90
100
110
120
130
140
13:55:12
14:09:36
14:24:00
14:38:24
14:52:48
15:07:12
15:21:36
15:36:00
15:50:24
16:04:48
Time
Above Interval
Within Interval

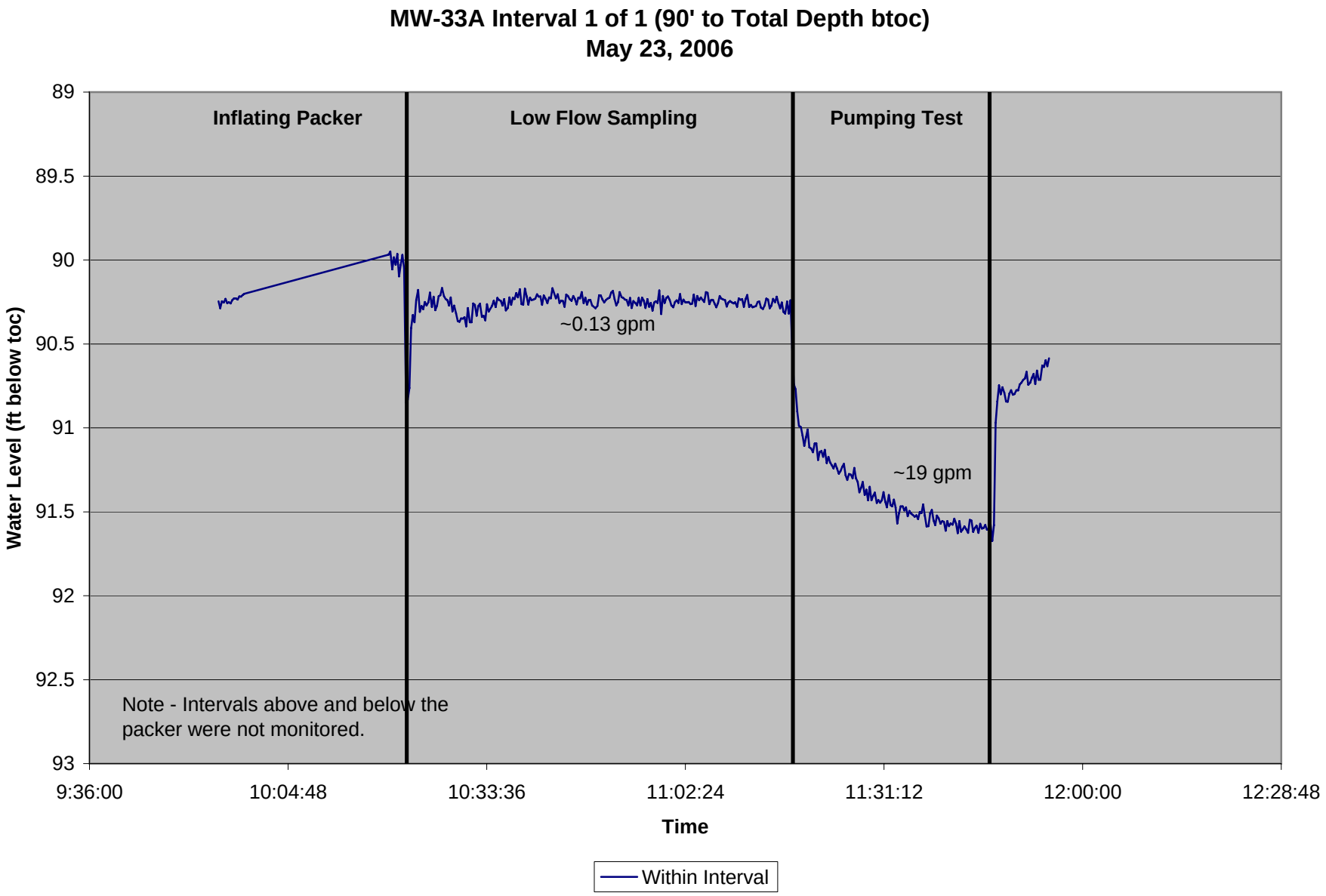

MW-16 Interval 1 of 2 (110 to 135' btoc)
May 30, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Not enough water
for Grundfos, switching
to submersible
Zone
Dewatered
~0.9 gpm
Water Level (ft below toc)
80
90
100
110
120
130
140
150
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
13:12:00
13:26:24
13:40:48
13:55:12
14:09:36
Time
Above Interval
Within Interval
Below Interval

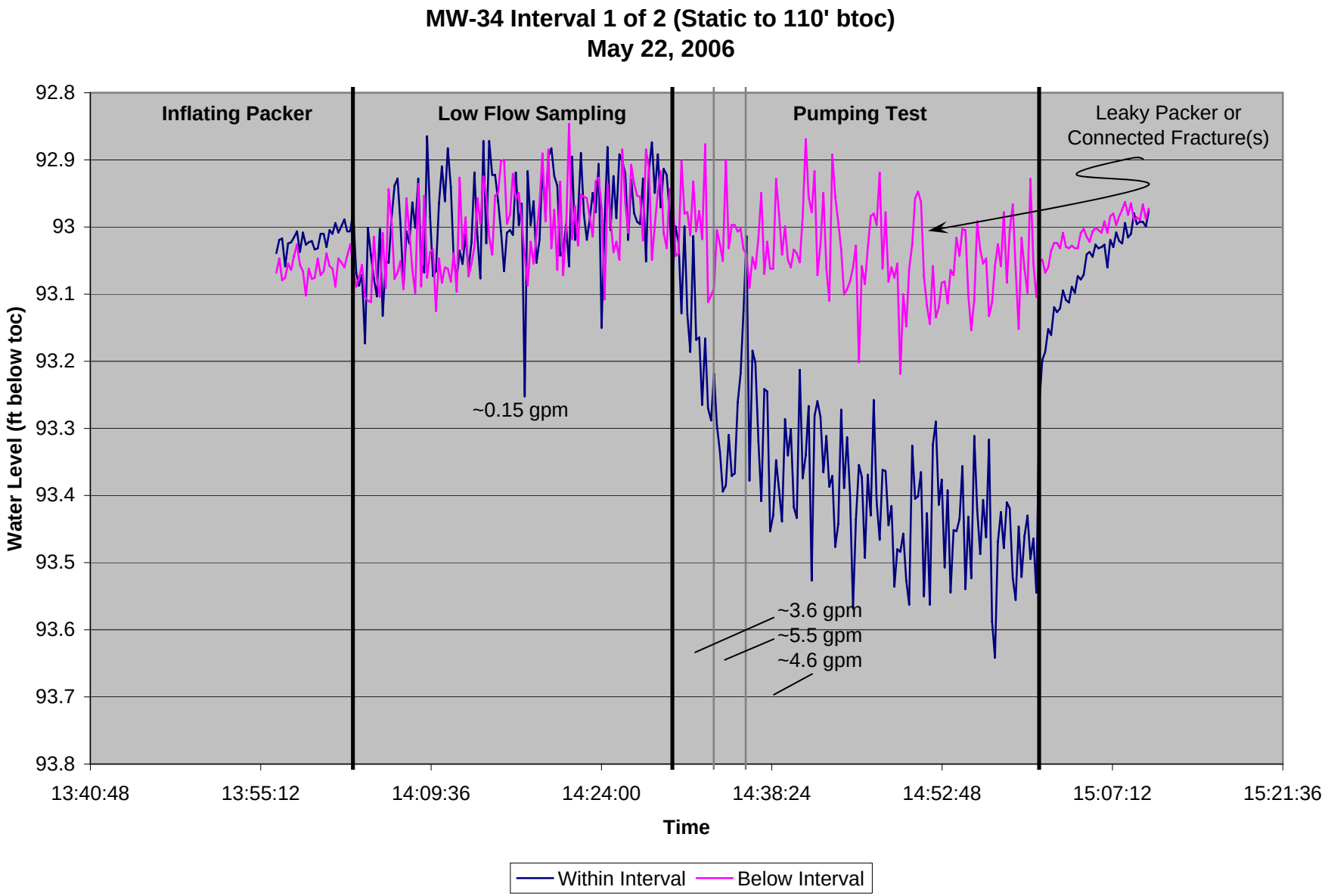

MW-26 Interval 2 of 2 (117' to Total Depth btoc)
June 7, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.15 gpm
~0.50 gpm
Water Level (ft below toc)
65
70
75
80
85
90
95
100
105
7:26:24
7:40:48
7:55:12
8:09:36
8:24:00
8:38:24
8:52:48
9:07:12
9:21:36
9:36:00
9:50:24
Time
Above Interval
Within Interval

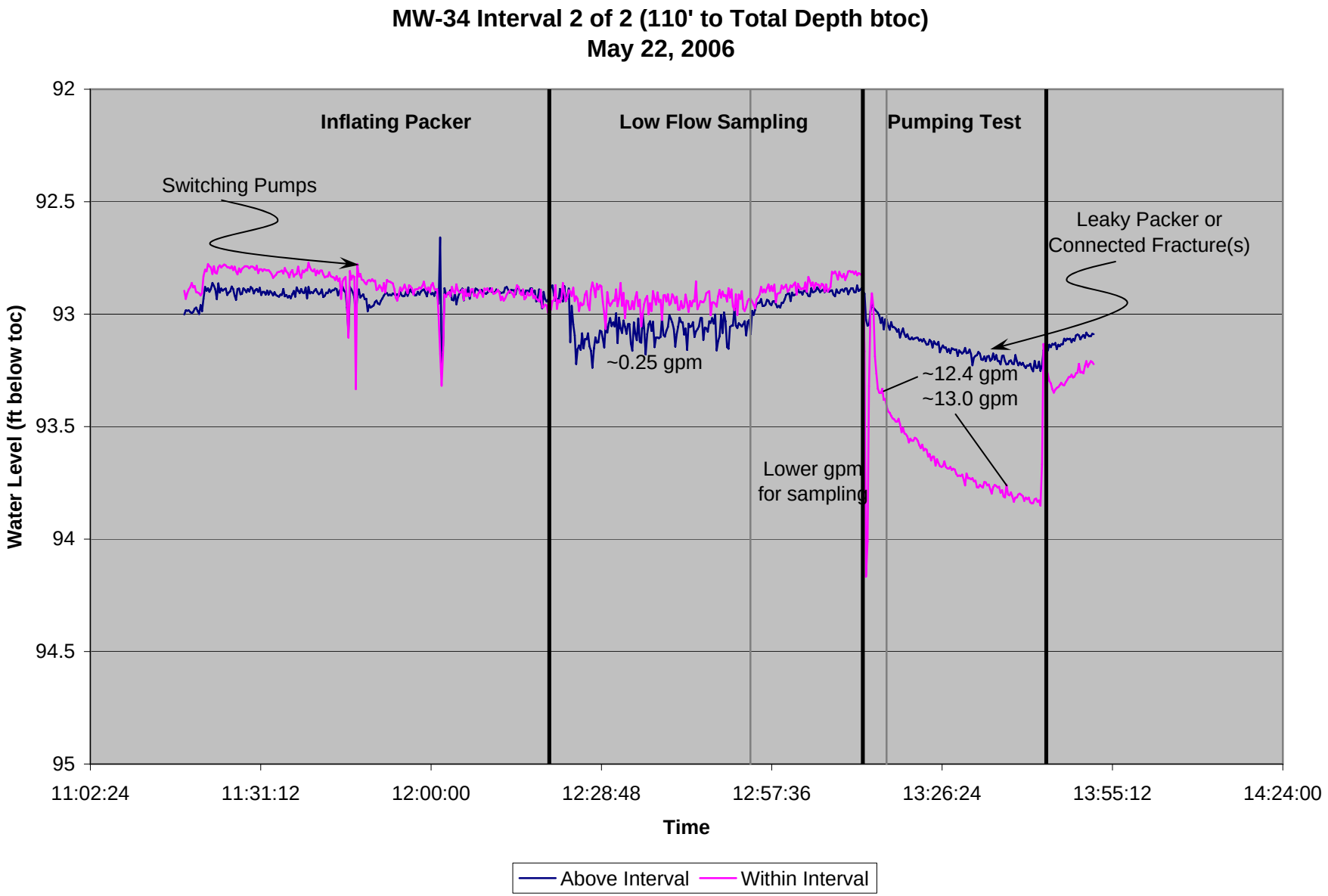

MW-26 Interval 1 of 2 (95 - 120' btoc)
June 7, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Leaky Packer or
Connected Fracture(s)
~0.17 gpm
Switching Pumps
~ 2.4 gpm
Water Level (ft below toc)
65
75
85
95
105
115
125
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
Time
Above Interval
Within Interval
Below Interval

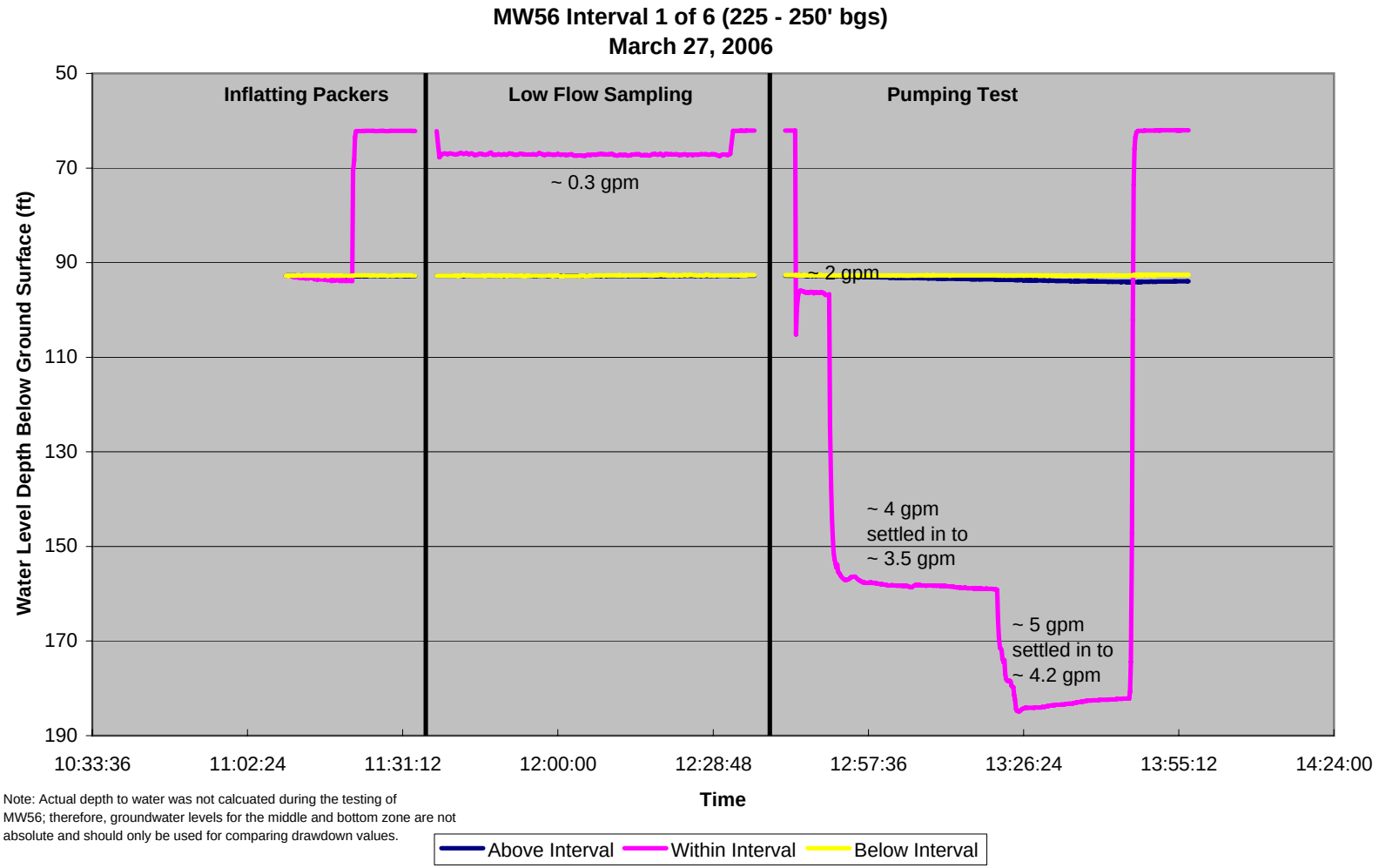

MW-27 Interval 1 of 2 (Static to 110' btoc)
June 8, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.15 gpm
~4.0 gpm
Water Level (ft below toc)
80
82
84
86
88
90
92
94
96
98
100
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
Time
Within Interval
Below Interval


MW-27 Interval 2 of 2 (110' to Total Depth btoc)
June 8, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
Leaky Packer or
Connected Fracture(s)
~ 0.15 gpm
Switching Pumps
~ 17.5 gpm
Water Level (ft below toc)
80
85
90
95
100
105
110
115
8:09:36
8:24:00
8:38:24
8:52:48
9:07:12
9:21:36
9:36:00
9:50:24
10:04:48
Time
Above Interval
Within Interval

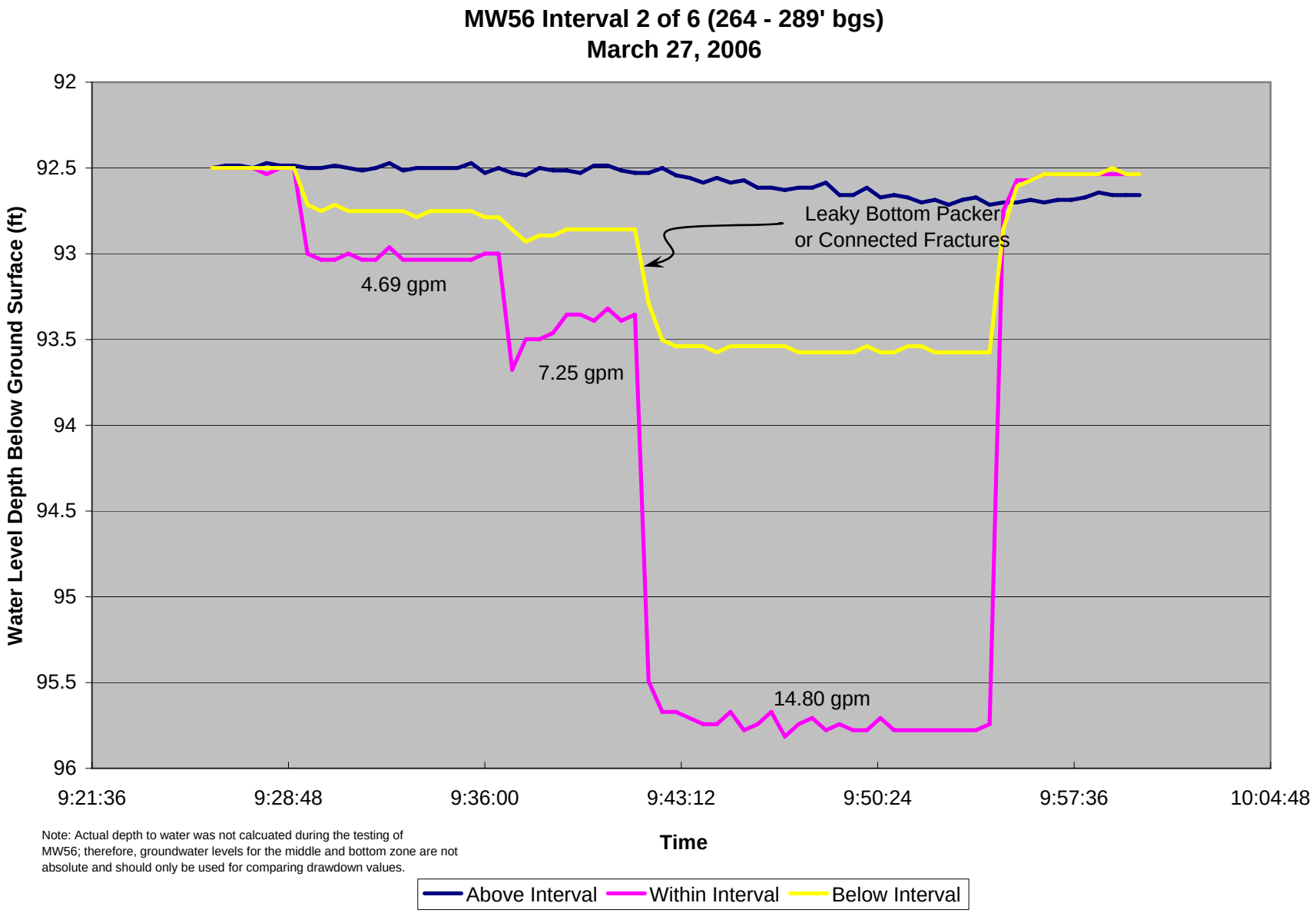

MW-33A Interval 1 of 1 (90' to Total Depth btoc)
May 23, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.13 gpm
~19 gpm
Note - Intervals above and below the packer were not monitored.
Water Level (ft below toc)
89
89.5
90
90.5
91
91.5
92
92.5
93
9:36:00
10:04:48
10:33:36
11:02:24
11:31:12
12:00:00
12:28:48
Time
Within Interval


MW-34 Interval 1 of 2 (Static to 110' btoc)
May 22, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
Leaky Packer or
Connected Fracture(s)
~0.15 gpm
~3.6 gpm
~5.5 gpm
~4.6 gpm
Water Level (ft below toc)
92.8
92.9
93
93.1
93.2
93.3
93.4
93.5
93.6
93.7
93.8
13:40:48
13:55:12
14:09:36
14:24:00
14:38:24
14:52:48
15:07:12
15:21:36
Time
Within Interval
Below Interval

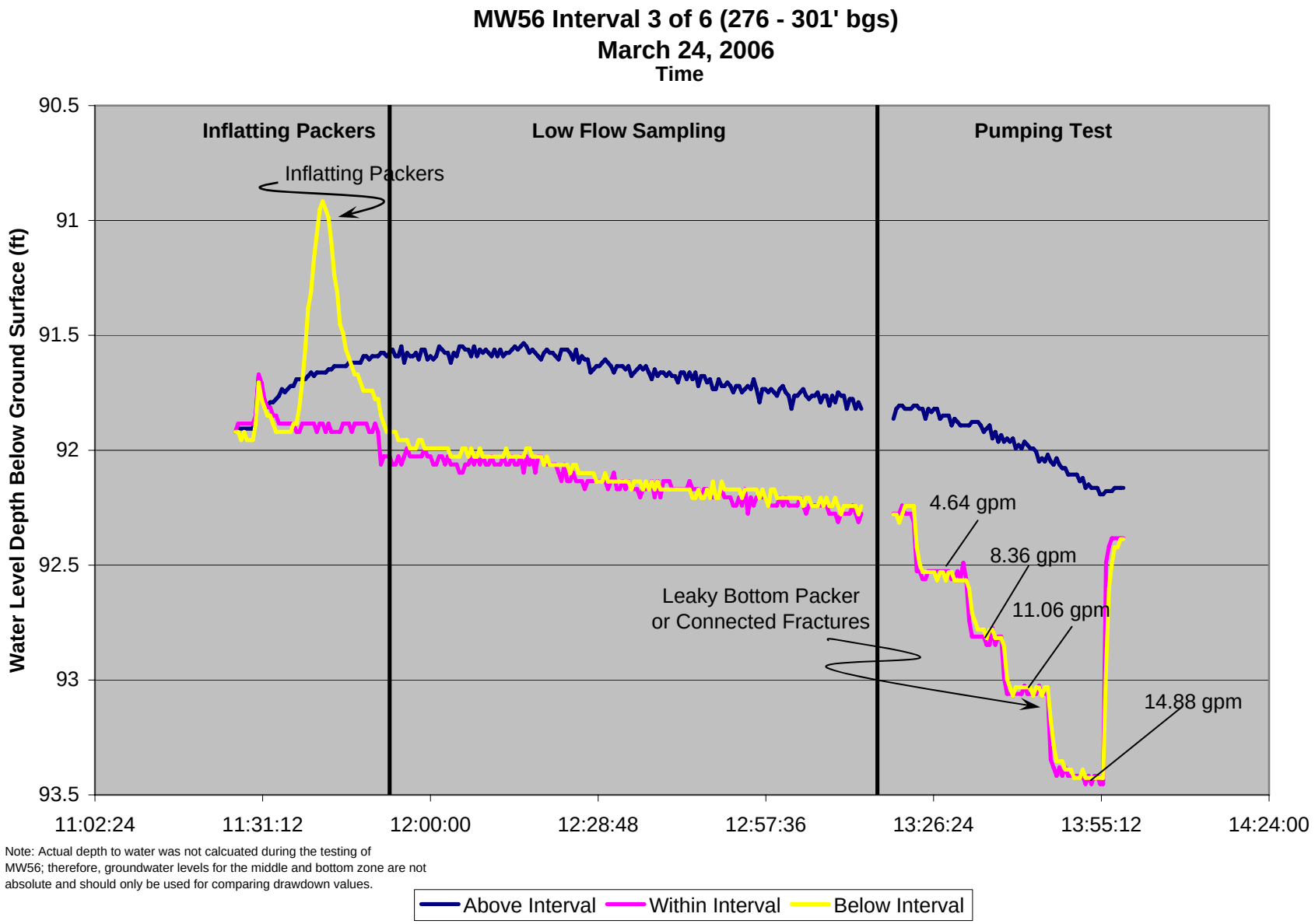

MW-34 Interval 2 of 2 (110' to Total Depth btoc)
May 22, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
Switching Pumps
Leaky Packer or
Connected Fracture(s)
~0.25 gpm
~12.4 gpm
~13.0 gpm
Lower gpm
for sampling
Water Level (ft below toc)
92
92.5
93
93.5
94
94.5
95
11:02:24
11:31:12
12:00:00
12:28:48
12:57:36
13:26:24
13:55:12
14:24:00
Time
Above Interval
Within Interval



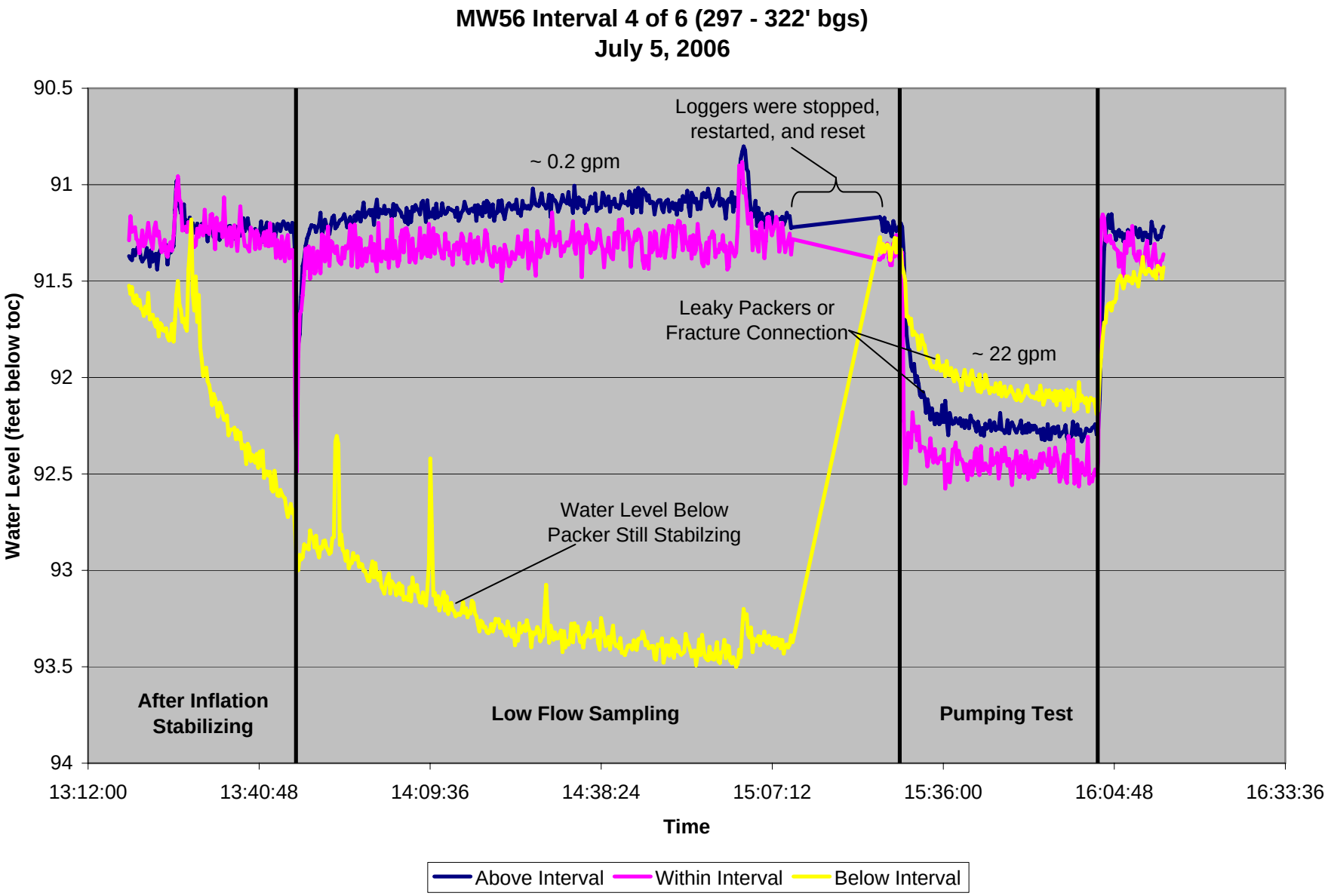
Note: Actual depth to water was not calcuated during the testing of MW56; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

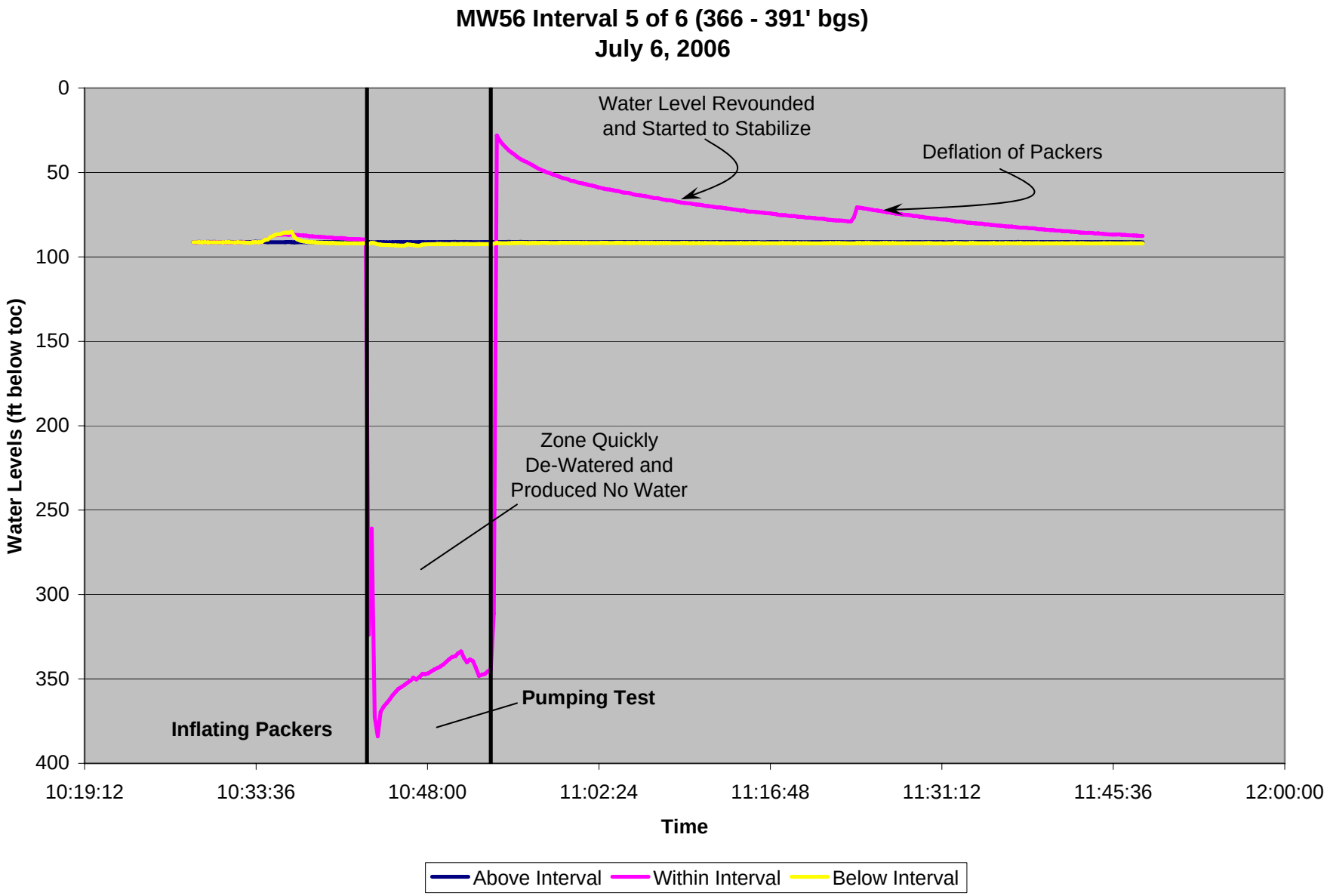


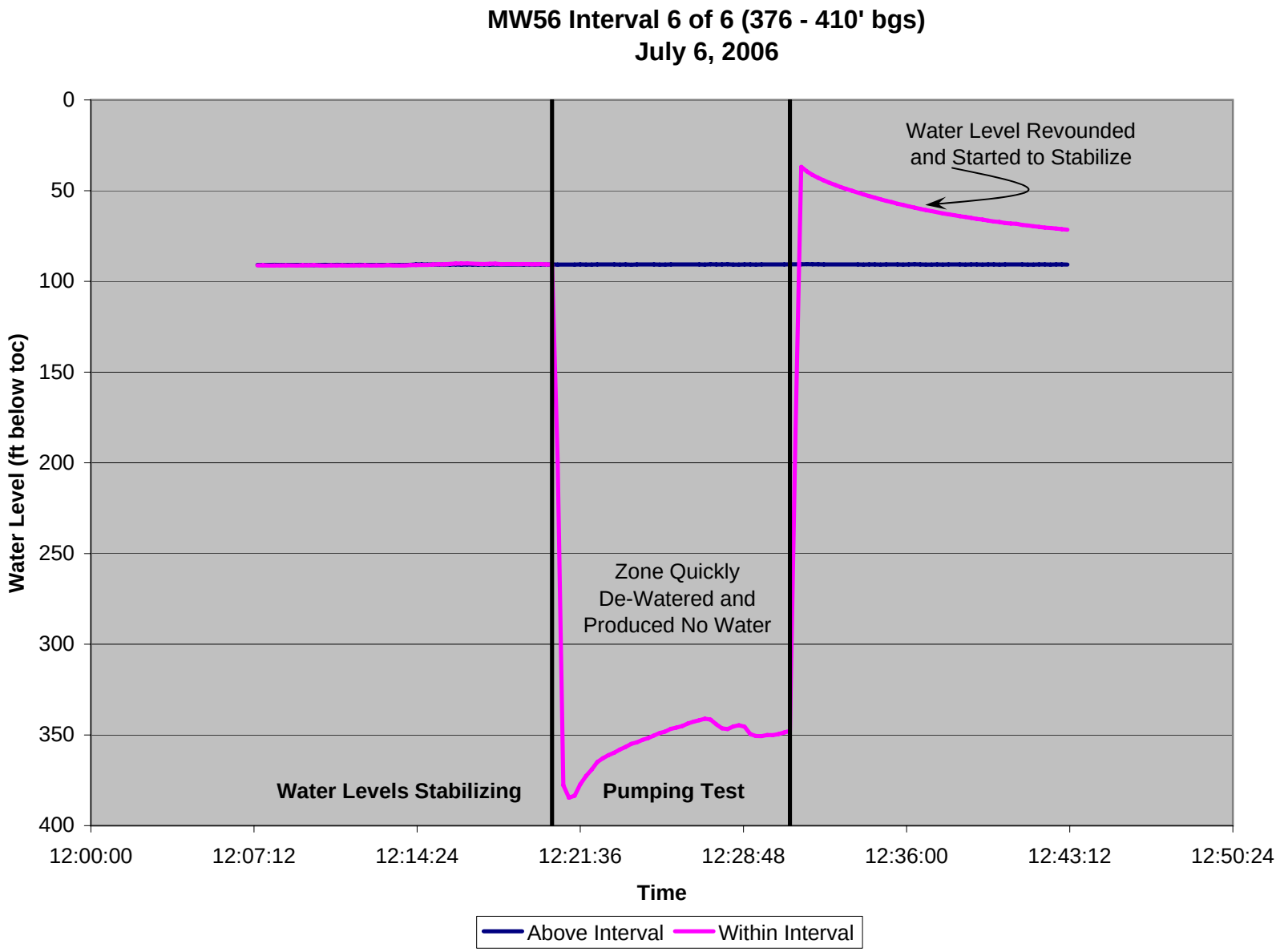
Note: Actual depth to water was not calcuated during the testing of MW56; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.



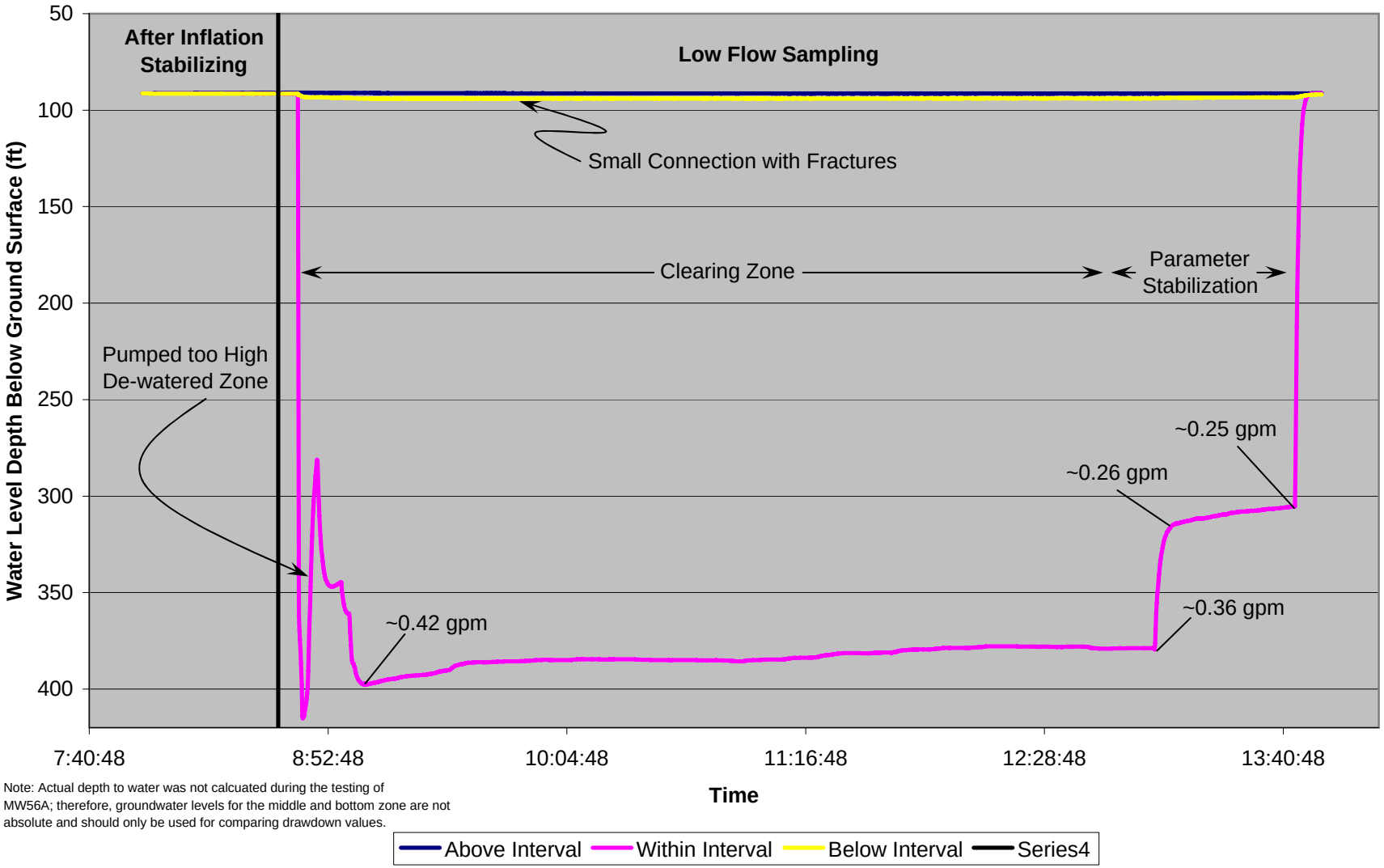
Note: Actual depth to water was not calcuated during the testing of MW56; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.


MW56 Interval 4 of 6 (297 - 322' bgs)
July 5, 2006
Loggers were stopped, restarted, and reset
~ 0.2 gpm
Leaky Packers or Fracture Connection
~ 22 gpm
Water Level Below Packer Still Stabilzing
After Inflation Stabilizing
Low Flow Sampling
Pumping Test
Water Level (feet below toc)
90.5
91
91.5
92
92.5
93
93.5
94
13:12:00
13:40:48
14:09:36
14:38:24
15:07:12
15:36:00
16:04:48
16:33:36
Time
Above Interval
Within Interval
Below Interval


MW56 Interval 5 of 6 (366 - 391' bgs)
July 6, 2006
Water Level Revounded
and Started to Stabilize
Deflation of Packers
Zone Quickly
De-Watered and
Produced No Water
Pumping Test
Inflating Packers
Water Levels (ft below toc)
0
50
100
150
200
250
300
350
400
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
Time
Above Interval
Within Interval
Below Interval

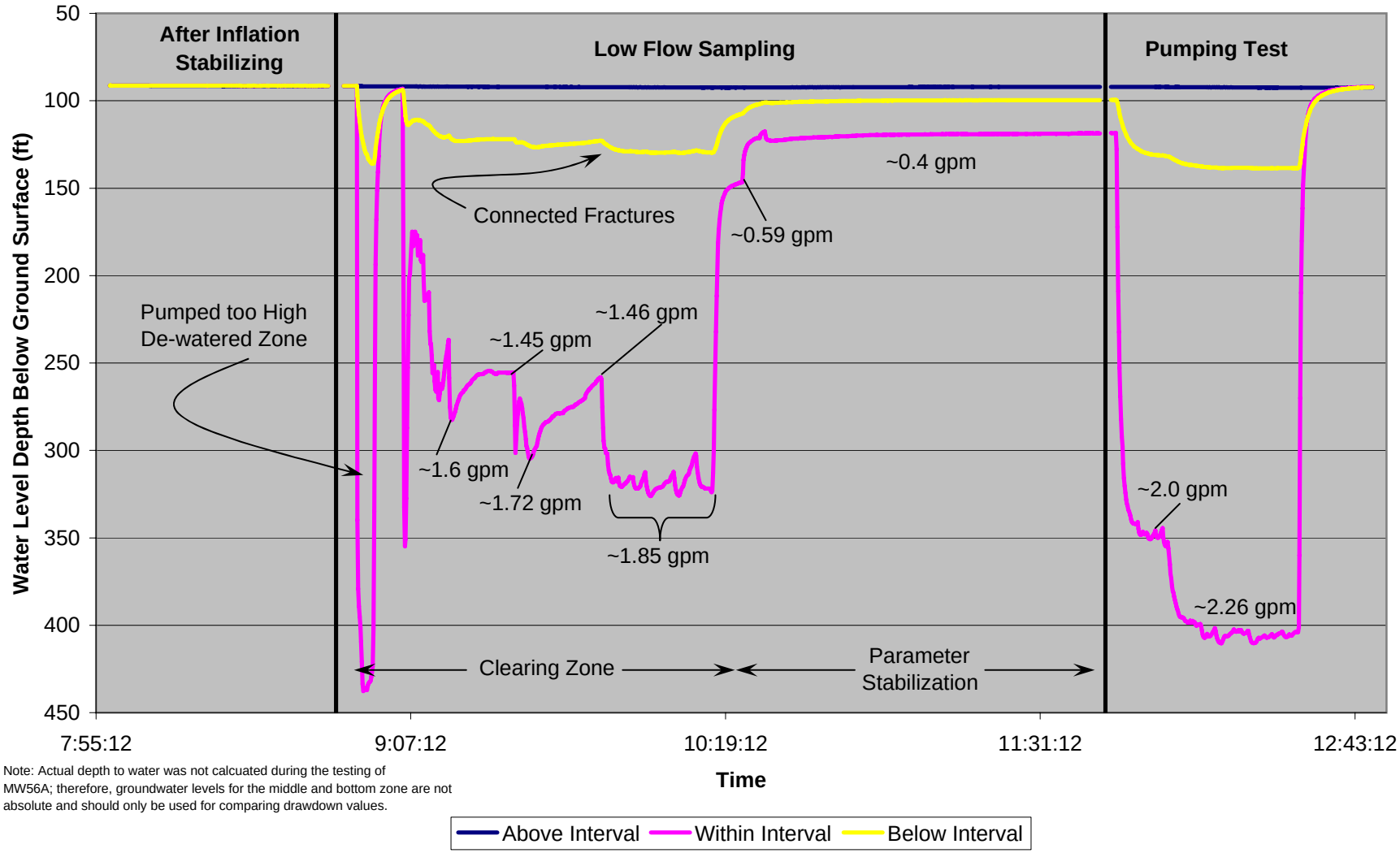

MW56 Interval 6 of 6 (376 - 410' bgs)
July 6, 2006
Water Level (ft below toc)
0
50
100
150
200
250
300
350
400
12:00:00
12:07:12
12:14:24
12:21:36
12:28:48
12:36:00
12:43:12
12:50:24
Time
Water Level Revounded and Started to Stabilize
Zone Quickly De-Watered and Produced No Water
Water Levels Stabilizing
Pumping Test
Above Interval
Within Interval

MW56A Interval 1 of 5 (427 - 552' bgs)
August 8, 2006

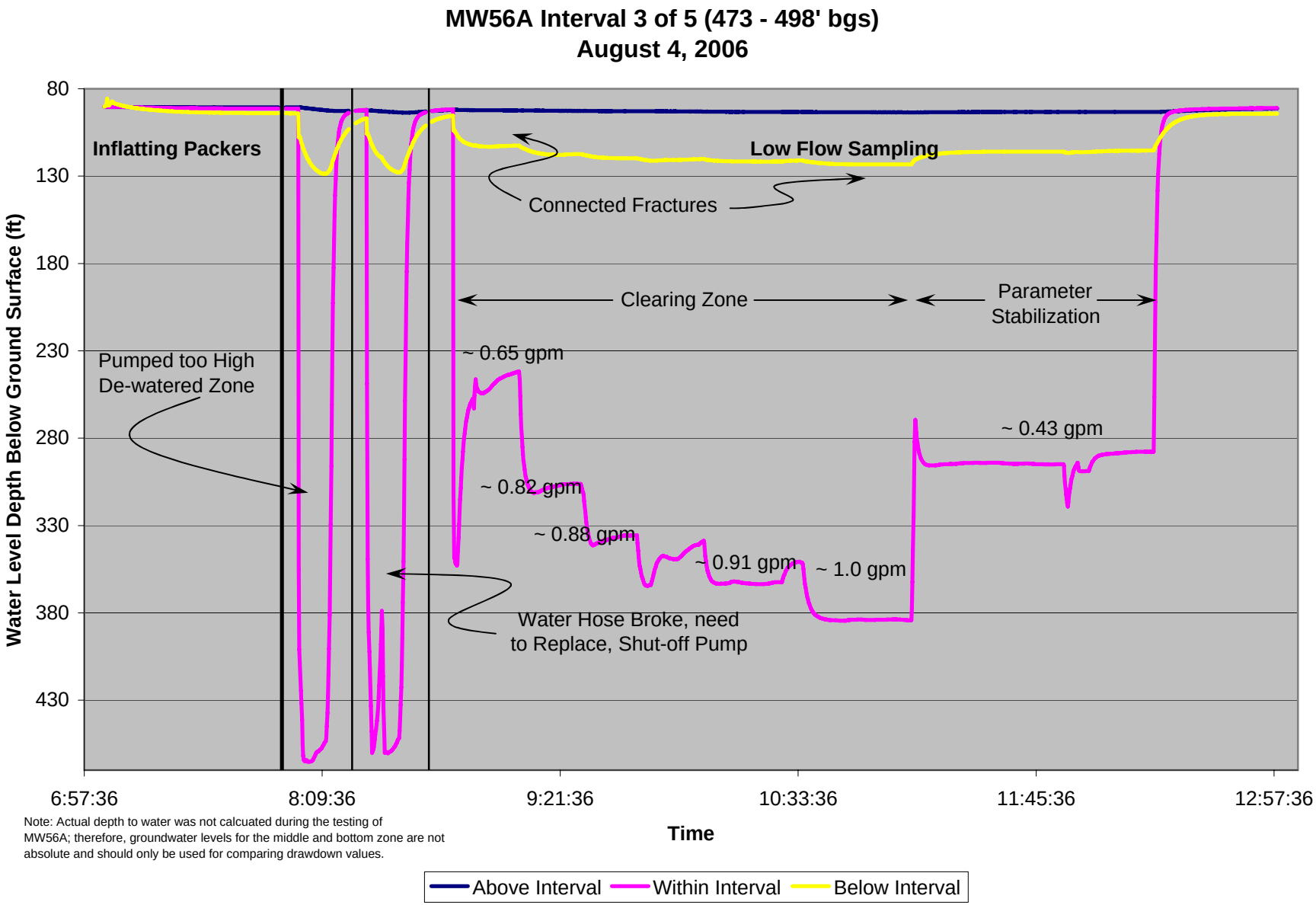


Note: Actual depth to water was not calcuated during the testing of MW56A; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

MW56A Interval 2 of 5 (445 - 470' bgs)
August 7, 2006

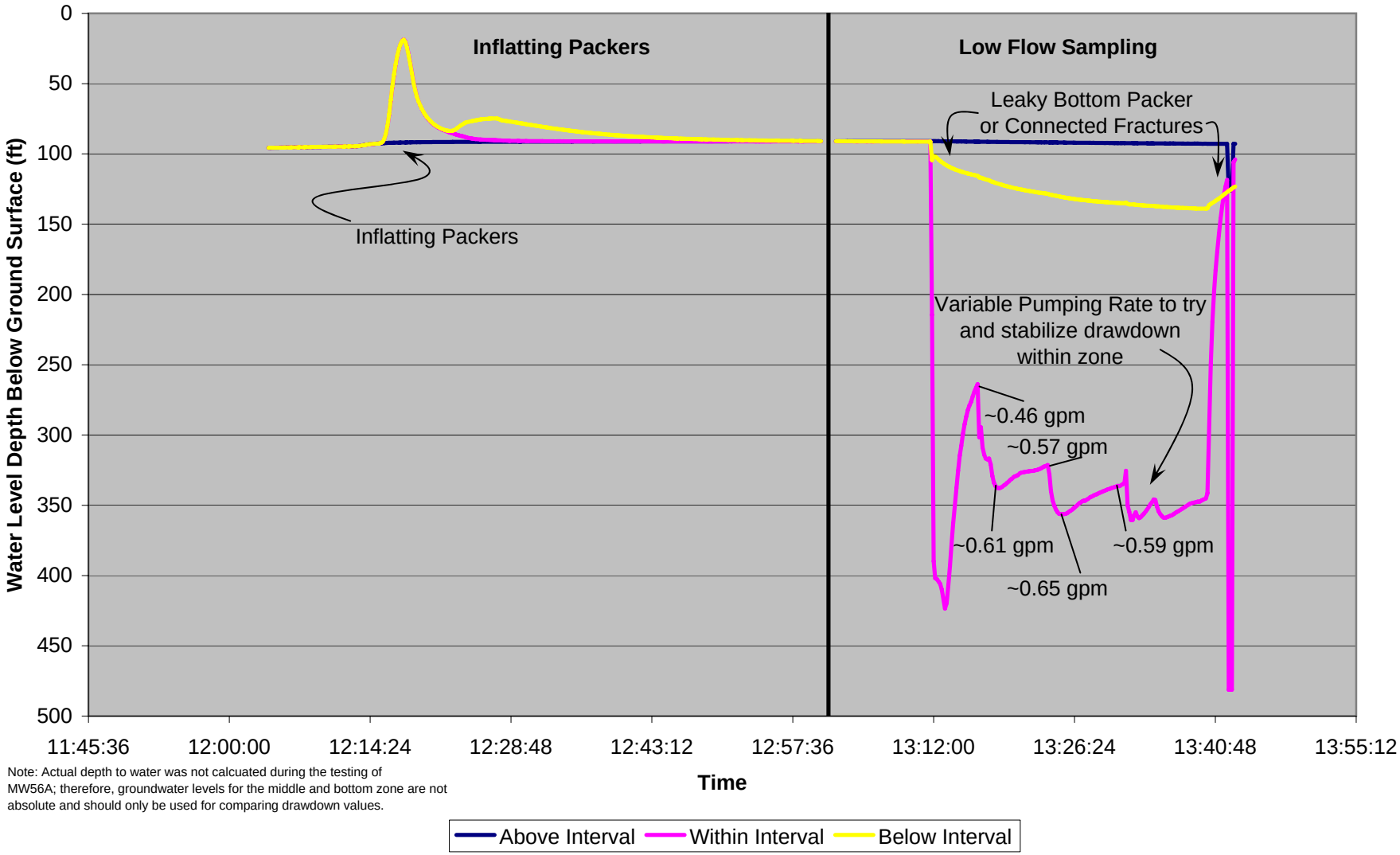


Note: Actual depth to water was not calcuated during the testing of MW56A; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

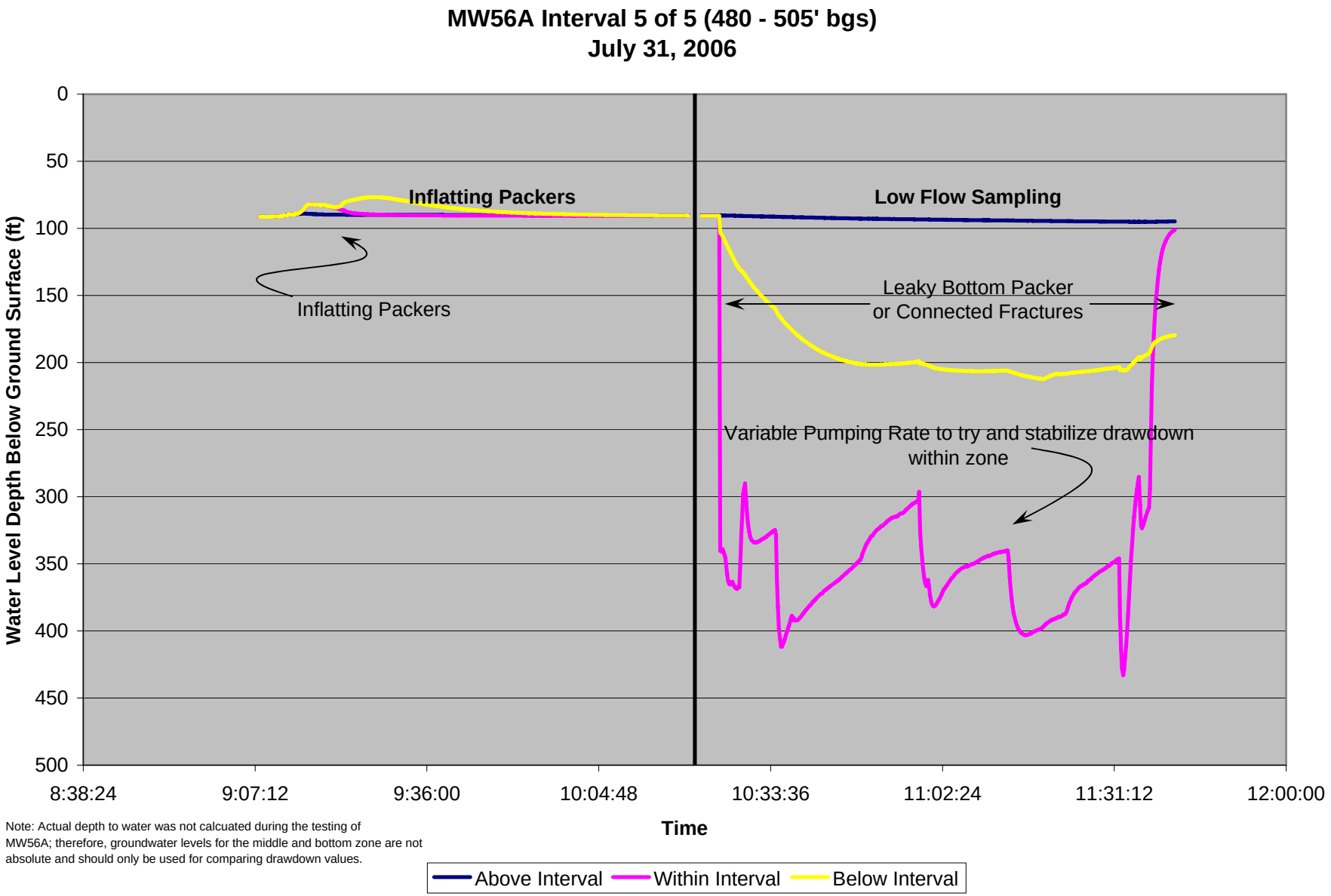


Note: Actual depth to water was not calcuated during the testing of MW56A; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

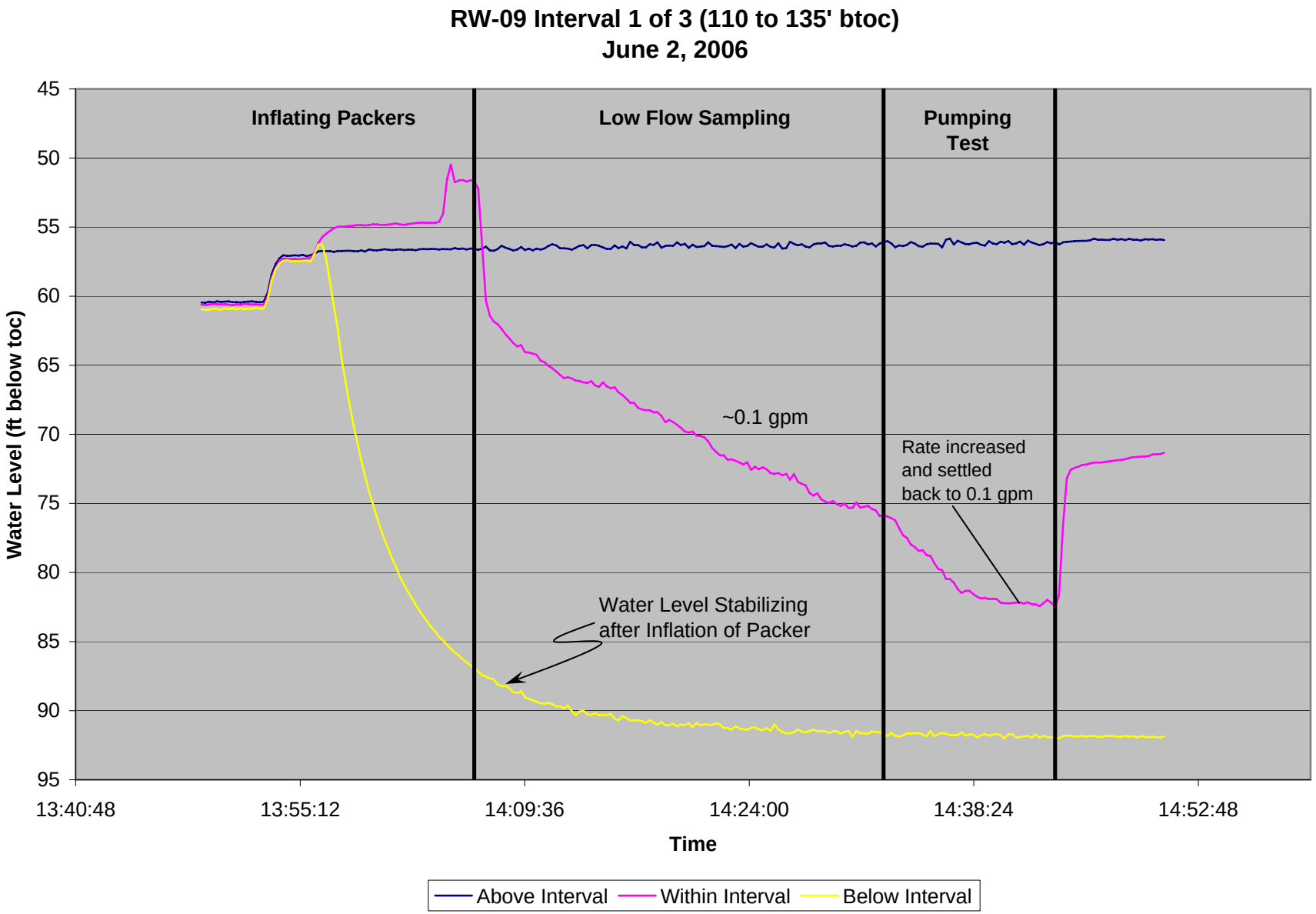
MW56A Interval 4 of 5 (477 - 502' bgs)
July 31, 2006

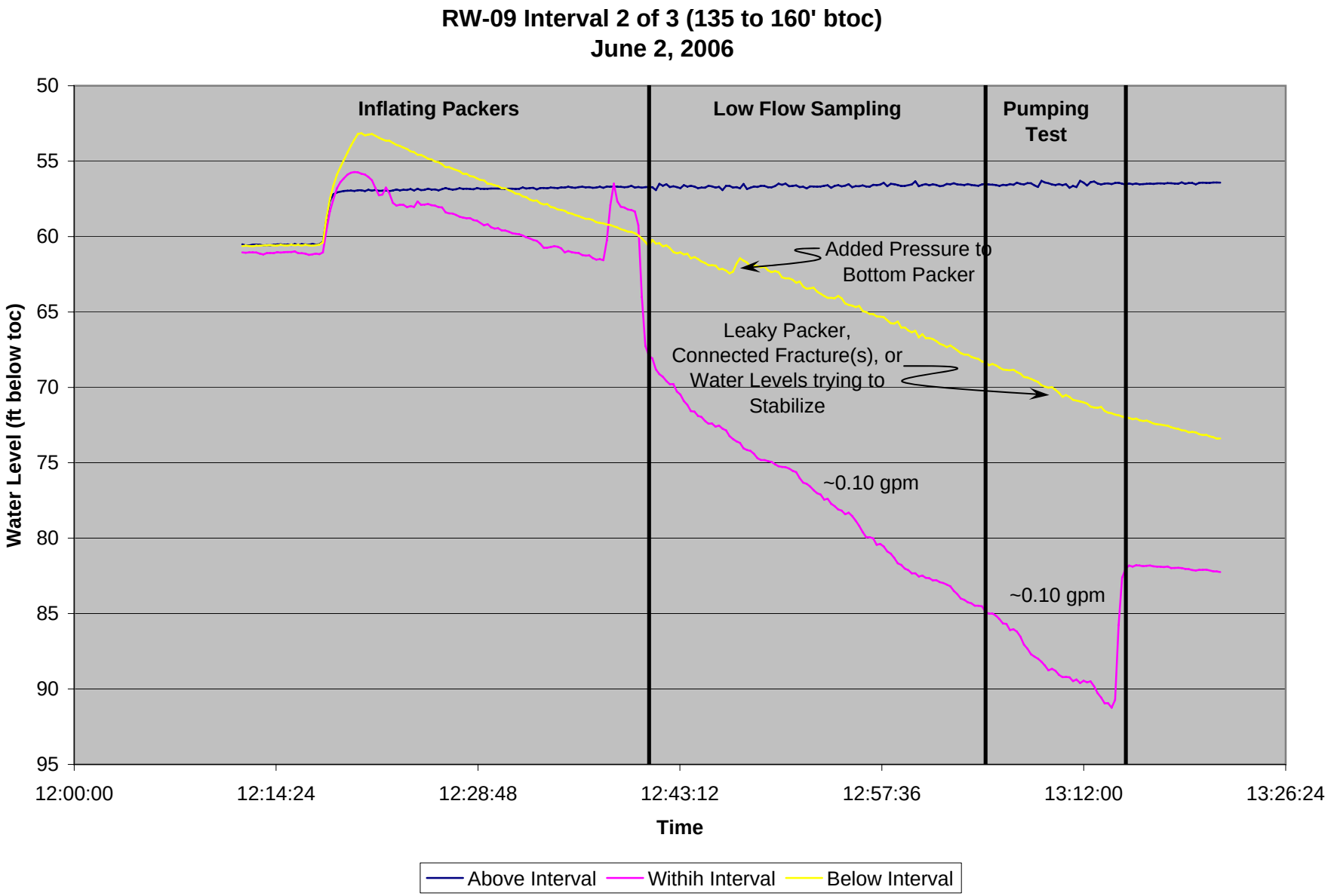


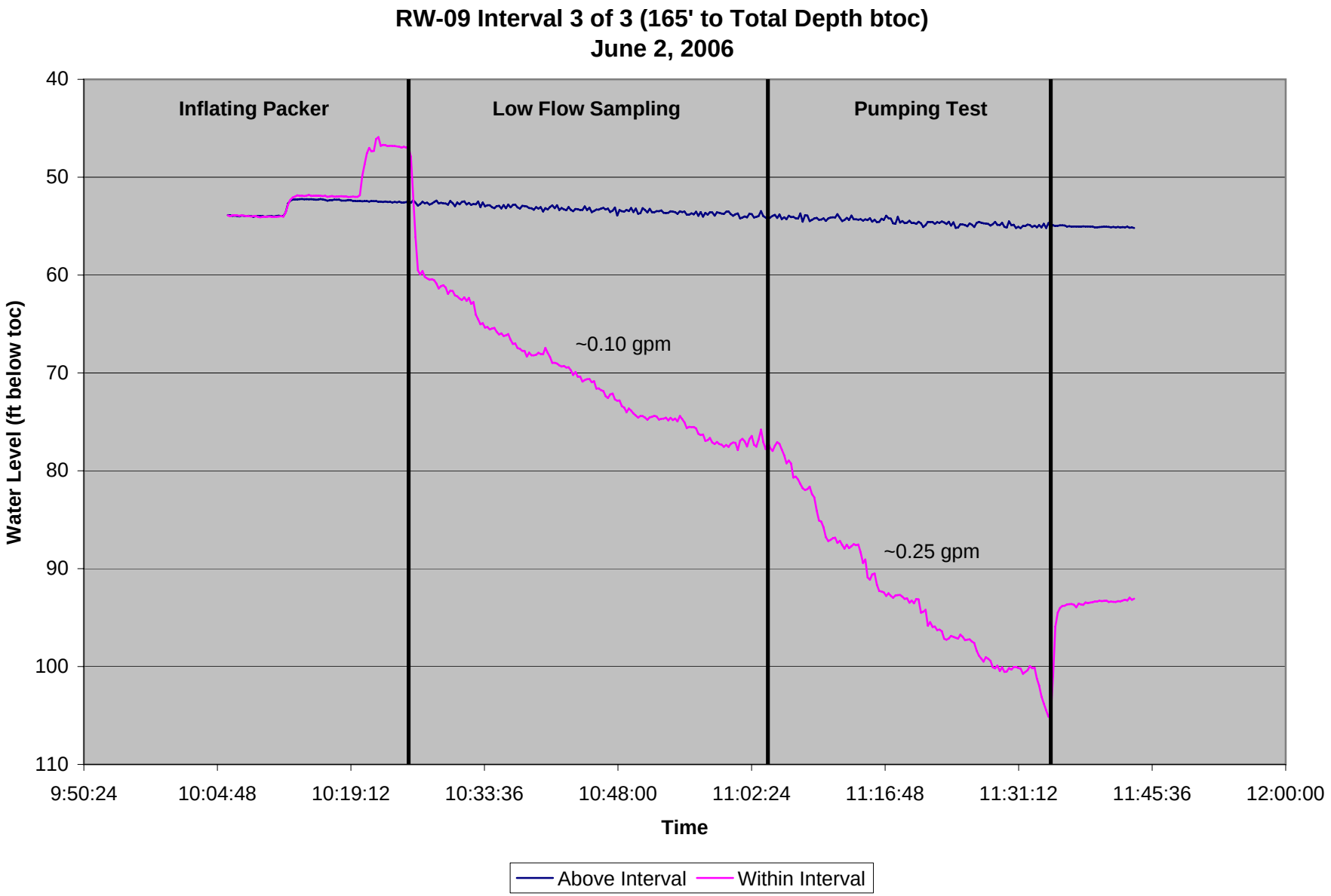
Note: Actual depth to water was not calcuated during the testing of MW56A; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

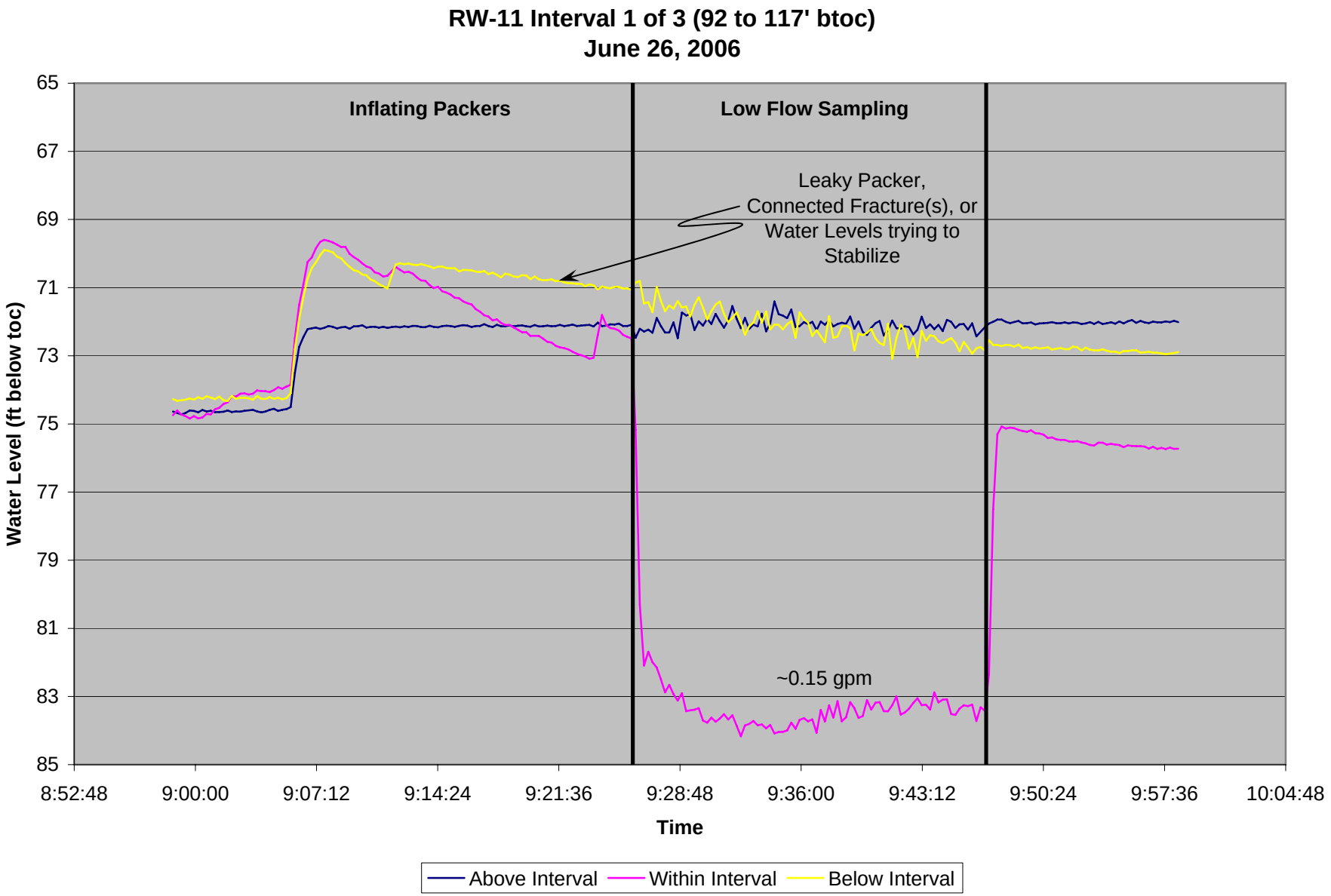


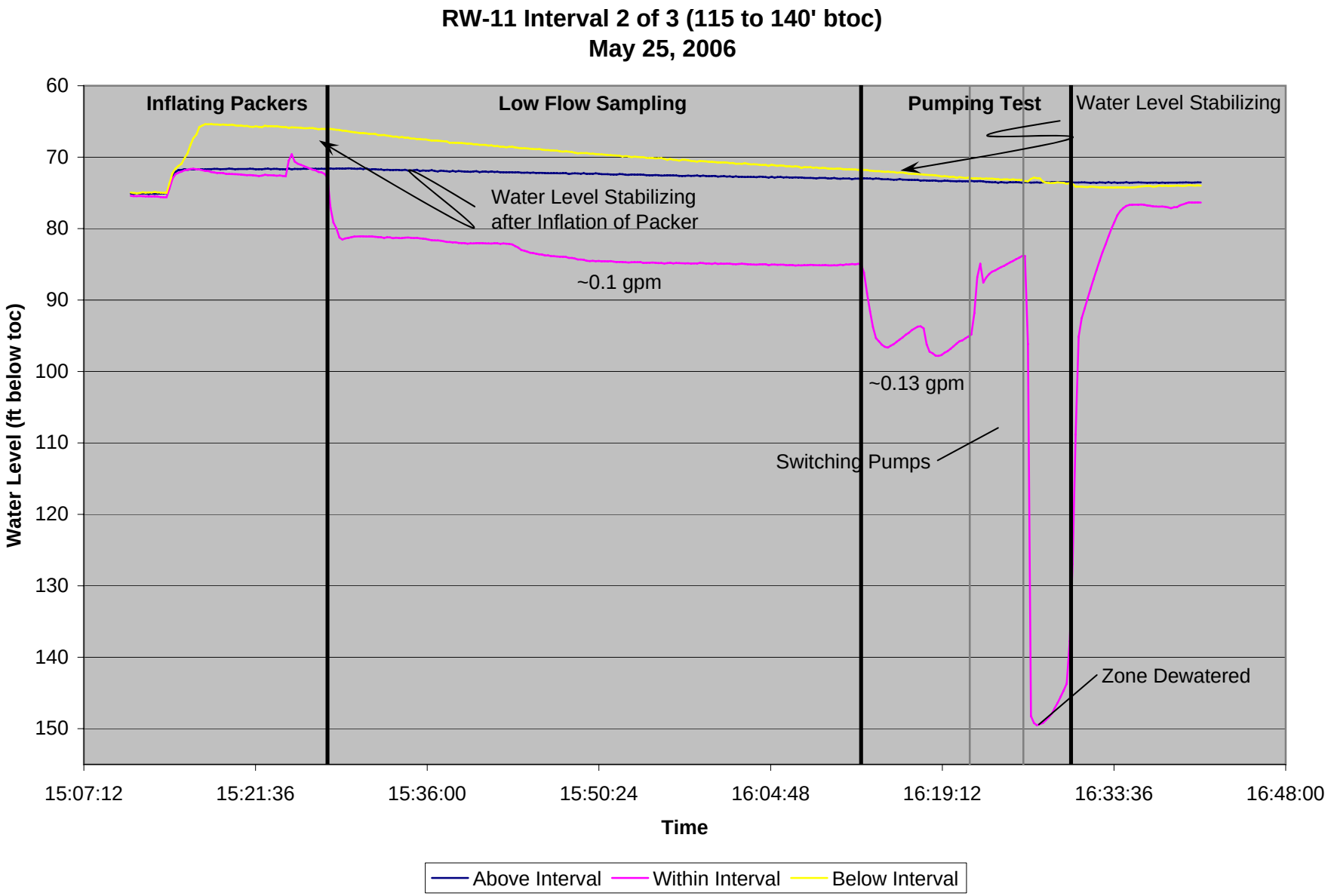
Note: Actual depth to water was not calcuated during the testing of MW56A; therefore, groundwater levels for the middle and bottom zone are not absolute and should only be used for comparing drawdown values.

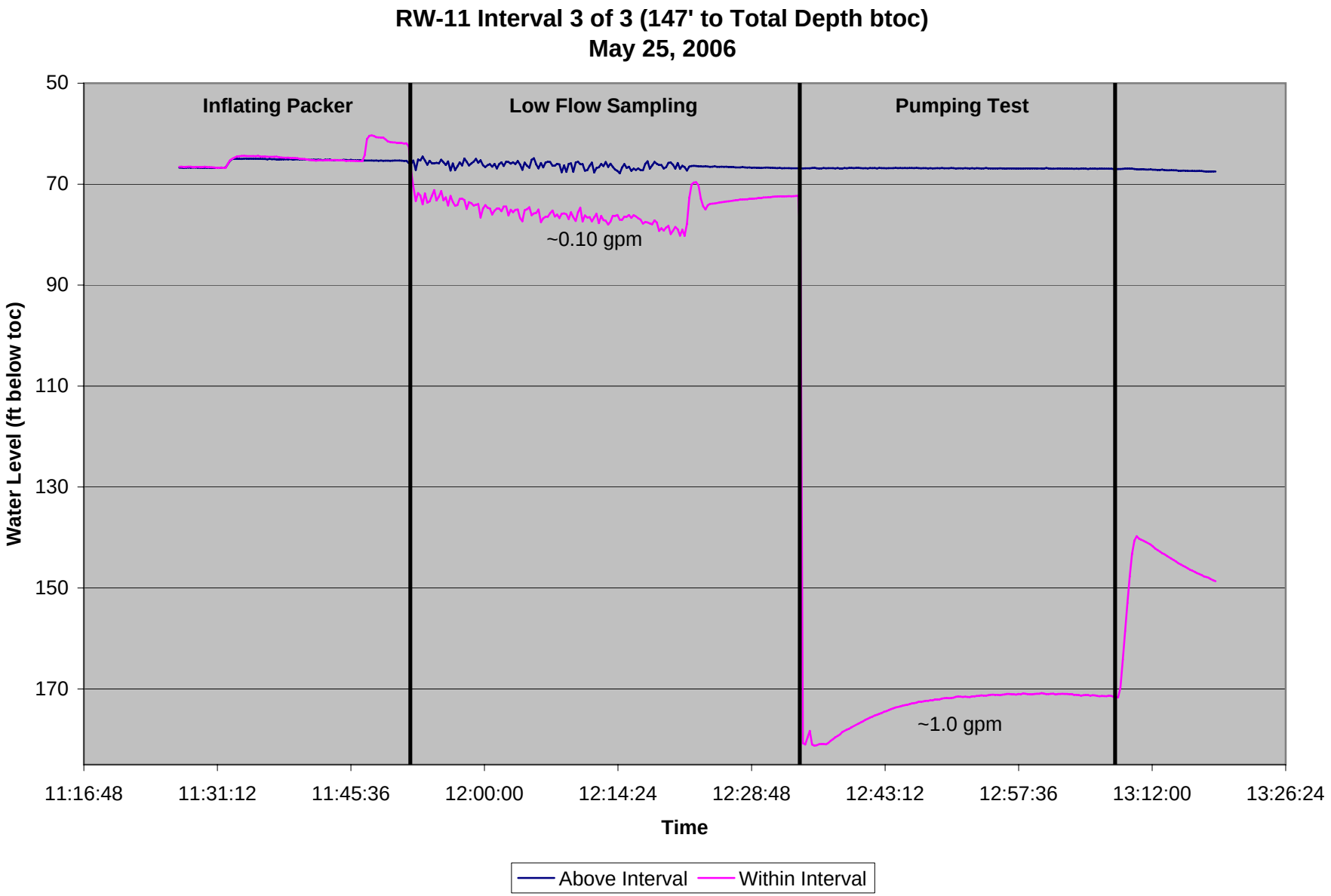

RW-09 Interval 1 of 3 (110 to 135' btoc)
June 2, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
~0.1 gpm
Rate increased and settled back to 0.1 gpm
Water Level Stabilizing after Inflation of Packer
Water Level (ft below toc)
45
50
55
60
65
70
75
80
85
90
95
13:40:48
13:55:12
14:09:36
14:24:00
14:38:24
14:52:48
Time
Above Interval
Within Interval
Below Interval

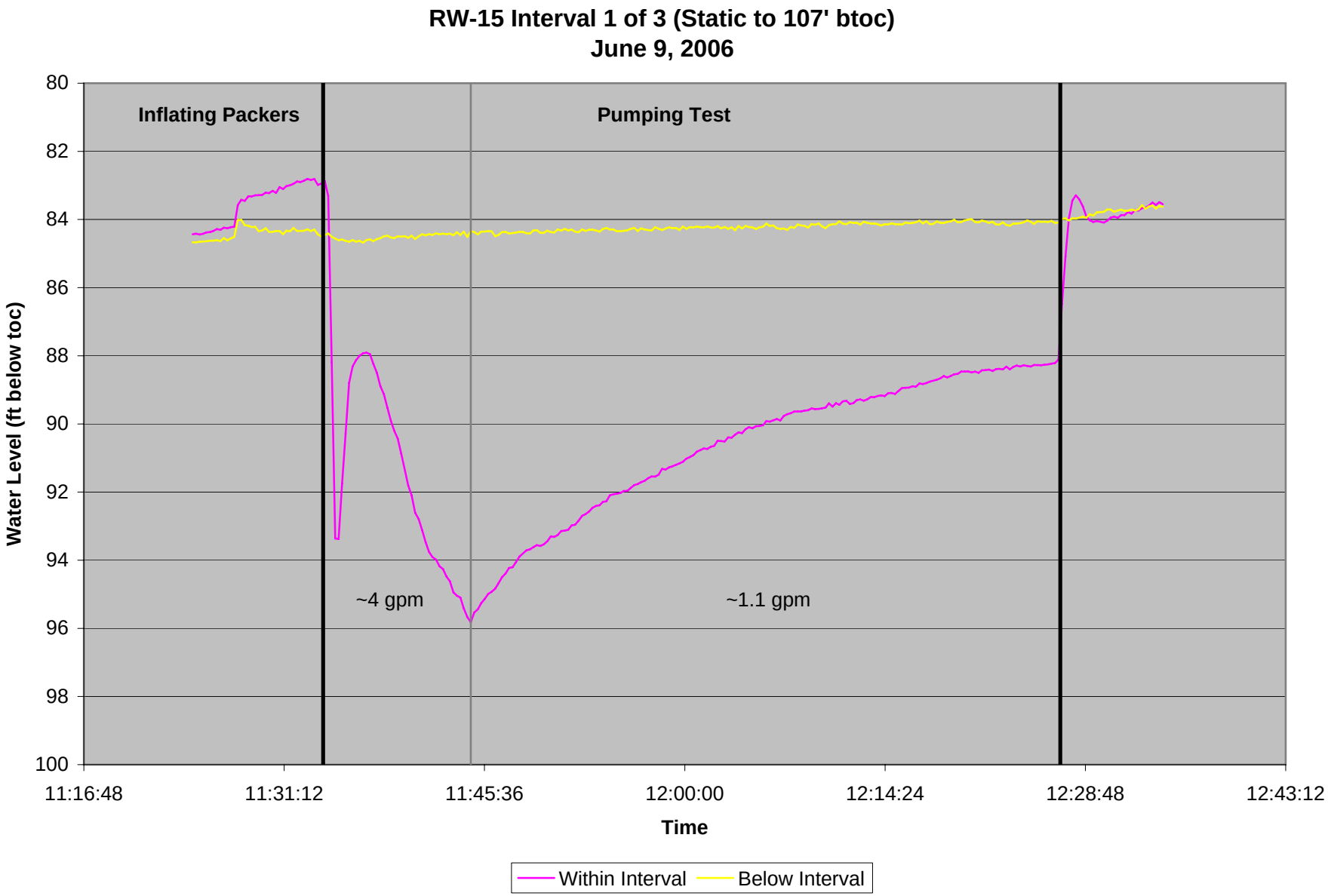

RW-09 Interval 2 of 3 (135 to 160' btoc)
June 2, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Added Pressure to Bottom Packer
Leaky Packer, Connected Fracture(s), or Water Levels trying to Stabilize
~0.10 gpm
~0.10 gpm
Water Level (ft below toc)
50
55
60
65
70
75
80
85
90
95
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
13:12:00
13:26:24
Time
Above Interval
Withih Interval
Below Interval

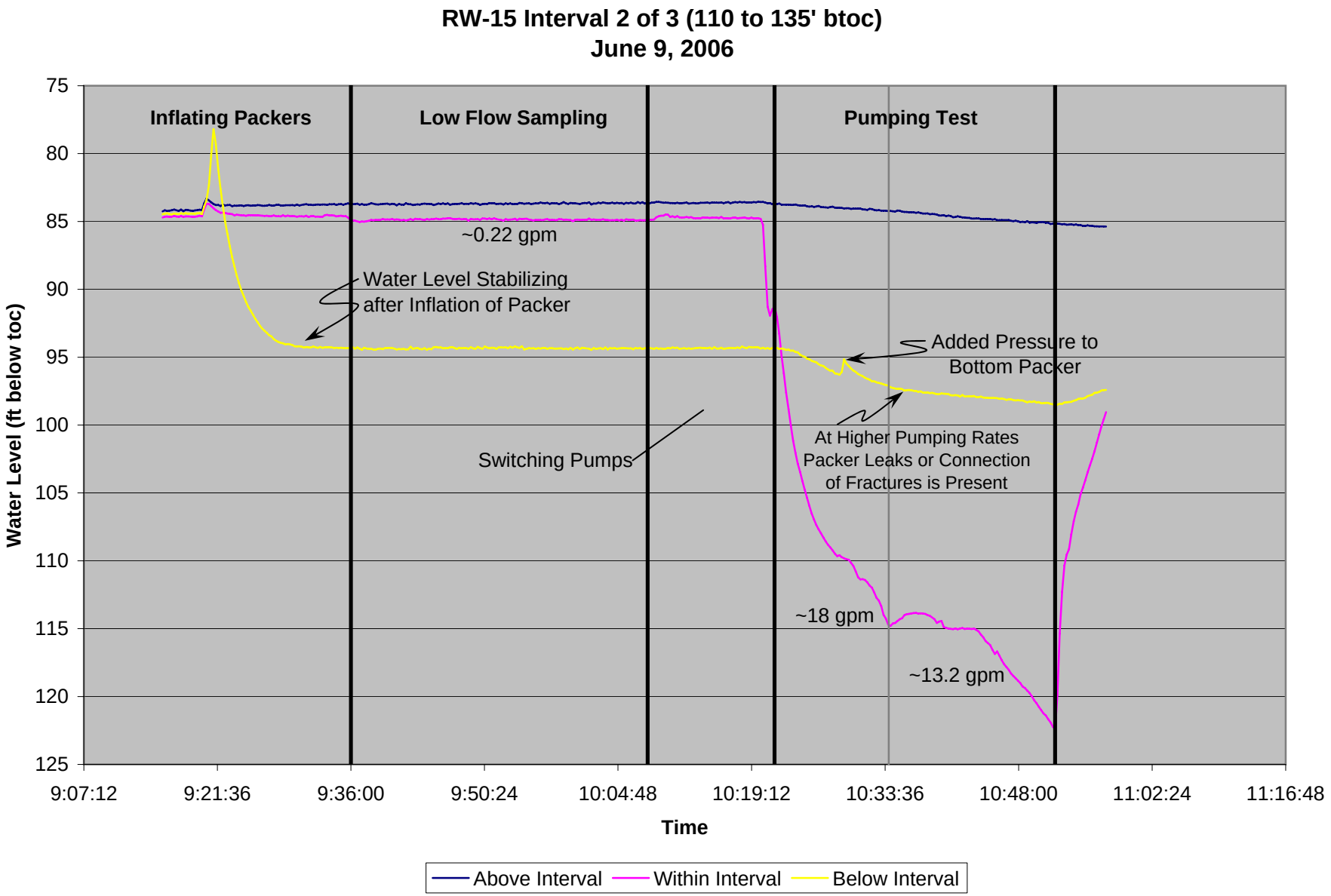

RW-09 Interval 3 of 3 (165' to Total Depth btoc)
June 2, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.10 gpm
~0.25 gpm
Water Level (ft below toc)
40
50
60
70
80
90
100
110
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
11:45:36
12:00:00
Time
Above Interval
Within Interval

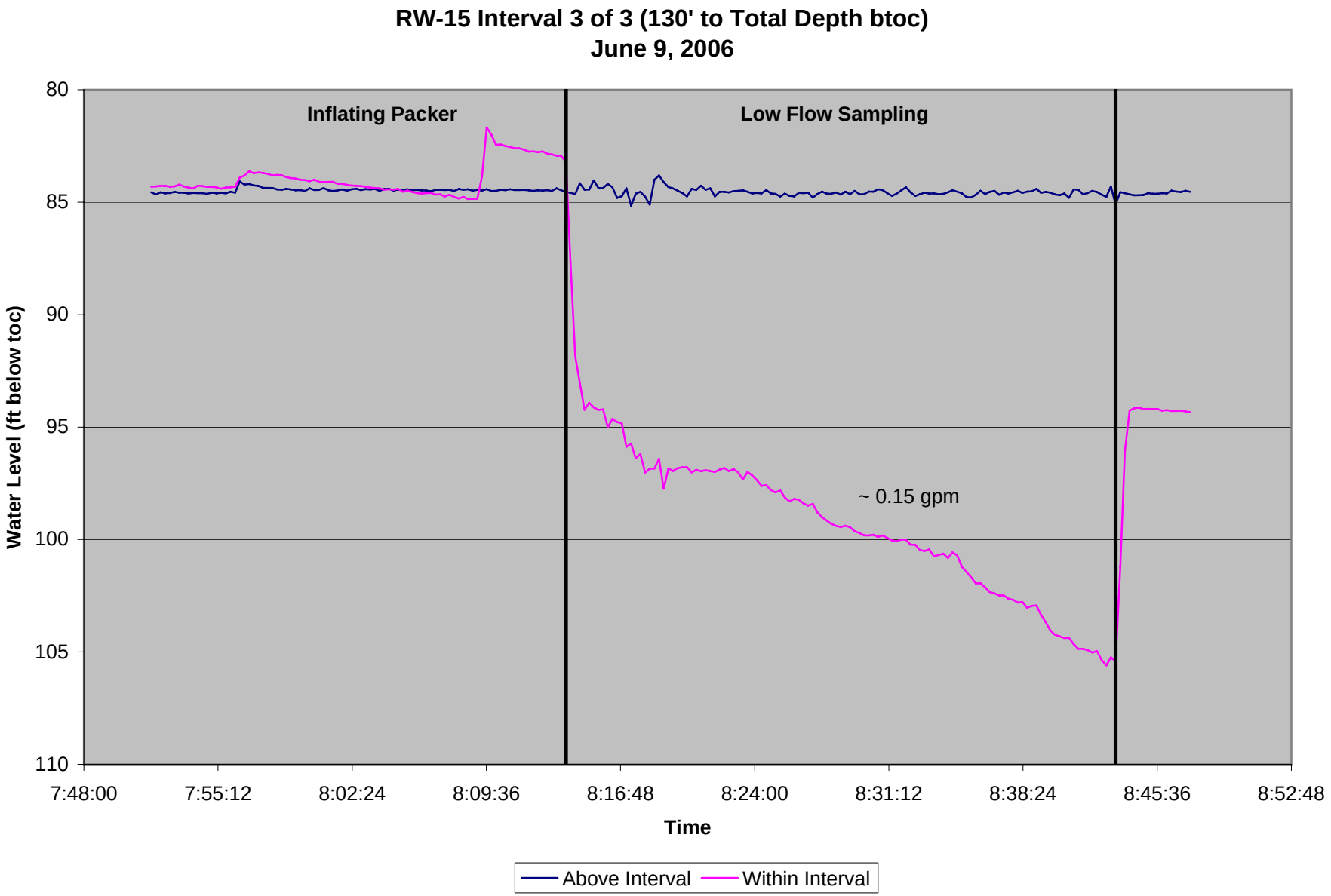

RW-11 Interval 1 of 3 (92 to 117' btoc)
June 26, 2006
Inflating Packers
Low Flow Sampling
Leaky Packer, Connected Fracture(s), or Water Levels trying to Stabilize
~0.15 gpm
Water Level (ft below toc)
65
67
69
71
73
75
77
79
81
83
85
8:52:48
9:00:00
9:07:12
9:14:24
9:21:36
9:28:48
9:36:00
9:43:12
9:50:24
9:57:36
10:04:48
Time
Above Interval
Within Interval
Below Interval

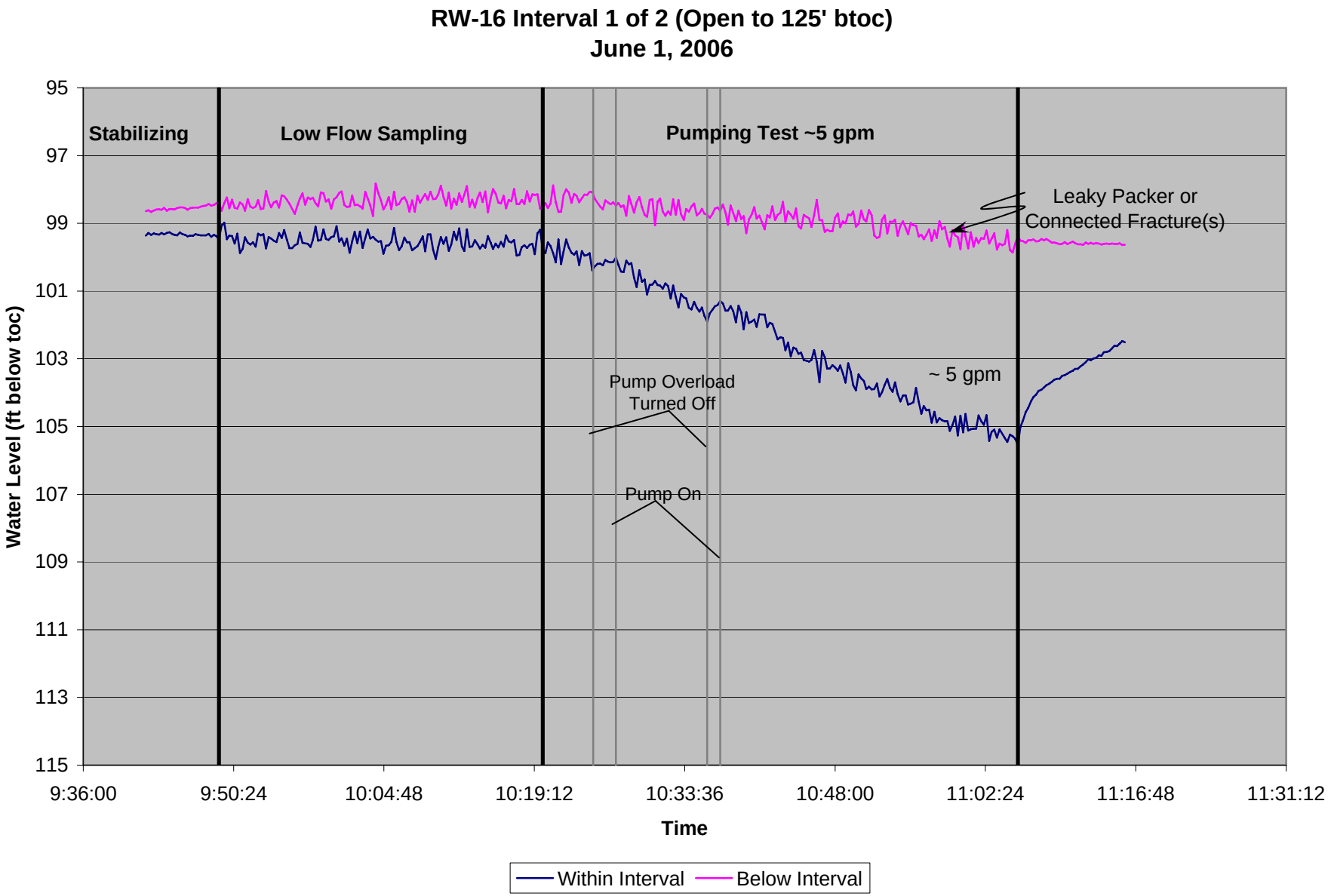

RW-11 Interval 2 of 3 (115 to 140' btoc)
May 25, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
Water Level Stabilizing
Water Level Stabilizing
after Inflation of Packer
~0.1 gpm
~0.13 gpm
Switching Pumps
Zone Dewatered
Water Level (ft below toc)
60
70
80
90
100
110
120
130
140
150
15:07:12
15:21:36
15:36:00
15:50:24
16:04:48
16:19:12
16:33:36
16:48:00
Time
Above Interval
Within Interval
Below Interval

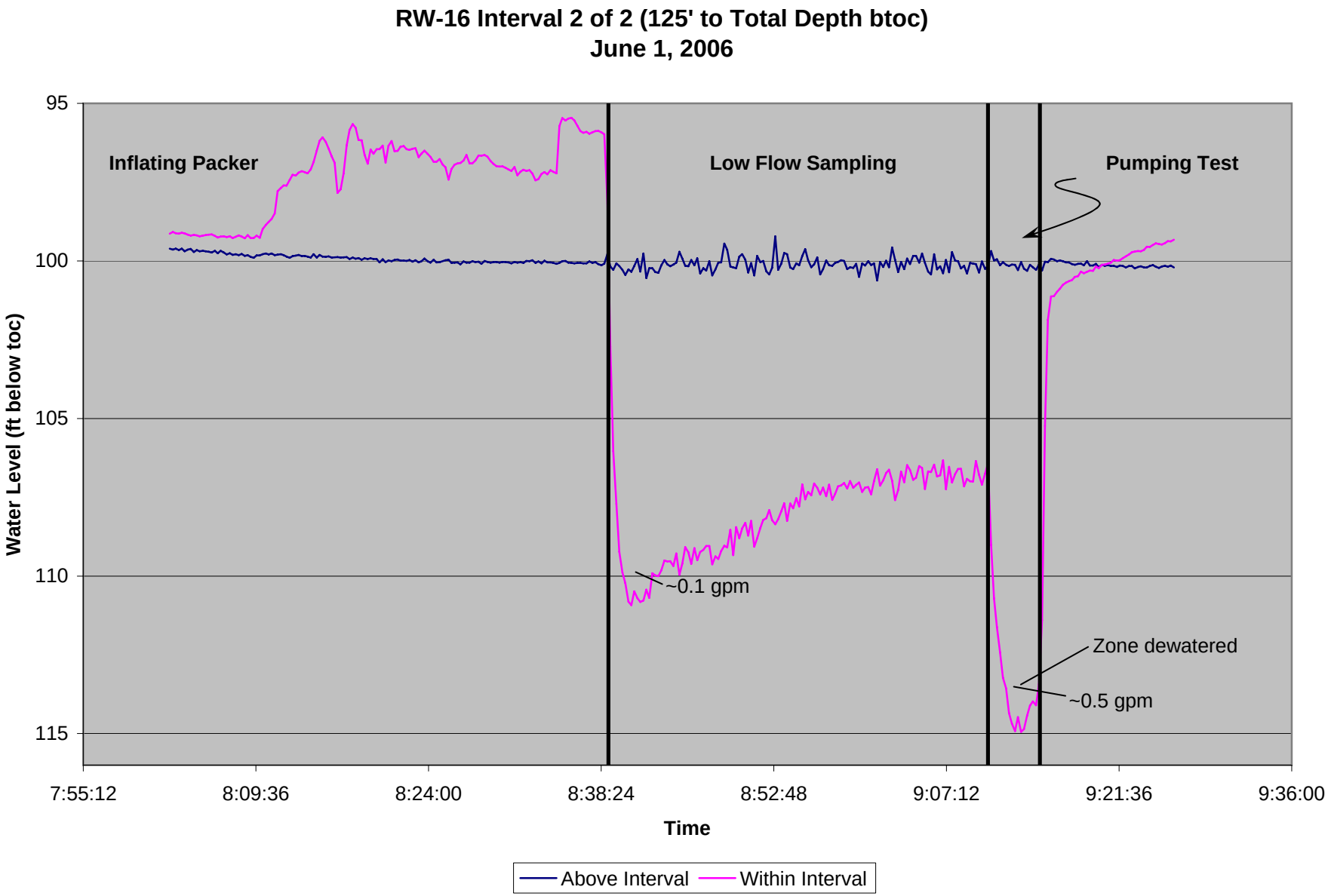

RW-11 Interval 3 of 3 (147' to Total Depth btoc)
May 25, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.10 gpm
~1.0 gpm
Water Level (ft below toc)
50
70
90
110
130
150
170
11:16:48
11:31:12
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
12:57:36
13:12:00
13:26:24
Time
Above Interval
Within Interval

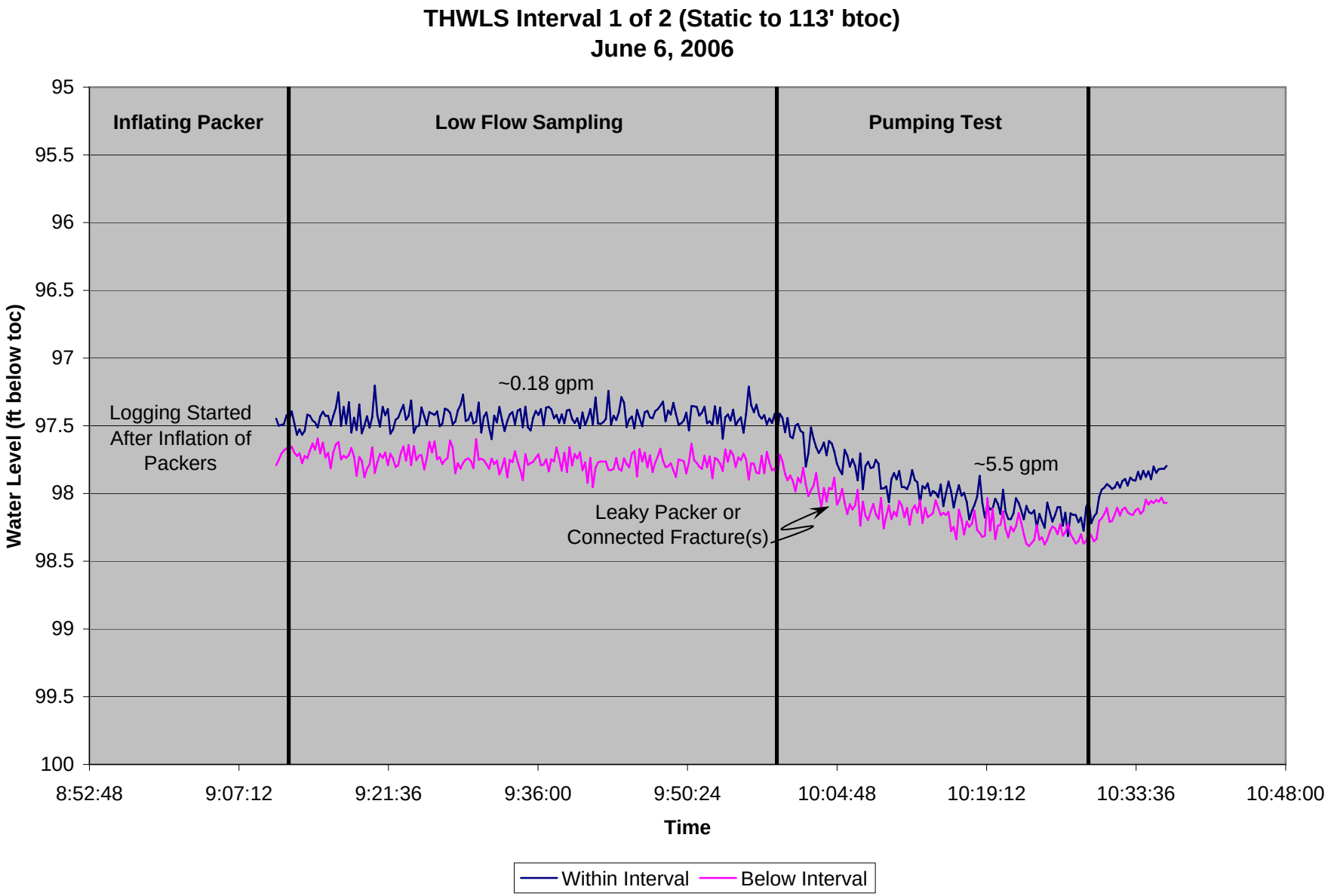

RW-15 Interval 1 of 3 (Static to 107' btoc)
June 9, 2006
Inflating Packers
Pumping Test
~4 gpm
~1.1 gpm
Water Level (ft below toc)
80
82
84
86
88
90
92
94
96
98
100
11:16:48
11:31:12
11:45:36
12:00:00
12:14:24
12:28:48
12:43:12
Time
Within Interval
Below Interval

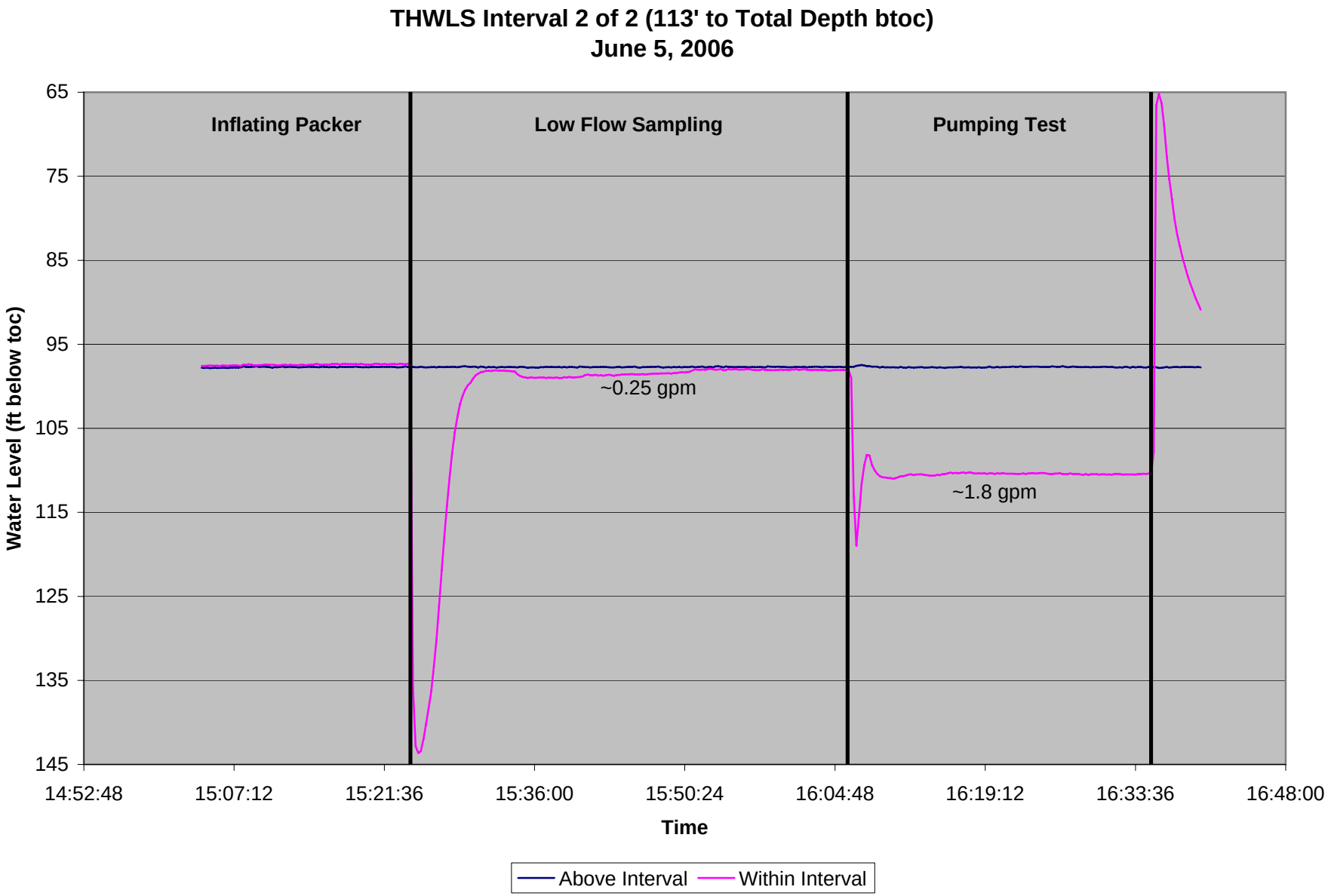

RW-15 Interval 2 of 3 (110 to 135' btoc)
June 9, 2006
Inflating Packers
Low Flow Sampling
Pumping Test
~0.22 gpm
Water Level Stabilizing
after Inflation of Packer
Added Pressure to
Bottom Packer
Switching Pumps
At Higher Pumping Rates
Packer Leaks or Connection
of Fractures is Present
~18 gpm
~13.2 gpm
Water Level (ft below toc)
75
80
85
90
95
100
105
110
115
120
125
9:07:12
9:21:36
9:36:00
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
Time
Above Interval
Within Interval
Below Interval


RW-15 Interval 3 of 3 (130' to Total Depth btoc)
June 9, 2006
Inflating Packer
Low Flow Sampling
~ 0.15 gpm
Water Level (ft below toc)
80
85
90
95
100
105
110
7:48:00
7:55:12
8:02:24
8:09:36
8:16:48
8:24:00
8:31:12
8:38:24
8:45:36
8:52:48
Time
Above Interval
Within Interval


RW-16 Interval 1 of 2 (Open to 125' btoc)
June 1, 2006
Stabilizing
Low Flow Sampling
Pumping Test ~5 gpm
Leaky Packer or
Connected Fracture(s)
Pump Overload
Turned Off
Pump On
~ 5 gpm
Water Level (ft below toc)
95
97
99
101
103
105
107
109
111
113
115
9:36:00
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
11:02:24
11:16:48
11:31:12
Time
Within Interval
Below Interval

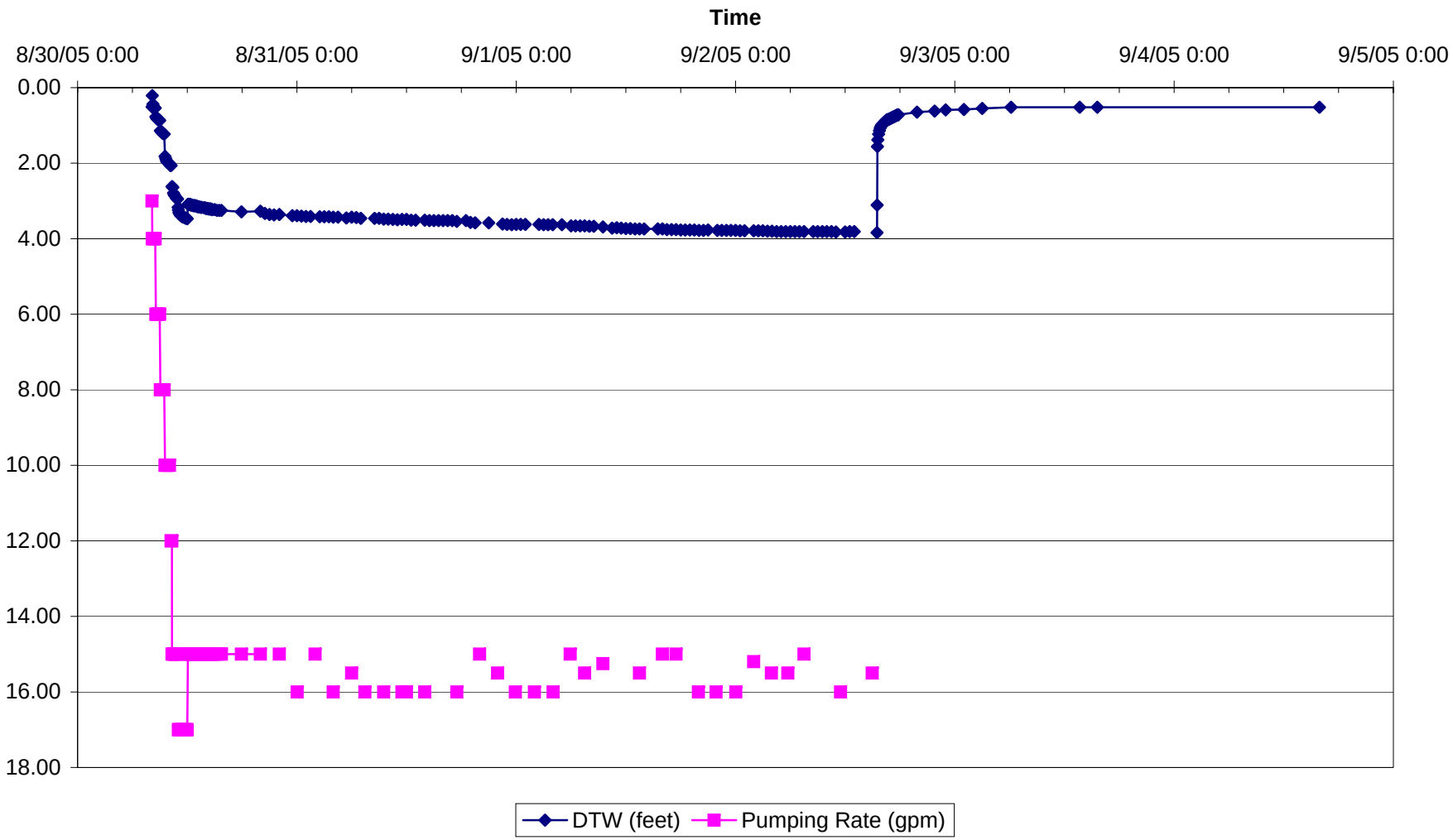

RW-16 Interval 2 of 2 (125' to Total Depth btoc)
June 1, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.1 gpm
Zone dewatered
~0.5 gpm
Water Level (ft below toc)
95
100
105
110
115
7:55:12
8:09:36
8:24:00
8:38:24
8:52:48
9:07:12
9:21:36
9:36:00
Time
Above Interval
Within Interval

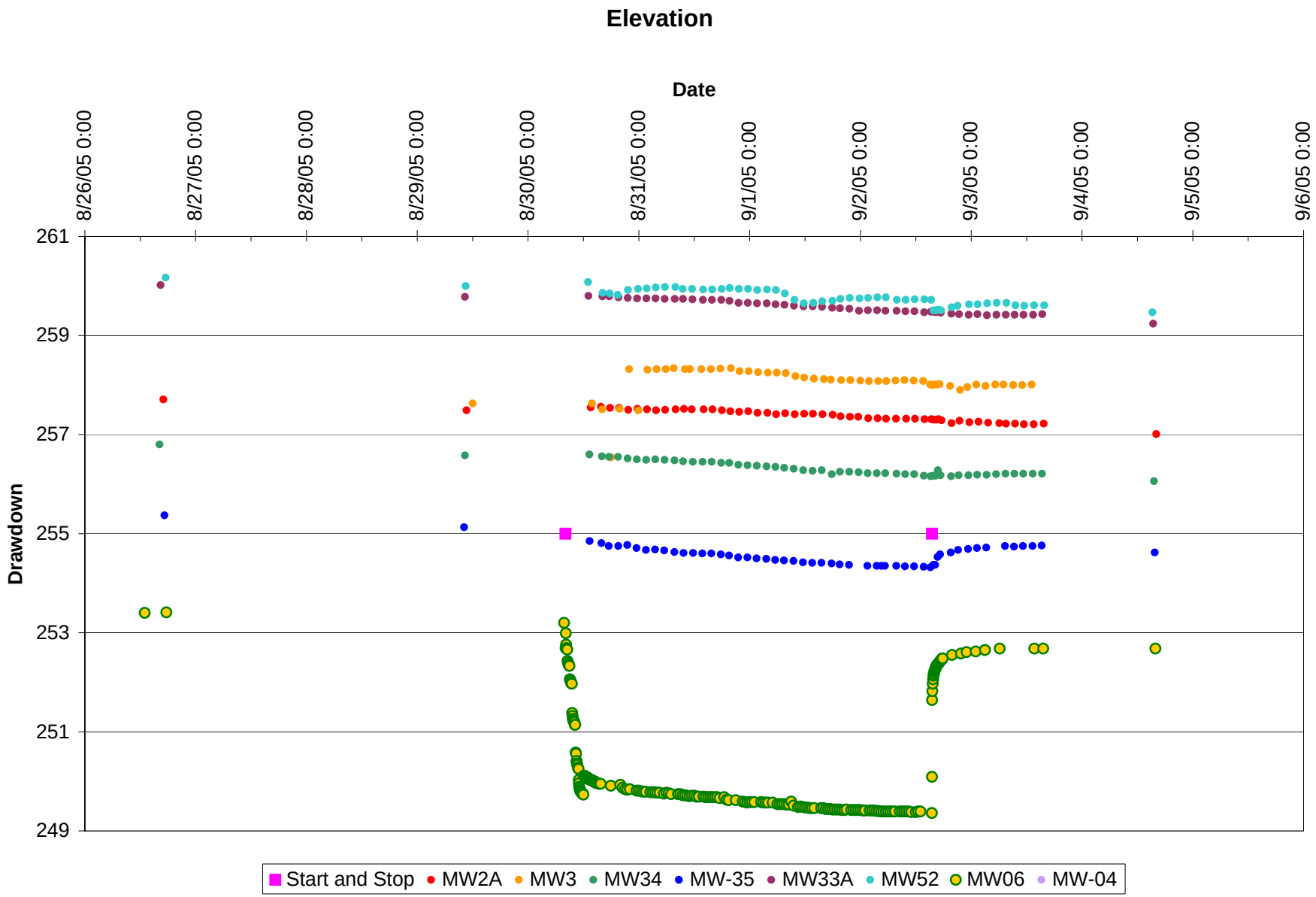

THWLS Interval 1 of 2 (Static to 113' btoc)
June 6, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
Logging Started After Inflation of Packers
~0.18 gpm
~5.5 gpm
Leaky Packer or Connected Fracture(s)
Water Level (ft below toc)
95
95.5
96
96.5
97
97.5
98
98.5
99
99.5
100
8:52:48
9:07:12
9:21:36
9:36:00
9:50:24
10:04:48
10:19:12
10:33:36
10:48:00
Time
Within Interval
Below Interval


THWLS Interval 2 of 2 (113' to Total Depth btoc)
June 5, 2006
Inflating Packer
Low Flow Sampling
Pumping Test
~0.25 gpm
~1.8 gpm
Water Level (ft below toc)
65
75
85
95
105
115
125
135
145
14:52:48
15:07:12
15:21:36
15:36:00
15:50:24
16:04:48
16:19:12
16:33:36
16:48:00
Time
Above Interval
Within Interval

Appendix F

Pump Test Evaluation


MW-06
Manually Read
DTW and Pumping Rate over Time
Time
8/30/05 0:00
8/31/05 0:00
9/1/05 0:00
9/2/05 0:00
9/3/05 0:00
9/4/05 0:00
9/5/05 0:00
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
16.00
18.00
DTW (feet)
Pumping Rate (gpm)


Elevation
Date
8/26/05 0:00
8/27/05 0:00
8/28/05 0:00
8/29/05 0:00
8/30/05 0:00
8/31/05 0:00
9/1/05 0:00
9/2/05 0:00
9/3/05 0:00
9/4/05 0:00
9/5/05 0:00
9/6/05 0:00
Drawdown
261
259
257
255
253
251
249
Start and Stop
MW2A
MW3
MW34
MW-35
MW33A
MW52
MW06
MW-04

Appendix G

Well Information - Retrofit/pilot hole permits and well construction and boring logs

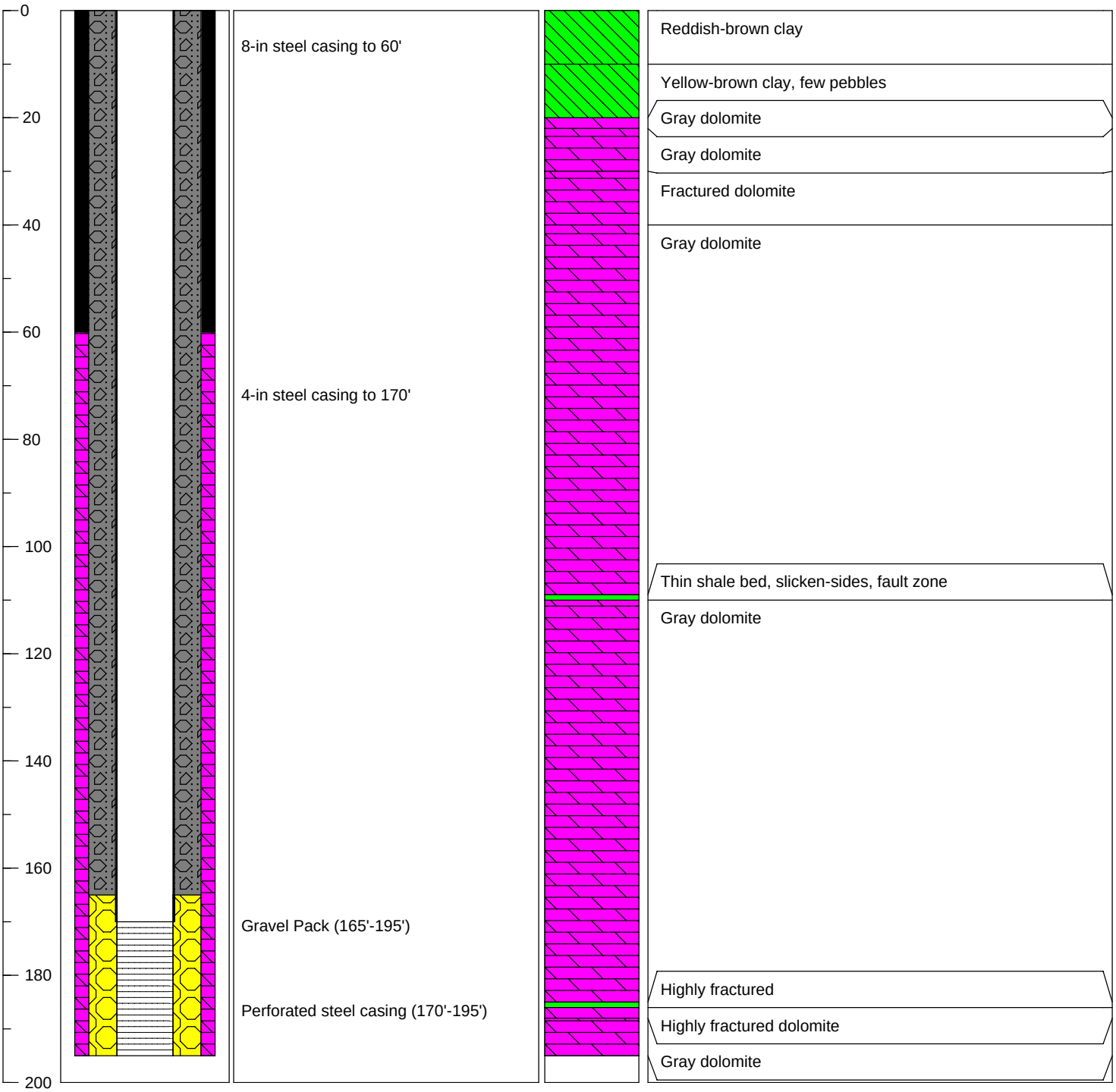
Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffrey Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 11/11/2005
Well Completion Date: 11/30/2005
Depth (ft): 195
State Plane Coordinates **X:** 306435.43 **Y:** 676095.26

ENSR | AECOM

MW6

Depth	Construction Diagram	Description	Symbol	Lithologic Description



Notes:

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffrey Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 11/8/2005
Well Completion Date: 11/17/2005
Depth (ft): 185
State Plane Coordinates **X:** 307551.15 **Y:** 678712.10

ENSR | AECOM

MW12

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0		8-in steel casing to 60'		Reddish-brown clay with few dolomite pebbles
				Dolomite gravel
20				Dolomite, with large sand-filled voids
40				Void
				No return from drill (air hammer operating)
60				dolomite
				Fractured dolomite
		4-in steel casing to 160'		Dolomite
80				dolomite with fractures, some clay filled
				Fractured dolomite with abundant calcite filled fractures
100				Dolomite
				Shale
				Dolomite
120				Fractured dolomite
				Dolomite
				Fractured dolomite
140				Dolomite
		Gravel Pack (155'-157')		Dolomite with thin shale beds
		Packer set at 157'		Dolomite
160		Packer set at 160'		Dolomite with thin shale beds
				Dolomite
				Fractured dolomite
180		Perforated steel casing (160'-185')		Dolomite
				Void containing silt and clay

Notes:

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffery Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 11/7/2005
Well Completion Date: 11/28/2005
Depth (ft): 150
State Plane Coordinates **X:** 306853.02 **Y:** 377319.62

ENSR | AECOM

MW15

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0		8-in steel casing to 78'		Reddish-brown clay with few dolomite pebbles
				Dolomite gravel
20				Dolomite, with large sand-filled voids
40				Void
				No return from drill (air hammer operating)
				Dolomite
60				Fractured dolomite
				Dolomite
80		4-in steel casing to 125'		Dolomite with fracutures, some clay filled
				Fractured dolomite with abundant calcite filled fractures
100				Dolomite
				Shale
				Dolomite
120		Gravel Pack (119'-121')		
		Packer (121')		Fractured dolomite
		Packer (125')		Dolomite
				Fractured dolomite
140				Dolomite
		Perforated steel casing (125'-150')		Dolomite with thin shale beds

Notes:

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffrey Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 11/9/2005
Well Completion Date: 11/22/2005
Depth (ft): 157
State Plane Coordinates **X:** 306175.40 **Y:** 677718.62

ENSR | AECOM

MW24

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0		8-in steel casing to 62'		Asphalt and fill
				Reddish-brown clay, hard
20				Dolomitic gravel, sandy and clayey
				Highly weathered and fractured coarse crystalline dolomite
				Dark gray, coarse crystalline dolomite
40				Highly fractured dolomite with slickensides
				Fractured dolomite
60				
		4-in steel casing to 132'		Coarse crystalline dolomite
80				
				Black dense dolomite
100				
120		Gravel Pack (127'-129')		Open fractured dolomite
		Packer (129')		Dolomite
		Packer (132')		Clay-filled fractured dolomite
140				Dolomite
				Fractures/voids filled with clay and silt
		Perforated steel casing (132'-157')		Dolomite

Notes:

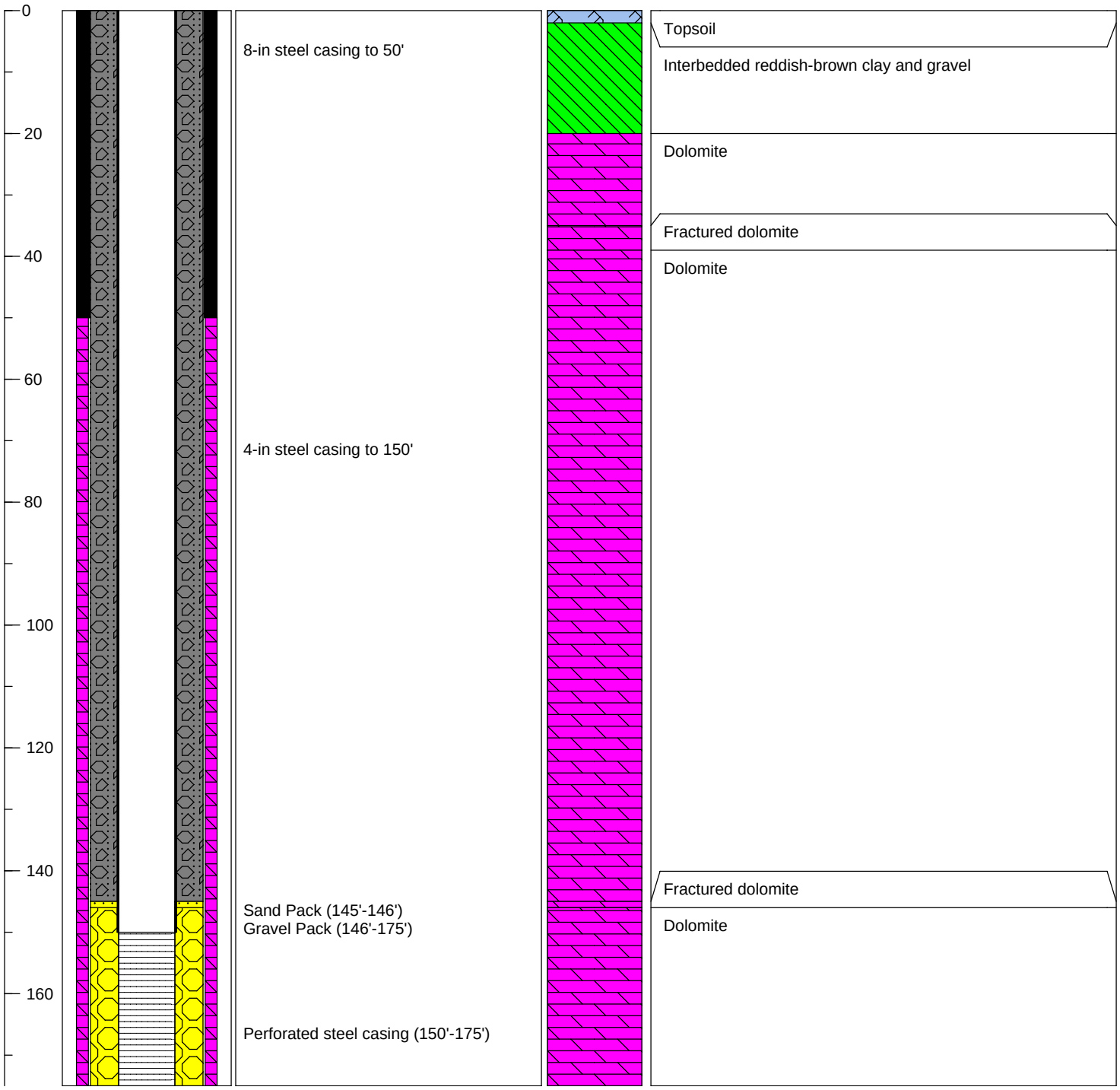
Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffrey Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 11/15/2005
Well Completion Date: 11/15/2005
Depth (ft): 175
State Plane Coordinates **X:** 306143.51 **Y:** 678222.67

ENSR | AECOM

RW10

Depth	Construction Diagram	Description	Symbol	Lithologic Description



Notes:

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Jeffrey Holzer
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 7/6/06
Well Completion Date: 7/6/06
Depth (ft): 115
State Plane Coordinates **X:** 306953.00 **Y:** 678038.00

ENSR | AECOM

THWLS

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0		6-in steel casing to 60'		Sand fill
				Clay
20				Dark gray dolomite
40				
60				Massive, hard dark gray dolomite
				Soft zone of gray dolomite
		3-in steel casing to 90'		Massive, hard dark gray dolomite
				Medium brown dolomite
80				Soft zone of gray dolomite
				Massive, hard dark gray dolomite
		Sand Pack (87'-88') Gravel Pack (88'-115')		Soft zone of gray dolomite with fracture
100				Massive, hard dark gray dolomite
		Perforated steel casing (90'-115')		Soft zone of gray dolomite
				Massive, hard dark gray dolomite
120				Soft zone of gray dolomite
		Grouted (115'-125')		Dolomite

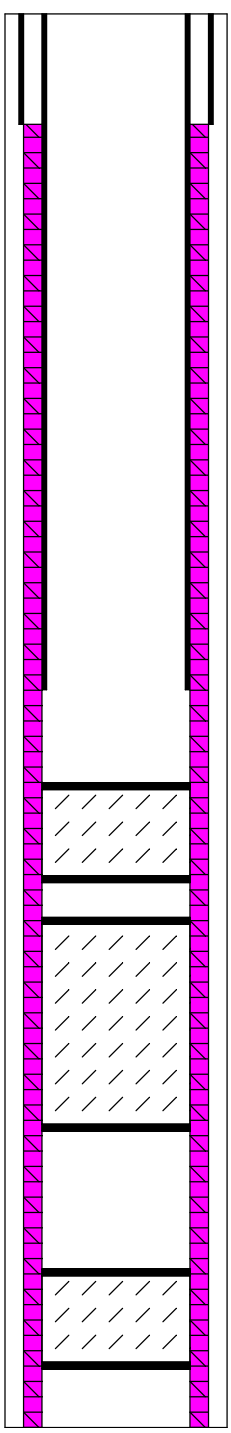
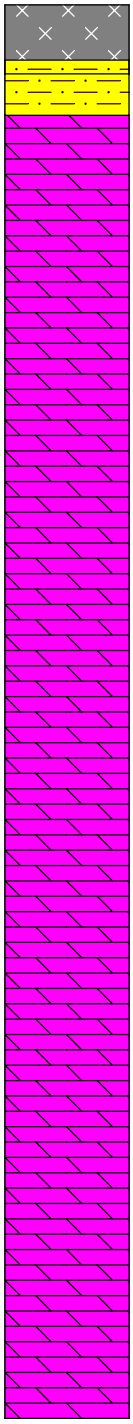
Notes:

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Todd Myse
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 3/14/06-3/28/06
Well Completion Date: NA
Depth (ft): 410.00
State Plane Coordinates **X:** To Be Determined **Y:** To Be Determined

ENSR | AECOM

Pilot Hole 1 (PH1)

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400		10-in steel casing temporarily installed to 32 ft bgs. 8-in steel casing temporarily installed to 196 ft bgs. Grab groundwater sample collected at 182 ft bgs and analyzed for VOCs. VOC concentrations were less than NJ GWQS. Sample collected prior to installation of 8-in steel casing. Packer testing conducted between 225-250 ft bgs. Sample MW56225 collected and analyzed for VOCs. PCE detected at 106 ppb and TCE detected at 183 ppb. Packer testing conducted between 264-289 ft bgs. No groundwater samples were collected because the interval was used to assess hydrogeological conditions only. Packer testing conducted between 276-301 ft bgs. Sample MW56276 collected and analyzed for VOCs. PCE detected at 98.6 ppb and TCE detected at 70.9 ppb. Packer testing conducted between 297-322 ft bgs. Sample PH01297 collected and analyzed for VOCs. VOC concentrations were less than NJ GWQS. Packer testing failed between 366-391 ft bgs due to lack of water. No sample was collected from PH1 for VOCs.		Foundry FILL Brown SILT Gray DOLOMITE

Notes: GWQS = Ground Water Quality Standards; bgs = below ground surface

Client: Ingersoll Rand Company
Site: Former Ingersoll Rand Facility
Site Location: Phillipsburg, NJ
Geologist: Todd Myse
Drilling Company: SGS Environmental
Drilling Method: Air Rotary

Drilling Date: 6/28/06-7/26/06
Well Completion Date: NA
Depth (ft): 510.00
State Plane Coordinates **X:** To Be Determined **Y:** To Be Determined

ENSR | AECOM

Pilot Hole 2 (PH2)

Depth	Construction Diagram	Description	Symbol	Lithologic Description
0				Foundry FILL
20		12-in steel casing temporarily installed to 70 ft bgs.		Brown CLAY
40				Brown SILT
60				
80				Gray DOLOMITE
100		8-in steel casing temporarily installed to 410 ft bgs.		
120				
140				
160				
180				
200				
220				
240				
260				
280				
300				
320				
340				
360		Packer testing conducted between 427-452 ft bgs. No growndwater samples were collected because the interval was used to assess hydrological conditions only.		
380				
400		Packer testing conducted between 445-470 ft bgs. Sample PH2445 collected and analyzed for VOCs. VOC concentrations were less than NJ GWQS.		
420		Packer testing conducted between 473-498 ft bgs. Sample PH2473 collected and analyzed for VOCs. VOC concentrations were less than NJ GWQS.		
440				
460		Packer testing conducted between 477-502 ft bgs. No growndwater samples were collected because the interval was used to assess hydrological conditions only.		
480				
500		Packer testing conducted between 480-505 ft bgs. No growndwater samples were collected because the interval was used to assess hydrological conditions only.		

Notes: GWQS = Ground Water Quality Standards; bgs = below ground surface

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044529
Owner's Well Number (As shown on the application or plans):	MW-6
Well Completion Date:	11/30/05
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	192
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	167
Screen Length (or length of open hole) in feet:	25
Screen or Slot Size:	.040
Screen or Slot Material:	Steel
Casing Material: (PVC, Steel or Other-Specify):	Steel
Casing Diameter (inches):	3" AND 4"
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	91.5
Yield (gallons per minute):	80
Development Technique (specify)	Air Lift
Length of Time Well is Developed/ Pumped or Bailed:	1 Hours 30 Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E. Becker
Name (Type or Print)

Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number 2400044529

Atlas Sheet Coordinates 2421437

OWNER IDENTIFICATION INGERSOLL RAND CORP

Address 155 CHESTNUT RIDGE

City Montvale State New Jersey Zip Code 07645

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-6

County Warren Municipality Phillipsburg Town Lot No. 7.04 Block No. 3201

Address 942 MEMORIAL PARKWAY

WELL USE Monitoring

DATE WELL STARTED 11/11/05

DATE WELL COMPLETED 11/30/05

WELL CONSTRUCTION

Total Depth Drilled 193 ft.

Finished Well Depth 192 ft.

Borehole Diameter:

Top 12 in.

Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +3 ft.

Steel protective casing installed? ☒ Yes ☐ No Existing

Static Water Level after drilling 91.5 ft.

Water Level was Measured Using m-scope

Well was developed for 1.5 hours at 80 gpm

Method of development Air Rotary

Pump Capacity — gpm

Pump Type —

Drilling Fluid N/A Type of Rig Foremost DR 12

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	167	4	Steel	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	+3		8	Steel	Sch 40
Open Hole or Screen (No. Used .040)	167	192	4	Stainless steel	—
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	165	193	8	#4 Gravel	800 lbs
Grout	0	165	8	Neat Cement Bentonite	3700 lbs ___ lbs

Grouting Method Tremie Grout

Drilling Method N/A

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

* See Attached *

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) Dave Dolan

Driller's Signature [signature]

Registration No. J-2418 Date 12/5/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ___ EASTING: ___

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Permit No. 2410044527

COORD #: 24 . 21 . 4 37

Owner: Ingersoll Rand Corporation
Address: 155 Chestnut Ridge
Montvale, NJ 07645

Driller: SGS Environmental Services Inc.
Address: PO Box 423
West Creek NJ 08092

Name of Facility: Former Ingersoll Rand Facility
Address: 942 Memorial Parkway
Phillipsburg, NJ 08105

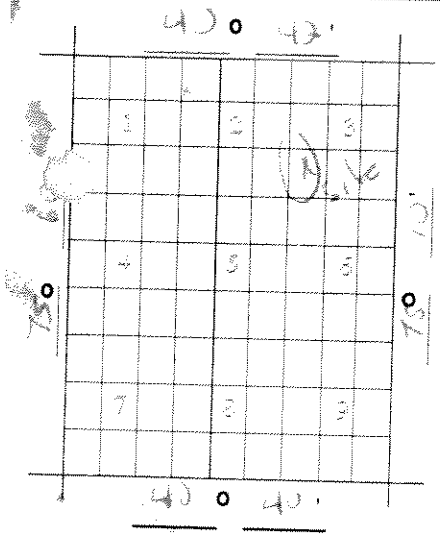
Diameter of Well(s): 4 Inches	Proposed Depth of Well(s): 195 Feet
# of Wells Applied for (max. 10): 1	Will pumping equipment be utilized? YES ☐ NO ☒
Type of Well (see reverse): Monitoring	If Yes, give pump capacity: — cumulative GPM

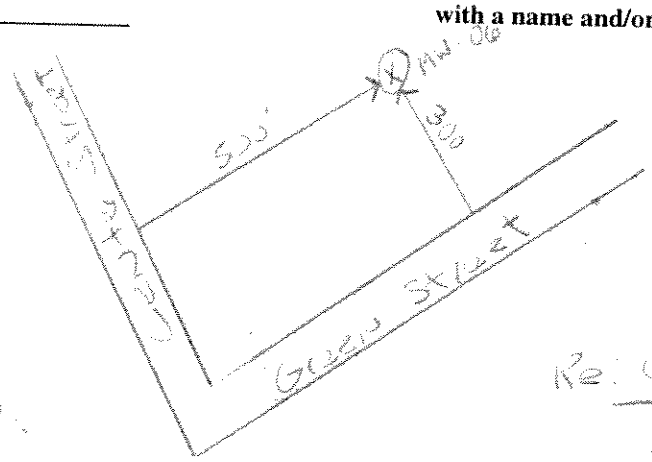
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
9 04	3201	Phillipsburg	Warren

State Atlas Map No. 24

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





Re: Old well permit #
2410044527

N ↑

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ " __ ' __ " LONGITUDE: __ " __ ' __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number 9004300

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
OCT 25 2005
BUREAU OF WATER ALLOCATION

D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 10/14/05 Signature of Driller _____ Registration No. [illegible]

Signature of Property Owner [illegible]

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 24 29445
Atlas Sheet Coordinates 24 : 21 : 434

LP

OWNER IDENTIFICATION - Owner INGERSOLL RAND CO.
Address 942 MEMORIAL PARKWAY
City PHILLIPSBURG State NJ Zip Code 08865

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County WARREN Municipality ~~PHILLIPSBURG TO~~ Lot No. 3 Block No. 12
Address SAME AS ABOVE

TYPE OF WELL (as per Well Permit Categories) ~~MONITORING~~ Date well completed 11/8/91
Regulatory Program Requiring Well ~~NJPDES-IND~~ Case I.D. # 0004049
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TELLUS CONSULTANTS Tele. # 201 859-7585

WELL CONSTRUCTION

Total depth drilled 195 ft.
Well finished to 195 ft.
Borehole diameter:
Top 12 in.
Bottom 8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing		60	8	welded Steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout		60		Alpha Portland Neat
Method of Grouting	Pump + Trimie pipe			

Static water level after drilling 107 ft.
Water level was measured using WATER PROBE
Well was developed for 1 hours at 25 gpm
Method of development AIR LIFT
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity gpm
Pump type:
Drilling Method Rotary Percussion
Drilling Fluid Air Type of Rig I-R-T-4-750
Name of Driller ~~Scott~~ Robert Clark
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. T-1325
Name of Drilling Company J.R. DRILLING CO., LTD

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-10 - Hard pan clay
10-20 - Clay Gravel
20-22 - Broken Limestone
22-36 - Limestone
36-37 - Soft seam
37-84 - Limestone
84-85 - Soft seam
85-109 - Limestone
109-110 - Broken seam (Shale)
110-185 - Limestone
185-186 - Water seam
186-200 - Limestone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Robert Clark Date 12-13-91

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044525
Owner's Well Number (As shown on the application or plans):	MW-12
Well Completion Date:	11/29/05
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	185
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	160
Screen Length (or length of open hole) in feet:	25
Screen or Slot Size:	Torch slot
Screen or Slot Material:	Steel
Casing Material: (PVC, Steel or Other-Specify):	Steel
Casing Diameter (inches):	8" AND 4"
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	94ft
Yield (gallons per minute):	75
Development Technique (specify)	Air Lift
Length of Time Well is Developed/ Pumped or Bailed:	1 Hours 3 Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E. Becker
Name (Type or Print)

Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

Y/ Scan
R to NAD.IA
AND state

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number 2400044525

Atlas Sheet Coordinates 2421437

OWNER IDENTIFICATION INGERSOLL RAND CORP

Address 155 CHESTNUT RIDGE

City Montvale State New Jersey Zip Code 07645

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-12

County Warren Municipality Phillipsburg Town Lot No. 7.02 Block No. 3201

Address 942 MEMORIAL PARKWAY FORMER INGERSOLL RAND FACILI

WELL USE Monitoring

DATE WELL STARTED 11/8/05

DATE WELL COMPLETED 11/29/05

WELL CONSTRUCTION

Total Depth Drilled 185 ft.

Finished Well Depth 185 ft.

Borehole Diameter:

Top 12 in.

Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +3 ft.

Steel protective casing installed? ☐ Yes ☒ No Existing

Static Water Level after drilling 94 ft.

Water Level was Measured Using M. Scope

Well was developed for 1.5 hours at 75 gpm

Method of development Air Lift

Pump Capacity — gpm

Pump Type —

Drilling Fluid N/A Type of Rig Foremost DR-12

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	160	4	steel	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	+3	60	8	steel	sch 40
Open Hole or Screen (No. Used Torch slotted)	160	185	4	steel	sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	155	157	8	#0 Gravel	40 lbs
Grout	0	155	8	Neat Cement Bentonite	640 lbs 210 lbs

Grouting Method Tremie Grout

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0 - 160 * see Attached

160' - Shale Packer 4" x 8"

157' - Shale Packer 4" x 8"

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) Dave Dolan

Driller's Signature [signature]

Registration No. J-2419 Date 12/5/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: ____ EASTING: ____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Permit No. 2460144529

COORD #: 24.21.4 37

Owner: Ingersoll Rand Corporation
Address: 155 Chestnut Ridge
Montvale, NJ 07045

Driller: SGS Environmental Services Inc.
Address: PO Box 423
West Creek NJ 08092

Name of Facility: Former Ingersoll Rand Facility
Address: 942 Memorial Parkway
Phillipsburg, NJ 08865

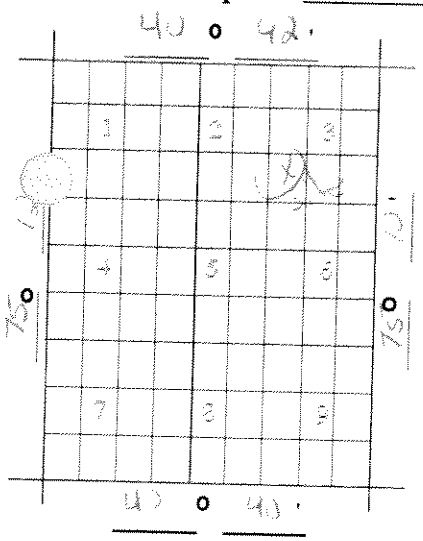
Diameter of Well(s): 4 Inches	Proposed Depth of Well(s): 175 Feet
# of Wells Applied for (max. 10): 1	Will pumping equipment be utilized? YES ☐ NO ☒
Type of Well (see reverse): monitoring	If Yes, give pump capacity: — cumulative GPM

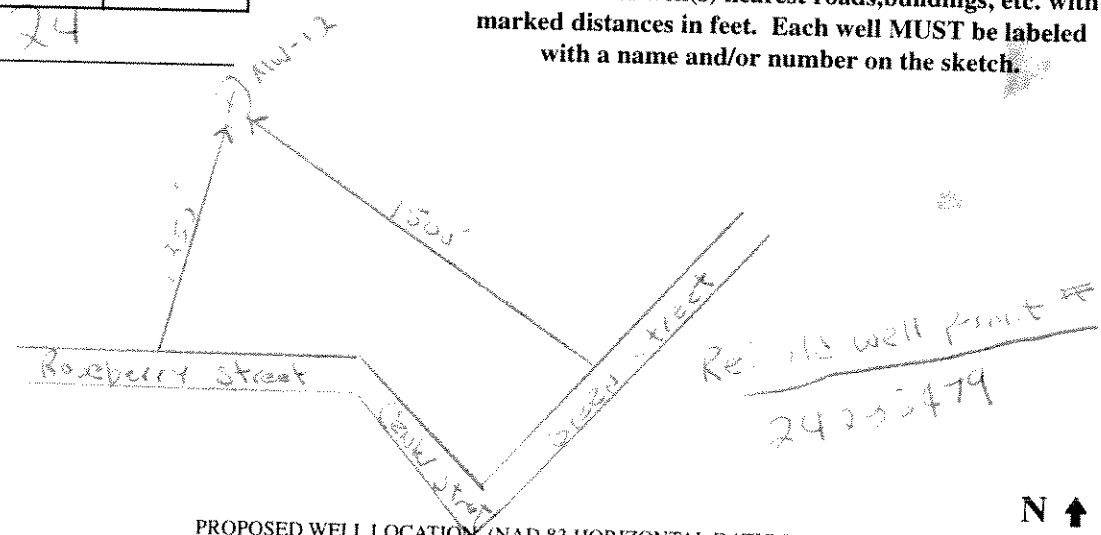
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
7 02	3271	Phillipsburg	Warren

State Atlas Map No. 24

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ " __ ' __ " LONGITUDE: __ " __ ' __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number 2004306

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
BUREAU OF WATER ALLOCATION

D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☐ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date 11/17/5

Signature of Driller _____ Registration No. _____

Signature of Property Owner Aggy Micalyer

DWR-138 M
6/89

24-28534-9

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. [illegible] - [illegible]
Atlas Sheet Coordinates [illegible] : [illegible] : [illegible]

OWNER IDENTIFICATION - Owner [illegible]
Address [illegible]
City [illegible] State NJ Zip Code [illegible]

WELL LOCATION - If not the same as owner please give address. Owner's Well No. _____
County [illegible] Municipality [illegible] Lot No. _____ Block No. _____
Address [illegible]

TYPE OF WELL (as per Well Permit Categories) [illegible] Date well completed 12/2/91
Regulatory Program Requiring Well [illegible] Case I.D. # 000 40 -91
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) [illegible] Tele. # [illegible]

WELL CONSTRUCTION

Total depth drilled 175 ft.
Well finished to 175 ft.
Borehole diameter:
Top 12 in.
Bottom 8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing		60	8	Seamless Steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout		60		Hydrated Bentonite
Method of Grouting	Pumped through pipe			

Static water level after drilling 75 ft.
Water level was measured using [illegible]
Well was developed for 1½ hours at 40 gpm
Method of development Air Lift
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity _____ gpm
Pump type: _____
Drilling Method [illegible]
Drilling Fluid [illegible] Type of Rig [illegible]
Name of Driller [illegible]
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. [illegible]
Name of Drilling Company [illegible]

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-1 - Topsoil
1-34 - Clay [illegible]
34-70 - Limestone
70-93 - [illegible]
93-100 - Limestone
100-112 - [illegible]
112-153 - Soft Limestone
153-160 - [illegible]
160-175 - Limestone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable state rules and regulations.

Driller's Signature [illegible] Date [illegible]

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044528
Owner's Well Number (As shown on the application or plans):	MW-15
Well Completion Date:	12/1/05
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	147
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	122
Screen Length (or length of open hole) in feet:	25
Screen or Slot Size:	Torch slot
Screen or Slot Material:	Steel
Casing Material: (PVC, Steel or Other-Specify):	Steel
Casing Diameter (inches):	8" AND 4"
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	92
Yield (gallons per minute):	40
Development Technique (specify)	Air Lift
Length of Time Well is Developed/ Pumped or Bailed:	Hours Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E. Becker
Name (Type or Print)

Arthur E Becker
Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number 2400044528

Atlas Sheet Coordinates 2421437

OWNER IDENTIFICATION INGERSOLL RAND CORP

Address 155 CHESTNUT RIDGE

City Montvale State New Jersey Zip Code 07645

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-15

County Warren Municipality Phillipsburg Town Lot No. 7.03 Block No. 3201

Address 942 MEMORIAL PARKWAY

WELL USE Monitoring

DATE WELL STARTED 11/7/05

DATE WELL COMPLETED 12/1/05

WELL CONSTRUCTION

Total Depth Drilled 147 ft.

Finished Well Depth 147 ft.

Borehole Diameter:

Top 12 in.

Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +3 ft.

Steel protective casing installed? ☒ Yes ☐ No Existing

Static Water Level after drilling 92 ft.

Water Level was Measured Using M-Scope

Well was developed for 3.5 hours at 40 gpm

Method of development Air Lift

Pump Capacity — gpm

Pump Type —

Drilling Fluid N/A Type of Rig Foremost DR-12

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	122	4	Steel	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	+3	78	8	Steel	Sch 40
Open Hole or Screen (No. Used Tech Slotted)	122	147	4	Steel	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	118	119	8	#0 Gravel	25 lbs
Grout	0	118	8	Neat Cement Bentonite	280G lbs 155 lbs

Grouting Method Tremie Grout

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

* 0 - 119' See Attached

119' - Shale Packer 4" x 8"

122' - Shale Packer 4" x 8"

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) Dave Dolan

Driller's Signature [signature]

Registration No. 1-2418 Date 12/5/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ___ ° ___ ' ___.___ " LONGITUDE: ___ ° ___ ' ___.___ "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. 24/0044532

COORD #: 24 • 21 • 4 37

Owner: Ingersoll Rand Corporation
Address: 155 Chestnut Ridge
Montvale, NJ 07645

Driller: SGS Environmental Services Inc.
Address: PO Box 423
West Creek NJ 08092

Name of Facility: Former Ingersoll Rand Facility
Address: 942 Memorial Parkway
Phillipsburg, NJ 08865

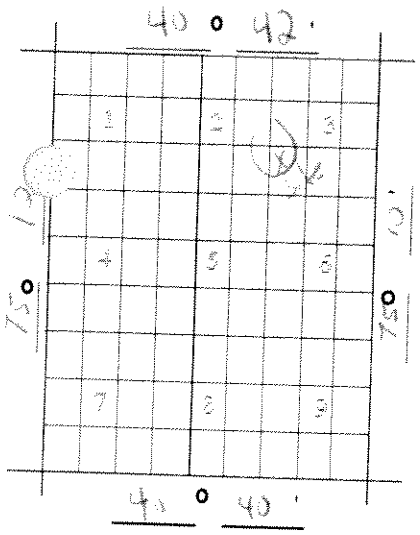
Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	150 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

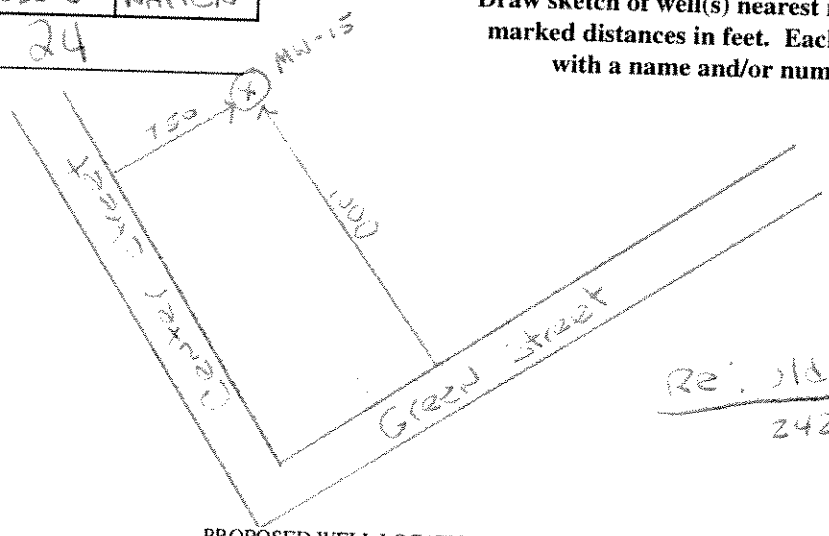
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1.03	5201	Phillipsburg	Warren

State Atlas Map No. 24

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





Re: old well permit
2423745

N ↑

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ " __ ' __ " LONGITUDE: __ " __ ' __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number: 2004300

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
OCT 25 2005
BUREAU OF WATER ALLOCATION

D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☐ _____
☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A. 58:4A-14, application is made for a permit to drill a well as described above.

Date: 10/19/05
Signature of Driller: _____
Registration No. 1143 M1
Signature of Property Owner: Gregg McCallum
NJ 5:45

DWR-138 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 24 - 28745
Atlas Sheet Coordinates 24 : 21 : 434

OWNER IDENTIFICATION - Owner INGERSOLL-RAND CO.
Address 942 MEMORIAL PARKWAY
City PHILLIPSBURG State NJ Zip Code 08865

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County WARREN Municipality ~~PHILLIPSBURG TO~~ Lot No. 3 Block No. 12
Address SAME

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 1/29/92
Regulatory Program Requiring Well NJPDES-IND Case I.D. # 004049
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) TELLUS CONSULTANTS Tele. # 908-859-2585

WELL CONSTRUCTION

Total depth drilled 150 ft.
Well finished to 150 ft.
Borehole diameter:
Top 12 in.
Bottom 8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.) [From land surface]	Diameter (inches)	Type and Material
Inner Casing		78	8	Seamless Steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout	To	Top (surface)		#1 Alpha Portland Neat Cement
Method of Grouting	Pump and Tremie pipe			

Static water level after drilling 105 ft.
Water level was measured using weight + Rope
Well was developed for 1 hours at 25 gpm
Method of development AIR LIFT
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity _____ gpm
Pump type: _____
Drilling Method Air Rotary/Precussion
Drilling Fluid AIR Type of Rig IR-T-4
Name of Driller Robert CLARK
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. J1325
Name of Drilling Company J.R. DRILLING CO., LTD

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-8 - Black Cinders
8-37 - Clay
37-75 - Limestone
75-77 - Soft Limestone
77-92 - Limestone
92-107 - Soft + Broken Limestone
107-125 - Soft Limestone
125-142 - Broken and Soft Limestone
142-150 - Limestone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Robert Clark Date 3-19-92

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044527
Owner's Well Number (As shown on the application or plans):	MW-24
Well Completion Date:	11/30/05
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	154 ft
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	129 ft
Screen Length (or length of open hole) in feet:	25 ft
Screen or Slot Size:	Torch Slot
Screen or Slot Material:	Steel
Casing Material: (PVC, Steel or Other-Specify):	Steel
Casing Diameter (inches):	8" AND 4"
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	98
Yield (gallons per minute):	15
Development Technique (specify)	Air Lift
Length of Time Well is Developed/ Pumped or Bailed:	3 Hours 0 Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E. Becker
Name (Type or Print)

Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number 2400044527

Atlas Sheet Coordinates 2421437

OWNER IDENTIFICATION INGERSOLL RAND CORP

Address 155 CHESTNUT RIDGE

City Montvale State New Jersey Zip Code 07645

WELL LOCATION - If not the same as owner please give address Owner's Well No. MW-24

County Warren Municipality Phillipsburg Town Lot No. 7.03 Block No. 3201

Address 942 MEMORIAL PARKWAY

WELL USE Monitoring

DATE WELL STARTED 11/9/05

DATE WELL COMPLETED 11/30/05

WELL CONSTRUCTION

Total Depth Drilled 154 ft.

Finished Well Depth 154 ft.

Borehole Diameter:

Top 12 in.

Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +3 ft.

Steel protective casing installed? ☒ Yes ☐ No Existing

Static Water Level after drilling 98 ft.

Water Level was Measured Using M-rope

Well was developed for 3 hours at 15 gpm

Method of development Air Lift

Pump Capacity — gpm

Pump Type —

Drilling Fluid N/A Type of Rig Foremost DR-12

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	129	4	Steel	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	+3	62	8	Steel	Sch 40
Open Hole or Screen (No. Used Torch slotted)	129	154	4	Steel	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	125	126	8	#0 Gravel	25 lbs
Grout	0	125	8	Neat Cement Bentonite	2300 lbs 160 lbs

Grouting Method Tremie Grout

Drilling Method Air Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

* 0-119' - See Attached

119' - Shale Packer 4" x 8"

122' - Shale Packer 4" x 5"

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) Dave Dolan

Driller's Signature

Registration No. J-2418 Date 12/5/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Permit No. 2410044527

COORD #: 24 . 21 . 4 37

Owner: Inverall Rand Corporation
Address: 155 Chestnut Ridge
Montvale, NJ 07645

Driller: SGS Environmental Services Inc.
Address: PO Box 423
West Creek NJ 08092

Name of Facility: Former Inverall Rand Facility
Address: 142 Mountain Parkway
Phillipsburg, NJ 08865

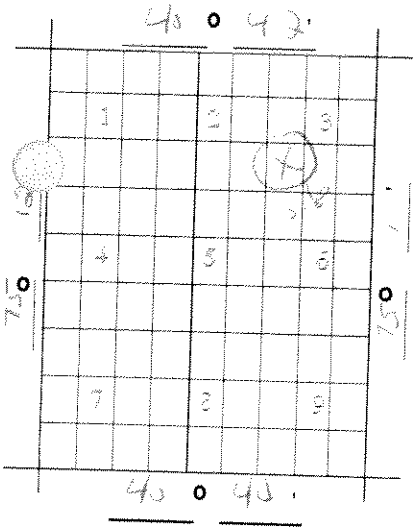
Diameter of Well(s): 4 Inches	Proposed Depth of Well(s): 157 Feet
# of Wells Applied for (max. 10): 1	Will pumping equipment be utilized? YES ☐ NO ☒
Type of Well (see reverse): Monitoring	If Yes, give pump capacity: — cumulative GPM

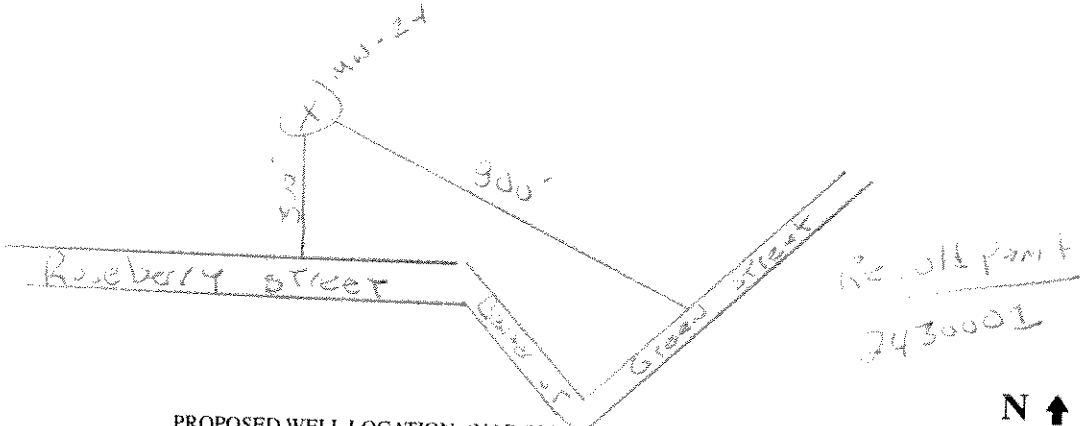
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
7.03	5201	Phillipsburg	Warren

State Atlas Map No. 24

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ " __ ' __ " LONGITUDE: __ " __ ' __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number: 2004306

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
OCT 25 2005
BUREAU OF WATER ALLOCATION

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☐ _____
☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date: 10/11/05
NJ-3145

Signature of Driller: [illegible]
Registration No. [illegible]
Signature of Property Owner: [illegible]

DWR-138 M
12/91

New Jersey Department of Environmental Protection and Energy
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 24 - 30001
Atlas Sheet Coordinates 24 : 21 : 434

OWNER IDENTIFICATION - Owner ~~INGERSOLL RAND CO~~
Address ~~942 MEMORIAL PARKWAY~~
City PHILLIPSBURG State NJ Zip Code

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County Municipality PHILLIPSBURG TO Lot No. 3 Block No. 12
Address

TYPE OF WELL (as per Well Permit Categories) MONITORING Date well completed 11/9/92
Regulatory Program Requiring Well ~~NJPDES-IND~~ Case I.D. # 0004049
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tellus Consultants Tele. # 908-859-7585

WELL CONSTRUCTION

Total depth drilled 157 ft.
Well finished to 147 ft.
Borehole diameter:
Top 12 in.
Bottom 8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 3 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing		62	8	Steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout	Surface	62	12	Portland Neet Cement
Method of Grouting	Pump + Trimie			

Static water level after drilling 114 ft.
Water level was measured using Solinist
Well was developed for 1/2 hours at 10 gpm
Method of development air lift
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity gpm
Pump type:
Drilling Method air rotary
Drilling Fluid Type of Rig JR-T4
Name of Driller Scott Clark
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) (None) D C B A
N.J. License No. J 1373
Name of Drilling Company J.R. DRILLING CO., LTD

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-20 - Clay
20-22 - gravel + Sandy Clay
22-25 - weathered Limestone
30 - Limestone
129 - Broken Seam
132 - Broken Seam
147-148 Soft + Broken } well caved in to 147
148-150 Sandy Clay }
150-157 Soft Broken rock + Sandy Clay

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Scott P Clark Date 12-17-92

COPIES: White & Green - DEPE Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044526
Owner's Well Number (As shown on the application or plans):	RW10
Well Completion Date:	12/1/05
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	175
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	149
Screen Length (or length of open hole) in feet:	25
Screen or Slot Size:	.040
Screen or Slot Material:	Steel
Casing Material: (PVC, Steel or Other-Specify):	Steel
Casing Diameter (inches):	8" And 4"
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	91
Yield (gallons per minute):	15
Development Technique (specify)	Air Lift
Length of Time Well is Developed/ Pumped or Bailed:	1 Hours 30 Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E. Becker
Name (Type or Print)

Arthur E Becker
Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number 2400044526

Atlas Sheet Coordinates 2421437

OWNER IDENTIFICATION INGERSOLL RAND CORP

Address 155 CHESTNUT RIDGE

City Montvale State New Jersey Zip Code 07645

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** RW-10

County Warren Municipality Phillipsburg Town Lot No. 7.03 Block No. 3201

Address 942 MEMORIAL PARKWAY

WELL USE Monitoring

DATE WELL STARTED 11/14/05

DATE WELL COMPLETED 12/1/05

WELL CONSTRUCTION

Total Depth Drilled 175 ft.

Finished Well Depth 174 ft.

Borehole Diameter:

Top 12 in.

Bottom 8 in.

Well was finished: ☒ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface +3 ft.

Steel protective casing installed? ☒ Yes ☐ No Raise Existing

Static Water Level after drilling 91 ft.

Water Level was Measured Using M-scope

Well was developed for 1.5 hours at 1.5 gpm

Method of development Air Lift

Pump Capacity — gpm

Pump Type —

Drilling Fluid N/A Type of Rig Foremost DR-12

Health and Safety Plan Submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	+2.5	149	4	Steel	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	+3	50	8	steel	sch 40
Open Hole or Screen (No. Used .040)	149	174	4	stainless steel	—
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	147	175	8	#4 well gravel	575 lbs
Grout	0	147	8	Neat Cement Bentonite	2820 lbs 195 lbs

Grouting Method Tremie Grout

Drilling Method Air Rotary: Clean out

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

see Attached

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) DAVE DOLAN

Driller's Signature [signature]

Registration No. D-2418 Date 12/5/05

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ___° ___' ___.___" LONGITUDE: ___° ___' ___.___"

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

DWR-133M
11/01

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Mail To:
NJDEP
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NJ 08625-0426

Permit No. 2416044526

COORD #: 24 . 21 . 4 37

Owner: Ingersoll Rand Corporation
Address: 155 Chestnut Ridge
Montvale, NJ 07643

Driller: SGS Environmental Services Inc
Address: PO Box 423
West Creek NJ 08092

Name of Facility: Former Ingersoll Rand Facility
Address: 942 Memorial Parkway
Phillipsburg, NJ 08865

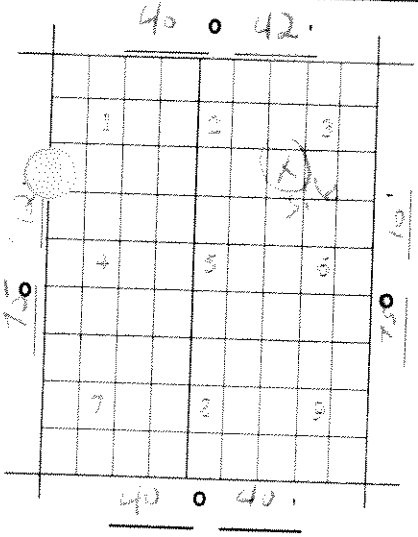
Diameter of Well(s)	4 Inches	Proposed Depth of Well(s)	175 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☒
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	— cumulative GPM

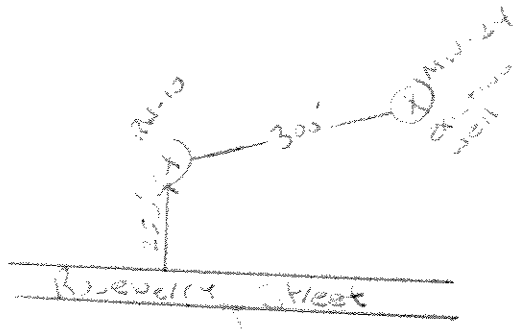
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
7.03	3201	Phillipsburg	Warren

State Atlas Map No. 24

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.





Re: Old well permit # 24270013

N ↑

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____
OR
LATITUDE: __ " __ ' __ " LONGITUDE: __ " __ ' __ "

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain) _____
- ☐ Spill Site
- ☒ ISRA Site
- ☐ CERCLA (Superfund) Site

CASE I.D. Number 2004306

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
OCT 25 2005
BUREAU OF WATER ALLOCATION

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☐ _____
☒ For monitoring purposes only

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 7/11/05

Signature of Driller [signature]

Registration No. 11143

Signature of Property Owner [signature]

NJ 3445

• DWR-T38 M
6/89

New Jersey Department of Environmental Protection
Division of Water Resources

MONITORING WELL RECORD

Well Permit No. 24 27061
Atlas Sheet Coordinates 24 21 437

OWNER IDENTIFICATION - Owner INGERSOLL-RAND CO.
Address 942 MEMORIAL PKWY.
City PHILLIPSBURG State NJ Zip Code 08865

WELL LOCATION - If not the same as owner please give address. Owner's Well No.
County WARREN Municipality ~~PHILLIPSBURG TO~~ Lot No. 9 Block No. 1S
Address SAME AS ABOVE

TYPE OF WELL (as per Well Permit Categories)
Regulatory Program Requiring Well ~~MONITORING~~ Date well completed 6/13/90
~~NJPDES-MON~~ Case I.D. # 0004049
CONSULTING FIRM/FIELD SUPERVISOR (if applicable) Tellus Consultants Tele. # 859-7585

WELL CONSTRUCTION

Total depth drilled 175 ft.
Well finished to 175 ft.
Borehole diameter:
Top 12 in.
Bottom 8 in.
Well was finished: [X] above grade [ ] flush mounted
If finished above grade, casing height (stick up) above land surface 2 ft.
Was steel protective casing installed? [X] Yes [ ] No

	Depth to Top (ft.) [From land surface]	Depth to Bottom (ft.)	Diameter (inches)	Type and Material
Inner Casing		50	8	Seamless Steel
Outer Casing (Not Protective Casing)				
Screen (Note slot size)				
Tail Piece				
Gravel Pack				
Annular Seal/Grout		48		#I Alpha Portland
Method of Grouting	Gravity			

Static water level after drilling 93 ft.
Water level was measured using Wright & Pope
Well was developed for 1/2 hours at 1/2 gpm
Method of development Air LIFT
Was permanent pumping equipment installed? [ ] Yes [X] No
Pump capacity gpm
Pump type:
Drilling Method Rotary Percussion
Drilling Fluid Airwater Type of Rig T-R-T-4
Name of Driller Scott Clark
Health and Safety Plan submitted? [ ] Yes [X] No
Level of Protection used on site (circle one) None D C B A
N.J. License No. 1373
Name of Drilling Company J.R. DRILLING CO., LTD

GEOLOGIC LOG (Copies of other geologic logs and/or geophysical logs should be attached.)

0-2 - Topsoil
2-20 - Clay + Gravel
20-35 - Soft Limestone
35-39 - Broken Limestone
39-58 - Hard Limestone
58-59 - Broken Seam
59-145 - Hard Limestone
145-146 - Seam - water
146-175 - Hard Limestone

I certify that I have drilled the above-referenced well in accordance with all well permit requirements and all applicable State rules and regulations.

Driller's Signature Scott Clark Date 7-30-90

COPIES: White & Green - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee:
Name of Facility:
Location:
NJPDES Permit No.: NJ00 or ECRA case No.:

CERTIFICATION

Well Permit Number (As assigned by NJDEP's Bureau of Water Allocation:	2400044818
Owner's Well Number (As shown on the application or plans):	THWLS
Well Completion Date:	7/9/06
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	
Total Depth of Well to the nearest 1/2 foot:	115
Depth to Top of Screen From Top of Casing (one-hundredth of a foot):	90
Screen Length (or length of open hole) in feet:	25
Screen or Slot Size:	.020
Screen or Slot Material:	Stainless steel
Casing Material: (PVC, Steel or Other-Specify):	steel
Casing Diameter (inches):	3
Static Water Level From Top of Casing at the Time of Installation (one-hundredth of a foot):	95
Yield (gallons per minute):	8
Development Technique (specify)	Submersible pump
Length of Time Well is Developed/ Pumped or Bailed:	1 Hours 0 Minutes
Lithologic Log:	Attach

Authentication

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Arthur E Becker
Name (Type or Print)

Arthur E Becker
Signature

M1143
Certification or License No.

Seal

Certification by Executive Officer or Duly Authorized Representative

Name (Type or Print)

Signature

Title

Date

New Jersey Department of Environmental Protection
Bureau of Water Systems and Well Permitting

MONITORING WELL RECORD

Well Permit Number: 2400044818

Atlas Sheet Coordinates: 2421434

OWNER IDENTIFICATION PHILLIPSBURG ASSOCIATES

Address: 1001 HECTOR ST SUITE 100

City: CONSHOHOKEN State: Pennsylvania Zip Code: 19428

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** THWLS

County: Warren Municipality: Phillipsburg Town Lot No. 3 Block No. 12

Address: 942 MEMORIAL PARKWAY FORMER INGERSOLL RAND FACILI

WELL USE Monitoring

DATE WELL STARTED 7/5/06

DATE WELL COMPLETED 7/9/06

WELL CONSTRUCTION

Total Depth Drilled 127 ft.

Finished Well Depth 115 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface — ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 95 ft.

Water Level was Measured Using m-scope

Well was developed for 1 hours at 8 gpm

Method of development submersible pump

Pump Capacity 8 gpm

Pump Type

Drilling Fluid N/A Type of Rig —

Health and Safety Plan Submitted? ☐ Yes ☑ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	0	90	3	steel	sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	63	6	steel	19 lb
Open Hole or Screen (No. Used .020)	90	115	3	stainless	—
Blank Casings (No. Used)					
Tail Piece	—	—	—	—	—
Gravel Pack	86'	116	6	#1 well Grave	1350 lbs
Grout	0/116	86/127	6"	Neat Cement Bentonite	3924 lbs 217 lbs

Grouting Method Tremie Grout

Drilling Method —

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-64 drift Clay
64-71 hard rock Grey
71-72 soft
72-80 hard to medium Rock
80-90 soft spot in Rock
90-102 hard Grey Rock
102-111 Soft Area
111-116 hard Rock
116-119 soft spot in Rock
119-123 hard Rock
123-127 soft spot

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company S.G.S. ENVIRONMENTAL SERVICES, INC.

Well Driller (Print) Doug Dolan

Driller's Signature

Registration No. J-2416 Date 9/20/06

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: EASTING:

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

Appendix H

Groundwater Sampling Logs

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: **NJD002395382 / 99685 / 2000050 / 2004306**
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW2A
4. Well Permit Number: 24-15862

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.6
9. Total Well Depth (fbgs) 126.80
10. Screened interval/open hole (fbgs) Open hole starts at 60'
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 08:30
15. Depth to Ground Water Depth to groundwater at time of deployment: 98.89
16. Date and Time of Retrieval Date: 10/10/05 Time: 0915
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.58
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
120			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW3
4. Well Permit Number: 24-15863-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.78
9. Total Well Depth (fbgs) 117.4
10. Screened interval/open hole (fbgs) Open hole starts at 25'
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 0850
15. Depth to Ground Water Depth to groundwater at time of deployment: 83.34
16. Date and Time of Retrieval Date: 10/10/05 Time: 0935
17. Depth to Ground Water Depth to groundwater at time of retrieval: 78.93
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
115			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW4
4. Well Permit Number: 24-15864-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.9
9. Total Well Depth (fbgs) 124.7
10. Screened interval/open hole (fbgs) Open Hole starts at 40'
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 0900
15. Depth to Ground Water Depth to groundwater at time of deployment: 89.96
16. Date and Time of Retrieval Date: 10/10/05 Time: 0938
17. Depth to Ground Water Depth to groundwater at time of retrieval: 86.74
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
96	108	120	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW6
4. Well Permit Number: 2400044529/24-28445-9

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.01
9. Total Well Depth (fbgs) 195.0
10. Screened interval/open hole (fbgs) Open Hole starts at 60'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size:

14. Date and Time of Deployment Date: 9/26/05 Time: 1015
15. Depth to Ground Water Depth to groundwater at time of deployment: 99.2
16. Date and Time of Retrieval Date: 10/10/05 Time: 1110
17. Depth to Ground Water Depth to groundwater at time of retrieval: 92.69
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
110	145	187	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☒ **Yes**, flow testing of this well was conducted. Date of testing: 2005
    Type of flow meter used: Brine Test – Packer Testing
    Measurements taken every continuously feet **[Please Attach Results]**
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW11
4. Well Permit Number: 24-28444-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.92
9. Total Well Depth (fbgs) 198.5
10. Screened interval/open hole (fbgs) Open Hole Starts at 70
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 10:25
15. Depth to Ground Water Depth to groundwater at time of deployment: 94.6
16. Date and Time of Retrieval Date: 10/11/05 Time: 1140
17. Depth to Ground Water Depth to groundwater at time of retrieval: 83.77
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
100	150	190	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW12
4. Well Permit Number: 2400044525/24-28574

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.88
9. Total Well Depth (fbgs) 157.1
10. Screened interval/open hole (fbgs) Open Hole starts at 60
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 1035
15. Depth to Ground Water Depth to groundwater at time of deployment: 103.45
16. Date and Time of Retrieval Date: 10/11/05 Time: 1300
17. Depth to Ground Water Depth to groundwater at time of retrieval: 98.7
18. Type of Deployment Line Used Diameter: 3/16"` Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
110	126	156	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW13
4. Well Permit Number: 24-28713-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.95
9. Total Well Depth (fbgs) 199.20
10. Screened interval/open hole (fbgs) Open hole starts at 61'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 1425
15. Depth to Ground Water Depth to groundwater at time of deployment: 101.1
16. Date and Time of Retrieval Date: 10/10/05 Time: 1401
17. Depth to Ground Water Depth to groundwater at time of retrieval: 90.83
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
157	189		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW16
4. Well Permit Number: 24-28744-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.18
9. Total Well Depth (fbgs) 197.31
10. Screened interval/open hole (fbgs) Open hole starts at 70'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 1015
15. Depth to Ground Water Depth to groundwater at time of deployment: 98.45
16. Date and Time of Retrieval Date: 10/11/05 Time: 1105
17. Depth to Ground Water Depth to groundwater at time of retrieval: 88.34
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
130	155	190	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW18
4. Well Permit Number: 24-29054-8

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.8
9. Total Well Depth (fbgs) 113.20
10. Screened interval/open hole (fbgs) Open hole starts at 60'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/06 Time: 0810
15. Depth to Ground Water Depth to groundwater at time of deployment: 87.12
16. Date and Time of Retrieval Date: 10/11/06 Time: 0900
17. Depth to Ground Water Depth to groundwater at time of retrieval: 82.3
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
112			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled:
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW19
4. Well Permit Number: 24-29052-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.49
9. Total Well Depth (fbgs) 149.30
10. Screened interval/open hole (fbgs) Open hole starts at 63'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/06 Time: 0830
15. Depth to Ground Water Depth to groundwater at time of deployment: 100.33
16. Date and Time of Retrieval Date: 10/11/05 Time: 0935
17. Depth to Ground Water Depth to groundwater at time of retrieval: 91.57
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
135	147		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW20
4. Well Permit Number: 24-29146-3

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.88
9. Total Well Depth (fbgs) 136.60
10. Screened interval/open hole (fbgs) Open hole starts at 65'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 0820
15. Depth to Ground Water Depth to groundwater at time of deployment: 74.0
16. Date and Time of Retrieval Date: 10/11/05 Time: 0915
17. Depth to Ground Water Depth to groundwater at time of retrieval: 75.25
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
134			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW24
4. Well Permit Number: 2400044527/24-30001

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.15
9. Total Well Depth (fbgs) 148.95
10. Screened interval/open hole (fbgs) Open hole starts at 62'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Not Applicable

14. Date and Time of Deployment Date: 9/26/05 Time: 1445
15. Depth to Ground Water Depth to groundwater at time of deployment: 104.82
16. Date and Time of Retrieval Date: 10/10/05 Time: 1425
17. Depth to Ground Water Depth to groundwater at time of retrieval: 100.93
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
145			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW26
4. Well Permit Number: 24-30002

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.28
9. Total Well Depth (fbgs) 156.0
10. Screened interval/open hole (fbgs) Open hole starts at 50'
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 0950
15. Depth to Ground Water Depth to groundwater at time of deployment: 81.06
16. Date and Time of Retrieval Date: 10/11/05 Time: 1050
17. Depth to Ground Water Depth to groundwater at time of retrieval: 69.71
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
133	145		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW27
4. Well Permit Number: 24-36865

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.19
9. Total Well Depth (fbgs) 138.20
10. Screened interval/open hole (fbgs) Open hole starts at 49'.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 1415
15. Depth to Ground Water Depth to groundwater at time of deployment: 90.62
16. Date and Time of Retrieval Date: 10/10/05 Time: 1356
17. Depth to Ground Water Depth to groundwater at time of retrieval: 84.07
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
137			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW30
4. Well Permit Number: 24-36869

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.03
9. Total Well Depth (fbgs) 90.25
10. Screened interval/open hole (fbgs) Open hole starts at 50'
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 1250
15. Depth to Ground Water Depth to groundwater at time of deployment: 60.05
16. Date and Time of Retrieval Date: 10/11/06 Time: 1520
17. Depth to Ground Water Depth to groundwater at time of retrieval: 53.35
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
75			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW32
4. Well Permit Number: 24-36871

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.94
9. Total Well Depth (fbgs) 134.20
10. Screened interval/open hole (fbgs) Open hole starts at 58'.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 1340
15. Depth to Ground Water Depth to groundwater at time of deployment: 104.3
16. Date and Time of Retrieval Date: 10/10/06 Time: 1340
17. Depth to Ground Water Depth to groundwater at time of retrieval: 99.4
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
118	129		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW33A
4. Well Permit Number: 24-37362

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.04
9. Total Well Depth (fbgs) 118.61
10. Screened interval/open hole (fbgs) Open hole starts at 49'.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 1005
15. Depth to Ground Water Depth to groundwater at time of deployment: 93.72
16. Date and Time of Retrieval Date: 10/10/05 Time: 1055
17. Depth to Ground Water Depth to groundwater at time of retrieval: 90.0
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
107	120		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW34
4. Well Permit Number: 24-36984

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.13
9. Total Well Depth (fbgs) 123.37
10. Screened interval/open hole (fbgs) Open Hole starts at 75.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 0950
15. Depth to Ground Water Depth to groundwater at time of deployment: 96.45
16. Date and Time of Retrieval Date: 10/10/05 Time: 1037
17. Depth to Ground Water Depth to groundwater at time of retrieval: 91.22
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
108	113	120	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW35
4. Well Permit Number: 24-36990

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.17
9. Total Well Depth (fbgs) 143.20
10. Screened interval/open hole (fbgs) Open Hole starts at 49.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 0930
15. Depth to Ground Water Depth to groundwater at time of deployment: 97.16
16. Date and Time of Retrieval Date: 10/10/05 Time: 1015
17. Depth to Ground Water Depth to groundwater at time of retrieval: 91.38
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
122	128		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW37
4. Well Permit Number: 24-36987

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.87
9. Total Well Depth (fbgs) 103.8
10. Screened interval/open hole (fbgs) Open Hole starts at 33.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 0915
15. Depth to Ground Water Depth to groundwater at time of deployment: 56.31
16. Date and Time of Retrieval Date: 10/10/05 Time: 1004
17. Depth to Ground Water Depth to groundwater at time of retrieval: 53.25
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
60	86	98	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW47
4. Well Permit Number: 24-0042-634

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.12
9. Total Well Depth (fbgs) 138.60
10. Screened interval/open hole (fbgs) Open Hole starts at 23
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 0925
15. Depth to Ground Water Depth to groundwater at time of deployment: 100.1
16. Date and Time of Retrieval Date: 10/11/05 Time: 1000
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.71
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
136.5			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW48
4. Well Permit Number: 24-0042-635

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.2
9. Total Well Depth (fbgs) 135.1
10. Screened interval/open hole (fbgs) Open Hole starts at 23
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 0910
15. Depth to Ground Water Depth to groundwater at time of deployment: 99.58
16. Date and Time of Retrieval Date: 10/11/05 Time: 0950
17. Depth to Ground Water Depth to groundwater at time of retrieval: 96.23
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
132			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW49
4. Well Permit Number: 24-0042-636

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.75
9. Total Well Depth (fbgs) 56.78
10. Screened interval/open hole (fbgs) Open Hole starts at 38
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 1135
15. Depth to Ground Water Depth to groundwater at time of deployment: 4.95
16. Date and Time of Retrieval Date: 10/11/05 Time: 1450
17. Depth to Ground Water Depth to groundwater at time of retrieval: 4.05
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
54			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW50
4. Well Permit Number: 24-0042-637

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.8
9. Total Well Depth (fbgs) 153.30
10. Screened interval/open hole (fbgs) Open Hole starts at 58
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 1400
15. Depth to Ground Water Depth to groundwater at time of deployment: 94.45
16. Date and Time of Retrieval Date: 10/11/05 Time: 1525
17. Depth to Ground Water Depth to groundwater at time of retrieval: 86.4
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
150			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW51A
4. Well Permit Number: 24-0043-903

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.0
9. Total Well Depth (fbgs) 137.30
10. Screened interval/open hole (fbgs) Open Hole from 115-140
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Perforated steel

14. Date and Time of Deployment Date: 9/26/05 Time: 1000
15. Depth to Ground Water Depth to groundwater at time of deployment: 90.88
16. Date and Time of Retrieval Date: 10/10/05 Time: 1048
17. Depth to Ground Water Depth to groundwater at time of retrieval: 87.98
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
135			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW52
4. Well Permit Number: 24-0042-639

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.05
9. Total Well Depth (fbgs) 172.0
10. Screened interval/open hole (fbgs) Open Hole starts at 58
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size:

14. Date and Time of Deployment Date: 9/26/05 Time: 1030
15. Depth to Ground Water Depth to groundwater at time of deployment: 102.55
16. Date and Time of Retrieval Date: 10/10/05 Time: 1127
17. Depth to Ground Water Depth to groundwater at time of retrieval: 95.27
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
109	170		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW53
4. Well Permit Number: 24-0042-640

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.5
9. Total Well Depth (fbgs) 145.65
10. Screened interval/open hole (fbgs) Open Hole starts at 72
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/26/05 Time: 1250
15. Depth to Ground Water Depth to groundwater at time of deployment: 125.17
16. Date and Time of Retrieval Date: 10/10/05 Time: 1140
17. Depth to Ground Water Depth to groundwater at time of retrieval: 119.5
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
127	140		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW54
4. Well Permit Number: 24-00043-153

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.42
9. Total Well Depth (fbgs) 124.60
10. Screened interval/open hole (fbgs) Open Hole starts at 100
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 9/27/05 Time: 0940
15. Depth to Ground Water Depth to groundwater at time of deployment: 100.45
16. Date and Time of Retrieval Date: 10/11/05 Time: 1015
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.21
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
120			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW09
4. Well Permit Number: 24-27000-8
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.63
9. Total Well Depth (fbgs) 196.3
10. Screened interval/open hole (fbgs) Open Hole starts at 50
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 9/27/05 Time: 1115
15. Depth to Ground Water Depth to groundwater at time of deployment: 65.85
16. Date and Time of Retrieval Date: 10/11/05 Time: 1400
17. Depth to Ground Water Depth to groundwater at time of retrieval: 54.70
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
90	118	147	160
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**
188			

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW10
4. Well Permit Number: 2400044526/24-27061-0
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 0.82
9. Total Well Depth (fbgs) 172.23
10. Screened interval/open hole (fbgs) Open Hole starts at 50
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size:
14. Date and Time of Deployment Date: 9/26/05 Time: 1435
15. Depth to Ground Water Depth to groundwater at time of deployment: 98.45
16. Date and Time of Retrieval Date: 10/10/05 Time: 1420
17. Depth to Ground Water Depth to groundwater at time of retrieval: 95.3
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
170			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW11
4. Well Permit Number: 24-27086-5
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.32
9. Total Well Depth (fbgs) 171.50
10. Screened interval/open hole (fbgs) Open Hole starts at 50
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 9/26/05 Time: 1500
15. Depth to Ground Water Depth to groundwater at time of deployment: 86.16
16. Date and Time of Retrieval Date: 10/10/05 Time: 1430
17. Depth to Ground Water Depth to groundwater at time of retrieval: 70.37
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    - ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    - ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    - ☐ Attached to bottom of PDBS and suspended in well
    - ☒ Attached to bottom of deployment line and suspended in well
    - ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
115	170		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    - ☐ **No**, this well is being profiled during this sampling round
    - ☐ **Yes**, this well was profiled already. Date when well was profiled: _____

    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    - ☒ **No**, flow testing has not been conducted in this well
    - ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____

    Type of flow meter used: _____

    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW15
4. Well Permit Number: 24-27075-0
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.21
9. Total Well Depth (fbgs) 165.7
10. Screened interval/open hole (fbgs) Open Hole starts at 60
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 9/27/05 Time: 1050
15. Depth to Ground Water Depth to groundwater at time of deployment: 95.4
16. Date and Time of Retrieval Date: 10/11/05 Time: 1320
17. Depth to Ground Water Depth to groundwater at time of retrieval: 82.20
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
113	135	156	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW16
4. Well Permit Number: 24-27074-1
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.38
9. Total Well Depth (fbgs) 146.6
10. Screened interval/open hole (fbgs) Open Hole starts at 51
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 9/27/05 Time: 1100
15. Depth to Ground Water Depth to groundwater at time of deployment: 92.78
16. Date and Time of Retrieval Date: 10/11/05 Time: 1340
17. Depth to Ground Water Depth to groundwater at time of retrieval: 97.66
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
121	141.5		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: TH36
4. Well Permit Number: 24-23044-8
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 0.64
9. Total Well Depth (fbgs) 116.60
10. Screened interval/open hole (fbgs) Open Hole starts at 35
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☐ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 9/26/05 Time: 1325
15. Depth to Ground Water Depth to groundwater at time of deployment: 78.13
16. Date and Time of Retrieval Date: 10/10/05 Time: 1330
17. Depth to Ground Water Depth to groundwater at time of retrieval: 59.75
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
110			

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☐ Sunny ☒ Overcast ☐ Raining ☐ Snowing
28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: WW2
4. Well Permit Number: 24-10334
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) Not surveyed
9. Total Well Depth (fbgs) 503
10. Screened interval/open hole (fbgs) Open Hole starts at 233
11. Well Casing: Diameter: 10” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 10” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 10/20/05 Time: 1450
15. Depth to Ground Water Depth to groundwater at time of deployment: 85.3
16. Date and Time of Retrieval Date: 11/4/05 Time: 1300
17. Depth to Ground Water Depth to groundwater at time of retrieval: 85.6
18. Type of Deployment Line Used Diameter: 20mm Material: Teflon coated stainless steel
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
87.3	227	335	429
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**
485			

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☐ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
    Not applicable
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 70s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 70s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: **NJD002395382 / 99685 / 2000050 / 2004306**
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW2A
4. Well Permit Number: 24-15862

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.6
9. Total Well Depth (fbgs) 126.80
10. Screened interval/open hole (fbgs) Starts at 60
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 0850
15. Depth to Ground Water Depth to groundwater at time of deployment: 94.35
16. Date and Time of Retrieval Date: 5/1/06 Time: 0815
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.58
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
126			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW3
4. Well Permit Number: 24-15863-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.78
9. Total Well Depth (fbgs) 117.4
10. Screened interval/open hole (fbgs) Starts at 25
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 0905
15. Depth to Ground Water Depth to groundwater at time of deployment: 78.18
16. Date and Time of Retrieval Date: 5/1/06 Time: 0830
17. Depth to Ground Water Depth to groundwater at time of retrieval: 78.78
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
115			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway Phillipsburg, NJ
3. Well Designation: MW4
4. Well Permit Number: 24-15864-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.9
9. Total Well Depth (fbgs) 124.7
10. Screened interval/open hole (fbgs) Starts at 40
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 0915
15. Depth to Ground Water Depth to groundwater at time of deployment: 86.66
16. Date and Time of Retrieval Date: 5/1/06 Time: 0845
17. Depth to Ground Water Depth to groundwater at time of retrieval: 86.74
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
96	108	120	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW6
4. Well Permit Number: 2400044529/24-28445-9

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.01
9. Total Well Depth (fbgs) 191.99
10. Screened interval/open hole (fbgs) 170 - 195
11. Well Casing: Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: 0.040

14. Date and Time of Deployment Date: 4/17/06 Time: 0945
15. Depth to Ground Water Depth to groundwater at time of deployment: 94.25
16. Date and Time of Retrieval Date: 5/1/06 Time: 0940
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.37
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
172	187		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☐ **No**, flow testing has not been conducted in this well
    ☒ **Yes**, flow testing of this well was conducted. Date of testing: 2005
    Type of flow meter used: Brine Test – Packer Testing
    Measurements taken every continuously feet **[Please Attach Results]**
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW11
4. Well Permit Number: 24-28444-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.92
9. Total Well Depth (fbgs) 198.5
10. Screened interval/open hole (fbgs) Starts at 70
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1100
15. Depth to Ground Water Depth to groundwater at time of deployment: 89.89
16. Date and Time of Retrieval Date: 5/2/06 Time: 0800
17. Depth to Ground Water Depth to groundwater at time of retrieval: 89.91
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
100	150	190	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW12
4. Well Permit Number: 2400044525/24-28574

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.88
9. Total Well Depth (fbgs) 180.42
10. Screened interval/open hole (fbgs) 160 - 185
11. Well Casing: Diameter: 4” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Perforated steel

14. Date and Time of Deployment Date: 4/18/06 Time: 1405
15. Depth to Ground Water Depth to groundwater at time of deployment: 98.05
16. Date and Time of Retrieval Date: 5/2/06 Time: 1210
17. Depth to Ground Water Depth to groundwater at time of retrieval: 98.55
18. Type of Deployment Line Used Diameter: 3/16”` Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
163	183		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW13
4. Well Permit Number: 24-28713-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.95
9. Total Well Depth (fbgs) 196.45
10. Screened interval/open hole (fbgs) Starts at 61
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1040
15. Depth to Ground Water Depth to groundwater at time of deployment: 93.96
16. Date and Time of Retrieval Date: 5/2/06 Time: 0745
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.41
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
157	189		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW15
4. Well Permit Number: 2400044528/24-28745-8

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.99
9. Total Well Depth (fbgs) 135.51
10. Screened interval/open hole (fbgs) 125 - 150
11. Well Casing: Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Perforated carbon steel

14. Date and Time of Deployment Date: 4/18/06 Time: 1205
15. Depth to Ground Water Depth to groundwater at time of deployment: 97.88
16. Date and Time of Retrieval Date: 5/2/06 Time: 0845
17. Depth to Ground Water Depth to groundwater at time of retrieval: 98.45
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
130	136		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW16
4. Well Permit Number: 24-28744-0

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.18
9. Total Well Depth (fbgs) 194.14
10. Screened interval/open hole (fbgs) Starts at 70
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1130
15. Depth to Ground Water Depth to groundwater at time of deployment: 91.36
16. Date and Time of Retrieval Date: 5/2/06 Time: 0820
17. Depth to Ground Water Depth to groundwater at time of retrieval: 93.38
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
130	155	190	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW18
4. Well Permit Number: 24-29054-8

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.8
9. Total Well Depth (fbgs) 110.45
10. Screened interval/open hole (fbgs) Starts at 60
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1350
15. Depth to Ground Water Depth to groundwater at time of deployment: 80.65
16. Date and Time of Retrieval Date: 5/1/06 Time: 1345
17. Depth to Ground Water Depth to groundwater at time of retrieval: 82.21
18. Type of Deployment Line Used Diameter: 3/16" Material: White poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
112			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW19
4. Well Permit Number: 24-29052-1

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.49
9. Total Well Depth (fbgs) 146.76
10. Screened interval/open hole (fbgs) Starts at 63
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1420
15. Depth to Ground Water Depth to groundwater at time of deployment: 91.75
16. Date and Time of Retrieval Date: 5/1/06 Time: 1405
17. Depth to Ground Water Depth to groundwater at time of retrieval: 91.00
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
135	147		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW20
4. Well Permit Number: 24-29146-3

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.88
9. Total Well Depth (fbgs) 133.72
10. Screened interval/open hole (fbgs) Starts at 65
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1405
15. Depth to Ground Water Depth to groundwater at time of deployment: 69.05
16. Date and Time of Retrieval Date: 5/1/06 Time: 1355
17. Depth to Ground Water Depth to groundwater at time of retrieval: 69.60
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
134			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW24
4. Well Permit Number: 2400044527/24-30001

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.15
9. Total Well Depth (fbgs) 150.1
10. Screened interval/open hole (fbgs) 132-157
11. Well Casing: Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Perforated carbon steel

14. Date and Time of Deployment Date: 4/17/06 Time: 1150
15. Depth to Ground Water Depth to groundwater at time of deployment: 99.45
16. Date and Time of Retrieval Date: 5/1/06 Time: 1215
17. Depth to Ground Water Depth to groundwater at time of retrieval: 100.08
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
134	145	151	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW26
4. Well Permit Number: 24-30002

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.28
9. Total Well Depth (fbgs) 156.1
10. Screened interval/open hole (fbgs) Starts at 50
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1445
15. Depth to Ground Water Depth to groundwater at time of deployment: 67.84
16. Date and Time of Retrieval Date: 5/1/06 Time: 1430
17. Depth to Ground Water Depth to groundwater at time of retrieval: 68.01
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
133	145		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW27
4. Well Permit Number: 24-36865

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.19
9. Total Well Depth (fbgs) 135.17
10. Screened interval/open hole (fbgs) Starts at 49.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1020
15. Depth to Ground Water Depth to groundwater at time of deployment: 85.84
16. Date and Time of Retrieval Date: 5/2/06 Time: 0735
17. Depth to Ground Water Depth to groundwater at time of retrieval: 85.51
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
137			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Tony Kwiec	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW30
4. Well Permit Number: 24-36869

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.03
9. Total Well Depth (fbgs) 74.47
10. Screened interval/open hole (fbgs) Starts at 50
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1500
15. Depth to Ground Water Depth to groundwater at time of deployment: 57.94
16. Date and Time of Retrieval Date: 5/1/06 Time: 1445
17. Depth to Ground Water Depth to groundwater at time of retrieval: 57.68
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
75			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW32
4. Well Permit Number: 24-36871

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.94
9. Total Well Depth (fbgs) 131.64
10. Screened interval/open hole (fbgs) Starts at 58.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1215
15. Depth to Ground Water Depth to groundwater at time of deployment: 99.0
16. Date and Time of Retrieval Date: 5/2/06 Time: 0900
17. Depth to Ground Water Depth to groundwater at time of retrieval: 99.6
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
118	129		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW33A
4. Well Permit Number: 24-37362

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.04
9. Total Well Depth (fbgs) 118.61
10. Screened interval/open hole (fbgs) Starts at 49.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1105
15. Depth to Ground Water Depth to groundwater at time of deployment: 88.97
16. Date and Time of Retrieval Date: 5/1/06 Time: 1120
17. Depth to Ground Water Depth to groundwater at time of retrieval: 89.57
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
107	120		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW34
4. Well Permit Number: 24-36984

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.13
9. Total Well Depth (fbgs) 123.37
10. Screened interval/open hole (fbgs) Starts at 75.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1040
15. Depth to Ground Water Depth to groundwater at time of deployment: 92.05
16. Date and Time of Retrieval Date: 5/1/06 Time: 1035
17. Depth to Ground Water Depth to groundwater at time of retrieval: 92.57
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
108	113	120	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW35
4. Well Permit Number: 24-36990

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.17
9. Total Well Depth (fbgs) 143.26
10. Screened interval/open hole (fbgs) Starts at 49.5
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1005
15. Depth to Ground Water Depth to groundwater at time of deployment: 93.35
16. Date and Time of Retrieval Date: 5/1/06 Time: 1000
17. Depth to Ground Water Depth to groundwater at time of retrieval: 93.09
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
122	128		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW37
4. Well Permit Number: 24-36987

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.87
9. Total Well Depth (fbgs) 101.63
10. Screened interval/open hole (fbgs) Starts at 33.5
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 0930
15. Depth to Ground Water Depth to groundwater at time of deployment: 54.54
16. Date and Time of Retrieval Date: 5/1/06 Time: 0900
17. Depth to Ground Water Depth to groundwater at time of retrieval: 54.58
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
60	86	98	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW47
4. Well Permit Number: 24-0042-634

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.12
9. Total Well Depth (fbgs) 136.63
10. Screened interval/open hole (fbgs) Starts at 23
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1330
15. Depth to Ground Water Depth to groundwater at time of deployment: 94.31
16. Date and Time of Retrieval Date: 5/1/06 Time: 1335
17. Depth to Ground Water Depth to groundwater at time of retrieval: 94.53
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
136.5			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW48
4. Well Permit Number: 24-0042-635

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.2
9. Total Well Depth (fbgs) 133.2
10. Screened interval/open hole (fbgs) Starts at 23
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1435
15. Depth to Ground Water Depth to groundwater at time of deployment: 96.5
16. Date and Time of Retrieval Date: 5/1/06 Time: 1420
17. Depth to Ground Water Depth to groundwater at time of retrieval: 96.70
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
132			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW49
4. Well Permit Number: 24-0042-636

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.75
9. Total Well Depth (fbgs) 54.73
10. Screened interval/open hole (fbgs) Starts at 38
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/18/06 Time: 1445
15. Depth to Ground Water Depth to groundwater at time of deployment: 4.05
16. Date and Time of Retrieval Date: 5/2/06 Time: 1315
17. Depth to Ground Water Depth to groundwater at time of retrieval: 4.44
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
54			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW50
4. Well Permit Number: 24-0042-637

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.8
9. Total Well Depth (fbgs) 151.52
10. Screened interval/open hole (fbgs) Starts at 58
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1025
15. Depth to Ground Water Depth to groundwater at time of deployment: 90.45
16. Date and Time of Retrieval Date: 5/1/06 Time: 1015
17. Depth to Ground Water Depth to groundwater at time of retrieval: 90.04
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
150			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW51A
4. Well Permit Number: 24-0043-903

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.0
9. Total Well Depth (fbgs) 133.25
10. Screened interval/open hole (fbgs) 115-140
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: Perforated steel

14. Date and Time of Deployment Date: 4/17/06 Time: 1055
15. Depth to Ground Water Depth to groundwater at time of deployment: 86.04
16. Date and Time of Retrieval Date: 5/1/06 Time: 1105
17. Depth to Ground Water Depth to groundwater at time of retrieval: 86.64
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
135			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW52
4. Well Permit Number: 24-0042-639

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 2.05
9. Total Well Depth (fbgs) 170.35
10. Screened interval/open hole (fbgs) Starts at 58
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size:

14. Date and Time of Deployment Date: 4/17/06 Time: 1135
15. Depth to Ground Water Depth to groundwater at time of deployment: 97.36
16. Date and Time of Retrieval Date: 5/1/06 Time: 1200
17. Depth to Ground Water Depth to groundwater at time of retrieval: 97.35
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
109	170		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW53
4. Well Permit Number: 24-0042-640

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 3.5
9. Total Well Depth (fbgs) 159.48
10. Screened interval/open hole (fbgs) Starts at 72
11. Well Casing: Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1120
15. Depth to Ground Water Depth to groundwater at time of deployment: 121.75
16. Date and Time of Retrieval Date: 5/1/06 Time: 1140
17. Depth to Ground Water Depth to groundwater at time of retrieval: 121.81
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn’t filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
127	140		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: MW54
4. Well Permit Number: 24-00043-153

5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.42
9. Total Well Depth (fbgs) 125.02
10. Screened interval/open hole (fbgs) Starts at 100
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA

14. Date and Time of Deployment Date: 4/17/06 Time: 1310
15. Depth to Ground Water Depth to groundwater at time of deployment: 95.36
16. Date and Time of Retrieval Date: 5/1/06 Time: 1320
17. Depth to Ground Water Depth to groundwater at time of retrieval: 95.52
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly

19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
120			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW09
4. Well Permit Number: 24-27000-8
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.63
9. Total Well Depth (fbgs) 196.3
10. Screened interval/open hole (fbgs) Starts at 50
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1555
15. Depth to Ground Water Depth to groundwater at time of deployment: 62.07
16. Date and Time of Retrieval Date: 5/2/06 Time: 1435
17. Depth to Ground Water Depth to groundwater at time of retrieval: 59.86
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    - ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    - ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    - ☐ Attached to bottom of PDBS and suspended in well
    - ☒ Attached to bottom of deployment line and suspended in well
    - ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
90	118	147	160
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**
188			

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    - ☒ **No**, this well is being profiled during this sampling round
    - ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    - ☒ **No**, flow testing has not been conducted in this well
    - ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
      Type of flow meter used: _____
      Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW10
4. Well Permit Number: 2400044526/24-27061-0
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 0.82
9. Total Well Depth (fbgs) 171.93
10. Screened interval/open hole (fbgs) 150-175
11. Well Casing: Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 4" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: 0.040
14. Date and Time of Deployment Date: 4/17/06 Time: 1208
15. Depth to Ground Water Depth to groundwater at time of deployment: 91.13
16. Date and Time of Retrieval Date: 5/1/06 Time: 1230
17. Depth to Ground Water Depth to groundwater at time of retrieval: 91.27
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    - ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    - ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    - ☐ Attached to bottom of PDBS and suspended in well
    - ☒ Attached to bottom of deployment line and suspended in well
    - ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
152	170		

5th PDBS	6th PDBS	7th PDBS	8th PDBS

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    - ☒ **No**, this well is being profiled during this sampling round
    - ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    - ☒ **No**, flow testing has not been conducted in this well
    - ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
      Type of flow meter used: _____
      Measurements taken every _____ feet **[Please Attach Results]**

Temp.	60s	Wind	Light	☒ Sunny	☐ Overcast	☐ Raining	☐ Snowing
Temp.	60s	Wind	Light	☒ Sunny	☐ Overcast	☐ Raining	☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW11
4. Well Permit Number: 24-27086-5
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) -0.32
9. Total Well Depth (fbgs) 172.12
10. Screened interval/open hole (fbgs) Starts at 50
11. Well Casing: Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8” Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/17/06 Time: 1255
15. Depth to Ground Water Depth to groundwater at time of deployment: 58.76
16. Date and Time of Retrieval Date: 5/1/06 Time: 1310
17. Depth to Ground Water Depth to groundwater at time of retrieval: 58.71
18. Type of Deployment Line Used Diameter: 3/16” Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
115	170		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Andrew Mosuly	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW14
4. Well Permit Number: 24-27126-8
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.29
9. Total Well Depth (fbgs) 140.81
10. Screened interval/open hole (fbgs) Starts at 130
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1225
15. Depth to Ground Water Depth to groundwater at time of deployment: 96.8
16. Date and Time of Retrieval Date: 5/2/06 Time: 0915
17. Depth to Ground Water Depth to groundwater at time of retrieval: 97.32
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
140			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW15
4. Well Permit Number: 24-27075-0
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.21
9. Total Well Depth (fbgs) 165.4
10. Screened interval/open hole (fbgs) Starts at 60
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1415
15. Depth to Ground Water Depth to groundwater at time of deployment: 87.08
16. Date and Time of Retrieval Date: 5/2/06 Time: 1235
17. Depth to Ground Water Depth to groundwater at time of retrieval: 87.81
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
113	135	156	
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: RW16
4. Well Permit Number: 24-27074-1
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 1.38
9. Total Well Depth (fbgs) 146.6
10. Screened interval/open hole (fbgs) Starts at 51
11. Well Casing: Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 8" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1610
15. Depth to Ground Water Depth to groundwater at time of deployment: 97.37
16. Date and Time of Retrieval Date: 5/2/06 Time: 1515
17. Depth to Ground Water Depth to groundwater at time of retrieval: 97.93
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
121	141.5		
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: TH36
4. Well Permit Number: 24-23044-8
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) 0.64
9. Total Well Depth (fbgs) 115.89
10. Screened interval/open hole (fbgs) Starts at 35
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1300
15. Depth to Ground Water Depth to groundwater at time of deployment: 70.4
16. Date and Time of Retrieval Date: 5/2/06 Time: 0925
17. Depth to Ground Water Depth to groundwater at time of retrieval: 69.71
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
110			
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: THWLS
4. Well Permit Number: 24-23178
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☒ Stick Up ☐ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) _____
9. Total Well Depth (fbgs): 124.85
10. Screened interval/open hole (fbgs): Starts at 60
11. Well Casing: Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1310
15. Depth to Ground Water Depth to groundwater at time of deployment: 96.25
16. Date and Time of Retrieval Date: 5/2/06 Time: 0940
17. Depth to Ground Water Depth to groundwater at time of retrieval: 96.71
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight: 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    - ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    - ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    - ☐ Attached to bottom of PDBS and suspended in well
    - ☒ Attached to bottom of deployment line and suspended in well
    - ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
104	110	116	123
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    - ☒ **No**, this well is being profiled during this sampling round
    - ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    - ☒ **No**, flow testing has not been conducted in this well
    - ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
      Type of flow meter used: _____
      Measurements taken every _____ feet **[Please Attach Results]**

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: WW2
4. Well Permit Number: 24-10334
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) Not surveyed
9. Total Well Depth (fbgs) 503
10. Screened interval/open hole (fbgs) 233
11. Well Casing: Diameter: 10" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 10" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1335
15. Depth to Ground Water Depth to groundwater at time of deployment: 87.92
16. Date and Time of Retrieval Date: 5/2/06 Time: 1010
17. Depth to Ground Water Depth to groundwater at time of retrieval: 88.35
18. Type of Deployment Line Used Diameter: 20mm Material: Teflon coated stainless steel
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
85	227	335	429
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**
485			

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

New Jersey Department of Environmental Protection

Checklist for the Submission of Sampling Data for Passive Diffusion Bag Samplers (PDBS)

1. Site: Former Ingersoll Rand Facility — Case Number: NJD002395382 / 99685 / 2000050 / 2004306
2. Location: 942 Memorial Parkway, Phillipsburg, NJ
3. Well Designation: WW3
4. Well Permit Number: No NJDEP Records - requested 6/7/05 - confirmed by NJDEP 6/14/05
5. Type of Well: ☒ Monitoring ☐ Extraction ☐ Residential ☐ Public Supply ☐ Irrigation ☐ Other
6. Well Surface Finish: ☐ Stick Up ☒ Flush Mount
7. Location of Measuring Point: ☒ Top of Casing ☐ Other (specify)
8. **NOTE:** PDBS represent a point sample within the screened interval or open hole of the well. It is critical to know the exact depth within the well where the PDBS is deployed. Well construction specifications, which are typically used to determine where to set the PDBS in the well, are measured in feet below ground surface (fbgs). If the depth interval for PDBS deployment is measured from the reference point identified above, the difference between this reference point and the ground surface must be measured and accounted for to determine the proper depth interval to set the PDBS. Please identify below any differences between the measuring point identified above and actual ground surface at the well head.

   Distance between measuring point and ground surface (ft.) Not surveyed
9. Total Well Depth (fbgs) 806
10. Screened interval/open hole (fbgs) Starts at 95 (6") & 201 (10")
11. Well Casing: Diameter: 10" and 6" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
12. Well Screen (or open hole diameter): Diameter: 10" Material: ☐ PVC ☒ Carbon Steel ☐ Stainless Steel
13. Screen Size (slot) Screen Slot Size: NA
14. Date and Time of Deployment Date: 4/18/06 Time: 1520
15. Depth to Ground Water Depth to groundwater at time of deployment: 95.5
16. Date and Time of Retrieval Date: 5/2/06 Time: 1335
17. Depth to Ground Water Depth to groundwater at time of retrieval: 96.0
18. Type of Deployment Line Used Diameter: 3/16" Material: White Poly
19. Material and Mass (oz.) of PDBS Weight 20 oz Stainless Steel (stainless steel recommended)
20. Type of PDBS Used
    ☐ Lab filled (Modified Trip Blank must be taken at time of deployment)
    ☒ Field Filled (modified equipment blank of fill water must be taken at time of deployment. If PDBS isn't filled at well head, blank must travel with samplers until last sampler is deployed. Blank is then taken.)
21. Dimensions of PDBS Length (in.) 18 Diameter (in.) 1.75 Filled 350 ml
22. Position of PDBS Weight
    ☐ Attached to bottom of PDBS and suspended in well
    ☒ Attached to bottom of deployment line and suspended in well
    ☐ Attached to bottom of deployment line and resting on bottom of well (preferred)
23. Position of PDBS in Well Screen (ft. from measuring point to center of PDBS)

1st PDBS	2nd PDBS	3rd PDBS	4th PDBS
98	215	292	341
5th PDBS	**6th PDBS**	**7th PDBS**	**8th PDBS**
472	615	725	757

24. If the saturated portion of the well screen or open hole is greater than 5 feet, has the well been vertically profiled to assess the potential for contaminant stratification?
    ☒ **No**, this well is being profiled during this sampling round
    ☐ **Yes**, this well was profiled already. Date when well was profiled: _____
25. If the saturated portion of the well screen or open hole is greater than 10 feet, has the well been flow tested to assess the potential for vertical flow to be present within the well?
    ☒ **No**, flow testing has not been conducted in this well
    ☐ **Yes**, flow testing of this well was conducted. Date of testing: _____
    Type of flow meter used: _____
    Measurements taken every _____ feet **[Please Attach Results]**

    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing
    Temp. 60s Wind Light ☒ Sunny ☐ Overcast ☐ Raining ☐ Snowing

28. Field Sampling Technician: Name(s) and Company (please print clearly)

Name	Company
Tony Kwiec	ENSR
Jeff Holzer	ENSR

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Groundwater Purging and Sampling Field Log

Well ID #: MW1

Date: 10/12/2005

Page 1 of 1

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	46.95 gallons
Depth to Water (ft):	95.23	feet		
Depth to Bottom (ft):	127.1	feet	Minimum Volume to be Purged (gal):	140.00 gallons
Height of Water Column (ft):	31.87	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump
Purge Times:	9:13 to 10:25
Sampling Time:	10:30
Analytical Parameters:	VO+10

	Before Purge	During Purge	Before Sampling	Notes:
Time	09:13	09:50	10:25	The purge water is clear and odorless.
Depth to Water (ft.)	95.50	95.97	96.05	The pump is set 99 feet below top of casing.
pH (SU)	5.87	7.20	7.79	
Temp. (^oC)	13.97	14.62	17.41	
DO (mg/l)	10.58	10.15	9.88	
Cond. (mS/cm)	0.296	0.263	0.259	
Turbidity (Ntu)	130	21	58	
ORP (mV)	263	187	194	
Est. Purge Vol. (gal.)	140.0			
Average Purge Rate (gal/min.)	2 gal/min			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW3**

Date: **10/12/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.56 feet			
Depth to Bottom (ft):	117.2 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	8:40 to 9:35
Sampling Time:	9:40
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	8:43	8:47	8:51	8:55	9:00	9:03	9:06	9:10	9:14
Depth to Water (ft.)	78.59	78.59	78.59	78.59	78.59	78.59	78.59	78.59	78.59
pH (SU)	6.55	6.79	6.89	6.91	6.93	6.95	6.96	6.96	6.96
Temp. (^oC)	13.50	14.09	14.19	14.23	14.23	14.26	14.27	14.28	14.30
DO (mg/l)	9.31	8.87	8.30	8.00	7.61	7.20	7.09	6.95	6.81
Cond. (S/cm)	1.06	1.06	1.05	1.04	1.04	1.04	1.04	1.04	1.04
Turbidity (Ntu)	26	26	16	10.0	10.0	13	14.0	12.0	10.0
ORP (mV)	-1	-43	-49	-35	-17	5	12	18.00	25.00
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 115' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **MW3**

Date: **10/12/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.56 feet			
Depth to Bottom (ft):	117.2 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	8:40 to 9:35
Sampling Time:	9:40
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	9:18	9:22	9:26	9:29	9:32	9:35			9:35
Depth to Water (ft.)	78.59	78.59	78.60	78.60	78.60	78.60			78.60
pH (SU)	6.97	6.97	6.97	6.97	6.97	6.97			6.97
Temp. (^oC)	14.31	14.30	14.31	14.31	14.29	14.27			14.27
DO (mg/l)	6.70	6.57	6.41	6.43	6.42	6.41			6.41
Cond. (S/cm)	1.04	1.04	1.04	1.04	1.04	1.04			1.04
Turbidity (Ntu)	10	9	8	8.0	7.0	7			7
ORP (mV)	31	36	38	39	41	41			41
Est. Purge Vol. (gal.)								Total Purge= 15 gal	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min			
PID (ppm)	NA								
Notes:	Pump is set at 115' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW4**

Date: **10/12/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	85.2 feet			
Depth to Bottom (ft):	127.45 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	10:25 to 10:57
Sampling Time:	11:00
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	**During Purge**							**Before Sampling**
Time	10:29	10:33	10:37	10:41	10:44	10:48	10:52		10:57
Depth to Water (ft.)	85.36	85.37	85.40	85.40	85.40	85.40	85.40		85.40
pH (SU)	6.77	6.80	6.81	6.80	6.79	6.78	6.78		6.78
Temp. (^oC)	15.09	15.01	15.01	14.99	15.05	15.08	15.03		15.04
DO (mg/l)	5.59	5.48	5.31	5.23	5.10	5.02	4.97		4.98
Cond. (S/cm)	1.48	1.49	1.49	1.50	1.50	1.50	1.50		1.50
Turbidity (Ntu)	4	12	17	22	26	32	34		36
ORP (mV)	48	48	47	41	37	32	30		29.00
Est. Purge Vol. (gal.)								Total Purge= 8 gal	
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0	1.0			
PID (ppm)	NA								
Notes:	Pump is set at 108' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW6

Date: 10/22/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.56 feet			
Depth to Bottom (ft):	117.2 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	8:40 to 9:35
Sampling Time:	9:40
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	9:18	9:22	9:26	9:29	9:32				9:35
Depth to Water (ft.)	78.59	78.59	78.60	78.60	78.60				78.60
pH (SU)	6.97	6.97	6.97	6.97	6.97				6.97
Temp. (^oC)	14.31	14.30	14.31	14.31	14.29				14.27
DO (mg/l)	6.70	6.57	6.41	6.43	6.42				6.41
Cond. (S/cm)	1.04	1.04	1.04	1.04	1.04				1.04
Turbidity (Ntu)	10	9	8	8.0	7.0				7
ORP (mV)	31	36	38	39	41				41
Est. Purge Vol. (gal.)								Total Purge = 15 gal	
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0				1.00
PID (ppm)	NA								
Notes:	Pump is set at 115' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW12

Date: 10/17/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	95.24 feet			
Depth to Bottom (ft):	NA feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:43 to 15:15
Sampling Time:	15:20
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	14:43	14:47	14:51	14:55	15:00	15:04	15:08	15:13	15:17
Depth to Water (ft.)	95.07	95.12	95.19	95.24	95.37	95.41	95.47	95.59	95.71
pH (SU)	7.26	7.20	7.17	7.17	7.17	7.17	7.17	7.18	7.19
Temp. (^oC)	13.37	14.30	14.58	14.55	14.56	14.53	14.52	14.54	14.55
DO (mg/l)	7.77	6.39	6.01	5.90	5.83	5.76	5.70	5.67	5.63
Cond. (mS/cm)	0.877	0.870	0.874	0.875	0.876	0.876	0.876	0.876	0.876
Turbidity (Ntu)	57.0	38.0	32.0	28.0	22.0	20.0	18.0	15.00	16.0
ORP (mV)	-85	-92	-94	-97	-97	-97	-97	-97	-97
Est. Purge Vol. (gal.)								Total Purge=15 Liters	
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 127 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW15

Date: 10/20/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	4	inches	Volume of Standing Water (gal):	83 gallons
Depth to Water (ft):	95.64	feet		
Depth to Bottom (ft):	127.5	feet	Minimum Volume to be Purged (gal):	200 gallons
Height of Water Column (ft):	31.9	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump		
Purge Times:	12:22	to	14:00
Sampling Time:	14:05		
Analytical Parameters:	VO+10		

	Before Purge	During Purge	Before Sampling	Notes:
Time	12:25	13:10	14:00	The purge water is clear with a purge rate of 3 gallons/minute.
Depth to Water (ft.)	95.85	95.85	95.85	The pump is set at 98 feet below top of casing.
pH (SU)	7.05	7.01	6.99	
Temp. (^oC)	16.62	16.58	16.15	
DO (mg/l)	6.80	10.10	6.27	
Cond. (mS/cm)	0.600	0.608	0.614	
Turbidity (Ntu)	7.0	0.0	2.0	
ORP (mV)	195	206	210	
Est. Purge Vol. (gal.)	250.0			
Average Purge Rate (gal/min.)	3.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

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Groundwater Purging and Sampling Field Log

Well ID #: MW16

Date: 10/17/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	84.5 feet			
Depth to Bottom (ft):	197.1 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	13:15 to 13:56
Sampling Time:	14:00
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	13:20	13:23	13:27	13:31	13:35	13:39	13:43	13:46	13:49
Depth to Water (ft.)	84.96	85.23	85.61	85.75	85.90	85.18	85.27	85.36	85.47
pH (SU)	7.46	7.45	7.45	7.46	7.46	7.46	7.47	7.47	7.47
Temp. (^oC)	15.22	15.23	15.24	15.89	16.00	16.03	16.07	16.09	16.11
DO (mg/l)	7.15	6.09	5.71	5.61	5.57	5.50	5.48	5.45	5.42
Cond. (mS/cm)	0.870	0.859	0.853	0.852	0.852	0.854	0.853	0.852	0.852
Turbidity (Ntu)	73.0	11.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0
ORP (mV)	145	109	83	80	76	66	64	64	62
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 155 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW16

Date: 10/17/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0802

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	84.5 feet			
Depth to Bottom (ft):	197.1 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	13:15 to 13:56
Sampling Time:	14:00
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	13:53								13:56
Depth to Water (ft.)	85.57								85.71
pH (SU)	7.48								7.48
Temp. (^oC)	16.12								16.11
DO (mg/l)	5.39								5.37
Cond. (mS/cm)	0.852								0.852
Turbidity (Ntu)	0.0								0.0
ORP (mV)	61								61
Est. Purge Vol. (gal.)								Total Purge=19.5 Liters	
Purge Rate (L/min.)	0.5 L/min								
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 155 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW18

Date: 10/14/2005

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Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	80.13 feet			
Depth to Bottom (ft):	113.2 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:35 to 9:59
Sampling Time:	10:05
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	9:35	9:39	9:43	9:47	9:50	9:54			9:59
Depth to Water (ft.)	80.16	80.18	80.19	80.20	80.20	80.20			80.20
pH (SU)	7.20	7.21	7.21	7.18	7.14	7.14			7.15
Temp. (^oC)	13.19	13.40	13.42	13.39	14.00	14.07			14.04
DO (mg/l)	8.38	5.31	5.23	5.26	5.07	5.00			5.03
Cond. (mS/cm)	0.636	0.637	0.637	0.637	0.637	0.637			0.636
Turbidity (Ntu)	45.0	45.0	47.0	39.0	34.0	34.0			32.0
ORP (mV)	108	47	40	40	28	27			26
Est. Purge Vol. (gal.)								Total Purge = 24 Liters	
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0	1.0			1.0
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 90 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW20

Date: 10/14/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	67.81 feet			
Depth to Bottom (ft):	136.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	11:08 to 11:43
Sampling Time:	11:50
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	11:08	11:11	11:14	11:18	11:24	11:28	11:32	11:36	11:40
Depth to Water (ft.)	67.90	67.90	67.90	67.91	67.91	67.92	67.93	67.93	67.93
pH (SU)	7.18	7.17	7.18	7.19	7.17	7.17	7.12	7.13	7.13
Temp. (^oC)	12.75	12.84	12.86	12.90	12.52	12.62	12.70	12.67	12.72
DO (mg/l)	6.74	6.40	6.40	5.71	5.20	5.05	5.12	5.09	5.07
Cond. (mS/cm)	0.709	0.708	0.709	0.710	0.738	0.736	0.735	0.738	0.737
Turbidity (Ntu)	300.0	290.0	210.0	150.0	120.0	87.0	91.0	48.00	44.0
ORP (mV)	-130	-131	-128	-111	-168	-176	-164	-174	-175
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 134 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW20

Date: 10/14/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0802

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	67.81 feet			
Depth to Bottom (ft):	136.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	11:08 to 11:43
Sampling Time:	11:50
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	11:43								11:43
Depth to Water (ft.)	67.93								67.93
pH (SU)	7.13								7.13
Temp. (^oC)	12.76								12.76
DO (mg/l)	5.05								5.05
Cond. (mS/cm)	0.736								0.736
Turbidity (Ntu)	45.0								45.0
ORP (mV)	-176								-176
Est. Purge Vol. (gal.)								Total Purge=17.5 Liters	
Purge Rate (L/min.)	0.50								
PID (ppm)	NA								

Notes: The purge water is clear with no odor present. The pump set at 134 feet below top of casing.

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW30

Date: 10/17/2005

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Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	53.35 feet			
Depth to Bottom (ft):	90.25 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:18 to 9:47
Sampling Time:	9:55
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	9:18	9:21	9:24	9:27	9:31	9:35	9:39	9:43	9:47
Depth to Water (ft.)	53.42	53.42	53.43	53.44	53.44	53.57	53.55	53.56	53.57
pH (SU)	6.45	6.73	6.77	7.12	7.13	7.25	7.27	7.29	7.30
Temp. (^oC)	13.30	14.09	14.15	14.35	14.31	13.94	13.92	13.94	13.95
DO (mg/l)	7.23	6.94	6.89	6.84	6.86	6.86	6.84	6.83	6.84
Cond. (mS/cm)	0.569	0.567	0.570	0.571	0.572	0.559	0.562	0.560	0.559
Turbidity (Ntu)	140.0	140.0	120.0	110.0	0.0	0.0	0.0	0.00	0.0
ORP (mV)	221	190	150	124	121	111	106	103	102
Est. Purge Vol. (gal.)								Total Purge = 29 L	
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 75 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW33A

Date: 10/13/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	88.57 feet			
Depth to Bottom (ft):	121.7 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	14:57	to	15:15
Sampling Time:	15:20		
Analytical Parameters:	Monitored Natural Attenuation Parameters		

	Before Purge	During Purge							Before Sampling
Time	14:57	15:00	15:04	15:08	15:12				15:15
Depth to Water (ft.)	88.60	88.60	88.60	88.61	88.61				88.61
pH (SU)	7.23	7.24	7.24	7.23	7.24				7.24
Temp. (^oC)	16.33	16.34	16.48	16.56	16.57				16.61
DO (mg/l)	7.23	6.94	6.89	6.84	7.56				7.55
Cond. (mS/cm)	0.972	0.972	0.972	0.972	0.973				0.973
Turbidity (Ntu)	14.0	16.0	18.0	17.0	19.0				21.0
ORP (mV)	67	66	60	57	54				53
Est. Purge Vol. (gal.)									**Total Purge=**18L
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0				1.0
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 107 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW34

Date: 10/13/2005

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Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	90.71 feet			
Depth to Bottom (ft):	126.5 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	10:25 to 10:43
Sampling Time:	10:50
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	10:25	10:29	10:33	10:37	10:40				10:43
Depth to Water (ft.)	90.71	90.71	90.71	90.71	90.71				90.71
pH (SU)	7.12	7.15	7.17	7.17	7.17				7.18
Temp. (^oC)	15.94	16.71	16.74	16.82	16.85				16.89
DO (mg/l)	9.00	8.00	7.79	7.67	7.63				7.66
Cond. (mS/cm)	0.803	0.817	0.824	0.823	0.822				0.822
Turbidity (Ntu)	40.0	26.0	26.0	28.0	29.0				31.0
ORP (mV)	91	72	68	64	64				62
Est. Purge Vol. (gal.)								Total Purge = 9 L	
Purge Rate (L/min.)	0.5	0.5	0.5	0.5	0.5				0.5
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 113 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW35

Date: 10/12/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	91.4 feet			
Depth to Bottom (ft):	143.2 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:10 to 14:31
Sampling Time:	14:40
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	14:12	14:16	14:19	14:23	14:27				14:31
Depth to Water (ft.)	90.71	90.71	90.71	90.71	91.39				91.39
pH (SU)	7.07	7.05	7.05	7.05	7.05				7.04
Temp. (^oC)	13.92	14.18	14.17	14.20	14.19				14.18
DO (mg/l)	9.62	9.43	9.43	9.37	9.36				9.35
Cond. (mS/cm)	0.870	0.870	0.869	0.869	0.868				0.868
Turbidity (Ntu)	3.0	2.0	2.0	3.0	5.0				6.0
ORP (mV)	91	84	83	82	81				80
Est. Purge Vol. (gal.)								Total Purge = 19 L	
Purge Rate (L/min.)	1.0	1.0	1.0	1.0	1.0				1.0
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 122 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW 37

Date: 10/12/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	52.36 feet			
Depth to Bottom (ft):	103.8 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	12:55 to 13:18
Sampling Time:	13:25
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	12:57	13:00	13:04	13:07	13:11	13:14			13:18
Depth to Water (ft.)	52.38	52.38	52.38	52.38	52.38	52.38			52.38
pH (SU)	7.30	7.24	7.18	7.19	7.20	7.21			7.22
Temp. (^oC)	12.68	13.32	13.58	13.63	13.60	13.61			13.60
DO (mg/l)	9.41	9.17	9.41	9.24	9.29	9.27			9.23
Cond. (S/cm)	0.790	0.788	0.807	0.806	0.807	0.807			0.807
Turbidity (Ntu)	118	107	64	57.0	56.0	53			51.0
ORP (mV)	145	126	110	100	194	53			51
Est. Purge Vol. (gal.)								Total Purge =11 Liters	
Purge Rate (L/min.)	0.50	0.50	0.50	0.50	0.50	0.50			0.50
PID (ppm)	NA								
Notes:	Purge water is clear and odorless. The pump is set at 86 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW42**

Date: **10/13/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	79.28 feet			
Depth to Bottom (ft):	122.85 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:00 to 9:40
Sampling Time:	9:45
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	**During Purge**							
Time	9:00	9:04	9:08	9:12	9:16	9:20	9:24	9:28	9:32
Depth to Water (ft.)	79.33	79.33	79.33	79.33	79.33	79.33	79.33	79.33	79.33
pH (SU)	6.62	6.74	6.96	7.02	7.10	7.17	7.20	7.21	7.22
Temp. (^oC)	13.42	13.50	13.66	13.65	13.74	13.78	13.86	13.95	13.93
DO (mg/l)	9.27	9.25	9.21	9.20	9.09	9.04	9.00	8.96	9.11
Cond. (S/cm)	0.726	0.730	0.731	0.731	0.731	0.732	0.732	0.732	0.739
Turbidity (Ntu)	44.0	46.0	61.0	66.0	60.0	86.0	83.0	87.0	20.0
ORP (mV)	214	201	180	176	154	141	132	126.0	115.0
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PID (ppm)	NA								
Notes:	Water is clear and odorless. At 9:29 stopped purge to empty flow through cell due to small bubbles forming. The pump is set at 118 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW42**

Date: **10/13/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	79.28 feet			
Depth to Bottom (ft):	122.85 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:00 to 9:40
Sampling Time:	9:45
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	9:36								9:40
Depth to Water (ft.)	79.33								79.33
pH (SU)	7.22								7.23
Temp. (^oC)	13.99								14.00
DO (mg/l)	9.08								9.09
Cond. (S/cm)	0.738								0.738
Turbidity (Ntu)	21.0								22.0
ORP (mV)	105								106.00
Est. Purge Vol. (gal.)								Total Purge=40 Liters	
Purge Rate (L/min.)	1.00								
PID (ppm)	NA								
Notes:	Water is clear and odorless. At 9:29 stopped purge to empty flow through cell due to small bubbles forming. The pump is set at 118 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW47**

Date: **10/14/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	88.95 feet			
Depth to Bottom (ft):	138.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	8:07 to 8:43
Sampling Time:	8:50
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	8:07	8:11	8:14	8:18	8:22	8:26	8:30	8:35	8:39
Depth to Water (ft.)	88.80	88.81	88.81	88.82	88.84	88.84	88.85	88.86	88.87
pH (SU)	6.36	6.56	6.84	6.98	7.05	7.06	7.07	7.09	7.10
Temp. (^oC)	12.49	12.76	13.06	13.13	13.20	13.22	13.22	13.27	13.26
DO (mg/l)	9.62	9.54	9.47	9.48	9.44	9.43	9.44	9.40	9.40
Cond. (S/cm)	0.716	0.714	0.712	0.709	0.709	0.708	0.708	0.707	0.707
Turbidity (Ntu)	84.0	80.0	71.0	70.0	68.0	66.0	64.0	30.0	27.0
ORP (mV)	223	209	170	148	133	129	126	121.00	120.00
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.75L/min	0.75L/min	0.75L/min	0.75L/min	0.75L/min	0.75L/min	0.75L/min	0.75L/min	0.75L/min
PID (ppm)	NA								
Notes:	Water is clear and odorless. The pump is set at 136.5 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW47**

Date: **10/14/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	88.95 feet			
Depth to Bottom (ft):	138.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	8:07 to 8:43
Sampling Time:	8:50
Analytical Parameters:	Monitored Natural Attenuation Parameters

									Before Sampling
Time									8:43
Depth to Water (ft.)									88.89
pH (SU)									7.10
Temp. (^oC)									13.26
DO (mg/l)									9.39
Cond. (S/cm)									0.707
Turbidity (Ntu)									26.0
ORP (mV)									121
Est. Purge Vol. (gal.)								Total Purge=33 Liters	
Purge Rate (L/min.)									
PID (ppm)									
Notes:	Water is clear and odorless. The pump is set at 136.5 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW49**

Date: **10/22/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	3.54 feet			
Depth to Bottom (ft):	56.78 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:35 to 10:13
Sampling Time:	10:20
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	9:35	9:38	9:42	9:45	9:49	9:52	9:55	9:59	10:02
Depth to Water (ft.)	3.57	3.57	3.58	3.58	3.58	3.58	3.58	3.58	3.58
pH (SU)	6.42	6.63	6.84	6.94	7.09	7.21	7.23	7.70	7.35
Temp. (^oC)	11.40	11.41	11.44	11.47	11.50	11.53	11.50	11.51	11.53
DO (mg/l)	9.22	9.09	9.00	8.94	8.89	8.93	8.92	8.94	8.95
Cond. (S/cm)	0.658	0.659	0.656	0.653	0.651	0.650	0.650	0.650	0.649
Turbidity (Ntu)	11.0	7.0	10.0	9.0	11.0	11.0	12.0	11.0	12.0
ORP (mV)	222	213	197	192	181	170	108	116.00	111.00
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	Water is clear and odorless. The pump is set at 54 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **MW49**

Date: **10/22/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	3.54 feet			
Depth to Bottom (ft):	56.78 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	9:35 to 10:13
Sampling Time:	10:20
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	10:05	10:08	10:11						10:13 AM
Depth to Water (ft.)	3.58	3.58	3.58						79.33
pH (SU)	7.39	7.41	7.43						7.23
Temp. (^oC)	11.53	11.52	11.52						11.52
DO (mg/l)	8.95	8.90	8.89						8.91
Cond. (S/cm)	0.650	0.649	0.649						0.649
Turbidity (Ntu)	13.0	15.0	15.0						15.0
ORP (mV)	158	151	149						146.00
Est. Purge Vol. (gal.)								Total Purge=20 Liters	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min						
PID (ppm)	NA								
Notes:	Water is clear and odorless. The pump is set at 54 ft below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: MW51A

Date: 10/13/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.32 feet			
Depth to Bottom (ft):	137.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump		
Purge Times:	13:07	to	14:04
Sampling Time:	14:10		
Analytical Parameters:	Monitored Natural Attenuation Parameters		

	Before Purge	During Purge							
Time	13:07	13:11	13:14	13:18	13:22	13:27	13:31	13:35	13:39
Depth to Water (ft.)	86.39	86.39	86.40	86.40	86.40	86.40	86.41	86.41	86.41
pH (SU)	7.40	7.39	7.39	7.39	7.40	7.40	7.40	7.41	7.42
Temp. (^oC)	14.98	15.10	15.12	15.16	15.11	15.09	15.10	15.09	15.11
DO (mg/l)	7.51	7.27	7.24	7.22	7.17	7.20	7.13	7.13	7.09
Cond. (mS/cm)	0.76	0.76	0.76	0.75	0.75	0.753	0.749	0.747	0.748
Turbidity (Ntu)	230.0	190.0	170.0	160.0	150.0	110.0	92.0	87.00	78.00
ORP (mV)	59	50	46	43	39	21	18	17.00	17.00
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	The pump is set at 135 feet below top of casing. Water is light brown with no odor. Flow cell emptied at 13:21 due to sediment.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: MW51A

Date: 10/13/2005

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.32 feet			
Depth to Bottom (ft):	137.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	13:07 to 14:04
Sampling Time:	14:10
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	13:44	13:48	13:52	13:57	14:01				14:04
Depth to Water (ft.)	86.41	86.41	86.41	86.41	86.41				86.41
pH (SU)	7.42	7.42	7.42	7.42	7.42				7.43
Temp. (^oC)	15.10	15.14	15.15	15.12	15.10				15.11
DO (mg/l)	7.09	7.12	7.11	7.14	7.15				7.14
Cond. (mS/cm)	0.75	0.75	0.75	0.75	0.742				0.742
Turbidity (Ntu)	70.0	67.0	59.0	51.0	45.0				47.00
ORP (mV)	19	24	21	25	26				25.00
Est. Purge Vol. (gal.)								Total Purge=30 L/min	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min				
PID (ppm)	NA								
Notes:	The pump is set at 135 feet below top of casing. Water is light brown with no odor. Flow cell emptied at 13:21 due to sediment.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW53

Date: 10/14/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	118.98 feet			
Depth to Bottom (ft):	145.65 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:45 to 15:36
Sampling Time:	15:45
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	14:45	14:50	14:54	14:59	15:04	15:08	15:12	15:16	15:20
Depth to Water (ft.)	118.99	118.99	119.01	119.04	119.05	119.10	119.20	119.31	119.40
pH (SU)	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69	6.69
Temp. (^oC)	17.88	17.97	18.04	18.03	17.71	17.67	17.73	17.72	17.79
DO (mg/l)	4.61	4.30	4.01	4.00	4.00	3.99	4.00	4.05	4.07
Cond. (mS/cm)	1.66	1.66	1.66	1.66	1.56	1.590	1.650	1.650	1.650
Turbidity (Ntu)	200.0	190.0	185.0	180.0	170.0	140.0	120.0	120.00	110.00
ORP (mV)	-38	-44	-54	-61	-59	-62	-66	-67	-69
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	The pump is set at 127 feet below top of casing. Water is light brown with no odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW53

Date: 10/14/2005

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	118.98 feet			
Depth to Bottom (ft):	145.65 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:45 to 15:36
Sampling Time:	15:45
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	15:24	15:28	15:32						15:36
Depth to Water (ft.)	119.44	119.50	119.58						119.61
pH (SU)	6.69	6.69	6.68						6.68
Temp. (^oC)	17.79	17.78	17.79						17.79
DO (mg/l)	4.03	4.05	3.95						4.00
Cond. (mS/cm)	1.64	1.65	1.64						1.690
Turbidity (Ntu)	97.0	93.0	88.0						83.00
ORP (mV)	-72	-69	-71						-68.00
Est. Purge Vol. (gal.)								Total Purge=26 L/min	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min						
PID (ppm)	NA								
Notes:	The pump is set at 127 feet below top of casing. Water is light brown with no odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: RW09

Date: 10/18/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	52.47 feet			
Depth to Bottom (ft):	NA feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:07 to 14:48
Sampling Time:	14:55
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	14:07	14:11	14:15	14:19	14:22	14:26	14:30	14:33	14:36
Depth to Water (ft.)	52.34	52.37	52.41	52.49	52.51	52.54	52.61	52.66	52.70
pH (SU)	7.09	7.10	7.13	7.14	7.16	7.15	7.13	7.14	7.13
Temp. (^oC)	16.85	17.11	17.30	17.42	17.45	17.47	17.45	17.42	17.50
DO (mg/l)	4.24	3.64	3.41	3.32	3.20	3.13	3.19	3.12	3.09
Cond. (mS/cm)	1.12	1.11	1.11	1.11	1.11	1.110	1.110	1.110	1.110
Turbidity (Ntu)	24.0	28.0	50.0	15.0	23.0	27.0	22.0	19.0	18.0
ORP (mV)	-181	-188	-190	-185	-187	-187	-187	-185	-183
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	The pump is set at 119 feet below top of casing. Water is clear with petro-like odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: RW09

Date: 10/18/2005

Site Location: Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: J. Holzer & B. Yagel

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	55.05 feet			
Depth to Bottom (ft):	NA feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	14:07 to 14:48
Sampling Time:	14:55
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	14:39	14:42	14:45						14:48
Depth to Water (ft.)	52.72	52.73	52.75						52.77
pH (SU)	7.15	7.17	7.17						7.17
Temp. (^oC)	17.51	17.66	17.64						17.64
DO (mg/l)	3.08	2.95	2.94						2.94
Cond. (mS/cm)	1.11	1.11	1.11						1.110
Turbidity (Ntu)	20.0	30.0	27.0						27.0
ORP (mV)	-183	-186	-187						-187
Est. Purge Vol. (gal.)								Total Purge=20 Liters	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min						
PID (ppm)	NA								
Notes:	The pump is set at 119 feet below top of casing. Water is clear with petro-like odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: RW13

Date: 10/19/2005

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	112.00 gallons
Depth to Water (ft):	89.96	feet		
Depth to Bottom (ft):	166.36	feet	Minimum Volume to be Purged (gal):	337.00 gallons
Height of Water Column (ft):	76.4	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump
Purge Times:	9:40 to 17:40
Sampling Time:	17:45
Analytical Parameters:	VO+10

	Before Purge	During Purge	Before Sampling	Notes:
Time	9:42	13:55	17:42	Purge water is clear and odorless. Pump is set at 93 feet below top of casing.
Depth to Water (ft.)	91.13	99.22	124.80	10:00-Purged stopped to lower pump to 100'.
pH (SU)	6.18	7.69	7.8	11:05 Purge stopped to lower pump to 110
Temp. (^oC)	13.84	14.45	15.25	11:10-Restart purge at 3 L/min
DO (mg/l)	2.37	5.59	5.08	11:45-Purge rate lowered to 2 L/min
Cond. (mS/cm)	1.09	.97	.95	14:10-Flow rate raised to 3.8 L/min
Turbidity (Ntu)	11.7	8.8	3.6	14:13-Flow rate lowered to 3.0 L/min
ORP (mV)	275	259	0	16:15-Flow Rate raised to 1 Gal/min
Est. Purge Vol. (gal.)	~360			17:10-Pump lowered to 115'. Purge rate at 1 Gal/min
Average Purge Rate (gal/min.)	2.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **RW16**

Date: **10/18/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-167-0803

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	94.19 feet			
Depth to Bottom (ft):	NA feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	12:22 to 13:00
Sampling Time:	13:05
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	12:22	12:26	12:30	12:33	12:36	12:39	12:42	12:45	12:47
Depth to Water (ft.)	94.09	94.12	94.14	94.22	94.27	94.31	94.39	94.44	94.52
pH (SU)	6.88	6.90	6.91	6.91	6.92	6.93	6.93	6.93	6.92
Temp. (^oC)	15.55	15.79	15.98	15.99	16.17	16.23	16.25	16.26	16.72
DO (mg/l)	3.81	3.63	3.59	3.55	3.77	3.41	3.35	3.33	3.37
Cond. (S/cm)	1.21	1.22	1.22	1.22	1.21	1.21	1.21	1.21	1.21
Turbidity (Ntu)	14.0	23.0	35.0	39.0	13.0	12.0	30.0	50.0	1.0
ORP (mV)	-171	-180	-184	-187	-185	-190	-194	-197	-191
Est. Purge Vol. (gal.)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	The purge water is clear and with slight petro-like odor. The pump is set at 121 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **RW16**

Date: **10/18/2005**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-162-404

Technicians: A. Mosuly, J. Holzer

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	94.19 feet			
Depth to Bottom (ft):	NA feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	12:22 to 13:00
Sampling Time:	13:05
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	12:54	12:57							13:00
Depth to Water (ft.)	94.57	94.61							94.64
pH (SU)	6.93	6.93							6.93
Temp. (^oC)	16.34	16.32							16.33
DO (mg/l)	3.25	3.23							3.21
Cond. (S/cm)	1.22	1.22							1.22
Turbidity (Ntu)	11.0	19.0							21.0
ORP (mV)	-192	-195							-197
Est. Purge Vol. (gal.)								Total Purge=19 Liters	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min							0.5 L/min
PID (ppm)	NA								
Notes:	The purge water is clear and with slight petro-like odor. The pump is set at 121 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW1

Date: 5/11/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	41.00 gallons
Depth to Water (ft):	99.35	feet		
Depth to Bottom (ft):	127.09	feet	Minimum Volume to be Purged (gal):	123.00 gallons
Height of Water Column (ft):	27.8	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump
Purge Times:	950 to 1215
Sampling Time:	1220/ 1225 (duplicate)
Analytical Parameters:	VO+10

	Before Purge	During Purge	Before Sampling	Notes:
Time	0950	1100	1215	The purge water is clear and odorless.
Depth to Water (ft.)	99.35	99.70	99.73	The pump is set 105 feet below top of casing.
pH (SU)	6.44	7.62	7.85	
Temp. (^oC)	13.97	15.04	15.52	
DO (mg/l)	9.24	8.64	8.99	
Cond. (mS/cm)	0.283	0.311	0.437	
Turbidity (Ntu)	0	0	0	
ORP (mV)	208	155	156	
Est. Purge Vol. (gal.)	145.0			
Average Purge Rate (gal/min.)	1 gal/min			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW3**

Date: **5/3/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.9 feet			
Depth to Bottom (ft):	117.45 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	935 to 1024
Sampling Time:	1030
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	940	944	948	952	956	1000	1003	1007	1010
Depth to Water (ft.)	78.92	78.95	78.95	78.95	78.95	78.95	78.95	78.95	78.95
pH (SU)	6.80	6.85	6.87	6.86	6.85	6.86	6.86	6.86	6.87
Temp. (^oC)	14.84	14.79	14.77	14.75	14.82	14.83	14.86	14.90	14.92
DO (mg/l)	2.46	2.15	2.07	2.00	2.07	2.08	2.21	2.35	2.45
Cond. (S/cm)	1.10	1.09	1.08	1.07	1.09	1.08	1.08	1.08	1.08
Turbidity (Ntu)	120	32.1	25.9	23.7	23.6	16.3	13.1	9.5	8.7
ORP (mV)	-121	-128	-126	-124	-125	-122	-115	-110.00	-107.00
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 115' below top of casing. Purge water is light gray with slight odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW3

Date: 5/3/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.9 feet			
Depth to Bottom (ft):	117.45 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	935 to 1024
Sampling Time:	1030
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1013	1017	1020						1024
Depth to Water (ft.)	78.95	78.95	78.95						78.95
pH (SU)	6.86	6.86	6.87						6.87
Temp. (^oC)	15.01	15.02	15.03						15.05
DO (mg/l)	2.50	2.50	2.52						2.54
Cond. (S/cm)	1.08	1.07	1.07						1.07
Turbidity (Ntu)	6.9	6.2	5.6						5.3
ORP (mV)	-105	-104	-102						-101
Est. Purge Vol. (L)								Total Purge= 49 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min						1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 115' below top of casing. Purge water is light gray with slight odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW4

Date: 5/3/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.62 feet			
Depth to Bottom (ft):	127.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1115 to 1153
Sampling Time:	1200
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1118	1121	1125	1128	1132	1136	1140	1144	1147
Depth to Water (ft.)	86.71	86.72	86.72	86.73	86.74	86.75	86.75	86.75	86.75
pH (SU)	6.78	6.77	6.77	6.77	6.77	6.77	6.78	6.78	6.78
Temp. (^oC)	15.45	15.71	15.85	15.93	15.97	16.02	16.08	16.11	16.15
DO (mg/l)	2.85	2.37	2.20	2.05	2.00	1.95	1.91	1.87	1.85
Cond. (S/cm)	1.55	1.55	1.55	1.56	1.56	1.56	1.56	1.56	1.56
Turbidity (Ntu)	31	11.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
ORP (mV)	93	84	74	66	60	57	54	52	51
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 108' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW4**

Date: **5/3/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.62 feet			
Depth to Bottom (ft):	127.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1115 to 1153
Sampling Time:	1200
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1150								1153
Depth to Water (ft.)	86.75								86.75
pH (SU)	6.78								6.78
Temp. (^oC)	16.13								16.12
DO (mg/l)	1.82								1.81
Cond. (S/cm)	1.56								1.56
Turbidity (Ntu)	0.0								0.0
ORP (mV)	50								49
Est. Purge Vol. (L)								Total Purge= 38 L	
Purge Rate (L/min.)	1.0 L/min								1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 108' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW6

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	95.45 feet			
Depth to Bottom (ft):	194.45 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1200 to 1251
Sampling Time:	1255
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1204	1207	1210	1213	1216	1220	1223	1227	1230
Depth to Water (ft.)	95.47	95.47	95.47	95.47	95.47	95.47	95.48	95.48	95.48
pH (SU)	7.10	7.12	7.16	7.14	7.14	7.13	7.14	7.14	7.15
Temp. (^oC)	12.79	13.39	13.53	13.56	13.57	13.59	13.62	13.63	13.66
DO (mg/l)	2.71	2.65	4.18	5.88	6.02	6.15	6.36	6.38	6.42
Cond. (S/cm)	1.79	1.74	1.60	1.46	1.44	1.42	1.41	1.40	1.39
Turbidity (Ntu)	223	137.0	118.0	53.4	46.4	39.1	28.2	19.1	17.5
ORP (mV)	-82	-50	7	44	48	50	52	53	53
Est. Purge Vol. (L)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	Pump is set at 187' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW6

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	95.45 feet			
Depth to Bottom (ft):	194.45 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1200 to 1251
Sampling Time:	1255
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1233	1236	1239	1242	1245	1248			1251
Depth to Water (ft.)	95.48	95.48	95.48	95.48	95.48	95.48			95.48
pH (SU)	7.14	7.15	7.14	7.14	7.15	7.16			7.16
Temp. (^oC)	13.65	13.66	13.66	13.67	13.68	13.68			13.69
DO (mg/l)	6.42	6.40	6.40	6.42	6.43	6.43			6.42
Cond. (S/cm)	1.39	1.39	1.38	1.37	1.37	1.37			1.37
Turbidity (Ntu)	15.6	11.0	10.7	7.7	4.3	3.6			4.1
ORP (mV)	51	50	49	47	46	47			45
Est. Purge Vol. (L)								Total Purge= 51 L	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min			0.5 L/min
PID (ppm)	NA								
Notes:	Pump is set at 187' below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW12**

Date: **5/8/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	99.18 feet			
Depth to Bottom (ft):	183.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1545 to 1718
Sampling Time:	1720
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1545	1548	1551	1554	1557	1600	1603	1606	1609
Depth to Water (ft.)	98.95	98.95	98.95	98.96	98.96	98.93	98.93	98.93	98.93
pH (SU)	7.20	7.21	7.21	7.21	7.19	7.23	7.23	7.23	7.24
Temp. (^oC)	14.14	14.10	13.95	14.17	14.25	14.27	14.18	14.56	15.20
DO (mg/l)	4.19	4.21	4.47	4.08	4.01	4.04	3.84	4.07	3.78
Cond. (mS/cm)	0.649	0.650	0.642	0.639	0.640	0.639	0.639	0.638	0.629
Turbidity (Ntu)	174	180	184	118	120	105	100	102	98.7
ORP (mV)	-130	-129	-128	-126	-127	-127	-130	-127	-128
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with a petro-like odor. The pump set at 180 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW12**

Date: **5/8/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	99.18 feet			
Depth to Bottom (ft):	183.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1545 to 1718
Sampling Time:	1720
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								
Time	1612	1615	1618	1621	1624	1627	1630	1633	1636
Depth to Water (ft.)	98.93	98.94	98.94	98.95	98.96	98.96	98.96	98.97	98.98
pH (SU)	7.26	7.26	7.23	7.28	7.29	7.31	7.31	7.32	7.32
Temp. (^oC)	14.13	14.48	13.99	14.39	14.63	14.39	14.37	15.20	15.21
DO (mg/l)	4.28	3.79	4.35	3.94	3.82	3.82	3.83	3.84	3.83
Cond. (mS/cm)	0.639	0.638	0.631	0.631	0.630	0.629	0.628	0.625	0.625
Turbidity (Ntu)	111	108	119	110	110	124	148	151	152
ORP (mV)	-128	-126	-125	-126	-124	-120	-118	-116	-115
Est. Purge Vol. (L)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with a petro-like odor. The pump set at 180 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW12**

Date: **5/8/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	99.18 feet			
Depth to Bottom (ft):	183.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1545 to 1718
Sampling Time:	1720
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								
Time	1639	1642	1645	1648	1651	1654	1657	1700	1703
Depth to Water (ft.)	98.98	98.98	98.97	98.96	98.96	98.97	98.96	98.95	98.93
pH (SU)	7.32	7.33	7.33	7.32	7.32	7.31	7.29	7.29	7.30
Temp. (^oC)	14.49	14.46	14.48	14.54	14.55	14.45	14.32	14.28	14.25
DO (mg/l)	3.97	3.94	3.75	3.43	3.28	3.39	3.29	3.31	3.35
Cond. (mS/cm)	0.625	0.621	0.625	0.625	0.626	0.627	0.630	0.632	0.639
Turbidity (Ntu)	184	216	404	601	610	583	757	375	293
ORP (mV)	-113	-110	-115	-127	-140	-138	-140	-140	-140
Est. Purge Vol. (L)									
Purge Rate (L/min.)	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with a petro-like odor. The pump set at 180 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **MW12**

Date: **5/8/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	99.18 feet			
Depth to Bottom (ft):	183.3 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1545 to 1718
Sampling Time:	1720
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1706	1709	1712	1715					1718
Depth to Water (ft.)	98.93	98.93	98.93	98.93					98.93
pH (SU)	7.28	7.28	7.28	7.29					7.29
Temp. (^oC)	14.18	14.20	14.22	14.25					14.23
DO (mg/l)	3.39	3.37	3.12	3.12					3.12
Cond. (mS/cm)	0.635	0.634	0.634	0.635					0.635
Turbidity (Ntu)	265	269	196	190					186
ORP (mV)	-142	-147	-145	-144					-143
Est. Purge Vol. (L)								Total Purge= 45 L	
Purge Rate (L/min.)	0.25 L/min	0.25 L/min	0.25 L/min	0.25 L/min					0.25 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with a petro-like odor. The pump set at 180 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW16

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	94.11 feet			
Depth to Bottom (ft):	197.32 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1425 to 1451
Sampling Time:	1455
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1427	1430	1433	1436	1439	1442	1445	1448	1451
Depth to Water (ft.)	94.25	94.24	94.24	94.24	94.23	94.23	94.24	94.24	94.24
pH (SU)	7.29	7.31	7.30	7.30	7.29	7.29	7.28	7.29	7.29
Temp. (^oC)	16.45	16.59	15.70	15.83	15.88	16.11	16.92	16.98	17.00
DO (mg/l)	5.16	3.99	3.96	3.82	3.74	3.60	3.50	3.44	3.43
Cond. (mS/cm)	0.797	0.813	0.883	0.833	0.834	0.832	0.834	0.838	0.838
Turbidity (Ntu)	19.5	9.4	4.8	4.3	3.0	2.6	0.0	0.00	0.0
ORP (mV)	150	131	97	53	23	-7	-7	-10	-10
Est. Purge Vol. (L)								Total Purge = 24 Liters	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 155 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW18

Date: 5/5/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	82.56 feet			
Depth to Bottom (ft):	113.25 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1103 to 1127
Sampling Time:	1130
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1103	1106	1109	1113	1116	1119	1121	1124	1127
Depth to Water (ft.)	82.60	82.61	82.62	82.62	82.62	82.62	82.62	82.62	82.62
pH (SU)	7.04	7.09	7.12	7.14	7.15	7.16	7.18	7.19	7.19
Temp. (^oC)	13.87	14.87	15.07	15.24	15.40	15.38	15.36	15.37	15.36
DO (mg/l)	6.21	5.64	5.49	5.42	5.37	5.37	5.35	5.34	5.36
Cond. (mS/cm)	0.545	0.542	0.542	0.543	0.542	0.543	0.543	0.543	0.543
Turbidity (Ntu)	88.2	50.7	26.6	16.6	16.3	11.7	6.1	5.10	5.1
ORP (mV)	165	148	126	120	109	100	92	91	90
Est. Purge Vol. (L)								Total Purge = 24 Liters	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 90 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW20

Date: 5/9/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	70.28 feet			
Depth to Bottom (ft):	136.6 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1050 to 1117
Sampling Time:	1120
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1053	1056	1059	1103	1107	1111	1114		1117
Depth to Water (ft.)	70.31	70.32	70.33	70.33	70.33	70.33	70.33		70.33
pH (SU)	7.14	7.14	7.15	7.17	7.18	7.17	7.18		7.18
Temp. (^oC)	12.30	12.76	13.09	13.25	13.33	13.34	13.35		13.34
DO (mg/l)	4.03	3.00	2.61	2.54	2.47	2.49	2.49		2.49
Cond. (mS/cm)	0.622	0.621	0.621	0.621	0.622	0.622	0.622		0.622
Turbidity (Ntu)	89.3	66.1	52.6	48.3	15.0	0.0	0.0		0.0
ORP (mV)	-171	-178	-184	-188	-186	-187	-186		-187
Est. Purge Vol. (L)								Total Purge = 27 Liters	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with petro-like odor. The pump set at 134 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW30

Date: 5/9/2006

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Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	41.03 feet			
Depth to Bottom (ft):	77.5 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	935 to 1003
Sampling Time:	1010
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	938	941	944	947	950	953	957	1000	1003
Depth to Water (ft.)	41.06	41.07	41.08	41.08	41.08	41.08	41.08	41.08	41.08
pH (SU)	6.78	6.86	6.90	6.93	6.96	6.97	6.98	6.99	6.98
Temp. (^oC)	13.42	13.40	13.41	13.37	13.37	13.36	13.35	13.36	13.35
DO (mg/l)	9.68	9.64	9.58	9.62	9.62	9.61	9.60	9.61	9.61
Cond. (mS/cm)	0.543	0.543	0.544	0.543	0.543	0.543	0.543	0.543	0.543
Turbidity (Ntu)	45.2	24.2	20.0	9.3	4.6	2.1	2.3	2.10	2.3
ORP (mV)	60	51	49	53	57	57	59	58	59
Est. Purge Vol. (L)								Total Purge = 28 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 75 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW33A

Date: 5/4/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	89.79 feet			
Depth to Bottom (ft):	121.65 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1535 to 1559
Sampling Time:	1605
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1538	1541	1544	1547	1550	1553	1556		1559
Depth to Water (ft.)	89.81	89.82	89.82	89.83	89.83	89.83	89.83		89.83
pH (SU)	7.12	7.09	7.09	7.09	7.09	7.09	7.09		7.09
Temp. (^oC)	16.85	16.94	18.16	18.85	18.91	18.94	18.95		18.95
DO (mg/l)	9.55	8.27	7.76	7.60	7.66	7.71	7.69		7.67
Cond. (mS/cm)	1.06	1.01	0.99	0.98	0.99	0.99	0.99		1.00
Turbidity (Ntu)	63.0	35.0	27.1	12.1	10.1	8.1	7.9		7.8
ORP (mV)	90	70	63	63	63	64	65		64
Est. Purge Vol. (L)								Total Purge = 24 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min		1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 107 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW34

Date: 5/4/2006

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Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	92.8 feet			
Depth to Bottom (ft):	126.5 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1101 to 1129
Sampling Time:	1130
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1101	1104	1108	1111	1114	1118	1121	1124	1129
Depth to Water (ft.)	92.89	92.88	92.88	92.82	92.86	92.87	92.87	92.84	92.82
pH (SU)	7.04	7.09	7.09	7.11	7.12	7.12	7.12	7.12	7.13
Temp. (^oC)	15.91	16.00	16.88	17.31	17.31	17.37	17.35	17.37	17.37
DO (mg/l)	7.77	7.12	6.75	6.66	6.73	6.64	6.69	6.72	6.70
Cond. (mS/cm)	0.902	0.866	0.853	0.850	0.860	0.862	0.861	0.861	0.861
Turbidity (Ntu)	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ORP (mV)	145	121	95	84	83	84	84	83	83
Est. Purge Vol. (L)								Total Purge = 28L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 113 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW35

Date: 5/3/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	93.25 feet			
Depth to Bottom (ft):	NG feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1525 to 1555
Sampling Time:	1600
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1528	1532	1535	1538	1542	1546	1549	1552	1555
Depth to Water (ft.)	93.27	93.27	93.27	93.27	93.28	93.28	93.28	93.28	93.28
pH (SU)	7.05	7.06	7.06	7.06	7.06	7.06	7.06	7.06	7.06
Temp. (^oC)	13.94	14.61	14.79	14.82	14.80	14.78	14.76	14.73	14.76
DO (mg/l)	8.61	7.65	7.52	7.50	7.48	7.45	7.44	7.43	7.44
Cond. (mS/cm)	0.844	0.846	0.845	0.848	0.846	0.847	0.847	0.847	0.846
Turbidity (Ntu)	60.5	56.1	35.1	20.2	13.2	9.0	7.9	7.9	7.7
ORP (mV)	107	104	98	95	94	93	93	93	92
Est. Purge Vol. (L)								Total Purge = 30 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 122 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW37**

Date: **5/3/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	54.39 feet			
Depth to Bottom (ft):	104.5 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1400 to 1436
Sampling Time:	1440
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1400	1404	1408	1411	1415	1419	1423	1428	1432
Depth to Water (ft.)	54.41	54.40	54.40	54.41	54.40	54.40	54.39	54.40	54.38
pH (SU)	7.18	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
Temp. (^oC)	13.52	13.73	13.84	13.65	13.72	13.69	13.78	13.80	13.82
DO (mg/l)	9.77	8.42	7.99	7.83	7.69	7.62	7.55	7.56	7.54
Cond. (S/cm)	0.780	0.771	0.771	0.771	0.771	0.771	0.771	0.770	0.771
Turbidity (Ntu)	112	108.0	86.8	65.7	38.8	20.3	14.5	6.3	6.6
ORP (mV)	154	121	103	89	81	75	75	75	75
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 86 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW37**

Date: **5/3/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	54.39 feet			
Depth to Bottom (ft):	104.5 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1400 to 1436
Sampling Time:	1440
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time									1436
Depth to Water (ft.)									54.39
pH (SU)									7.26
Temp. (^oC)									13.79
DO (mg/l)									7.55
Cond. (S/cm)									0.771
Turbidity (Ntu)									6.1
ORP (mV)									75
Est. Purge Vol. (L)								Total Purge= 36 L	
Purge Rate (L/min.)									1.0 L/min
PID (ppm)									
Notes:	Pump is set at 86 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **MW42**

Date: **5/4/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.52 feet			
Depth to Bottom (ft):	123 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	925 to 959
Sampling Time:	1005
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	928	932	936	940	943	946	949	952	956
Depth to Water (ft.)	78.53	78.53	78.53	78.53	78.53	78.53	78.54	78.54	78.54
pH (SU)	6.65	6.91	6.96	7.03	7.12	7.14	7.16	7.17	7.18
Temp. (^oC)	13.09	13.41	13.52	13.60	13.71	13.73	13.79	13.81	13.81
DO (mg/l)	8.61	8.35	8.21	8.11	8.05	7.99	7.95	7.95	7.92
Cond. (S/cm)	0.660	0.650	0.648	0.647	0.648	0.643	0.641	0.639	0.637
Turbidity (Ntu)	27.1	28.1	25.8	22.2	18.3	18.1	16.1	12.9	12.1
ORP (mV)	214	210	195	191	162	143	121	114	104
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	Pump is set at 118 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **MW42**

Date: **5/4/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	78.52 feet			
Depth to Bottom (ft):	123 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	925 to 959
Sampling Time:	1005
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time									959
Depth to Water (ft.)									78.54
pH (SU)									7.18
Temp. (^oC)									13.81
DO (mg/l)									7.93
Cond. (S/cm)									0.636
Turbidity (Ntu)									12.0
ORP (mV)									102
Est. Purge Vol. (L)								Total Purge= 34 L	
Purge Rate (L/min.)									1.0 L/min
PID (ppm)									
Notes:	Pump is set at 118 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW47**

Date: **5/4/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	94.96 feet			
Depth to Bottom (ft):	138.75 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	925 to 1005
Sampling Time:	1010
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	928	932	935	938	942	946	949	953	956
Depth to Water (ft.)	95.71	95.72	95.73	95.73	95.74	95.74	95.74	95.74	95.74
pH (SU)	6.68	6.75	6.82	6.84	6.84	6.86	6.87	6.88	6.89
Temp. (^oC)	13.11	12.57	13.30	13.31	13.33	13.32	13.39	13.37	13.39
DO (mg/l)	9.24	8.20	7.67	7.73	7.59	7.63	7.50	7.44	7.43
Cond. (S/cm)	0.958	0.941	0.934	0.940	0.942	0.946	0.946	0.947	0.947
Turbidity (Ntu)	60.5	53.1	25.6	19.7	21.1	22.1	23.3	18.7	15.0
ORP (mV)	205	174	144	130	117	94	83	77	77
Est. Purge Vol. (L)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	Pump is set at 136.5 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: **MW47**

Date: **5/4/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	94.96 feet			
Depth to Bottom (ft):	138.75 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	925 to 1005
Sampling Time:	1010
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	959	1002							1005
Depth to Water (ft.)	95.74	95.74							95.74
pH (SU)	6.89	6.90							6.91
Temp. (^oC)	13.40	13.41							13.43
DO (mg/l)	7.49	7.48							7.47
Cond. (S/cm)	0.949	0.949							0.950
Turbidity (Ntu)	12.2	12.8							11.7
ORP (mV)	75	73							71
Est. Purge Vol. (L)								Total Purge= 30 L	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min							0.5 L/min
PID (ppm)	NA								
Notes:	Pump is set at 136.5 feet below top of casing. Purge water is clear and odorless.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW49

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	4.49 feet			
Depth to Bottom (ft):	56.48 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	845 to 914
Sampling Time:	920
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	848	852	855	859	902	905	908	911	914
Depth to Water (ft.)	4.61	4.61	4.62	4.62	4.62	4.62	4.62	4.62	4.62
pH (SU)	7.04	7.07	7.16	7.20	7.24	7.26	7.29	7.30	7.30
Temp. (^oC)	11.51	11.52	11.52	11.56	11.57	11.58	11.59	11.61	11.61
DO (mg/l)	8.62	8.51	8.43	8.41	8.39	8.37	8.31	8.31	8.31
Cond. (mS/cm)	0.560	0.560	0.560	0.561	0.562	0.562	0.562	0.563	0.563
Turbidity (Ntu)	70.1	65.7	52.1	42.7	34.5	31.5	25.1	23.1	22.9
ORP (mV)	90	94	91	86	84	80	77	79	81
Est. Purge Vol. (L)								Total Purge=29 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor present. The pump set at 54 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW51A

Date: 5/4/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.89 feet			
Depth to Bottom (ft):	137.25 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1350 to 1458
Sampling Time:	1500
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1353	1356	1359	1402	1407	1411	1414	1417	1420
Depth to Water (ft.)	86.89	86.90	86.90	86.90	86.89	86.89	86.90	86.90	86.90
pH (SU)	7.09	7.16	7.16	7.17	7.18	7.18	7.17	7.18	7.18
Temp. (^oC)	15.19	15.71	16.10	16.24	16.22	16.23	16.43	16.37	16.38
DO (mg/l)	6.93	6.62	6.40	6.26	6.25	6.16	6.09	6.07	6.00
Cond. (mS/cm)	0.674	0.673	0.675	0.673	0.673	0.673	0.673	0.673	0.673
Turbidity (Ntu)	450	400	339	297	234	200	183	147	131
ORP (mV)	39	28	27	26	20	20	18	16	14
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with no odor. The pump set at 135 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW51A

Date: 5/4/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.89 feet			
Depth to Bottom (ft):	137.25 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1350 to 1458
Sampling Time:	1500
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								
Time	1424	1428	1432	1436	1440	1444	1448	1452	1455
Depth to Water (ft.)	86.90	86.91	86.91	869.91	86.91	86.91	86.91	86.91	86.91
pH (SU)	7.18	7.19	7.19	7.20	7.19	7.21	7.20	7.20	7.19
Temp. (^oC)	16.22	16.30	16.32	16.50	16.47	16.49	16.50	16.51	16.52
DO (mg/l)	5.99	5.95	5.97	5.96	5.96	5.97	5.98	5.97	5.98
Cond. (mS/cm)	0.672	0.671	0.671	0.672	0.671	0.671	0.670	0.669	0.670
Turbidity (Ntu)	120	102	86.1	76.0	69.3	60.4	50.1	45.3	45.1
ORP (mV)	13	13	10	11	11	11	10	9	9
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is light brown with no odor . The pump set at 135 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: MW51A

Date: 5/4/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	86.89 feet			
Depth to Bottom (ft):	137.25 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1350 to 1458
Sampling Time:	1500
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time									1458
Depth to Water (ft.)									86.91
pH (SU)									7.19
Temp. (^oC)									16.53
DO (mg/l)									5.97
Cond. (mS/cm)									0.670
Turbidity (Ntu)									44.1
ORP (mV)									9
Est. Purge Vol. (L)								Total Purge=68 L	
Purge Rate (L/min.)									1.0 L/min
PID (ppm)									
Notes:	The purge water is light brown with no odor. The pump set at 135 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW53

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	121.6 feet			
Depth to Bottom (ft):	162.98 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1015 to 1110
Sampling Time:	1115
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1018	1021	1024	1027	1031	1034	1037	1040	1043
Depth to Water (ft.)	122.33	122.34	122.34	122.34	122.34	122.34	122.34	122.34	122.34
pH (SU)	6.60	6.61	6.62	6.63	6.63	6.66	6.67	6.67	6.68
Temp. (^oC)	19.09	19.47	19.37	19.47	19.51	19.54	19.49	19.47	19.45
DO (mg/l)	2.30	1.98	1.92	1.86	1.81	1.82	1.81	1.78	1.77
Cond. (mS/cm)	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49
Turbidity (Ntu)	110	104	96.3	98.5	77.6	73.2	61.1	57.4	49.2
ORP (mV)	11	3	0	-3	-8	-9	-8	-12	-15
Est. Purge Vol. (L)									
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor. The pump set at 127 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: MW53

Date: 5/8/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

Well Data and Volume Calculations

Well Diameter (in):	6 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	121.6 feet			
Depth to Bottom (ft):	162.98 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1015 to 1110
Sampling Time:	1115
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1046	1049	1052	1055	1058	1101	1104	1107	1110
Depth to Water (ft.)	122.35	122.35	122.35	122.35	122.35	122.35	122.36	122.36	122.36
pH (SU)	6.68	6.76	6.69	6.70	6.69	6.69	6.70	6.69	6.69
Temp. (^oC)	19.45	19.43	19.44	19.18	19.27	19.21	19.23	19.26	19.31
DO (mg/l)	1.78	1.76	1.76	1.76	1.74	1.74	1.72	1.72	1.70
Cond. (mS/cm)	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Turbidity (Ntu)	42.7	37.4	36.6	38.9	38.0	38.0	37.7	33.6	34.4
ORP (mV)	-17	-20	-20	-22	-25	-27	-30	-32	-36
Est. Purge Vol. (L)								Total Purge=55 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with no odor . The pump set at 127 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

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Groundwater Purging and Sampling Field Log

Well ID #: RW09

Date: 5/9/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	61.92 feet			
Depth to Bottom (ft):	200 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1320 to 1347
Sampling Time:	1350
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							Before Sampling
Time	1323	1326	1330	1333	1337	1341	1344		1347
Depth to Water (ft.)	61.92	61.93	61.95	61.95	61.95	61.95	61.95		61.95
pH (SU)	7.02	7.06	7.07	7.08	7.09	7.08	7.08		7.08
Temp. (^oC)	16.82	17.20	17.41	17.48	17.43	17.43	17.39		17.41
DO (mg/l)	2.97	2.61	2.43	2.37	2.25	2.27	2.24		2.25
Cond. (mS/cm)	0.813	0.812	0.811	0.812	0.813	0.814	0.815		0.815
Turbidity (Ntu)	35.2	22.4	14.7	17.1	20.7	0.0	0.0		0.0
ORP (mV)	-164	-173	-177	-180	-181	-179	-178		-179
Est. Purge Vol. (L)								Total Purge=27 L	
Purge Rate (L/min.)	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min	1.0 L/min
PID (ppm)	NA								
Notes:	The pump is set at 119 feet below top of casing. Purge water is clear with slight petro-like odor.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: RW13

Date: 5/10/2006

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	6	inches	Volume of Standing Water (gal):	103.00 gallons
Depth to Water (ft):	94.46	feet		
Depth to Bottom (ft):	166.37	feet	Minimum Volume to be Purged (gal):	309.00 gallons
Height of Water Column (ft):	69.5	feet		

Purging and Sampling Details

Purging Method:	Conventional - 2" Grundfos Pump
Purge Times:	905 to 1705
Sampling Time:	1710
Analytical Parameters:	VO+10

	Before Purge	During Purge	Before Sampling	Notes:
Time	905	1325	1705	Purge water is clear and odorless. Pump is set at 100 feet below top of casing.
Depth to Water (ft.)	96.71	102.68	103.83	0945-Pump lowerd to 105 feet below top of casing'.
pH (SU)	6.97	7.29	7.14	1120-Flow Rate raised to 2.25 L/min
Temp. (^oC)	15.30	18.52	19.38	1225-Flow Rate raised to 2.50 L/min
DO (mg/l)	8.49	6.97	6.34	1330-Flow Rate raised to 3 L/min
Cond. (mS/cm)	0.706	1.14	0.98	
Turbidity (Ntu)	0.0	0.0	9.7	
ORP (mV)	196	111	129	
Est. Purge Vol. (gal.)	~310			
Average Purge Rate (gal/min.)	2.0			
PID (ppm)	NA			

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61, 10" -x4.080, 12" -x5.875, and 14" -x8.00.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **RW16**

Date: **5/9/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	98.69 feet			
Depth to Bottom (ft):	155 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1450 to 1526
Sampling Time:	1530
Analytical Parameters:	Monitored Natural Attenuation Parameters

	Before Purge	During Purge							
Time	1453	1455	1459	1502	1505	1508	1511	1514	1517
Depth to Water (ft.)	98.71	98.73	98.73	98.73	98.72	98.72	98.73	98.73	98.73
pH (SU)	6.78	6.77	6.76	6.76	6.77	6.76	6.78	6.77	6.78
Temp. (^oC)	15.68	15.93	16.46	16.93	17.34	17.49	17.42	17.39	17.42
DO (mg/l)	2.85	2.61	2.41	2.26	2.16	2.12	2.08	2.09	2.06
Cond. (S/cm)	1.77	1.77	1.77	1.76	1.75	1.75	1.74	1.75	1.75
Turbidity (Ntu)	129.0	99.1	49.6	30.7	34.4	32.7	35.1	0.0	0.0
ORP (mV)	-142	-144	-146	-148	-149	-150	-150	-149	-148
Est. Purge Vol. (L)									
Purge Rate (L/min.)	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min	0.5 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with a petro-like odor. The pump is set at 121 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

ENSR | AECOM

Groundwater Purging and Sampling Field Log

Well ID #: **RW16**

Date: **5/9/2006**

Site Location: Former Ingersoll Rand - Phillipsburg, New Jersey

Street Address: 942 Memorial Parkway **City**: Phillipsburg **State**: NJ

Client Name: Ingersoll Rand **Project Number**: 03710-173-0902

Technicians: A. Mosuly, A. Gutierrez

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? Yes (No)

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

Well Data and Volume Calculations

Well Diameter (in):	8 inches	Volume of Standing Water (gal):	NA	gallons
Depth to Water (ft):	98.69 feet			
Depth to Bottom (ft):	155 feet	Minimum Volume to be Purged (gal):	NA	gallons
Height of Water Column (ft):	NA feet			

Purging and Sampling Details

Purging Method:	Low flow - 2" Grundfos Pump
Purge Times:	1450 to 1526
Sampling Time:	1530
Analytical Parameters:	Monitored Natural Attenuation Parameters

	During Purge								Before Sampling
Time	1520	1523							1526
Depth to Water (ft.)	98.74	98.74							98.74
pH (SU)	6.78	6.78							6.78
Temp. (^oC)	17.46	17.47							17.42
DO (mg/l)	2.01	2.00							2.02
Cond. (S/cm)	1.74	1.74							1.74
Turbidity (Ntu)	0.0	0.0							0.0
ORP (mV)	-148	-148							-148
Est. Purge Vol. (L)								Total Purge=36 Liters	
Purge Rate (L/min.)	0.5 L/min	0.5 L/min							0.5 L/min
PID (ppm)	NA								
Notes:	The purge water is clear with a petro-like odor. The pump is set at 121 feet below top of casing.								

Volume Conversion Factors: 2" - x 0.16 gallons per linear foot, 4" - x 0.65, 6" - x 1.47, 8" - x 2.61

Low Flow targets: DO +/- 10%; Temp +/- 3%; pH +/- 0.1; Cond +/- 3%; Turb +/- 10%; ORP +/- 10 mV.

Appendix I

Private Well Abandonment Letter

SGS

SGS Environmental Services Inc.
328 Stafford Forge Road PO Box 423
West Creek, NJ 08092
Phone 609-294-1110 fax 609-296-8970

From: Dermot Dillon

Office: West Creek, NJ

Date: 7/25/06

Copy: File

To: NJDEP
Water Supply Division
PO Box 426
Trenton, NJ 08625

609-633 1231 fax

Re: Request for approval to abandon

We are presently performing work at the Former Ingersoll Rand facility in Phillipsburg, NJ, and have been requested by ENSR, the on site consulting engineer to abandon a hand dug well that was found on a property as part of the clean up investigation. The well found was a 30" diameter hand dug well which is 10' deep, located at 240 South Main Street (Lot 38 Block 2505) Phillipsburg, NJ.

[illegible] the displacement method to grout the well to the surface with cement to the ground surface.

We would like to abandon this well as soon as possible with the approval of your office.

If there is any other information you need, or have any additional questions, please feel free to give me a call at 609-294-1110.

APPROVAL TO SEAL GRANTED
7/27/06
Steve Raya

Sincerely:

Dermot P. Dillon
Branch Manager

Appendix J

Bill of Lading

Lorco Petroleum Services
450 South Front St.
Elizabeth, NJ 07202
(908) 820-8800
(800) 734-0910
FAX: (908) 820-8412

LORCO PETROLEUM SERVICES

www.lorcopetroleum.com

STANDARD COLLECTION ORDER FORM

581948

GENERATOR/LOCATION

SALES ORDER # 20 to 712

NAME

INFORMATION/ATTENTION LINE — ACCOUNT APPROVAL CODE

DELIVERY ADDRESS

CITY — STATE — ZIP

PHONE NUMBER — PURCHASE ORDER NUMBER

TIME IN — TIME OUT

BILL TO (IF DIFFERENT FROM LOCATION)

NAME

INFORMATION/ATTENTION LINE — ACCOUNT APPROVAL CODE

DELIVERY ADDRESS

CITY — STATE — ZIP

PHONE NUMBER — PURCHASE ORDER NUMBER

MANIFEST NUMBER

SHIPPING INFORMATION

This is to certify that the below named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

NO	TYPE	QTY	UNIT	US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	SALES REPRESENTATIVE

SERVICE SECTION

SALES CODE	DESCRIPTION	WASTE CODE	QUANTITY	UNIT PRICE	PRICE	TAX	LINE TOTAL
40500	USED OIL REMOVAL						
40300	ANTI-FREEZE REMOVAL						
40400	OILY WATER DISPOSAL		55	50			
41100	SLUDGE DISPOSAL						
41000	GASOLINE/WATER						
40900	DRUM DISPOSAL						
41507	TANK ENTRY						
40600	OIL FILTER REMOVAL						
40800	PARTS WASHER SERVICE						
40611	NEW 55 GAL DRUM / 17H						
42001	DEXSIL TEST KIT TAX		Use 25	3	Item 7	53.00	Over
41506	TRANSPORTATION						
40700	LLD ANTI-FREEZE			Credit	of	1256.00	
41508	TRUCK AND OPERATOR						
					TOTAL	5 36.15	

PARTS WASHER SERVICE INTERVAL _____ DAYS.
USED OIL CUSTOMER SERVICED EVERY 30 DAYS UNLESS OTHERWISE INDICATED.
USED OIL SERVICE INTERVAL _____ DAYS.

GENERATOR WARRANTS AND REPRESENTS THAT THE MATERIALS PROVIDED LORCO HEREUNDER HAVE NOT BEEN MIXED, COMBINED, OR OTHERWISE BLENDED IN ANY QUANTITY WITH MATERIALS CONTAINING POLYCHLORINATED BIPHENYLS (PCB) OR ANY OTHER MATERIAL DEFINED AS HAZARDOUS WASTE UNDER APPLICABLE LAWS, INCLUDING BUT NOT LIMITED TO 40 CFR PART 261. GENERATOR AGREES TO INDEMNIFY AND HOLD LORCO HARMLESS FOR ANY DAMAGES, COSTS, ATTORNEY'S FEES, ETC. ARISING OUT OF OR IN ANY WAY RELATED TO A BREACH OF THE ABOVE WARRANTY BY THE GENERATOR.

Generator certifies that the waste is ☐ used oil ☐ used antifreeze ☐ oily water ☐ oil filter ☐ parts washer solvent

☐ Other _____ Description

In accordance the N.J.A.C. 7:26-12.1 et seq, LORCO has the required permits to accept the above described waste.

X Anthony Lane
Print Name — Title

X Anthony Lane
Signature — Date

GENERATOR/CUSTOMER

CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR CERTIFICATION

I certify that this generator generates less than 100 kilograms of hazardous waste per month as defined at 40 C.F.R. 261, and does not accumulate more than 1,000 kilograms of such waste during the month.

X _____
GENERATOR'S SIGNATURE

NON CONDITIONALLY EXEMPT LARGE QUANTITY GENERATOR CERTIFICATION

DEXSIL CDT TEST RESULTS

X _____ PPM

CUSTOMER

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT SECTION. INVOICES REFLECTING CHARGES TO CUSTOMER ARE SUBJECT TO AN INTEREST RATE OF THE LESSER OF 1½% PER MONTH (18% PER ANNUM) OR THE MAXIMUM RATE ALLOWED BY LAW ON ANY INVOICES THAT ARE NOT PAID WITHIN 30 DAYS. IN THE EVENT OF DEFAULT, LORCO SHALL BE ENTITLED TO RECOVER COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES. INITIAL _____

$ 536.15

PAYMENT RECEIVED SECTION

CASH ☐	TOTAL RECEIVED
CHECK NUMBER 152400	$ 325.00

In accordance with NJAC7:26-6.7b + 40CFR PART 279 LORCO has notified the US EPA of its location and used oil management activities.

X Jose L Rivera
Print Name

X Jose L Rivera 12/1/05
Signature — Date

LORCO REPRESENTATIVE