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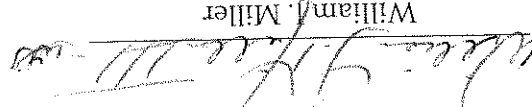
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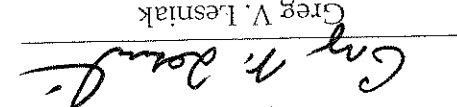
AQUIFER EVALUATION REPORT DEANSBORO WATER SUPPLY WELL TOWN OF MARSHALL, ONEIDA COUNTY, NEW YORK

Prepared For:
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GEOLOGIC AND ENVIRONMENTAL SERVICES

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1.0 INTRODUCTION

This report presents data and findings resulting from the installation and pump testing of one 10-inch diameter production well located in the Town of Marshall, Oneida County, New York (see Figure 1). The well is being evaluated to develop a backup drinking water source for the Deansboro Water District. The current water demand for the district is less than 50 gallons per minute (gpm).

This hydrogeologic investigation was performed for the Deansboro Water District Advisory Board and Richard W. Elliott, Civil Engineer. Mr. Greg V. Lesniak, Continental Placer Inc. (CPI) Regional Manager/Senior Geologist performed the investigation, evaluation, and report preparation. Mr. William J. Miller, Senior Hydrogeologist provided peer review and additional hydrogeologic interpretations.

2.0 PURPOSE

The purpose of this investigation was to install a community water supply well capable of providing the Deansboro Water District with water of sufficient quantity and quality for use as a backup water source. A test well and surrounding aquifer were evaluated during a 24-hour pumping test to estimate the safe yield of the sand and gravel aquifer. Water quality samples were collected and analyzed according to New York State Sanitary Code Part 5 requirements.

3.0 PREVIOUS HYDROGEOLOGIC INVESTIGATIONS

Previous reports completed by CPI and others describing earlier investigations were utilized to aid the selection of the test well location. These reports are titled as follows:

1. Engineers Report on Study of Proposed Improvements to Deansboro Water District, Prepared by Richard W. Elliott, P.E., December 2002
2. Phase I Water Supply Investigation Report, Prepared by Continental Placer Inc., February 2005
3. Geophysical Survey Report, Prepared by Continental Placer Inc., March 22, 2005
4. Results of Exploratory Boring OB-1, Prepared by Continental Placer Inc., May 2, 2005

The December 2002 Engineers Report describes previous groundwater exploration activities in the Deansboro Water District in an effort to develop a backup supply source. CPI's February 2005 Phase I Report presents recommended locations for further groundwater exploration where hydrogeologic conditions appeared favorable to yield adequate groundwater quality and quantity to meet backup supply demands. The results of an electrical resistivity geophysical survey at two target areas were presented in CPI's March 22, 2005 Geophysical Survey Report. CPI's May 2, 2005 correspondence described the geology encountered at the OB-1 boring/observation well location, which was advanced at a target location (based on the geophysical survey).



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Figure 2

Well Location Map
Deansboro Study Area
Oneida Co., New York

Source: NYS GIS Orthorectified Program, 2003

Drawn by:
CWP

Date:
9/9/05



The results of preliminary water quality sampling from OB-1 were also discussed in the May 2, 2005 letter.

4.0 OBSERVATION WELL AND TEST WELL DRILLING

4.1 Evaluation of Geologic and Hydrologic Conditions

The geologic and hydrogeologic conditions at the site were evaluated during earlier phases of this groundwater exploration project (refer to documents listed in Section 3.0 of this report) and by reviewing available well logs, geologic and hydrogeologic maps, USGS topographic maps and related Deansboro Water District and CPI file information.

Based on the geophysical survey conducted on land owned by the Town of Marshall features of low resistivity (indicating water-bearing sand and gravel) were identified. The orientation of several of these low resistivity zones indicates that they may be connected linear features such as buried glacial stream channels that run parallel to the Oriskany Creek Valley. CPI recommended advancing one exploratory soil boring at a feature of low resistivity in a field approximately 1000 feet east of a sand pit and 300 feet north of a sharp bend in the Oriskany Creek (refer to Figure 2 - Well Location Map).

4.2 Exploratory Soil Boring

One soil boring (labeled OB-1) was installed on April 7-11, 2005. A CPI geologist supervised the installation of the soil boring. Parratt Wolff, Inc. of Syracuse, New York provided drilling services and employed mud rotary drilling methods. Lithology, water bearing intervals and other drilling observations were logged during boring advancement and are provided as Appendix A. Split-spoon samples were collected at five to ten foot intervals during drilling following ASTM standard methods for soil and material sampling (continuous split spoon sampling was conducted at depths of 88 to 108 feet in OB-1). The predominant lithology consisted of dense gray clayey silt with sand and gravel from approximately 18 to 83 feet below ground surface (bgs) in OB-1. Interbedded gray sandy gravel and gravely sand were encountered at approximately 83 to 104 feet. Clayey sand and gravel with cobbles and boulders were encountered from 104 to 111 feet bgs. The boring was not advanced beyond 111 feet as drilling difficulties were encountered in the dense zone from 104 to 111 feet.

4.3 Observation Well OB-1 Construction and Initial Water Quality Sampling

Boring OB-1 was subsequently converted to an observation well. Observation well OB-1 is constructed of two-inch flush-joint PVC riser pipe with 20 feet of screen (0.02 inch slot size) set at 84 to 104 feet. Clean water from the drilling rig was pumped into the well to flush out much of the bentonite drilling mud from the screened interval. A sand pack of coarse sand was installed to approximately one foot above the top of the screen and a bentonite seal was installed above the sand pack. The remainder of the annular space

was grouted to prevent surface water from entering the drill hole and to secure the protective steel casing (equipped with a pad lock).

The well was developed on April 15, 2005 using a hand surge block and a Waterra pump. Prior to any manipulation of the water table, CPI measured the depth of water relative to the top of casing with a water level meter. The water level was measured to be 6.11 feet below top of inner casing (approximately 4.0 feet bgs). The water level was measured during development and sampling. The water level was drawn down 0.2 feet after 300 gallons of water was withdrawn at pumping rates of 2.5 to 5 gallons per minute (gpm). The water level returned to the original static level within 10 seconds after pumping ceased.

A groundwater sample was collected after well development. Sampling was conducted using a Waterra pump and decontaminated tubing. The sample was observed to be slightly turbid and grayish in color (indicating that the drilling mud had not been fully developed out of the well). The sample was submitted to Adirondack Laboratory of Albany, New York with chain of custody documentation for analysis of VOCs by Environmental Protection Agency (EPA) Method 502.2, nitrate, sodium, iron and manganese.

Concentrations of analyzed VOCs and nitrates exceeding reporting limits or drinking water maximum contaminant levels (MCL) were not detected by the laboratory. Iron (3.64 mg/L) exceeded the secondary MCL of 0.3 mg/L. Manganese (0.271 mg/L) and chloride (79 mg/L) were detected in the sample below their MCLs of 0.3 and 250 mg/L respectively. Sodium was detected at 54.9 mg/L.

Due to the high iron content in the initial sample, three additional samples were collected during pumping of the well on June 2, 2005 for iron, manganese, sodium and turbidity. The sample collected with the lowest turbidity (12 NTU) contained iron at 2.19 mg/L, manganese at 0.094 mg/L and sodium at 45.4 mg/L.

4.4 Test Well TW-1 Drilling

Based on the encountered lithology and anticipated water quality in the aquifer surrounding observation well OB-1 the Deansboro Water District Advisory Board authorized CPI to install one test well adjacent to OB-1. The test well was constructed to meet or exceed the minimum public water supply well construction standards and would become a production well pending the hydrogeologic investigation results documented in this report.

The test well (TW-1) installation began on July 19, 2005. The Layne Christensen Company (Layne) provided drilling services for this project. A 16-inch temporary steel casing was advanced approximately 11 feet south of OB-1 using dual-rotary drilling. The temporary casing was advanced to 92 feet and nearly continuous soil samples were collected during boring advancement. The encountered lithology exhibited dense gray clayey silt with sand and gravel from 11 to 65 feet; sand with coarse gravel from

approximately 65 feet to 82 feet; an increasing percentage of finer sands was observed from 82 to 92 feet. Water being blown out of the air rotary discharge was estimated at 150 gallons per minute during boring advancement (65 to 82 feet) with a reduced flow rate below 82 feet due to sand clogging the borehole. A well construction log for TW-1 is provided in Appendix A.

Soil gradation analyses were conducted on samples collected from the soil boring. Table 1 summarizes the soil sample intervals analyzed. Results of these tests were used to design test well screen for site-specific geologic conditions.

Table 1

Soil Samples Selected for Gradation Analyses - TW-1

Sample Depth (ft bgs)

65-72
72-75
75-77
77-79
79-81
81-83
89-91
91-92

4.5 Test Well Design and Well Construction

Based on the soil gradation results (Appendix B presents the raw results of the sieve analyses) the test well design included a 16 by 10-inch diameter steel casing with a screened interval set a 72 to 82 feet bgs. A stainless steel wire-wound screen with a slot size of 0.1 inches and a No. 4 gravel pack was selected.

The screen was set on August 1, 2005. Appendix A presents the well construction log for TW-1. Well development began on August 3, 2005 and was continued for a total of 35 hours (development was scheduled for 40 hours however the development water appeared clear and sediment free after 35 hours). Well development was conducted using airlift/air surge and pumping. A pumping rate of 200 gpm was sustained during much of the well development.

At end of well development CPI collected a water sample for total iron analysis. The iron concentration was determined to be 1.04 mg/L during well development (approximate development pumping rate of 200 gpm).

5.0 PUMPING TEST - TEST WELL TW-1

5.1 Step Test

A step/drawdown test was performed to determine the optimum pumping rate for use during the subsequent 24-hour pumping test. The step test on production well TW-1 was conducted on August 9, 2005 and consisted of 4 pumping rates (steps) each 60 minutes in durations. Based on information derived from the step test, a discharge rate of 400-gpm was chosen for the 24-hour pumping test of production well TW-1. Specific capacity was estimated during the step test and is presented in Table 2. The data collected during the step test is provided as Appendix C.

Table 2

Step Test Results - TW-1

Step Number	Pumping Rate	Specific Capacity (gpm/ft.)
1	252	20.42
2	299	19.97
3	351	19.72
4	545	18.91

5.2 Pump Test Monitoring Network

The pumping test on TW-1 was initiated at 8:35am August 30, 2005 at a rate of 407 gpm. The pumping test was performed using a submersible pump and a portable generator. Discharge rates were monitored using a 4 by 6-inch orifice with a piezometer tube. Water produced during the pump test was discharged to a dry ditch approximately 210 feet east of the well (this water drained to the north away from the pumping well).

Prior to initiating the 24-hour test CPI personnel collected static water levels from production well TW-1, observation well OB-1 (located 11 feet north of TW-1), Pit Well (located approximately 650 feet to the west) and a staff gauge in Oriskany Creek (located approximately 270 feet south of TW-1). The staff gauge consisted of a 2-inch diameter perforated PVC well screen driven into the edge of the Oriskany Creek stream channel. Water levels from the staff gauge were recorded relative to top of casing. Refer to Figure 2 for locations of these monitoring points on a scaled aerial photograph. Water level data were collected from the TW-1, OB-1 and Pit Well for the duration of the test using In-situ MiniTroll pressure transducer dataloggers. Hand collected water levels (Appendix D) were also recorded periodically from these monitoring points using electronic water level meters. A rain gauge was staged at the site to measure precipitation amounts during the monitoring period.

5.3 Background Water Level Data

Background (pre-test) water levels were collected to assess fluctuations in water levels not directly caused by well pumping. Background data collection began at approximately 11:00 am on August 26, 2005. Background data demonstrating stable water level conditions are provided as Appendix E. TW-1 water levels did increase approximately 0.2 inches 5 hours prior to starting the pump test, however only trace rain had been recorded at the site during the background-monitoring period. OB-1 water levels also increased approximately 0.2 inches 7 hours prior to starting the pump test. The Pit Well water level did not fluctuate significantly during the background-monitoring period.

5.4 Pumping Water Level Data

The 24-hour pumping test of TW-1 was started at 8:35 am August 30, 2005 at a discharge rate of 407 gpm. A summary of pump test drawdown and recovery data is provided as Table 3. The drawdown data and graphs are included in Appendix F (hand collected data is provided in Appendix D).

TW-1 had a total drawdown of 21.36 feet from the static water level (the static level was 7.59 feet below top of casing). Approximately 95% of this drawdown (20.29 feet) occurred during the first 3.5 hours of the pump test. The drawdown in this well appeared to stabilize at the depth 52 feet above the top of the screened interval of the well.

OB-1 had a total drawdown of 12.55 feet from the static water level (the static level was 7.40 feet below top of casing). Approximately 95% of this drawdown (11.92 feet) occurred during the first 5.5 hours of the pump test.

The Oriskany Creek Staff Gauge water level gauge fluctuated significantly during the pump test with an overall decrease of 0.05 feet during the pump test. However the decrease in level does not appear to be a response to pumping of TW-1 as background water levels demonstrated significant increases and decreases prior to the test. The Pit Well water level did not respond to pumping during the duration of the test.

Rainfall occurred during the final 10 hours of the pumping test. A total of 0.67 inches of rain fell at the site mostly between 12 pm and 4 am. Because the aquifer water levels stabilized during the early portion of the pumping test and the deep, confined nature of the aquifer, CPI did not consider that the rain event would significantly impact pump test data.

Table 3
Summary of Pump Test Drawdown and Recovery Data
Deansboro Water District- Deansboro, New York

Well ID	Static Water Level	Final Water Level	Final Drawdown	95% of Drawdown (feet)	Time 95% Drawdown Occurred (min from start of test)	Recovered Water Level	Time of Recovery Measurement (min. from end of test)	Percent Recovery
TW-1	7.59	28.95	21.36	20.29	~ 210	8.70	285	95%
OB-1	7.40	19.95	12.55	11.92	~ 330	8.50	285	88%
Pit Well	9.50	9.5	0.00	NA	NA	9.50	285	100%
Creek Gauge	2.65	2.86	0.21	NA	NA	NA	NA	NA

5.5 Recovery Water Level Data

The 24-hour pumping test of TW-1 was ceased at 8:37 am August 31, 2005. Recovery data was collected from the monitoring wells until the production well water level recovered to 95% of the pretest water level. A summary of the recovery data is provided in Table 3. The drawdown data and graphs are included in Appendix G (hand collected data is provided in Appendix D). The recovery data demonstrates that the test well TW-1 water level recovered 95% within 4.75 hours. Observation well OB-1 water level recovered 88% during this same time frame.

5.6 Field Parameters Comparison in Oriskany Creek and TW-1

During the pumping test, CPI collected periodic measurements of pH, specific conductance and temperature in the discharge water from TW-1 and at the Oriskany Creek Staff Gauge. The field parameters data is provided in Table 4. The most notable trends in the data included a decrease of temperature in TW-1 from 12.1°C at the beginning of the test to 11.6°C at the end of the test. The surface water temperature ranged from 17.2°C to 18.7°C with an average of 17.92°C. The pH levels increased slightly (0.1 SU) in TW-1 during the test. Conductivity also increased slightly (0.06 mS/cm) in TW-1 during the test.

Indications that the groundwater aquifer at TW-1 is directly under the influence of surface water were not readily noted in the field parameter data collected. Pursuant to NYSDOH PWS-42 Technical Reference (Identification of Groundwater Sources Under the Direct Influence of Surface Water) detailed evaluation of the source was not conducted with respects to surface water influence because the test well has over 50 feet of grouted steel casing and is over 200 feet from the nearest surface water.

5.7 Pumping Test Data Evaluation

The water level data collected during the pumping tests were converted to drawdown measurements. The drawdown data were plotted graphically on a semi-log plot as elapsed time versus drawdown. The pumping test data were then evaluated by the COOPER-JACOB Modified non-equilibrium equations to determine estimates of transmissivity (T) for the aquifer.

Aquifer parameters were estimated from the time versus drawdown graphs. The graphs of the data are included in Appendix F. The estimated transmissivity value computed from the data represents a realistic value from which to base long-term predictions. The estimates of T and storativity (S) values computed from the drawdown data are shown on Table 5.

Table 4
Field Parameters in TW-1 and Oriskany Creek
Deansboro Water District, Deansboro, New York

Date	Time	pH		Specific Conductance (mS/cm)		Temperature (degrees Celsius)		Water Level (ft BTOC)	
		TW-1	Creek	TW-1	Creek	TW-1	Creek	TW-1	Creek
8/30/05	7:30AM	7.03	8.10	1.96	0.58	12.1	17.3	7.65	2.65
	9:30	7.03	7.91	1.97	0.59	12.2	17.4	26.72	2.71
	10:30	7.04	8.11	1.95	0.58	12.2	17.7	27.39	2.80
	11:30	7.09	8.15	1.94	0.59	12.4	18.4	27.80	2.88
	12:30	7.10	8.20	1.94	0.58	12.3	18.7	28.03	2.91
	13:30	7.03	NA	1.94	NA	12.3	NA	28.20	NA
	14:30	6.97	8.23	1.85	0.61	12.3	18.5	28.30	3.02
	15:30	7.02	NA	1.85	NA	12.3	NA	28.42	3.05
	18:30	7.19	8.26	1.91	0.62	12.1	18.7	28.65	3.00
	20:30	7.19	NA	1.91	NA	12.0	NA	28.89	NA
8/31/05	1:30AM	7.19	8.13	1.87	0.64	11.5	17.9	28.85	2.88
	2:30	6.92	NA	1.88	NA	11.4	NA	28.85	NA
	3:30	6.92	8.16	1.90	0.66	11.2	17.4	28.87	2.82
	4:30	7.11	NA	1.87	NA	11.4	NA	28.89	NA
	7:30	7.16	NA	1.87	NA	11.6	NA	28.99	2.72
	8:30	7.16	8.10	1.86	0.62	11.6	17.2	28.95	2.70

NOTES

TW-1 Pumping Rate of 407 gpm started Aug 30th at 8:35am to Aug 31st 8:37am
 Creek Sampling Point at gauge in Oriskany Creek 270 feet south of TW-1

The specific capacity of TW-1, based on the data collected during the 24-hour pump test, is 19.05 gallons per foot. At a maximum available drawdown of 58 feet, this would equate to a theoretical maximum yield of nearly 1,000 gpm. However, due to well efficiency and screen opening size limitations, this maximum yield is not likely attainable.

5.8 Specific Capacity and Safe Yield

Calculated Transmissivity Values	
Recovery Data – Test Well TW-1	
TW-1	35,816
OB-1	26,862
Average	31,339

Table 6

An estimate average of T from the drawdown data collected at test/production well TW-1 is approximately 18,722 gallons per day per foot (gpd/ft.). An estimate of S is approximately 0.044 (dimensionless), which is indicative of a semi-confined aquifer.

Well Number	T (gpd/ft.)	S (dimensionless)
TW-1	19,536	Undefined
OB-1	17,908	0.044
Average	18,722	0.044

Table 5

Calculated Transmissivity and Storativity Values

The pump test data demonstrates that test well TW-1 has a long-term safe yield of 400 gpm or greater. This estimated safe yield greatly exceeds the water districts current demand of 50 gpm.

6.0 WATER QUALITY ANALYSIS

Water quality samples were collected from a sampling tap in the discharge line of the test pump system prior to the conclusion of the 24-hour pumping test. The samples were collected into laboratory prepared bottleware, packed in ice and delivered directly to Adirondack Laboratories of Albany, New York under formal chain of custody procedures. The water quality samples were analyzed for parameters required by New York State Sanitary Code, Part 5 for community water systems. The water quality results for TW-1 are included in Appendix H.

The water quality results for TW-1 indicate that the water sample has total iron and sulfate at concentrations exceeding Part 5 maximum contaminant levels (MCLs). Total iron concentrations over 0.3 can be allowed by the NYSDOH when justified by the supplier of water. Total hardness was reported at 1,600 mg/L, which is a high level, and concentrations of total dissolved solids were also high (1,830 mg/L). The turbidity of the sample was slightly elevated, however turbidity levels are likely to decline with well use. The concentrations and MCLs of these elevated parameters are presented in Table 7 below:

Table 7
Elevated Water Quality Parameters
Deansboro - Test Well TW-1

<u>Parameter</u>	<u>Result</u>	<u>MCL</u>
Total Iron (mg/L)	2.04	0.3
Sulfate (mg/L)	1,040	250
Total Diss. Solids (mg/L)	1,830	No MCL
Turbidity (NTU)	5.9	5
Total Hardness (mg/L)	1,600	No MCL

Based on these results the raw water from TW-1 would require treatment to achieve MCLs or aesthetically acceptable drinking water. CPI recommends resampling for these parameters at the most likely flow rate to be used by the Deansboro Water District. This resampling would determine if significant reduction in these levels could be measured when pumping at a reduced rate (a flow rate of 50 gpm would provide sufficient water quantity to meet and slightly exceed current water district demands). Total iron levels were shown to be 1.04 mg/L when sampled at the end of well development at a pumping rate of approximately 200 gpm.

- 7.0 CONCLUSIONS**
- 7.1 Production well TW-1 is installed in a semi-confined sand and gravel aquifer.
 - 7.2 Production well TW-1 has a demonstrated safe yield of 400 gallons per minute.
 - 7.3 Water quality at production well TW-1 did not meet the New York State Code Part 5 standards for iron, sulfates and turbidity. Total hardness and total dissolved solids were also determined to be elevated.

8.0 RECOMMENDATIONS

- 8.1 Test Well TW-1 should be resampled for total iron, sulfate, turbidity, total hardness, and total dissolved solids while pumping at a reduced pumping rate (approximately 50 gpm) to determine if concentrations of these parameters relates to pumping rates.
- 8.2 Pending the results of the above resampling water treatment options should be evaluated to achieve MCLs.
- 8.3 Once a treatment option has been selected a Water Supply Application should be submitted to the NYSDOH for approval to use Test Well TW-1 as a water supply production well. The maximum withdrawal rate to be requested will be dependant on the proposed treatment system designed flow rate. The requested withdrawal rate should not exceed 350 gpm as the pump test duration and evaluation was conducted to NYSDOHs Level One Protocol, which is for well fields that produce less than 350 gpm).
- 8.4 A wellhead protection plan should be prepared and submitted to the NYSDOH within one year of well completion.

Appendix A Well Logs

PROJECT: Deansboro Water District		CLIENT: Richard W. Eliott, P.E.		DRILLING CONTRACTOR: Panoff - Wolff, Inc.		PURPOSE: Groundwater Exploration		DATE OF MEASUREMENT: 4/15/05	
BORING NO.: OB-1		SHEET OF 1 OF 3		JOB NO.: 597-01-04-2410		MEAS.		Ground Elev.:	
DRILLING METHOD: Mud Rotary		Diameter		Type		Sample		Core	
Diameter		Weight		Fall		30"		see note	
Type		3"		SS		Casing		Datum:	
Start Date: April 11, 2005		End Date: April 11, 2005		Driller: Ian		Inspector: Greg V. Lesniak		Remarks	
Depth	Sample No.	Blows on Sample Spoon per 6" See Driller's Log	Unified Class.	Sample Type	Geologic Description				Remarks
10	S - 1	2-16	SS.		Brown, silt, clay and sand with gravel, moist				
		22 - 24							
20	S - 2	22 - 40	SS		Cobbles noted 10 - 18'				
		50/0.3			Gray clayey silt and fine gravel, dense, moist				
30	S - 3	50/0.4	SS		No recovery				
					Hole caving, advance casing to 28'				
40	S - 4	29 - 40	SS		Cobbles noted 33 - 35'				
					Gray clayey silt with fine and medium gravel, dry to moist				
					50/0.3				

TEST BORING LOG

CONTINENTAL PLACER INC. 26 Computer Drive West, Albany, New York 12205 (518) 458-9203						
BORING NO.: OB-1						
PROJECT: Deansboro Water District						
CLIENT: Richard W. Elliott, P.E.						
Depth	Sample No.	Blows on Sample Spoon per 6"	Unified Class	Sample Type	Geologic Description	Remarks
40						
50	S - 5	52 - 50/0.3	S.S.		Gray clayey silt with fine and medium gravel, dry to moist	
60	S - 6	31 - 54/0.3			Gray clayey silt with fine and medium gravel, dry to moist	
70	S - 7	100/0.5			Gray clayey silt with fine and medium gravel, dry to moist	Slower drilling at 70.5'. 1' to 1.5' boulders encountered
80	S - 8	100/0.5			Gray silt with broken shale, cobbles and trace clay, dense, moist	
90	S - 10	56 - 50/0.3	S.S.		Gray silty medium to coarse sand, wet	
	S - 11	20 - 30	S.S.		Gray silty medium to coarse sand, wet	
92	S - 12	22 - 40	S.S.		Gray medium to coarse sand and gravel, wet	
		35 - 50				
94	S - 13	48 - 100/0.4	S.S.		Gray coarse gravel with minor silt and medium sand, wet	
		22 - 74	S.S.		Gray coarse gravel with minor silt and medium sand, wet	
96	S - 14	51 - 39				
		8 - 16	S.S.		Gray medium sand with minor silt and fine gravel, wet	
98	S - 15	60 - 50/0.3	S.S.		Gray medium sand with minor silt and fine gravel, wet	
		100/0.5	S.S.		Gray medium sand with minor silt and fine gravel, wet	
100	S - 16					

TEST BORING LOG

CONTINENTAL PLACER INC. 26 Computer Drive West, Albany, New York 12205 (518) 458-9203									
BORING NO. OB-1									
Sheet of 3 of 3									
Job No. 597-01-04-2410									
CLIENT: Richard W. Elliott, P.E.									
PROJECT: Deansboro Water District									
Depth	Sample No.	Blows on Sample Spoon	See Drillers Log	Unified Class.	Sample Type	Geologic Description	Remarks		
102	S - 17	27 - 54	50/0.3	S.S.	Gray medium sand with minor silt and fine gravel, wet				
104	S - 18	50/0.3		S.S.	gray clayey medium sand with cobbles, minor silt, wet, dense				
106	S - 19	50/0.4		S.S.	Boulders - no recovery				
108	S - 20	50/0.05		S.S.	Boulders - no recovery				
110	S - 21	50/0.07		S.S.	Boulders - no recovery		Lost 150 gallons drilling mud at 108' - 109'		
End of Drilling at 111'									
Boring caved from 104' - 111' when tools removed									

Rev. 8/1/00

CONTINENTAL PLACER INC. 26 Computer Drive West, Albany, New York 12205 (518) 458-9203	
PROJECT: Deansboro Water District CLIENT: Richard W. Elliott, PE JOB NO.: 597-01-04-2410 INSPECTOR: Greg Lesniak DATE DRILLED: April 7 - 11, 2005 DATE DEVELOPED: April 11 and 15, 2005	WELL CONSTRUCTION DETAIL
Type of Well: Overburden Static Water Level: 6.11 Measuring Point (MP): BTOIC Total Depth of Well: 104' Total Depth of Boring: 111'	Drilling Method: Type: Mud Rotary Casing: 4" Steel casing 0 - 38' Diameter: 3 7/8"
Sample Method: Type: Split Spoon Weight: 140 lbs. Diameter: 3" Fall: 30" Interval:	Riser Pipe Left in Place: Material: PVC Length: 0 - 84' Diameter: 2" Joint Type: Threaded Material: PVC Slot Size: 0.02 Interval: 84 - 104' Screened: Sand & gravel
Filter Pack: Sand: No. 1 Natural: Amount: Interval: 82 - 104' Gravel: Grade: Interval: 82 - 104'	Seal(s): Type: Bentonite Chips Type: Cement/grout Interval: 0 - 79' Interval:
Locking Casing: Yes: No: X	NOTES:

TW-1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

(1) County Oneida
(2) Town Deerboro

(3) DEC Well Number OE2605

WELL COMPLETION REPORT

(4) OWNER <u>Deerboro Water District</u>		(5) ADDRESS <u>26 Cornett Place Inc.</u>		(6) LOCATION OF WELL (See Instructions on Reverse) <u>See Attached</u>		(7) DEPTH OF WELL BELOW LAND SURFACE (feet) <u>82 ft</u>		(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) <u>7.49</u>		(9) DATE MEASURED <u>8/5/05</u>	
(10) LENGTH <u>10</u>		(11) DIAMETER <u>10</u>		(12) LENGTH <u>72</u>		(13) GROUT TYPE / SEALING <u>Portland / Bentonite</u>		(14) OPENINGS <u>100.51 ft</u>		(15) MAKE & MATERIAL <u>Johnson 5 ft. SH.</u>	
(16) LENGTH <u>10</u>		(17) DIAMETER <u>10</u>		(18) LENGTH <u>10</u>		(19) DIAMETER <u>10</u>		(20) LENGTH <u>10</u>		(21) DIAMETER <u>10</u>	
(22) LENGTH <u>10</u>		(23) DIAMETER <u>10</u>		(24) LENGTH <u>10</u>		(25) DIAMETER <u>10</u>		(26) LENGTH <u>10</u>		(27) DIAMETER <u>10</u>	
(28) LENGTH <u>10</u>		(29) DIAMETER <u>10</u>		(30) LENGTH <u>10</u>		(31) DIAMETER <u>10</u>		(32) LENGTH <u>10</u>		(33) DIAMETER <u>10</u>	
(34) LENGTH <u>10</u>		(35) DIAMETER <u>10</u>		(36) LENGTH <u>10</u>		(37) DIAMETER <u>10</u>		(38) LENGTH <u>10</u>		(39) DIAMETER <u>10</u>	
(40) LENGTH <u>10</u>		(41) DIAMETER <u>10</u>		(42) LENGTH <u>10</u>		(43) DIAMETER <u>10</u>		(44) LENGTH <u>10</u>		(45) DIAMETER <u>10</u>	
(46) LENGTH <u>10</u>		(47) DIAMETER <u>10</u>		(48) LENGTH <u>10</u>		(49) DIAMETER <u>10</u>		(50) LENGTH <u>10</u>		(51) DIAMETER <u>10</u>	
(52) LENGTH <u>10</u>		(53) DIAMETER <u>10</u>		(54) LENGTH <u>10</u>		(55) DIAMETER <u>10</u>		(56) LENGTH <u>10</u>		(57) DIAMETER <u>10</u>	
(58) LENGTH <u>10</u>		(59) DIAMETER <u>10</u>		(60) LENGTH <u>10</u>		(61) DIAMETER <u>10</u>		(62) LENGTH <u>10</u>		(63) DIAMETER <u>10</u>	
(64) LENGTH <u>10</u>		(65) DIAMETER <u>10</u>		(66) LENGTH <u>10</u>		(67) DIAMETER <u>10</u>		(68) LENGTH <u>10</u>		(69) DIAMETER <u>10</u>	
(70) LENGTH <u>10</u>		(71) DIAMETER <u>10</u>		(72) LENGTH <u>10</u>		(73) DIAMETER <u>10</u>		(74) LENGTH <u>10</u>		(75) DIAMETER <u>10</u>	
(76) LENGTH <u>10</u>		(77) DIAMETER <u>10</u>		(78) LENGTH <u>10</u>		(79) DIAMETER <u>10</u>		(80) LENGTH <u>10</u>		(81) DIAMETER <u>10</u>	
(82) LENGTH <u>10</u>		(83) DIAMETER <u>10</u>		(84) LENGTH <u>10</u>		(85) DIAMETER <u>10</u>		(86) LENGTH <u>10</u>		(87) DIAMETER <u>10</u>	
(88) LENGTH <u>10</u>		(89) DIAMETER <u>10</u>		(90) LENGTH <u>10</u>		(91) DIAMETER <u>10</u>		(92) LENGTH <u>10</u>		(93) DIAMETER <u>10</u>	
(94) LENGTH <u>10</u>		(95) DIAMETER <u>10</u>		(96) LENGTH <u>10</u>		(97) DIAMETER <u>10</u>		(98) LENGTH <u>10</u>		(99) DIAMETER <u>10</u>	
(100) LENGTH <u>10</u>		(101) DIAMETER <u>10</u>		(102) LENGTH <u>10</u>		(103) DIAMETER <u>10</u>		(104) LENGTH <u>10</u>		(105) DIAMETER <u>10</u>	
(106) LENGTH <u>10</u>		(107) DIAMETER <u>10</u>		(108) LENGTH <u>10</u>		(109) DIAMETER <u>10</u>		(110) LENGTH <u>10</u>		(111) DIAMETER <u>10</u>	
(112) LENGTH <u>10</u>		(113) DIAMETER <u>10</u>		(114) LENGTH <u>10</u>		(115) DIAMETER <u>10</u>		(116) LENGTH <u>10</u>		(117) DIAMETER <u>10</u>	
(118) LENGTH <u>10</u>		(119) DIAMETER <u>10</u>		(120) LENGTH <u>10</u>		(121) DIAMETER <u>10</u>		(122) LENGTH <u>10</u>		(123) DIAMETER <u>10</u>	
(124) LENGTH <u>10</u>		(125) DIAMETER <u>10</u>		(126) LENGTH <u>10</u>		(127) DIAMETER <u>10</u>		(128) LENGTH <u>10</u>		(129) DIAMETER <u>10</u>	
(130) LENGTH <u>10</u>		(131) DIAMETER <u>10</u>		(132) LENGTH <u>10</u>		(133) DIAMETER <u>10</u>		(134) LENGTH <u>10</u>		(135) DIAMETER <u>10</u>	
(136) LENGTH <u>10</u>		(137) DIAMETER <u>10</u>		(138) LENGTH <u>10</u>		(139) DIAMETER <u>10</u>		(140) LENGTH <u>10</u>		(141) DIAMETER <u>10</u>	
(142) LENGTH <u>10</u>		(143) DIAMETER <u>10</u>		(144) LENGTH <u>10</u>		(145) DIAMETER <u>10</u>		(146) LENGTH <u>10</u>		(147) DIAMETER <u>10</u>	
(148) LENGTH <u>10</u>		(149) DIAMETER <u>10</u>		(150) LENGTH <u>10</u>		(151) DIAMETER <u>10</u>		(152) LENGTH <u>10</u>		(153) DIAMETER <u>10</u>	
(154) LENGTH <u>10</u>		(155) DIAMETER <u>10</u>		(156) LENGTH <u>10</u>		(157) DIAMETER <u>10</u>		(158) LENGTH <u>10</u>		(159) DIAMETER <u>10</u>	
(160) LENGTH <u>10</u>		(161) DIAMETER <u>10</u>		(162) LENGTH <u>10</u>		(163) DIAMETER <u>10</u>		(164) LENGTH <u>10</u>		(165) DIAMETER <u>10</u>	
(166) LENGTH <u>10</u>		(167) DIAMETER <u>10</u>		(168) LENGTH <u>10</u>		(169) DIAMETER <u>10</u>		(170) LENGTH <u>10</u>		(171) DIAMETER <u>10</u>	
(172) LENGTH <u>10</u>		(173) DIAMETER <u>10</u>		(174) LENGTH <u>10</u>		(175) DIAMETER <u>10</u>		(176) LENGTH <u>10</u>		(177) DIAMETER <u>10</u>	
(178) LENGTH <u>10</u>		(179) DIAMETER <u>10</u>		(180) LENGTH <u>10</u>		(181) DIAMETER <u>10</u>		(182) LENGTH <u>10</u>		(183) DIAMETER <u>10</u>	
(184) LENGTH <u>10</u>		(185) DIAMETER <u>10</u>		(186) LENGTH <u>10</u>		(187) DIAMETER <u>10</u>		(188) LENGTH <u>10</u>		(189) DIAMETER <u>10</u>	
(190) LENGTH <u>10</u>		(191) DIAMETER <u>10</u>		(192) LENGTH <u>10</u>		(193) DIAMETER <u>10</u>		(194) LENGTH <u>10</u>		(195) DIAMETER <u>10</u>	
(196) LENGTH <u>10</u>		(197) DIAMETER <u>10</u>		(198) LENGTH <u>10</u>		(199) DIAMETER <u>10</u>		(200) LENGTH <u>10</u>		(201) DIAMETER <u>10</u>	
(202) LENGTH <u>10</u>		(203) DIAMETER <u>10</u>		(204) LENGTH <u>10</u>		(205) DIAMETER <u>10</u>		(206) LENGTH <u>10</u>		(207) DIAMETER <u>10</u>	
(208) LENGTH <u>10</u>		(209) DIAMETER <u>10</u>		(210) LENGTH <u>10</u>		(211) DIAMETER <u>10</u>		(212) LENGTH <u>10</u>		(213) DIAMETER <u>10</u>	
(214) LENGTH <u>10</u>		(215) DIAMETER <u>10</u>		(216) LENGTH <u>10</u>		(217) DIAMETER <u>10</u>		(218) LENGTH <u>10</u>		(219) DIAMETER <u>10</u>	
(220) LENGTH <u>10</u>		(221) DIAMETER <u>10</u>		(222) LENGTH <u>10</u>		(223) DIAMETER <u>10</u>		(224) LENGTH <u>10</u>		(225) DIAMETER <u>10</u>	
(226) LENGTH <u>10</u>		(227) DIAMETER <u>10</u>		(228) LENGTH <u>10</u>		(229) DIAMETER <u>10</u>		(230) LENGTH <u>10</u>		(231) DIAMETER <u>10</u>	
(232) LENGTH <u>10</u>		(233) DIAMETER <u>10</u>		(234) LENGTH <u>10</u>		(235) DIAMETER <u>10</u>		(236) LENGTH <u>10</u>		(237) DIAMETER <u>10</u>	
(238) LENGTH <u>10</u>		(239) DIAMETER <u>10</u>		(240) LENGTH <u>10</u>		(241) DIAMETER <u>10</u>		(242) LENGTH <u>10</u>		(243) DIAMETER <u>10</u>	
(244) LENGTH <u>10</u>		(245) DIAMETER <u>10</u>		(246) LENGTH <u>10</u>		(247) DIAMETER <u>10</u>		(248) LENGTH <u>10</u>		(249) DIAMETER <u>10</u>	
(250) LENGTH <u>10</u>		(251) DIAMETER <u>10</u>		(252) LENGTH <u>10</u>		(253) DIAMETER <u>10</u>		(254) LENGTH <u>10</u>		(255) DIAMETER <u>10</u>	
(256) LENGTH <u>10</u>		(257) DIAMETER <u>10</u>		(258) LENGTH <u>10</u>		(259) DIAMETER <u>10</u>		(260) LENGTH <u>10</u>		(261) DIAMETER <u>10</u>	
(262) LENGTH <u>10</u>		(263) DIAMETER <u>10</u>		(264) LENGTH <u>10</u>		(265) DIAMETER <u>10</u>		(266) LENGTH <u>10</u>		(267) DIAMETER <u>10</u>	
(268) LENGTH <u>10</u>		(269) DIAMETER <u>10</u>		(270) LENGTH <u>10</u>		(271) DIAMETER <u>10</u>		(272) LENGTH <u>10</u>		(273) DIAMETER <u>10</u>	
(274) LENGTH <u>10</u>		(275) DIAMETER <u>10</u>		(276) LENGTH <u>10</u>		(277) DIAMETER <u>10</u>		(278) LENGTH <u>10</u>		(279) DIAMETER <u>10</u>	
(280) LENGTH <u>10</u>		(281) DIAMETER <u>10</u>		(282) LENGTH <u>10</u>		(283) DIAMETER <u>10</u>		(284) LENGTH <u>10</u>		(285) DIAMETER <u>10</u>	
(286) LENGTH <u>10</u>		(287) DIAMETER <u>10</u>		(288) LENGTH <u>10</u>		(289) DIAMETER <u>10</u>		(290) LENGTH <u>10</u>		(291) DIAMETER <u>10</u>	
(292) LENGTH <u>10</u>		(293) DIAMETER <u>10</u>		(294) LENGTH <u>10</u>		(295) DIAMETER <u>10</u>		(296) LENGTH <u>10</u>		(297) DIAMETER <u>10</u>	
(298) LENGTH <u>10</u>		(299) DIAMETER <u>10</u>		(300) LENGTH <u>10</u>		(301) DIAMETER <u>10</u>		(302) LENGTH <u>10</u>		(303) DIAMETER <u>10</u>	
(304) LENGTH <u>10</u>		(305) DIAMETER <u>10</u>		(306) LENGTH <u>10</u>		(307) DIAMETER <u>10</u>		(308) LENGTH <u>10</u>		(309) DIAMETER <u>10</u>	
(310) LENGTH <u>10</u>		(311) DIAMETER <u>10</u>		(312) LENGTH <u>10</u>		(313) DIAMETER <u>10</u>		(314) LENGTH <u>10</u>		(315) DIAMETER <u>10</u>	
(316) LENGTH <u>10</u>		(317) DIAMETER <u>10</u>		(318) LENGTH <u>10</u>		(319) DIAMETER <u>10</u>		(320) LENGTH <u>10</u>		(321) DIAMETER <u>10</u>	
(322) LENGTH <u>10</u>		(323) DIAMETER <u>10</u>		(324) LENGTH <u>10</u>		(325) DIAMETER <u>10</u>		(326) LENGTH <u>10</u>		(327) DIAMETER <u>10</u>	
(328) LENGTH <u>10</u>		(329) DIAMETER <u>10</u>		(330) LENGTH <u>10</u>		(331) DIAMETER <u>10</u>		(332) LENGTH <u>10</u>		(333) DIAMETER <u>10</u>	
(334) LENGTH <u>10</u>		(335) DIAMETER <u>10</u>		(336) LENGTH <u>10</u>		(337) DIAMETER <u>10</u>		(338) LENGTH <u>10</u>		(339) DIAMETER <u>10</u>	
(340) LENGTH <u>10</u>		(341) DIAMETER <u>10</u>		(342) LENGTH <u>10</u>		(343) DIAMETER <u>10</u>		(344) LENGTH <u>10</u>		(345) DIAMETER <u>10</u>	
(346) LENGTH <u>10</u>		(347) DIAMETER <u>10</u>		(348) LENGTH <u>10</u>		(349) DIAMETER <u>10</u>		(350) LENGTH <u>10</u>		(351) DIAMETER <u>10</u>	
(352) LENGTH <u>10</u>		(353) DIAMETER <u>10</u>		(354) LENGTH <u>10</u>		(355) DIAMETER <u>10</u>		(356) LENGTH <u>10</u>		(357) DIAMETER <u>10</u>	
(358) LENGTH <u>10</u>		(359) DIAMETER <u>10</u>		(360) LENGTH <u>10</u>		(361) DIAMETER <u>10</u>		(362) LENGTH <u>10</u>		(363) DIAMETER <u>10</u>	
(364) LENGTH <u>10</u>		(365) DIAMETER <u>10</u>		(366) LENGTH <u>10</u>		(367) DIAMETER <u>10</u>		(368) LENGTH <u>10</u>		(369) DIAMETER <u>10</u>	
(370) LENGTH <u>10</u>		(371) DIAMETER <u>10</u>		(372) LENGTH <u>10</u>		(373) DIAMETER <u>10</u>		(374) LENGTH <u>10</u>		(375) DIAMETER <u>10</u>	
(376) LENGTH <u>10</u>		(377) DIAMETER <u>10</u>		(378) LENGTH <u>10</u>		(379) DIAMETER <u>10</u>		(380) LENGTH <u>10</u>		(381) DIAMETER <u>10</u>	
(382) LENGTH <u>10</u>		(383) DIAMETER <u>10</u>		(384) LENGTH <u>10</u>		(385) DIAMETER <u>10</u>		(386) LENGTH <u>10</u>		(387) DIAMETER <u>10</u>	
(388) LENGTH <u>10</u>		(389) DIAMETER <u>10</u>		(390) LENGTH <u>10</u>		(391) DIAMETER <u>10</u>		(392) LENGTH <u>10</u>		(393) DIAMETER <u>10</u>	
(394) LENGTH <u>10</u>		(395) DIAMETER <u>10</u>		(396) LENGTH <u>10</u>		(397) DIAMETER <u>10</u>		(398) LENGTH <u>10</u>		(399) DIAMETER <u>10</u>	
(400) LENGTH <u>10</u>		(401) DIAMETER <u>10</u>		(402) LENGTH <u>10</u>		(403) DIAMETER <u>10</u>		(404) LENGTH <u>10</u>		(405) DIAMETER <u>10</u>	
(406) LENGTH <u>10</u>		(407) DIAMETER <u>10</u>		(408) LENGTH <u>10</u>		(409) DIAMETER <u>10</u>		(410) LENGTH <u>10</u>		(411) DIAMETER <u>10</u>	
(412) LENGTH <u>10</u>		(413) DIAMETER <u>10</u>		(414) LENGTH <u>10</u>		(415) DIAMETER <u>10</u>		(416) LENGTH <u>10</u>		(417) DIAMETER <u>10</u>	
(418) LENGTH <u>10</u>		(419) DIAMETER <u>10</u>		(420) LENGTH <u>10</u>		(421) DIAMETER <u>10</u>		(422) LENGTH <u>10</u>		(423) DIAMETER <u>10</u>	
(424) LENGTH <u>10</u>		(425) DIAMETER <u>10</u>		(426) LENGTH <u>10</u>		(427) DIAMETER <u>10</u>		(428) LENGTH <u>10</u>		(429) DIAMETER <u>10</u>	
(430) LENGTH <u>10</u>		(431) DIAMETER <u>10</u>		(432) LENGTH <u>10</u>		(433) DIAMETER <u>10</u>		(434) LENGTH <u>10</u>		(435) DIAMETER <u>10</u>	
(436) LENGTH <u>10</u>		(437) DIAMETER <u>10</u>		(438) LENGTH <u>10</u>		(439) DIAMETER <u>10</u>		(440) LENGTH <u>10</u>		(441) DIAMETER <u>10</u>	
(442) LENGTH <u>10</u>		(443) DIAMETER <u>10</u>		(444) LENGTH <u>10</u>		(445) DIAMETER <u>10</u>		(446) LENGTH <u>10</u>		(447) DIAMETER <u>10</u>	
(448) LENGTH <u>10</u>		(449) DIAMETER <u>10</u>		(450) LENGTH <u>10</u>		(451) DIAMETER <u>10</u>		(452) LENGTH <u>10</u>		(453) DIAMETER <u>10</u>	
(454) LENGTH <u>10</u>		(455) DIAMETER <u>10</u>		(456) LENGTH <u>10</u>		(457) DIAMETER <u>10</u>		(458) LENGTH <u>10</u>		(459) DIAMETER <u>10</u>	
(460) LENGTH <u>10</u>		(461) DIAMETER <u>10</u>		(462) LENGTH <u>10</u>		(463) DIAMETER <u>10</u>		(464) LENGTH <u>10</u>		(465) DIAMETER <u>10</u>	
(466) LENGTH <u>10</u>		(467) DIAMETER <u>10</u>		(468) LENGTH <u>10</u>		(469) DIAMETER <u>10</u>		(470) LENGTH <u>10</u>		(471) DIAMETER <u>10</u>	
(472) LENGTH <u>10</u>		(473) DIAMETER <u>10</u>		(474) LENGTH <u>10</u>		(475) DIAMETER <u>10</u>		(476) LENGTH <u>10</u>		(477) DIAMETER <u>10</u>	
(478) LENGTH <u>10</u>		(479) DIAMETER <u>10</u>		(480) LENGTH <u>10</u>		(481) DIAMETER <u>10</u>		(482) LENGTH <u>10</u>		(483) DIAMETER <u>10</u>	
(484) LENGTH <u>10</u>		(485) DIAMETER <u>10</u>		(486) LENGTH <u>10</u>		(487) DIAMETER <u>10</u>		(488) LENGTH <u>10</u>		(489) DIAMETER <u>10</u>	
(490) LENGTH <u>10</u>		(491) DIAMETER <u>10</u>		(492) LENGTH <u>10</u>		(493) DIAMETER <u>10</u>		(494) LENGTH <u>10</u>		(495) DIAMETER <u>10</u>	
(496) LENGTH <u>10</u>		(497) DIAMETER <u>10</u>		(498) LENGTH <u>10</u>		(499) DIAMETER <u>10</u>		(500) LENGTH <u>10</u>		(501) DIAMETER <u>10</u>	
(502) LENGTH <u>10</u>		(503) DIAMETER <u>10</u>		(504) LENGTH <u>10</u>		(505) DIAMETER <u>10</u>		(506) LENGTH <u>10</u>		(507) DIAMETER <u>10</u>	
(508) LENGTH <u>10</u>		(509) DIAMETER <u>10</u>		(510) LENGTH <u>10</u>		(511) DIAMETER <u>10</u>		(512) LENGTH <u>10</u>		(513) DIAMETER <u>10</u>	
(514) LENGTH <u>10</u>		(515) DIAMETER <u>10</u>		(516) LENGTH <u>10</u>		(517) DIAMETER <u>10</u>		(518) LENGTH <u>10</u>		(519) DIAMETER <u>10</u>	
(520) LENGTH <u>10</u>		(521) DIAMETER <u>10</u>		(522) LENGTH <u>10</u>		(523) DIAMETER <u>10</u>		(524) LENGTH <u>10</u>		(525) DIAMETER <u>10</u>	
(526) LENGTH <u>10</u>		(527) DIAMETER <u>10</u>		(528) LENGTH <u>10</u>		(529) DIAMETER <u>10</u>		(530) LENGTH <u>10</u>		(531) DIAMETER <u>10</u>	
(532) LENGTH <u>10</u>		(533) DIAMETER <u>10</u>		(534) LENGTH <u>10</u>		(535) DIAMETER <u>10</u>		(536) LENGTH <u>1</u>			

TW-1



Route 30, P.O. Box 917 • Schoharie, New York 12157 • Phone (518) 295-8288 • Fax: (518) 295-8289

Layne Christensen company

DRILLERS REPORT

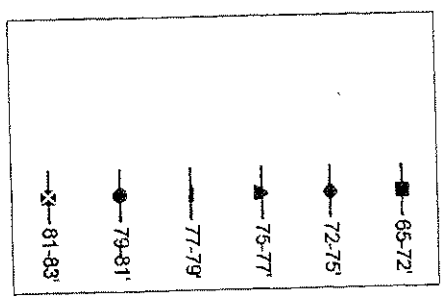
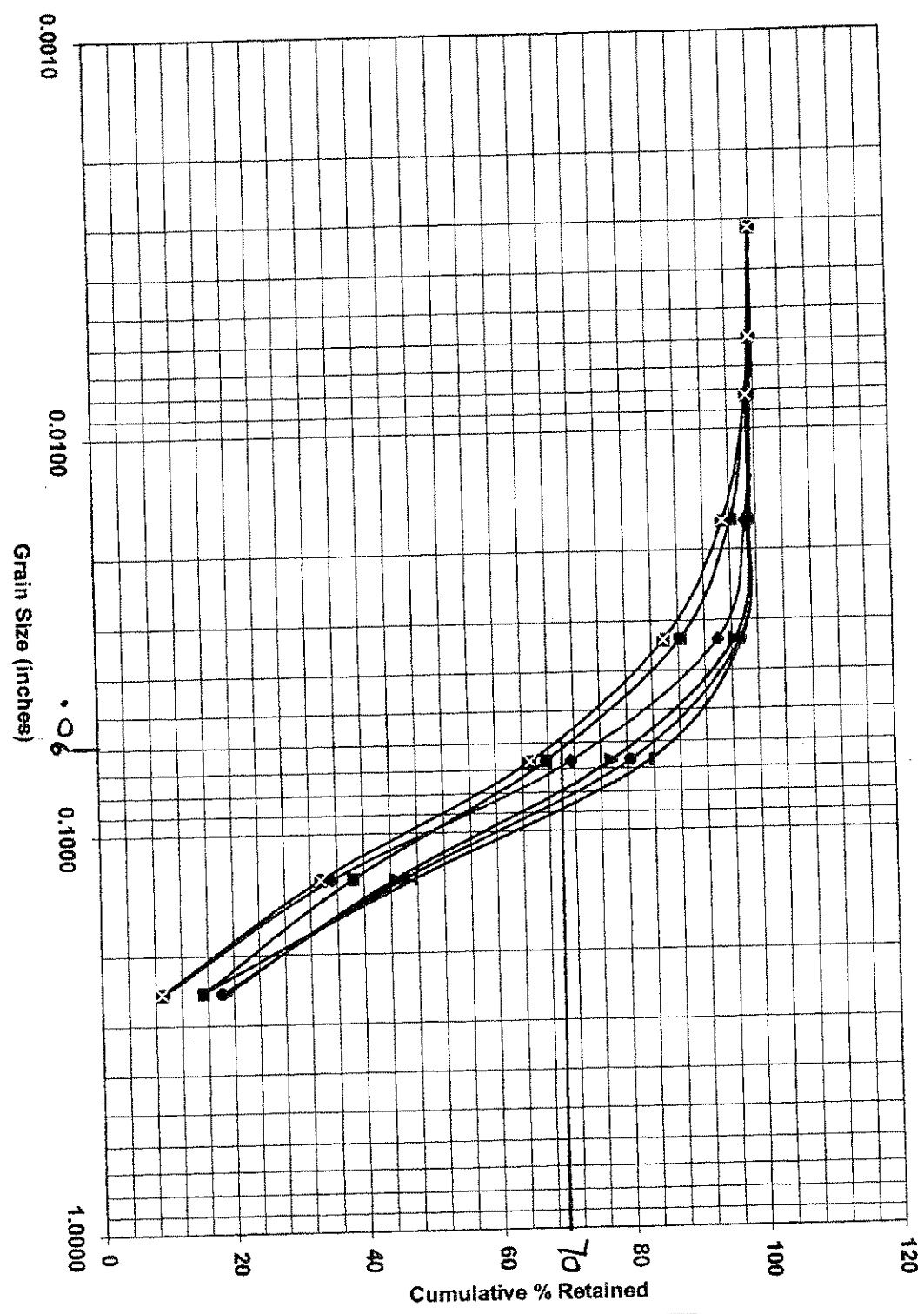
JOB NO. 760560
 CUSTOMER Deansboro
 DRILLER R. Rehberg
 WELL LOCATION Rt 315 behind Town barn
 LAYNE WELL NO. #16 X 10"
 STATE PERMIT NO. 1
 REMARKS

FORMATION
 SKETCH OF SETTING
 PIPE SET: DIA. 16" WALL 1500 LGTH. 92' MATL. Steel T & C (ON) WELDED
 PIPE LEFT IN PLACE: DIA. 10" WALL 74 LGTH. 74 MATL. Steel T & C (ON) WELDED
 SCREEN: NOM. SIZE 10" LD. 10' LGTH. 10'3" DIA. 100
 MISC. JOHNSON Type wire 5.5' GA. NO. 100
 SET IN #4 gravel
 WELL UNDERMINED TO DIAMETER FORMATION
 MISC. R & L BACK OFF CUT OFF PACKER
 CONE: DIA. TOP DIA. BOT. LGTH. MTL.
 PLUG: DIA. LGTH. MTL.
 AMT. 128 bags 50# GRAVEL
 BAGS PWD. REG. CLAY
 SIZE 4# BAGS 100# CEMENT
 VOS. CONCRETE 84 bags
 LGTH. SEAL: CLAY 100#
 METHOD OF DRILLING: ☒ STD. ROT. ☐ REV. ROT. ☐ CABLE TOOL ☐ AIR ROT. OTHER
 MEASUREMENTS: GROUND ELEV. ABOVE SEA LEVEL
 DEPTH OF WELL AFTER PLUG. 82' FROM ☒ GND. LEV. ☐ TOP OF CASING ☐ ORIG. GND. LEV.
 MISCELLANEOUS: DATE WORK STARTED 7-19-05 DATE FIRST PUMPED 8-9-05
 DID WELL CLEAR UP 4.5' HOW LONG 4.5' WAS SAND PUMPED 38' HOW LONG AGITATED 38' HOW LONG PUMPED 38' SAMPLE TAKEN 4
 PRELIMINARY TEST DATA: STATIC LEVEL 7.49 GPM WITH 36.21 PUMPING LEVEL
 DATE 8-9-05 WATER TEMP. 36.21
 SKETCH OF LOCATION
 SIGNATURE OF DRILLER R. Rehberg
 Town barn
 RT 315
 16 X 10"

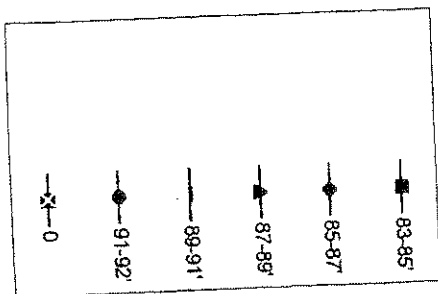
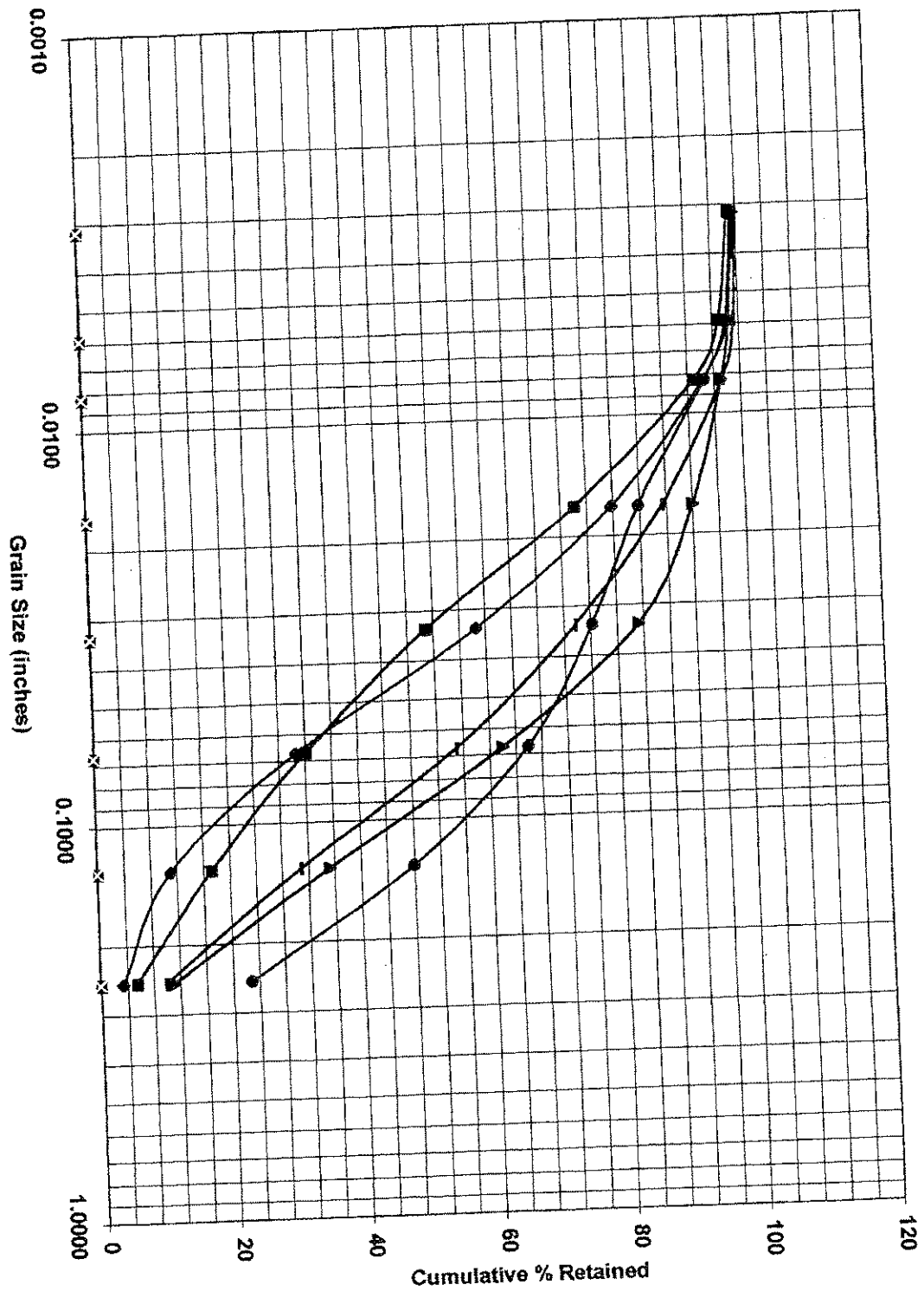
Appendix B

Soil Gradation Results - TW-1

Deansboro



Deansboro



SIEVE ANALYSIS: Deansboro
 DATE: 7/22/05
 SAMPLE DEPTH: 65-72'
 72'

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4		6.35	0.2500	48	15.24	15
6		3.32	0.1307	73	23.17	38
12		1.7	0.0669	92	29.21	68
20		0.85	0.0335	65	20.63	88
40		0.43	0.0169	25	7.94	96
70		0.21	0.0083	8	2.54	99
100		0.15	0.0059	2	0.63	99
200		0.08	0.0031	1	0.32	100
PAN				1	0.32	100
TOTALS						
				315	100.00	

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4		6.35	0.2500	36	9.32	9
6		3.32	0.1307	95	26.03	35
12		1.7	0.0669	132	36.16	72
20		0.85	0.0335	82	22.47	94
40		0.43	0.0169	16	4.38	98
70		0.21	0.0083	4	1.10	99
100		0.15	0.0059	1	0.27	100
200		0.08	0.0031	1	0.27	100
PAN				0	0.00	100
TOTALS						
				365	100.00	

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4		6.35	0.2500	61	18.82	19
6		3.32	0.1307	88	25.88	45
12		1.7	0.0669	112	32.94	78
20		0.85	0.0335	64	18.82	96
40		0.43	0.0169	8	2.35	99
70		0.21	0.0083	1	0.29	99
100		0.15	0.0059	1	0.29	100
200		0.08	0.0031	1	0.29	100
PAN				1	0.29	100
TOTALS						
				340	100.00	

SIEVE ANALYSIS: Deansboro
DATE: 7/22/05

SAMPLE DEPTH: 77-79'

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500	0.0100	49	14.98	15
6	3.32	0.1307	0.0052	107	32.72	48
12	1.7	0.0669	0.0026	117	35.78	83
20	0.85	0.0335	0.0013	46	14.07	98
40	0.43	0.0169	0.0006	4	1.22	99
70	0.21	0.0083	0.0003	1	0.31	99
100	0.15	0.0059	0.0002	1	0.31	99
200	0.08	0.0031	0.0001	1	0.31	100
PAN				327	100.00	100
TOTALS						

SAMPLE DEPTH: 79-81'

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500	0.0100	61	18.10	18
6	3.32	0.1307	0.0052	94	27.89	46
12	1.7	0.0669	0.0026	116	34.42	80
20	0.85	0.0335	0.0013	57	16.91	97
40	0.43	0.0169	0.0006	6	1.78	99
70	0.21	0.0083	0.0003	1	0.30	99
100	0.15	0.0059	0.0002	1	0.30	100
200	0.08	0.0031	0.0001	1	0.30	100
PAN				0	0.00	100
TOTALS						

SAMPLE DEPTH: 81-83'

SIEVE NO.	HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500	0.0100	32	8.89	9
6	3.32	0.1307	0.0052	89	24.72	34
12	1.7	0.0669	0.0026	114	31.67	65
20	0.85	0.0335	0.0013	74	20.56	86
40	0.43	0.0169	0.0006	33	9.17	95
70	0.21	0.0083	0.0003	14	3.89	99
100	0.15	0.0059	0.0002	2	0.56	99
200	0.08	0.0031	0.0001	1	0.28	100
PAN				1	0.28	100
TOTALS						

SIEVE ANALYSIS: Deansboro
DATE: 7/22/05

SAMPLE DEPTH: 89-91'

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500	46	9.80	10
6	3.32	0.1307	75	21.01	31
12	1.7	0.0669	86	24.09	55
20	0.85	0.0335	67	18.77	74
40	0.43	0.0169	49	13.73	87
70	0.21	0.0083	35	9.80	97
100	0.15	0.0059	7	1.96	99
200	0.08	0.0031	2	0.56	100
PAN			1	0.28	100
TOTALS					
			357	100.00	

SAMPLE DEPTH: 91-92'

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500	55	22.83	23
6	3.32	0.1307	87	25.14	48
12	1.7	0.0669	62	17.92	66
20	0.85	0.0335	36	10.40	76
40	0.43	0.0169	26	7.51	84
70	0.21	0.0083	37	10.69	95
100	0.15	0.0059	13	3.76	98
200	0.08	0.0031	3	0.87	99
PAN			3	0.87	100
TOTALS					
			346	100.00	

SAMPLE DEPTH:

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	RETAINED
1/4	6.35	0.2500			#DIV/0!
6	3.32	0.1307			#DIV/0!
12	1.7	0.0669			#DIV/0!
20	0.85	0.0335			#DIV/0!
40	0.43	0.0169			#DIV/0!
70	0.21	0.0083			#DIV/0!
100	0.15	0.0059			#DIV/0!
200	0.08	0.0031			#DIV/0!
PAN					#DIV/0!
TOTALS					
			0		#DIV/0!

SIEVE ANALYSIS: Deansboro
DATE: 7/22/05

SAMPLE DEPTH: 83-85'

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	% RETAINED
1/4	6.35	0.2500	21	5.38	5
6	3.32	0.1307	46	11.79	17
12	1.7	0.0669	58	14.87	32
20	0.85	0.0335	73	18.72	51
40	0.43	0.0169	91	23.33	74
70	0.21	0.0083	73	18.72	93
100	0.15	0.0059	16	4.10	97
200	0.08	0.0031	7	1.79	99
PAN			5	1.28	100
TOTALS					
			390	100.00	

SAMPLE DEPTH: 85-87'

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	% RETAINED
1/4	6.35	0.2500	13	3.32	3
6	3.32	0.1307	30	7.67	11
12	1.7	0.0669	77	19.69	31
20	0.85	0.0335	109	27.88	59
40	0.43	0.0169	83	21.23	80
70	0.21	0.0083	57	14.58	94
100	0.15	0.0059	14	3.58	98
200	0.08	0.0031	5	1.28	99
PAN			3	0.77	100
TOTALS					
			391	100.00	

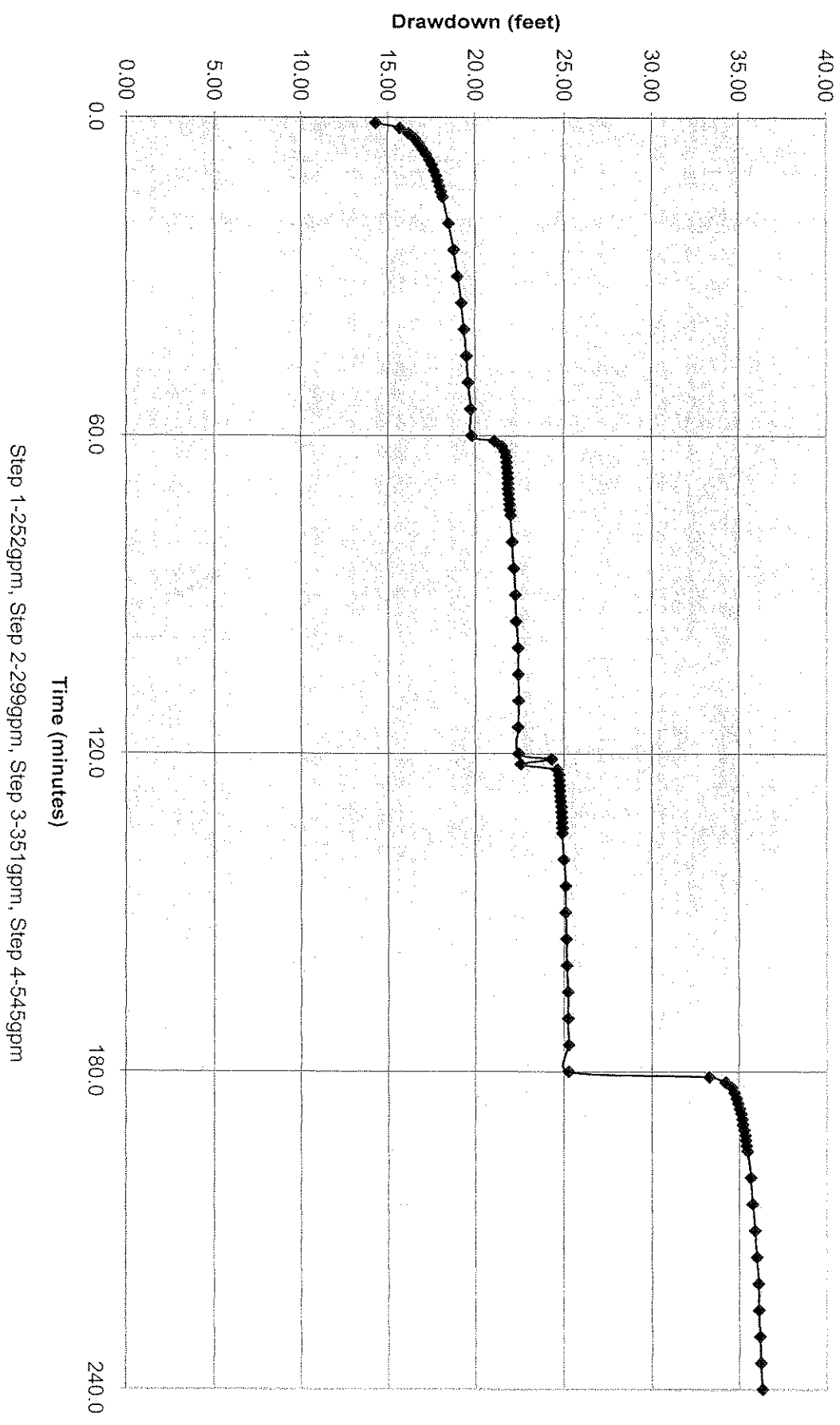
SAMPLE DEPTH: 87-89'

SIEVE NO. HEAVIES	OPENING MM	OPENING INCHES	WEIGHT GRAMS	%	% RETAINED
1/4	6.35	0.2500	22	11.14	11
6	3.32	0.1307	91	24.14	35
12	1.7	0.0669	101	26.79	62
20	0.85	0.0335	80	21.22	83
40	0.43	0.0169	33	8.75	92
70	0.21	0.0083	19	5.04	97
100	0.15	0.0059	5	1.33	98
200	0.08	0.0031	4	1.06	99
PAN			2	0.53	100
TOTALS					
			377	100.00	

Appendix C

Step Test Data - TW-1

Deansboro Water District TW-1 Step Test, August 9, 2005



Deansboro Step Test TW-1 8/9/05		
Time (min)	Pumping Level (ft)	Pumping Rate (GPM)
0	7.49	0
1.0	14.32	252.0
2.0	15.70	
3.0	16.22	
4.0	16.58	
5.0	16.81	
6.0	17.03	
7.0	17.24	
8.0	17.41	
9.0	17.56	
10.0	17.68	
11.0	17.82	
12.0	17.90	
13.0	18.00	
14.0	18.09	
15.0	18.18	
20.0	18.52	
25.0	18.81	
30.0	19.03	
35.0	19.24	
40.0	19.40	
45.0	19.52	
50.0	19.64	
55.0	19.75	
60.0	19.83	
61.0	21.10	299.0
62.0	21.52	
63.0	21.70	
64.0	21.75	
65.0	21.79	
66.0	21.80	
67.0	21.83	
68.0	21.85	
69.0	21.87	
70.0	21.89	
71.0	21.90	
72.0	21.94	
73.0	21.96	
74.0	21.98	
75.0	22.01	
80.0	22.10	
85.0	22.20	
90.0	22.28	
95.0	22.34	
100.0	22.42	
105.0	22.45	
110.0	22.46	
115.0	22.46	
120.0	22.46	

Deansboro Step Test TW-1 8/9/05		
Time (min)	Pumping Level (ft)	Pumping Rate (GPM)
121.0	24.31	351.0
122.0	22.57	
123.0	24.62	
124.0	24.75	
125.0	24.76	
126.0	24.78	
127.0	24.80	
128.0	24.81	
129.0	24.83	
130.0	24.85	
131.0	24.87	
132.0	24.88	
133.0	24.89	
134.0	24.91	
135.0	24.93	
140.0	25.02	
145.0	25.10	
150.0	25.12	
155.0	25.14	
160.0	25.19	
165.0	25.23	
170.0	25.27	
175.0	25.28	
180.0	25.29	
181.0	33.30	545.0
182.0	34.25	
183.0	34.60	
184.0	34.75	
185.0	34.85	
186.0	34.96	
187.0	35.05	
188.0	35.13	
189.0	35.19	
190.0	35.23	
191.0	35.30	
192.0	35.38	
193.0	35.41	
194.0	35.45	
195.0	35.49	
200.0	35.67	
205.0	35.79	
210.0	35.91	
215.0	36.02	
220.0	36.09	
225.0	36.14	
230.0	36.19	
235.0	36.26	
240.0	36.31	

Appendix D
Manually Collected Water Level Data

CONTINENTAL PLACER INC.

26 Computer Drive West
Albany, New York 12205

Project Deansboro Water District
Location Deansboro Wellfield
Hydrologist Greg Lesniak

Production Well
Well No. TW-1
Screen Size 100 slot
Pump Setting 64 ft RTOC
Date Drilled July 21, 2005
Flow Measurement Orifice 4x6
Measuring Point TOC

PUMPING TEST FIELD DATA

Project No.:
Sheet: 1 of 3
Monitoring Well No: OB-1

Test: TW-1 24hr Test

Well Size 10 inch
Screen Length 10 feet
Aquifer sand and gravel
Drilled By Layne of New York
Well Depth 82 ft
Screen Setting 72-82

DATE	ACTUAL	ELAPSED(t)	DEPTH	DD	DISC.	RV.
8/26/2005	11:15 AM		7.51			
8/30/2005	7:55 AM		7.40			
	8:35 AM	start	0.32			
	8:35:30	0.5	11:00			
	8:37 AM	2	10:10			
	8:38 AM	3	13:00			
	8:39 AM	4	13:50			
	8:40 AM	5	13:90			
	8:41 AM	6	14.10			
	8:42 AM	7	14.40			
	8:43 AM	8	14.65			
	8:44 AM	9	14.80			
	8:45 AM	10	14.90			
	8:46 AM	11	15.10			
	8:47 AM	12	15.25			
	8:48 AM	13	15.35			
	8:49 AM	14	15.55			
	8:50 AM	15	16.05			
	8:55 AM	20	16.40			
	9:00 AM	25	16.70			
	9:10 AM		16.90			
	9:15 AM		17.10			
	9:20 AM		17.30			
	9:25 AM		17.40			
	9:30 AM		17.55			
	TIME		WATER LEVEL			
					TIME	

CONTINENTAL PLACER INC.

26 Computer Drive West
Albany, New York 12205

PUMPING TEST FIELD DATA

Project No.:

Sheet:

Monitoring Well No. OB-1
2 of 3

Test: TW-1 24 hr

DATE	TIME	WATER LEVEL	TEMP	RATE
DATE	ACTUAL ELAPSED(t)	DEPTH	DISC.	RV.
8/30/2005	10:05 AM	90		407
	10:15 AM	100		407
	11:15 AM	160		407
	12:15 PM	220		407
	12:35 PM	240		407
	1:35 PM	300		407
	2:35 PM	360		407
	3:35 PM	420		407
	4:35 PM	480		407
	5:35 PM	540		407
	6:35 PM	600		407
	7:35 PM	660		407
	8:35 PM	720		407
8/31/2005	1:35 AM	1020		407
	2:35 AM	1080		407
	3:35 AM	1140		407
	4:35 AM	1200		407
	8:35 AM	1440		407
	8:37 AM	stop		407
	8:38 AM	16.00		0
	8:39 AM	14.85		
	8:40 AM	14.30		
	8:41 AM	13.90		
	8:42 AM	13.60		
	8:43 AM	13.30		
	8:44 AM	13.15		
	8:45 AM	13.00		
	8:46 AM	12.80		
	8:47 AM	12.65		
	8:48 AM	12.50		
	8:49 AM	12.30		
	8:50 AM	13		
	8:51 AM	14		
	8:52 AM	15		
	8:57 AM	20		
	9:04 AM	25		
	9:09 AM	30		
		11:00		

26 Computer Drive West
Albany, New York 12205

PUMPING TEST FIELD DATA

Project No.: _____

Sheet: 3 of 3

Monitoring Well No.: _____

Test: _____

TW-1 24 hr

OB-1

[illegible]

PUMPING TEST FIELD DATA

Project No.:

Sheet 1 of 2

Monitoring Well No.: TW-1

Project Deansboro Water District

Location Deansboro Wellfield

Hydrologist Greg V. Lesniak

Test: TW-1 24-hr Test

Production Well

Well No. TW-1

Screen Size 100 slot

Pump Setting 64 ft BTOC

Aquifer Sand & Gravel

Date Drilled July 21, 2005

Drilled By Layne Christensen Company

Flow Measurement Orifice (4x6)

Measuring Point TOC Top of Casing

TIME	TIME	Waterlevel	PH	Sp Cond	Temp	Rate
8/26/2005	11:09 AM					0
8/30/2005	7:37 AM		7.03	1960	12.1	0
	8:35 AM	0				407
	8:36 AM	1				407
	8:37 AM	2				407
	8:38 AM	3				407
	8:39 AM	4				407
	8:40 AM	5				407
	8:41 AM	6				407
	8:42 AM	7				407
	8:43 AM	8				407
	8:44 AM	9				407
	8:45 AM	10				407
	8:46 AM	11				407
	8:47 AM	12				407
	8:48 AM	13				407
	8:49 AM	14				407
	8:50 AM	15				407
	8:55 AM	20				407
	9:00 AM	25				407
	9:05 AM	30				407
	9:10 AM	35				407
	9:15 AM	40				407
	9:20 AM	45	7.03	1970	12.2	407
	9:25 AM	50				407

DATE	TIME	ACTUAL	ELAPSED	TIME	Waterlevel	PH	Sp Cond	Temp	Rate
	9:30 AM	55		26.62			ms/cm	Celsius	GPM
	9:35 AM	60		26.72					407
	9:45 AM	70		26.92					407
	9:55 AM	80		27.05					407
8/30/2005	10:05 AM	90		27.19					407
	10:15 AM	100		27.30					407
	10:25 AM	110		27.39					407
	10:35 AM	120		27.48					407
	11:35 AM	180		27.80					407
	12:35 PM	240		28.03					407
	1:35 PM	300		28.30					407
	2:35 PM	360		28.42					407
	3:35 PM	420		28.50					407
	4:35 PM	480		28.58					407
	5:35 PM	540		28.65					407
	6:35 PM	600		28.70					407
	7:35 PM	660		28.75					407
	8:35 PM	720		28.80					407
	9:35 PM	780		28.85					407
	10:35 PM	840		28.85					407
	11:35 PM	900		28.85					407
8/31/2005	12:35 PM	960		28.85					407
	1:35 AM	1020		28.85					407
	2:35 AM	1080		28.85					407
	3:35 AM	1140		28.87					407
	4:35 AM	1200		28.89					407
	5:35 AM	1260		28.93					407
	6:35 AM	1320		28.95					407
	7:35 AM	1380		28.99					407
	8:37 AM	1442		28.95					407

CONTINENTAL PLACER INC
26 Computer Drive West
Albany, New York 12205

Project Water District
Location Deansboro Well Field
Hydrologist Greg V. Lesniak
Production Well

Well No. TW-1

Screen Size 100 slot

Pump Setting 64 ft BTOC

Date Drilled July 21, 2005

Flow Measurement Orifice (4x6)

Measuring Point TOC Top of Casing

PUMPING TEST FIELD DATA

Project No.:

Sheet: 1 of 1

Monitoring Well No: Staff Gauge

Test: TW-1 24-hr Test

Well Size 10-inch Well Depth: 82
Screen Length 10+ft Screen Setting: 72-82
Aquifer Sand & Gravel
Drilled By Layne Christensen Company

TIME	WATERLEVEL	PH	Sp. Cond mS/cm	Temp. Celsius	Rainfall (total)
08/26/05	12:30 PM	3.10			
08/30/05	8:05 AM	2.65	580	8.1	
	9:30 AM	2.71	590	7.91	
	10:30 AM	2.80	580	8.11	
	11:30 AM	2.88	590	8.15	
	12:30 PM	2.91	580	8.2	
	2:30 PM	3.02	610	8.23	
	3:30 PM	3.05			
	6:30 PM	3.00	620	8.26	
08/31/05	7:30 PM	3.06			rain start
	1:30 AM	2.88	640	8.13	0.27
	2:30 AM	2.82			0.29
	3:30 AM	2.72	660	8.2	0.32
	7:30 AM				0.65
	8:30 AM	2.70	17.20	8.1	0.67
	9:30 AM	2.63			rain stop
	11:05 AM	2.70			

Appendix E

Background (pre-test) Water Levels

TW-1 Background Data

In-Situ Inc. MiniTroll Adv
 Report generated: 9/8/05 14:27:53
 Report from file: ...\\SN08497 2005-08-26 110954 TW-1 Bkg.bin
 Win-Situ Version 4.523
 Serial number: 8497
 Firmware Version 3.09
 Unit name: miniTROLL
 Test name: TW-1 Bkg

Test defined on: 8/26/05 11:09:30
 Test started on: 8/26/05 11:09:54
 Test stopped on: 8/30/05 8:02:25

Data gathered using Linear testing
 Time between data points: Seconds.
 Number of data samples: 93

TOTAL DATA SAMPLES 93

Channel number [2]

Measurement type: Pressure
 Channel name: OnBoard Pressure
 Sensor Range: 300 PSIG.
 Density: 0.999 g/cm3
 Latitude: 45 degrees
 Elevation: 30.480 meters (100.000 feet)

Date
 Time
 ET (sec)
 Chan[2]
 Pressure
 Feet H2O

8/26/05	11:09:54	0	53.147
8/26/05	12:09:54	3600	53.129
8/26/05	13:09:54	7200	53.129
8/26/05	14:09:54	10800	53.129
8/26/05	15:09:54	14400	53.129
8/26/05	16:09:54	18000	53.108
8/26/05	17:09:54	21600	53.108
8/26/05	18:09:54	25200	53.108
8/26/05	19:09:54	28800	53.088
8/26/05	20:09:54	32400	53.088
8/26/05	21:09:54	36000	53.088
8/26/05	22:09:54	39600	53.088
8/26/05	23:09:54	43200	53.088
8/27/05	0:09:54	46800	53.108
8/27/05	1:09:54	50400	53.088
8/27/05	2:09:54	54000	53.088
8/27/05	3:09:54	57600	53.088
8/27/05	4:09:54	61200	53.108
8/27/05	5:09:54	64800	53.108
8/27/05	6:09:54	68400	53.108
8/27/05	7:09:54	72000	53.108
8/27/05	8:09:54	75600	53.108
8/27/05	9:09:54	79200	53.108

TW-1bkg

8/27/05	10:09:54	82800	53.108
8/27/05	11:09:54	86400	53.109
8/27/05	12:09:54	90000	53.088
8/27/05	13:09:54	93600	53.108
8/27/05	14:09:54	97200	53.108
8/27/05	15:09:54	100800	53.108
8/27/05	16:09:54	104400	53.088
8/27/05	17:09:54	108000	53.088
8/27/05	18:09:54	111600	53.088
8/27/05	19:09:54	115200	53.067
8/27/05	20:09:54	118800	53.067
8/27/05	21:09:54	122400	53.067
8/27/05	22:09:54	126000	53.067
8/27/05	23:09:54	129600	53.088
8/28/05	0:09:54	133200	53.088
8/28/05	1:09:54	136800	53.088
8/28/05	2:09:54	140400	53.088
8/28/05	3:09:54	144000	53.088
8/28/05	4:09:54	147600	53.109
8/28/05	5:09:54	151200	53.088
8/28/05	6:09:54	154800	53.088
8/28/05	7:09:54	158400	53.088
8/28/05	8:09:54	162000	53.088
8/28/05	9:09:54	165600	53.088
8/28/05	10:09:54	169200	53.109
8/28/05	11:09:54	172800	53.108
8/28/05	12:09:54	176400	53.108
8/28/05	13:09:54	180000	53.129
8/28/05	14:09:54	183600	53.108
8/28/05	15:09:54	187200	53.108
8/28/05	16:09:54	190800	53.108
8/28/05	17:09:54	194400	53.088
8/28/05	18:09:54	198000	53.108
8/28/05	19:09:54	201600	53.088
8/28/05	20:09:54	205200	53.088
8/28/05	21:09:54	208800	53.068
8/28/05	22:09:54	212400	53.088
8/28/05	23:09:54	216000	53.088
8/29/05	0:09:54	219600	53.088
8/29/05	1:09:54	223200	53.088
8/29/05	2:09:54	226800	53.088
8/29/05	3:09:54	230400	53.088
8/29/05	4:09:54	234000	53.088
8/29/05	5:09:54	237600	53.109
8/29/05	6:09:54	241200	53.088
8/29/05	7:09:54	244800	53.088
8/29/05	8:09:54	248400	53.088
8/29/05	9:09:54	252000	53.088
8/29/05	10:09:54	255600	53.088
8/29/05	11:09:54	259200	53.109
8/29/05	12:09:54	262800	53.088
8/29/05	13:09:54	266400	53.108
8/29/05	14:09:54	270000	53.109
8/29/05	15:09:54	273600	53.088
8/29/05	16:09:54	277200	53.088
8/29/05	17:09:54	280800	53.088
8/29/05	18:09:54	284400	53.088
8/29/05	19:09:54	288000	53.068
8/29/05	20:09:54	291600	53.068

TW-1bkg

8/29/05	21:09:54	295200	53.068
8/29/05	22:09:54	298800	53.068
8/29/05	23:09:54	302400	53.068
8/30/05	0:09:54	306000	53.088
8/30/05	1:09:54	309600	53.088
8/30/05	2:09:54	313200	53.088
8/30/05	3:09:54	316800	53.13
8/30/05	4:09:54	320400	53.15
8/30/05	5:09:54	324000	53.212
8/30/05	6:09:54	327600	53.254
8/30/05	7:09:54	331200	53.295

TW-1bkg

In-Situ Inc. MiniTroll Adv

Report generated: 9/8/05 14:42:59
 Report from file: ...\\SN13374 1999-03-13 201927 OB-1 Bkg.bin
 Win-Situ Version 4.523
 Serial number: 13374
 Firmware Version 3.09
 Unit name: miniTROLL

OB-1 Background Data

Test name: OB-1 Bkg

Test defined on: 8/26/05 11:00:54
 Test started on: 8/26/05 11:09:54
 Test stopped on: 8/30/05 7:09:54

Data gathered using Linear testing
 Time between data po Seconds.
 Number of data sampl 93

TOTAL DATA SAMPLE: 93

Channel number [2]
 Measurement type: Pressure
 Channel name: OnBoard Pressure
 Sensor Range: 30 PSIG.
 Density: 1.000 g/cm3
 Latitude: 45 degrees
 Elevation: 30.480 meters (100.000 feet)

Date	Time	ET (sec)	Pressure Feet H2O	Chan[2]
8/26/05	11:09:54	0	57.643	
8/26/05	12:09:54	3600	57.641	
8/26/05	13:09:54	7200	57.638	
8/26/05	14:09:54	10800	57.63	
8/26/05	15:09:54	14400	57.624	
8/26/05	16:09:54	18000	57.621	
8/26/05	17:09:54	21600	57.616	
8/26/05	18:09:54	25200	57.613	
8/26/05	19:09:54	28800	57.608	
8/26/05	20:09:54	32400	57.605	
8/26/05	21:09:54	36000	57.608	
8/26/05	22:09:54	39600	57.608	
8/26/05	23:09:54	43200	57.608	
8/27/05	0:09:54	46800	57.61	
8/27/05	1:09:54	50400	57.613	
8/27/05	2:09:54	54000	57.613	

8/27/05	3:09:54	57600	57.616
8/27/05	4:09:54	61200	57.621
8/27/05	5:09:54	64800	57.621
8/27/05	6:09:54	68400	57.624
8/27/05	7:09:54	72000	57.624
8/27/05	8:09:54	75600	57.624
8/27/05	9:09:54	79200	57.627
8/27/05	10:09:54	82800	57.63
8/27/05	11:09:54	86400	57.63
8/27/05	12:09:54	90000	57.624
8/27/05	13:09:54	93600	57.627
8/27/05	14:09:54	97200	57.621
8/27/05	15:09:54	100800	57.616
8/27/05	16:09:54	104400	57.614
8/27/05	17:09:54	108000	57.608
8/27/05	18:09:54	111600	57.605
8/27/05	19:09:54	115200	57.6
8/27/05	20:09:54	118800	57.6
8/27/05	21:09:54	122400	57.6
8/27/05	22:09:54	126000	57.6
8/27/05	23:09:54	129600	57.603
8/28/05	0:09:54	133200	57.605
8/28/05	1:09:54	136800	57.611
8/28/05	2:09:54	140400	57.611
8/28/05	3:09:54	144000	57.616
8/28/05	4:09:54	147600	57.622
8/28/05	5:09:54	151200	57.622
8/28/05	6:09:54	154800	57.622
8/28/05	7:09:54	158400	57.625
8/28/05	8:09:54	162000	57.627
8/28/05	9:09:54	165600	57.63
8/28/05	10:09:54	169200	57.635
8/28/05	11:09:54	172800	57.638
8/28/05	12:09:54	176400	57.644
8/28/05	13:09:54	180000	57.644
8/28/05	14:09:54	183600	57.641
8/28/05	15:09:54	187200	57.638
8/28/05	16:09:54	190800	57.633
8/28/05	17:09:54	194400	57.63
8/28/05	18:09:54	198000	57.625
8/28/05	19:09:54	201600	57.619
8/28/05	20:09:54	205200	57.614
8/28/05	21:09:54	208800	57.614
8/28/05	22:09:54	212400	57.614
8/28/05	23:09:54	216000	57.616
8/29/05	0:09:54	219600	57.622
8/29/05	1:09:54	223200	57.622
8/29/05	2:09:54	226800	57.627
8/29/05	3:09:54	230400	57.627
8/29/05	4:09:54	234000	57.633
8/29/05	5:09:54	237600	57.63
8/29/05	6:09:54	241200	57.633

OB-1bkg

8/29/05	7:09:54	244800	57.635
8/29/05	8:09:54	248400	57.635
8/29/05	9:09:54	252000	57.635
8/29/05	10:09:54	255600	57.635
8/29/05	11:09:54	259200	57.641
8/29/05	12:09:54	262800	57.644
8/29/05	13:09:54	266400	57.638
8/29/05	14:09:54	270000	57.638
8/29/05	15:09:54	273600	57.63
8/29/05	16:09:54	277200	57.625
8/29/05	17:09:54	280800	57.619
8/29/05	18:09:54	284400	57.614
8/29/05	19:09:54	288000	57.611
8/29/05	20:09:54	291600	57.608
8/29/05	21:09:54	295200	57.605
8/29/05	22:09:54	298800	57.608
8/29/05	23:09:54	302400	57.611
8/30/05	0:09:54	306000	57.616
8/30/05	1:09:54	309600	57.625
8/30/05	2:09:54	313200	57.644
8/30/05	3:09:54	316800	57.668
8/30/05	4:09:54	320400	57.707
8/30/05	5:09:54	324000	57.762
8/30/05	6:09:54	327600	57.803
8/30/05	7:09:54	331200	57.83

In-Situ Inc.

MiniTroll Adv

Report generated:

9/8/05 13:52:35

Report from file: ...\\SN08090 2005-08-26 114728 Pit Well.bin

Win-Situ Version

4.523

Serial number:

8090

Firmware Version

3.09

Unit name:

miniTROLL

Test name:

Pit Well BACKGROUND DATA

Test defined on:

8/26/05 11:47:08

Test started on:

8/26/05 11:47:28

Test stopped on:

N/A

Data gathered using Linear testing

Time between data points: 36 Seconds.

Number of data samples: 93

TOTAL DATA SAMPLES

93

Channel number [2]

Measurement type:

Pressure

Channel name:

OnBoard Pressure

Sensor Range:

300 PSIG.

Density:

1.000 g/cm3

Latitude:

45 degrees

Elevation:

30.480 meters (100.000 feet)

Date
Time
ET (sec)
Chan[2]
Pressure
Feet H2O

8/26/05	11:47:28	0	15.361
8/26/05	12:47:28	3600	15.093
8/26/05	13:47:28	7200	15.079
8/26/05	14:47:28	10800	15.059
8/26/05	15:47:28	14400	15.121
8/26/05	16:47:28	18000	15.102
8/26/05	17:47:28	21600	15.061
8/26/05	18:47:28	25200	15.082
8/26/05	19:47:28	28800	15.061
8/26/05	20:47:28	32400	15.061
8/26/05	21:47:28	36000	15.102
8/26/05	22:47:28	39600	15.102
8/26/05	23:47:28	43200	15.121
8/27/05	0:47:28	46800	15.059
8/27/05	1:47:28	50400	15.059
8/27/05	2:47:28	54000	15.061
8/27/05	3:47:28	57600	15.059
8/27/05	4:47:28	61200	15.059
8/27/05	5:47:28	64800	15.059
8/27/05	6:47:28	68400	15.059
8/27/05	7:47:28	72000	15.038
8/27/05	8:47:28	75600	15.1
8/27/05	9:47:28	79200	15.1
8/27/05	10:47:28	82800	15.1
8/27/05	11:47:28	86400	15.038
8/27/05	12:47:28	90000	15.059
8/27/05	13:47:28	93600	15.1
8/27/05	14:47:28	97200	15.038
8/27/05	15:47:28	100800	15.1

Pitwell-bkg

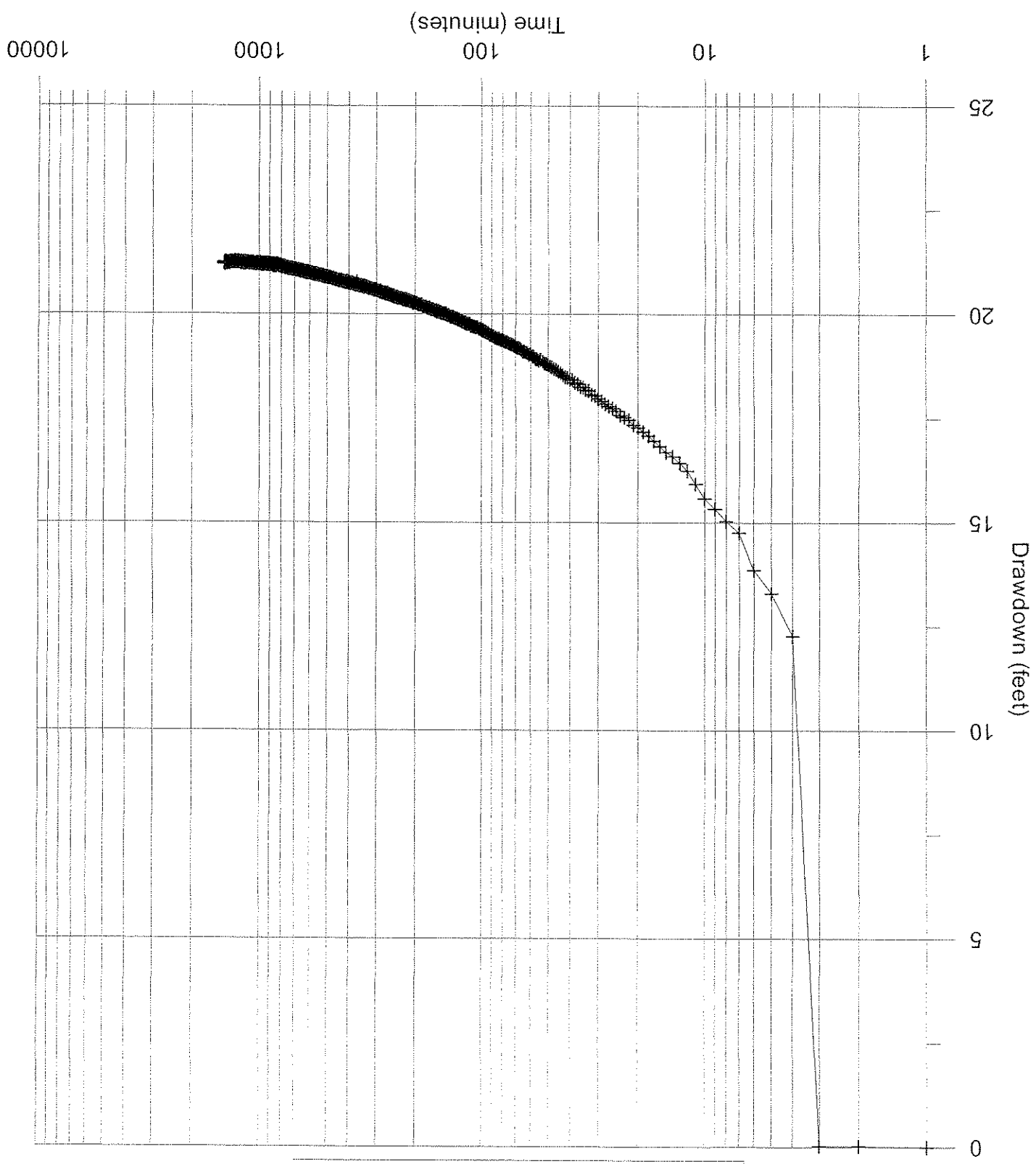
Pit Well BACKGROUND DATA

8/27/05	16:47:28	104400	15.059
8/27/05	17:47:28	108000	15.036
8/27/05	18:47:28	111600	15.036
8/27/05	19:47:28	115200	15.057
8/27/05	20:47:28	118800	15.098
8/27/05	21:47:28	122400	15.057
8/27/05	22:47:28	126000	15.057
8/27/05	23:47:28	129600	15.118
8/28/05	0:47:28	133200	15.077
8/28/05	1:47:28	136800	15.036
8/28/05	2:47:28	140400	15.098
8/28/05	3:47:28	144000	15.077
8/28/05	4:47:28	147600	15.036
8/28/05	5:47:28	151200	15.036
8/28/05	6:47:28	154800	15.098
8/28/05	7:47:28	158400	15.036
8/28/05	8:47:28	162000	15.077
8/28/05	9:47:28	165600	15.077
8/28/05	10:47:28	169200	15.057
8/28/05	11:47:28	172800	15.034
8/28/05	12:47:28	176400	15.075
8/28/05	13:47:28	180000	15.036
8/28/05	14:47:28	183600	15.095
8/28/05	15:47:28	187200	15.034
8/28/05	16:47:28	190800	15.034
8/28/05	17:47:28	194400	15.054
8/28/05	18:47:28	198000	15.054
8/28/05	19:47:28	201600	15.054
8/28/05	20:47:28	205200	15.095
8/28/05	21:47:28	208800	15.034
8/28/05	22:47:28	212400	15.095
8/28/05	23:47:28	216000	15.116
8/29/05	0:47:28	219600	15.075
8/29/05	1:47:28	223200	15.034
8/29/05	2:47:28	226800	15.052
8/29/05	3:47:28	230400	15.031
8/29/05	4:47:28	234000	15.031
8/29/05	5:47:28	237600	15.073
8/29/05	6:47:28	241200	15.093
8/29/05	7:47:28	244800	15.031
8/29/05	8:47:28	248400	15.011
8/29/05	9:47:28	252000	15.073
8/29/05	10:47:28	255600	15.093
8/29/05	11:47:28	259200	15.073
8/29/05	12:47:28	262800	15.011
8/29/05	13:47:28	266400	15.073
8/29/05	14:47:28	270000	15.011
8/29/05	15:47:28	273600	15.073
8/29/05	16:47:28	277200	15.008
8/29/05	17:47:28	280800	15.011
8/29/05	18:47:28	284400	15.05
8/29/05	19:47:28	288000	15.07
8/29/05	20:47:28	291600	15.07
8/29/05	21:47:28	295200	15.05
8/29/05	22:47:28	298800	15.029
8/29/05	23:47:28	302400	15.07
8/30/05	0:47:28	306000	15.029
8/30/05	1:47:28	309600	15.008
8/30/05	2:47:28	313200	15.008
8/30/05	3:47:28	316800	15.07
8/30/05	4:47:28	320400	15.008
8/30/05	5:47:28	324000	15.008
8/30/05	6:47:28	327600	15.05
8/30/05	7:47:28	331200	15.089

Appendix F

Pumping Test Data

TW-1 Pumping Data - August 30-31, 2005
Deansboro Water District
Drawdown versus Time for TW-1



In-Situ Inc.
Report generated: 9/8/05 14:29:07
Report from file: ..\SN08497 2005-08-30 083719 TW-1Pump.bin
Win-Situ Version 4.523
Serial number: 8497
Firmware Version 3.09
Unit name: miniTROLL
Test name: TW-1Pump
Test defined on: 8/30/05 8:03:11
Test started on: 8/30/05 8:37:19
Test stopped on: 8/31/05 8:40:01
Data gathered using Linear testing
Time between data points: Seconds.
Number of data samples: 1443
TOTAL DATA SAMPLES 1443
Channel number [2]
Measurement type: Pressure
Channel Name: OnBoard Pressure
Sensor Range: 300 PSIG.
Density: 0.999 g/cm3
Latitude: 45 degrees
Elevation: 30.480 meters (100.000 feet)
Chan[2]
Pressure
Feet/H2O

Date	Time	ET (sec)	Pressure Feet/H2O
8/30/05	8:37:19	0	53.314
8/30/05	8:38:19	60	53.334
8/30/05	8:39:19	120	53.314
8/30/05	8:40:19	180	53.314
8/30/05	8:41:19	240	41.088
8/30/05	8:42:19	300	40.039
8/30/05	8:43:19	360	39.472
8/30/05	8:44:19	420	39.575
8/30/05	8:45:19	480	39.299
8/30/05	8:46:19	540	38.004
8/30/05	8:47:19	600	37.755
8/30/05	8:48:19	660	37.404
8/30/05	8:49:19	720	37.094
8/30/05	8:50:19	780	36.906
8/30/05	8:51:19	840	36.744
8/30/05	8:52:19	900	36.642
8/30/05	8:53:19	960	36.5
8/30/05	8:54:19	1020	36.379
8/30/05	8:55:19	1080	36.258
8/30/05	8:56:19	1140	36.157
8/30/05	8:57:19	1200	36.057
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8/30/05	13.16.19	16740	32.83
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8/30/05	13.19.19	16920	32.81
8/30/05	13.20.19	16980	32.83
8/30/05	13.21.19	17040	32.809
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8/30/05	13.24.19	17220	32.788
8/30/05	13.25.19	17280	32.81
8/30/05	13.26.19	17340	32.809
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8/30/05	13.29.19	17520	32.788

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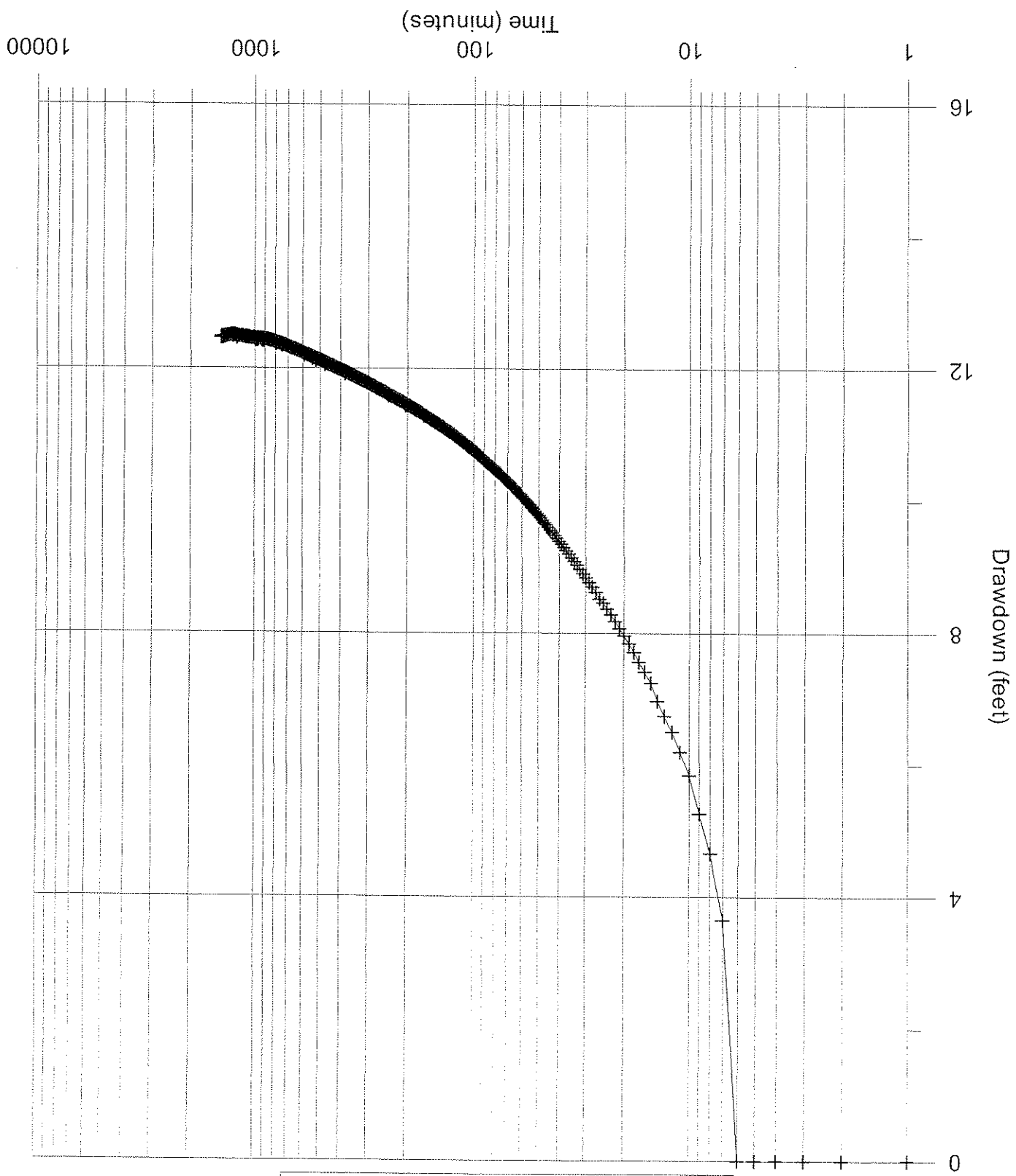
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8/31/05	8/31/05	7/12/19	81300
8/31/05	8/31/05	7/13/19	81360
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8/31/05	8/31/05	7/17/19	81600
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8/31/05	8/31/05	7/21/19	81840
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8/31/05	8/31/05	7/23/19	81960
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8/31/05	8/31/05	7/25/19	82080
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8/31/05	8/31/05	7/35/19	82680
8/31/05	8/31/05	7/36/19	82740
8/31/05	8/31/05	7/37/19	82800
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8/31/05	8/31/05	7/41/19	83040
8/31/05	8/31/05	7/42/19	83100
8/31/05	8/31/05	7/43/19	83160
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8/31/05	8/31/05	7/51/19	83640
8/31/05	8/31/05	7/52/19	83700
8/31/05	8/31/05	7/53/19	83760
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8/31/05	8/31/05	7/58/19	84060
8/31/05	8/31/05	7/59/19	84120
8/31/05	8/31/05	8/00/19	84180
8/31/05	8/31/05	8/01/19	84240
8/31/05	8/31/05	8/02/19	84300
8/31/05	8/31/05	8/03/19	84360
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8/31/05	8:28:19	85860	32.106
8/31/05	8:29:19	85920	32.147
8/31/05	8:30:19	85980	32.127
8/31/05	8:31:19	86040	32.147
8/31/05	8:32:19	86100	32.106
8/31/05	8:33:19	86160	32.106
8/31/05	8:34:19	86220	32.106
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8/31/05	8:37:19	86400	32.106
8/31/05	8:38:19	86460	32.106
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OB-1 Pumping Data - August 30-31, 2005
 Deansboro Water District
 Drawdown versus Time for OB-1
 TW-1 Pumping Rate = 407 gpm



[illegible]

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8/30/05 9:57:19 5160 47.291
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03/1/05 6:47:19 80160 45.467
03/1/05 6:48:19 80220 45.468
03/1/05 6:49:19 80280 45.469
03/1/05 6:50:19 80340 45.470
03/1/05 6:51:19 80400 45.471
03/1/05 6:52:19 80460 45.472
03/1/05 6:53:19 80520 45.473
03/1/05 6:54:19 80580 45.474
03/1/05 6:55:19 80640 45.475
03/1/05 6:56:19 80700 45.476

8/31/05 6:57:19 80760 45.383
8/31/05 6:58:19 80820 45.386
8/31/05 7:00:19 81000 45.386
8/31/05 7:01:19 81180 45.389
8/31/05 7:02:19 81060 45.389
8/31/05 7:03:19 81120 45.389
8/31/05 7:04:19 81180 45.374
8/31/05 7:05:19 81240 45.369
8/31/05 7:06:19 81300 45.369
8/31/05 7:07:19 81420 45.372
8/31/05 7:08:19 81480 45.372
8/31/05 7:09:19 81480 45.369
8/31/05 7:10:19 81540 45.372
8/31/05 7:11:19 81600 45.372
8/31/05 7:12:19 81660 45.372
8/31/05 7:13:19 81720 45.369
8/31/05 7:14:19 81780 45.374
8/31/05 7:15:19 81840 45.374
8/31/05 7:16:19 81900 45.377
8/31/05 7:17:19 81960 45.377
8/31/05 7:18:19 82020 45.374
8/31/05 7:19:19 82080 45.374
8/31/05 7:20:19 82140 45.377
8/31/05 7:21:19 82200 45.38
8/31/05 7:22:19 82260 45.38
8/31/05 7:23:19 82320 45.377
8/31/05 7:24:19 82380 45.377
8/31/05 7:25:19 82440 45.38
8/31/05 7:26:19 82500 45.377
8/31/05 7:27:19 82560 45.38
8/31/05 7:28:19 82620 45.38
8/31/05 7:29:19 82680 45.389
8/31/05 7:30:19 82740 45.377
8/31/05 7:31:19 82800 45.38
8/31/05 7:32:19 82860 45.383
8/31/05 7:33:19 82920 45.38
8/31/05 7:34:19 82980 45.38
8/31/05 7:35:19 83040 45.383
8/31/05 7:36:19 83100 45.377
8/31/05 7:37:19 83160 45.383
8/31/05 7:38:19 83220 45.38
8/31/05 7:39:19 83280 45.38
8/31/05 7:40:19 83340 45.383
8/31/05 7:41:19 83400 45.383
8/31/05 7:42:19 83460 45.38
8/31/05 7:43:19 83520 45.383
8/31/05 7:44:19 83580 45.38
8/31/05 7:45:19 83640 45.383
8/31/05 7:46:19 83700 45.383
8/31/05 7:47:19 83760 45.383
8/31/05 7:48:19 83820 45.385
8/31/05 7:49:19 83880 45.385
8/31/05 7:50:19 83940 45.385
8/31/05 7:51:19 84000 45.385
8/31/05 7:52:19 84060 45.388
8/31/05 7:53:19 84120 45.385
8/31/05 7:54:19 84180 45.388
8/31/05 7:55:19 84240 45.388
8/31/05 7:56:19 84300 45.385
8/31/05 7:57:19 84360 45.385
8/31/05 7:58:19 84420 45.388
8/31/05 7:59:19 84480 45.385
8/31/05 8:00:19 84540 45.385
8/31/05 8:01:19 84600 45.385
8/31/05 8:02:19 84660 45.385
8/31/05 8:03:19 84720 45.391
8/31/05 8:04:19 84780 45.388
8/31/05 8:05:19 84840 45.388
8/31/05 8:06:19 84900 45.391
8/31/05 8:07:19 84960 45.393
8/31/05 8:08:19 85020 45.383
8/31/05 8:09:19 85080 45.383
8/31/05 8:10:19 85140 45.385
8/31/05 8:11:19 85200 45.388
8/31/05 8:12:19 85260 45.385
8/31/05 8:13:19 85320 45.388
8/31/05 8:14:19 85380 45.385
8/31/05 8:15:19 85440 45.388
8/31/05 8:16:19 85500 45.388
8/31/05 8:17:19 85560 45.385
8/31/05 8:18:19 85620 45.388
8/31/05 8:19:19 85680 45.383
8/31/05 8:20:19 85740 45.383
8/31/05 8:21:19 85800 45.393
8/31/05 8:22:19 85860 45.393
8/31/05 8:23:19 85920 45.377
8/31/05 8:24:19 85980 45.385
8/31/05 8:25:19 86040 45.388
8/31/05 8:26:19 86100 45.388
8/31/05 8:27:19 86160 45.388
8/31/05 8:28:19 86220 45.388
8/31/05 8:29:19 86280 45.388
8/31/05 8:30:19 86340 45.391

In-Situ Inc.

MiniTroll Adv

Report generated:

9/8/05 13:50:46

Report from file:

...\\SN08090 2005-08-30 081934 Pit WellPump.bln

Win-Situ Version

4.523

Serial number:

8090

Firmware Version

3.09

Unit name:

miniTROLL

Test name:

Pit WellPump

Pump Test +
Recovery Data

Test defined on:

8/30/05 8:19:18

Test started on:

8/30/05 8:19:34

Test stopped on:

8/31/05 11:33:48

Data gathered using Linear testing

Time between data points:

6 Seconds

Number of data samples:

164

TOTAL DATA SAMPLES

164

Channel number [2]

Measurement type:

Pressure

Channel name:

Onboard Pressure

Sensor Range:

300 PSIG.

Density:

1.000 g/cm3

Latitude:

45 degrees

Elevation:

30.480 meters (100.000 feet)

Date

Time

ET (sec)

Chan[2]
Pressure
Fet H2O

8/30/05	8:19:34	0	14.967
8/30/05	8:29:34	600	15.07
8/30/05	8:39:34	1200	15.091
8/30/05	8:49:34	1800	15.006
8/30/05	8:59:34	2400	15.006
8/30/05	9:09:34	3000	15.008
8/30/05	9:19:34	3600	15.006
8/30/05	9:29:34	4200	15.109
8/30/05	9:39:34	4800	15.008
8/30/05	9:49:34	5400	15.029
8/30/05	9:59:34	6000	15.027
8/30/05	10:09:34	6600	15.068
8/30/05	10:19:34	7200	15.029
8/30/05	10:29:34	7800	15.027
8/30/05	10:39:34	8400	15.029
8/30/05	10:49:34	9000	15.027
8/30/05	10:59:34	9600	15.027
8/30/05	11:09:34	10200	15.047
8/30/05	11:19:34	10800	15.029
8/30/05	11:29:34	11400	15.068
8/30/05	11:39:34	12000	15.008
8/30/05	11:49:34	12600	15.047
8/30/05	11:59:34	13200	15.029
8/30/05	12:09:34	13800	15.027
8/30/05	12:19:34	14400	15.07
8/30/05	12:29:34	15000	15.029
8/30/05	12:39:34	15600	15.029
8/30/05	12:49:34	16200	15.091
8/30/05	12:59:34	16800	15.029
8/30/05	13:09:34	17400	15.027
8/30/05	13:19:34	18000	15.089
8/30/05	13:29:34	18600	15.029

PitWellPump

8/30/05	13:39:34	19200	15.008
8/30/05	13:49:34	19800	15.091
8/30/05	13:59:34	20400	15.068
8/30/05	14:09:34	21000	15.029
8/30/05	14:19:34	21600	15.029
8/30/05	14:29:34	22200	15.047
8/30/05	14:39:34	22800	15.091
8/30/05	14:49:34	23400	15.029
8/30/05	14:59:34	24000	15.027
8/30/05	15:09:34	24600	15.027
8/30/05	15:19:34	25200	15.029
8/30/05	15:29:34	25800	15.07
8/30/05	15:39:34	26400	15.047
8/30/05	15:49:34	27000	15.027
8/30/05	15:59:34	27600	15.068
8/30/05	16:09:34	28200	15.027
8/30/05	16:19:34	28800	15.027
8/30/05	16:29:34	29400	15.027
8/30/05	16:39:34	30000	15.006
8/30/05	16:49:34	30600	15.089
8/30/05	16:59:34	31200	15.089
8/30/05	17:09:34	31800	15.027
8/30/05	17:19:34	32400	15.027
8/30/05	17:29:34	33000	15.07
8/30/05	17:39:34	33600	15.047
8/30/05	17:49:34	34200	15.027
8/30/05	17:59:34	34800	15.05
8/30/05	18:09:34	35400	15.089
8/30/05	18:19:34	36000	15.05
8/30/05	18:29:34	36600	15.091
8/30/05	18:39:34	37200	15.109
8/30/05	18:49:34	37800	15.068
8/30/05	18:59:34	38400	15.027
8/30/05	19:09:34	39000	15.089
8/30/05	19:19:34	39600	15.047
8/30/05	19:29:34	40200	15.047
8/30/05	19:39:34	40800	15.047
8/30/05	19:49:34	41400	15.05
8/30/05	19:59:34	42000	15.089
8/30/05	20:09:34	42600	15.047
8/30/05	20:19:34	43200	15.109
8/30/05	20:29:34	43800	15.109
8/30/05	20:39:34	44400	15.089
8/30/05	20:49:34	45000	15.068
8/30/05	20:59:34	45600	15.027
8/30/05	21:09:34	46200	15.027
8/30/05	21:19:34	46800	15.089
8/30/05	21:29:34	47400	15.027
8/30/05	21:39:34	48000	15.047
8/30/05	21:49:34	48600	15.047
8/30/05	21:59:34	49200	15.089
8/30/05	22:09:34	49800	15.068
8/30/05	22:19:34	50400	15.027
8/30/05	22:29:34	51000	15.027
8/30/05	22:39:34	51600	15.089
8/30/05	22:49:34	52200	15.068
8/30/05	22:59:34	52800	15.047
8/30/05	23:09:34	53400	15.089
8/30/05	23:19:34	54000	15.047
8/30/05	23:29:34	54600	15.109
8/30/05	23:39:34	55200	15.089
8/30/05	23:49:34	55800	15.047
8/30/05	23:59:34	56400	15.027
8/31/05	0:09:34	57000	15.047
8/31/05	0:19:34	57600	15.027
8/31/05	0:29:34	58200	15.089
8/31/05	0:39:34	58800	15.068
8/31/05	0:49:34	59400	15.089

Pitwellpump

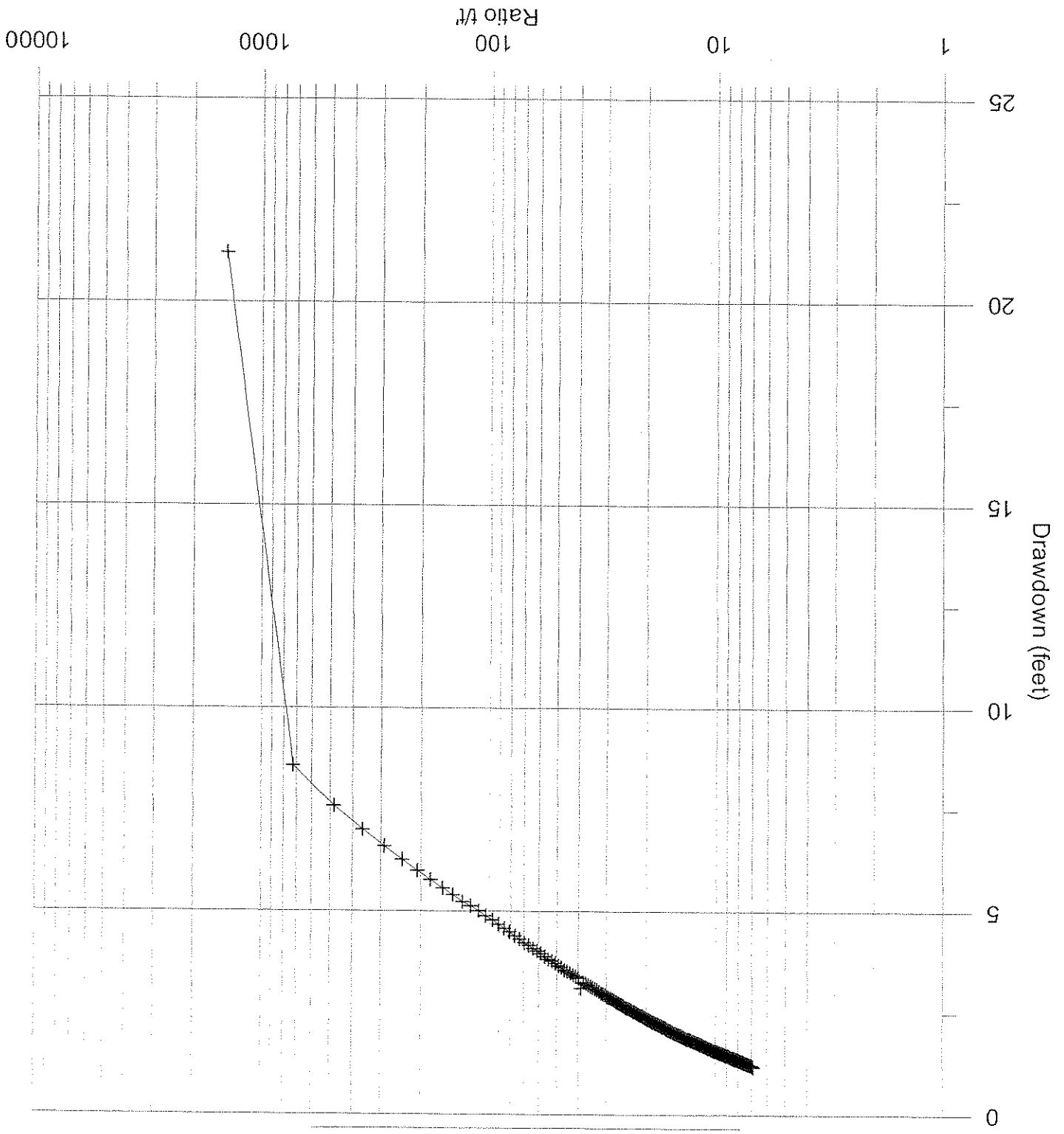
8/31/05	0:59:34	60000	15.089
8/31/05	1:09:34	60600	15.047
8/31/05	1:19:34	61200	15.047
8/31/05	1:29:34	61800	15.089
8/31/05	1:39:34	62400	15.068
8/31/05	1:49:34	63000	15.089
8/31/05	1:59:34	63600	15.027
8/31/05	2:09:34	64200	15.027
8/31/05	2:19:34	64800	15.047
8/31/05	2:29:34	65400	15.068
8/31/05	2:39:34	66000	15.047
8/31/05	2:49:34	66600	15.027
8/31/05	2:59:34	67200	15.047
8/31/05	3:09:34	67800	15.047
8/31/05	3:19:34	68400	15.047
8/31/05	3:29:34	69000	15.027
8/31/05	3:39:34	69600	15.109
8/31/05	3:49:34	70200	15.068
8/31/05	3:59:34	70800	15.047
8/31/05	4:09:34	71400	15.068
8/31/05	4:19:34	72000	15.024
8/31/05	4:29:34	72600	15.089
8/31/05	4:39:34	73200	15.047
8/31/05	4:49:34	73800	15.027
8/31/05	4:59:34	74400	15.066
8/31/05	5:09:34	75000	15.089
8/31/05	5:19:34	75600	15.089
8/31/05	5:29:34	76200	15.027
8/31/05	5:39:34	76800	15.068
8/31/05	5:49:34	77400	15.089
8/31/05	5:59:34	78000	15.027
8/31/05	6:09:34	78600	15.027
8/31/05	6:19:34	79200	15.047
8/31/05	6:29:34	79800	15.109
8/31/05	6:39:34	80400	15.109
8/31/05	6:49:34	81000	15.047
8/31/05	6:59:34	81600	15.027
8/31/05	7:09:34	82200	15.047
8/31/05	7:19:34	82800	15.068
8/31/05	7:29:34	83400	15.047
8/31/05	7:39:34	84000	15.068
8/31/05	7:49:34	84600	15.109
8/31/05	7:59:34	85200	15.047
8/31/05	8:09:34	85800	15.045
8/31/05	8:19:34	86400	15.045
8/31/05	8:29:34	87000	15.024
8/31/05	8:39:34	87600	15.027
8/31/05	8:49:34	88200	15.047
8/31/05	8:59:34	88800	15.045
8/31/05	9:09:34	89400	15.024
8/31/05	9:19:34	90000	15.045
8/31/05	9:29:34	90600	15.045
8/31/05	9:39:34	91200	15.089
8/31/05	9:49:34	91800	15.089
8/31/05	9:59:34	92400	15.027
8/31/05	10:09:34	93000	15.004
8/31/05	10:19:34	93600	15.045
8/31/05	10:29:34	94200	15.024
8/31/05	10:39:34	94800	15.027
8/31/05	10:49:34	95400	15.024
8/31/05	10:59:34	96000	15.089
8/31/05	11:09:34	96600	15.047
8/31/05	11:19:34	97200	15.109
8/31/05	11:29:34	97800	15.045

RECOVERY DATA ↑

Appendix C

Recovery Data

TW-1 Recovery Data - August 31, 2005
Deansboro Water District
Drawdown versus Time for TW-1



In-Situ Inc. MiniTroll Adv

Report generated: 9/8/05 14:41:05

Report from file: ...\\SN08497 2005-08-31 084203 TW-1 REC.bin

Win-Situ Version 4.523

Serial number: 8497

Firmware Version 3.09

Unit name: miniTROLL

Test name: TW-1 REC

Test defined on: 8/31/05 8:41:46

Test started on: 8/31/05 8:42:03

Test stopped on: 8/31/05 12:47:20

Data gathered using Linear testing

Time between data points: Seconds

Number of data samples 246

TOTAL DATA SAMPLES 246

Channel number [2]

Measurement type: Pressure

Channel name: OnBoard Pressure

Sensor Range: 300 PSIG.

Density: 0.999 g/cm3

Latitude: 45 degrees

Elevation: 30.480 meters (100.000 feet)

Date
Time
ET (sec)
Pressure
Feet H2O
Chan[2]

8/31/05	8:42:03	0	32.105
8/31/05	8:43:03	60	32.127
8/31/05	8:44:03	120	44.758
8/31/05	8:45:03	180	45.749
8/31/05	8:46:03	240	46.327
8/31/05	8:47:03	300	46.74
8/31/05	8:48:03	360	47.07
8/31/05	8:49:03	420	47.338
8/31/05	8:50:03	480	47.564
8/31/05	8:51:03	540	47.77
8/31/05	8:52:03	600	47.935
8/31/05	8:53:03	660	48.1
8/31/05	8:54:03	720	48.203
8/31/05	8:55:03	780	48.326
8/31/05	8:56:03	840	48.449
8/31/05	8:57:03	900	48.552
8/31/05	8:58:03	960	48.654
8/31/05	8:59:03	1020	48.756
8/31/05	9:00:03	1080	48.838
8/31/05	9:01:03	1140	48.94

TW-1Rec

8/31/05	9:02:03	1200	49.022
8/31/05	9:03:03	1260	49.104
8/31/05	9:04:03	1320	49.165
8/31/05	9:05:03	1380	49.248
8/31/05	9:06:03	1440	49.309
8/31/05	9:07:03	1500	49.369
8/31/05	9:08:03	1560	49.452
8/31/05	9:09:03	1620	49.512
8/31/05	9:10:03	1680	49.552
8/31/05	9:11:03	1740	49.613
8/31/05	9:12:03	1800	49.674
8/31/05	9:13:03	1860	49.714
8/31/05	9:14:03	1920	49.775
8/31/05	9:15:03	1980	49.815
8/31/05	9:16:03	2040	49.856
8/31/05	9:17:03	2100	49.896
8/31/05	9:18:03	2160	49.938
8/31/05	9:19:03	2220	49.978
8/31/05	9:20:03	2280	50.226
8/31/05	9:21:03	2340	50.08
8/31/05	9:22:03	2400	50.101
8/31/05	9:23:03	2460	50.142
8/31/05	9:24:03	2520	50.182
8/31/05	9:25:03	2580	50.203
8/31/05	9:26:03	2640	50.244
8/31/05	9:27:03	2700	50.265
8/31/05	9:28:03	2760	50.306
8/31/05	9:29:03	2820	50.347
8/31/05	9:30:03	2880	50.368
8/31/05	9:31:03	2940	50.389
8/31/05	9:32:03	3000	50.43
8/31/05	9:33:03	3060	50.451
8/31/05	9:34:03	3120	50.471
8/31/05	9:35:03	3180	50.492
8/31/05	9:36:03	3240	50.513
8/31/05	9:37:03	3300	50.554
8/31/05	9:38:03	3360	50.574
8/31/05	9:39:03	3420	50.595
8/31/05	9:40:03	3480	50.616
8/31/05	9:41:03	3540	50.635
8/31/05	9:42:03	3600	50.656
8/31/05	9:43:03	3660	50.697
8/31/05	9:44:03	3720	50.718
8/31/05	9:45:03	3780	50.718
8/31/05	9:46:03	3840	50.739
8/31/05	9:47:03	3900	50.759
8/31/05	9:48:03	3960	50.8
8/31/05	9:49:03	4020	50.8
8/31/05	9:50:03	4080	50.821
8/31/05	9:51:03	4140	50.843
8/31/05	9:52:03	4200	50.863
8/31/05	9:53:03	4260	50.884
8/31/05	9:54:03	4320	50.884
8/31/05	9:55:03	4380	50.906
8/31/05	9:56:03	4440	50.926
8/31/05	9:57:03	4500	50.947
8/31/05	9:58:03	4560	50.967
8/31/05	9:59:03	4620	50.988
8/31/05	10:00:03	4680	50.988
8/31/05	10:01:03	4740	51.009

8/31/05	10:02:03	4800	51.029
8/31/05	10:03:03	4860	51.05
8/31/05	10:04:03	4920	51.05
8/31/05	10:05:03	4980	51.071
8/31/05	10:06:03	5040	51.091
8/31/05	10:07:03	5100	51.091
8/31/05	10:08:03	5160	51.112
8/31/05	10:09:03	5220	51.132
8/31/05	10:10:03	5280	51.133
8/31/05	10:11:03	5340	51.154
8/31/05	10:12:03	5400	51.175
8/31/05	10:13:03	5460	51.175
8/31/05	10:14:03	5520	51.175
8/31/05	10:15:03	5580	51.195
8/31/05	10:16:03	5640	51.216
8/31/05	10:17:03	5700	51.237
8/31/05	10:18:03	5760	51.238
8/31/05	10:19:03	5820	51.257
8/31/05	10:20:03	5880	51.258
8/31/05	10:21:03	5940	51.279
8/31/05	10:22:03	6000	51.279
8/31/05	10:23:03	6060	51.299
8/31/05	10:24:03	6120	51.32
8/31/05	10:25:03	6180	51.32
8/31/05	10:26:03	6240	51.32
8/31/05	10:27:03	6300	51.341
8/31/05	10:28:03	6360	51.342
8/31/05	10:29:03	6420	51.361
8/31/05	10:30:03	6480	51.362
8/31/05	10:31:03	6540	51.383
8/31/05	10:32:03	6600	51.383
8/31/05	10:33:03	6660	51.404
8/31/05	10:34:03	6720	51.404
8/31/05	10:35:03	6780	51.424
8/31/05	10:36:03	6840	51.424
8/31/05	10:37:03	6900	51.445
8/31/05	10:38:03	6960	51.445
8/31/05	10:39:03	7020	51.466
8/31/05	10:40:03	7080	51.466
8/31/05	10:41:03	7140	51.466
8/31/05	10:42:03	7200	51.466
8/31/05	10:43:03	7260	51.487
8/31/05	10:44:03	7320	51.487
8/31/05	10:45:03	7380	51.508
8/31/05	10:46:03	7440	51.508
8/31/05	10:47:03	7500	51.508
8/31/05	10:48:03	7560	51.528
8/31/05	10:49:03	7620	51.528
8/31/05	10:50:03	7680	51.549
8/31/05	10:51:03	7740	51.549
8/31/05	10:52:03	7800	51.549
8/31/05	10:53:03	7860	51.57
8/31/05	10:54:03	7920	51.57
8/31/05	10:55:03	7980	51.57
8/31/05	10:56:03	8040	51.59
8/31/05	10:57:03	8100	51.611
8/31/05	10:58:03	8160	51.59
8/31/05	10:59:03	8220	51.611
8/31/05	11:00:03	8280	51.611
8/31/05	11:01:03	8340	51.632

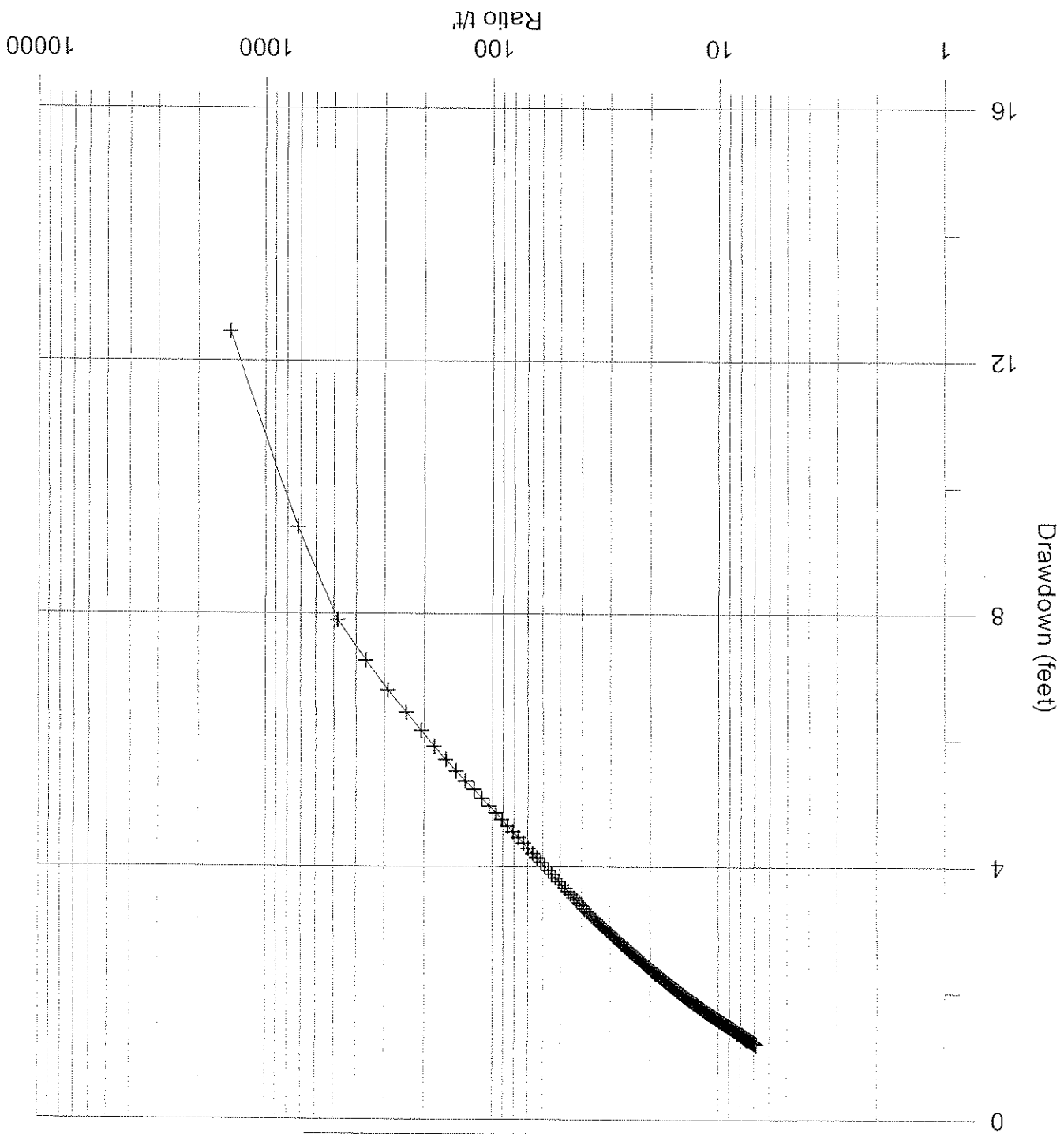
TW-1Rec

8/31/05	11:02:03	8400	51.632
8/31/05	11:03:03	8460	51.632
8/31/05	11:04:03	8520	51.653
8/31/05	11:05:03	8580	51.653
8/31/05	11:06:03	8640	51.653
8/31/05	11:07:03	8700	51.674
8/31/05	11:08:03	8760	51.674
8/31/05	11:09:03	8820	51.674
8/31/05	11:10:03	8880	51.694
8/31/05	11:11:03	8940	51.694
8/31/05	11:12:03	9000	51.694
8/31/05	11:13:03	9060	51.694
8/31/05	11:14:03	9120	51.715
8/31/05	11:15:03	9180	51.715
8/31/05	11:16:03	9240	51.736
8/31/05	11:17:03	9300	51.736
8/31/05	11:18:03	9360	51.756
8/31/05	11:19:03	9420	51.756
8/31/05	11:20:03	9480	51.757
8/31/05	11:21:03	9540	51.756
8/31/05	11:22:03	9600	51.757
8/31/05	11:23:03	9660	51.778
8/31/05	11:24:03	9720	51.778
8/31/05	11:25:03	9780	51.778
8/31/05	11:26:03	9840	51.778
8/31/05	11:27:03	9900	51.799
8/31/05	11:28:03	9960	51.799
8/31/05	11:29:03	10020	51.799
8/31/05	11:30:03	10080	51.819
8/31/05	11:31:03	10140	51.819
8/31/05	11:32:03	10200	51.819
8/31/05	11:33:03	10260	51.819
8/31/05	11:34:03	10320	51.819
8/31/05	11:35:03	10380	51.84
8/31/05	11:36:03	10440	51.841
8/31/05	11:37:03	10500	51.841
8/31/05	11:38:03	10560	51.841
8/31/05	11:39:03	10620	51.861
8/31/05	11:40:03	10680	51.861
8/31/05	11:41:03	10740	51.861
8/31/05	11:42:03	10800	51.882
8/31/05	11:43:03	10860	51.882
8/31/05	11:44:03	10920	51.882
8/31/05	11:45:03	10980	51.882
8/31/05	11:46:03	11040	51.882
8/31/05	11:47:03	11100	51.882
8/31/05	11:48:03	11160	51.903
8/31/05	11:49:03	11220	51.903
8/31/05	11:50:03	11280	51.903
8/31/05	11:51:03	11340	51.923
8/31/05	11:52:03	11400	51.923
8/31/05	11:53:03	11460	51.923
8/31/05	11:54:03	11520	51.923
8/31/05	11:55:03	11580	51.923
8/31/05	11:56:03	11640	51.944
8/31/05	11:57:03	11700	51.944
8/31/05	11:58:03	11760	51.944
8/31/05	11:59:03	11820	51.965
8/31/05	12:00:03	11880	51.944
8/31/05	12:01:03	11940	51.965

TW-1Rec

8/31/05	12:02:03	12000	51.965
8/31/05	12:03:03	12060	51.965
8/31/05	12:04:03	12120	51.965
8/31/05	12:05:03	12180	51.966
8/31/05	12:06:03	12240	51.986
8/31/05	12:07:03	12300	51.986
8/31/05	12:08:03	12360	51.986
8/31/05	12:09:03	12420	51.986
8/31/05	12:10:03	12480	52.007
8/31/05	12:11:03	12540	52.007
8/31/05	12:12:03	12600	52.007
8/31/05	12:13:03	12660	52.027
8/31/05	12:14:03	12720	52.027
8/31/05	12:15:03	12780	52.027
8/31/05	12:16:03	12840	52.027
8/31/05	12:17:03	12900	52.027
8/31/05	12:18:03	12960	52.027
8/31/05	12:19:03	13020	52.048
8/31/05	12:20:03	13080	52.027
8/31/05	12:21:03	13140	52.027
8/31/05	12:22:03	13200	52.048
8/31/05	12:23:03	13260	52.048
8/31/05	12:24:03	13320	52.048
8/31/05	12:25:03	13380	52.069
8/31/05	12:26:03	13440	52.069
8/31/05	12:27:03	13500	52.069
8/31/05	12:28:03	13560	52.069
8/31/05	12:29:03	13620	52.069
8/31/05	12:30:03	13680	52.069
8/31/05	12:31:03	13740	52.089
8/31/05	12:32:03	13800	52.089
8/31/05	12:33:03	13860	52.089
8/31/05	12:34:03	13920	52.089
8/31/05	12:35:03	13980	52.089
8/31/05	12:36:03	14040	52.11
8/31/05	12:37:03	14100	52.11
8/31/05	12:38:03	14160	52.11
8/31/05	12:39:03	14220	52.11
8/31/05	12:40:03	14280	52.111
8/31/05	12:41:03	14340	52.111
8/31/05	12:42:03	14400	52.132
8/31/05	12:43:03	14460	52.132
8/31/05	12:44:03	14520	52.132
8/31/05	12:45:03	14580	52.132
8/31/05	12:46:03	14640	52.152
8/31/05	12:47:03	14700	52.152

OB-1 Recovery Data - August 31, 2005
 Deansboro Water District
 Drawdown versus Time for OB-1



In-Situ Inc.
MiniTroll Adv
Report generated:
Report from file: ...\\SN13374 1999-03-18 173402 OB-1 Rec bin
Win-Situ Version 4.523
Serial number: 13374
Unit name: miniTROLL
Test name: OB-1 Rec
Test defined on: 8/31/05 8:41:46
Test started on: 8/31/05 8:42:03
Test stopped on: 8/31/05 12:47:20
Data gathered using Linear testing
Time between data points: 60. Seconds
Number of data samples: 248
TOTAL DATA SAMPLES 248
Channel number [2]
Measurement type: Pressure
Channel name: Onboard Pressure
Sensor Range: 30 PSIG.
Density: 1.000 g/cm3
Latitude: 45 degrees
Elevation: 30480 meters (100,000 feet)

Date
Time
ET (sec)
Pressure
Feet H2O

8/31/05	8:40:03	0	45.393
8/31/05	8:41:03	60	45.393
8/31/05	8:42:03	120	45.393
8/31/05	8:43:03	180	45.393
8/31/05	8:44:03	240	45.393
8/31/05	8:45:03	300	45.399
8/31/05	8:46:03	360	45.399
8/31/05	8:47:03	420	48.484
8/31/05	8:48:03	480	49.958
8/31/05	8:49:03	540	50.597
8/31/05	8:50:03	600	51.063
8/31/05	8:51:03	660	51.413
8/31/05	8:52:03	720	51.704
8/31/05	8:53:03	780	51.195
8/31/05	8:54:03	840	52.164
8/31/05	8:55:03	900	52.342
8/31/05	8:56:03	960	52.503
8/31/05	8:57:03	1020	52.53
8/31/05	8:58:03	1080	52.772
8/31/05	8:59:03	1140	52.893
8/31/05	9:00:03	1200	53.008
8/31/05	9:01:03	1260	53.112
8/31/05	9:02:03	1320	53.219
8/31/05	9:03:03	1380	53.309
8/31/05	9:04:03	1440	53.4
8/31/05	9:05:03	1500	53.485
8/31/05	9:06:03	1560	53.567
8/31/05	9:07:03	1620	53.641
8/31/05	9:08:03	1680	53.715
8/31/05	9:09:03	1740	53.783
8/31/05	9:10:03	1800	53.849
8/31/05	9:11:03	1860	53.915
8/31/05	9:12:03	1920	53.975
8/31/05	9:13:03	1980	54.033
8/31/05	9:14:03	2040	54.09
8/31/05	9:15:03	2100	54.142
8/31/05	9:16:03	2160	54.194
8/31/05	9:17:03	2220	54.244
8/31/05	9:18:03	2280	54.293
8/31/05	9:19:03	2340	54.34
8/31/05	9:20:03	2400	54.383
8/31/05	9:21:03	2460	54.427
8/31/05	9:22:03	2520	54.466
8/31/05	9:23:03	2580	54.52
8/31/05	9:24:03	2640	54.57
8/31/05	9:25:03	2700	54.597
8/31/05	9:26:03	2760	54.63
8/31/05	9:27:03	2820	54.666
8/31/05	9:28:03	2880	54.698
8/31/05	9:29:03	2940	54.731
8/31/05	9:30:03	3000	54.764
8/31/05	9:31:03	3060	54.794
8/31/05	9:32:03	3120	54.824
8/31/05	9:33:03	3180	54.857
8/31/05	9:34:03	3240	54.886
8/31/05	9:35:03	3300	54.912
8/31/05	9:36:03	3360	54.942
8/31/05	9:37:03	3420	54.97
8/31/05	9:38:03	3480	54.994
8/31/05	9:39:03	3540	55.019
8/31/05	9:40:03	3600	55.046

B/31/05	9:41:03	3660	55.071
B/31/05	9:42:03	3720	55.096
B/31/05	9:43:03	3780	55.118
B/31/05	9:44:03	3840	55.14
B/31/05	9:45:03	3900	55.161
B/31/05	9:46:03	3960	55.183
B/31/05	9:47:03	4020	55.205
B/31/05	9:48:03	4080	55.23
B/31/05	9:49:03	4140	55.249
B/31/05	9:50:03	4200	55.268
B/31/05	9:51:03	4260	55.29
B/31/05	9:52:03	4320	55.306
B/31/05	9:53:03	4380	55.326
B/31/05	9:54:03	4440	55.345
B/31/05	9:55:03	4500	55.362
B/31/05	9:56:03	4560	55.381
B/31/05	9:57:03	4620	55.403
B/31/05	9:58:03	4680	55.416
B/31/05	9:59:03	4740	55.432
B/31/05	10:00:03	4800	55.449
B/31/05	10:01:03	4860	55.466
B/31/05	10:02:03	4920	55.484
B/31/05	10:03:03	4980	55.501
B/31/05	10:04:03	5040	55.515
B/31/05	10:05:03	5100	55.531
B/31/05	10:06:03	5160	55.542
B/31/05	10:07:03	5220	55.558
B/31/05	10:08:03	5280	55.575
B/31/05	10:09:03	5340	55.589
B/31/05	10:10:03	5400	55.6
B/31/05	10:11:03	5460	55.616
B/31/05	10:12:03	5520	55.633
B/31/05	10:13:03	5580	55.641
B/31/05	10:14:03	5640	55.657
B/31/05	10:15:03	5700	55.668
B/31/05	10:16:03	5760	55.682
B/31/05	10:17:03	5820	55.695
B/31/05	10:18:03	5880	55.706
B/31/05	10:19:03	5940	55.72
B/31/05	10:20:03	6000	55.731
B/31/05	10:21:03	6060	55.745
B/31/05	10:22:03	6120	55.756
B/31/05	10:23:03	6180	55.767
B/31/05	10:24:03	6240	55.778
B/31/05	10:25:03	6300	55.789
B/31/05	10:26:03	6360	55.802
B/31/05	10:27:03	6420	55.813
B/31/05	10:28:03	6480	55.819
B/31/05	10:29:03	6540	55.835
B/31/05	10:30:03	6600	55.843
B/31/05	10:31:03	6660	55.854
B/31/05	10:32:03	6720	55.865
B/31/05	10:33:03	6780	55.876
B/31/05	10:34:03	6840	55.884
B/31/05	10:35:03	6900	55.895
B/31/05	10:36:03	6960	55.906
B/31/05	10:37:03	7020	55.915
B/31/05	10:38:03	7080	55.923
B/31/05	10:39:03	7140	55.931
B/31/05	10:40:03	7200	55.942
B/31/05	10:41:03	7260	55.95
B/31/05	10:42:03	7320	55.961
B/31/05	10:43:03	7380	55.969
B/31/05	10:44:03	7440	55.98
B/31/05	10:45:03	7500	55.989
B/31/05	10:46:03	7560	55.997
B/31/05	10:47:03	7620	56.005
B/31/05	10:48:03	7680	56.013
B/31/05	10:49:03	7740	56.021
B/31/05	10:50:03	7800	56.03
B/31/05	10:51:03	7860	56.038
B/31/05	10:52:03	7920	56.046
B/31/05	10:53:03	7980	56.054
B/31/05	10:54:03	8040	56.063
B/31/05	10:55:03	8100	56.071
B/31/05	10:56:03	8160	56.079
B/31/05	10:57:03	8220	56.087
B/31/05	10:58:03	8280	56.095
B/31/05	10:59:03	8340	56.101
B/31/05	11:00:03	8400	56.109
B/31/05	11:01:03	8460	56.117
B/31/05	11:02:03	8520	56.123
B/31/05	11:03:03	8580	56.131
B/31/05	11:04:03	8640	56.139
B/31/05	11:05:03	8700	56.147
B/31/05	11:06:03	8760	56.153
B/31/05	11:07:03	8820	56.161
B/31/05	11:08:03	8880	56.167
B/31/05	11:09:03	8940	56.175
B/31/05	11:10:03	9000	56.18
B/31/05	11:11:03	9060	56.186
B/31/05	11:12:03	9120	56.194
B/31/05	11:13:03	9180	56.2
B/31/05	11:14:03	9240	56.205
B/31/05	11:15:03	9300	56.213
B/31/05	11:16:03	9360	56.219
B/31/05	11:17:03	9420	56.224

B/31/05	11:18:03	9480
B/31/05	11:19:03	9540
B/31/05	11:20:03	9600
B/31/05	11:21:03	9660
B/31/05	11:22:03	9720
B/31/05	11:23:03	9780
B/31/05	11:24:03	9840
B/31/05	11:25:03	9900
B/31/05	11:26:03	9960
B/31/05	11:27:03	10020
B/31/05	11:28:03	10080
B/31/05	11:29:03	10140
B/31/05	11:30:03	10200
B/31/05	11:31:03	10260
B/31/05	11:32:03	10320
B/31/05	11:33:03	10380
B/31/05	11:34:03	10440
B/31/05	11:35:03	10500
B/31/05	11:36:03	10560
B/31/05	11:37:03	10620
B/31/05	11:38:03	10680
B/31/05	11:39:03	10740
B/31/05	11:40:03	10800
B/31/05	11:41:03	10860
B/31/05	11:42:03	10920
B/31/05	11:43:03	10980
B/31/05	11:44:03	11040
B/31/05	11:45:03	11100
B/31/05	11:46:03	11160
B/31/05	11:47:03	11220
B/31/05	11:48:03	11280
B/31/05	11:49:03	11340
B/31/05	11:50:03	11400
B/31/05	11:51:03	11460
B/31/05	11:52:03	11520
B/31/05	11:53:03	11580
B/31/05	11:54:03	11640
B/31/05	11:55:03	11700
B/31/05	11:56:03	11760
B/31/05	11:57:03	11820
B/31/05	11:58:03	11880
B/31/05	11:59:03	11940
B/31/05	12:00:03	12000
B/31/05	12:01:03	12060
B/31/05	12:02:03	12120
B/31/05	12:03:03	12180
B/31/05	12:04:03	12240
B/31/05	12:05:03	12300
B/31/05	12:06:03	12360
B/31/05	12:07:03	12420
B/31/05	12:08:03	12480
B/31/05	12:09:03	12540
B/31/05	12:10:03	12600
B/31/05	12:11:03	12660
B/31/05	12:12:03	12720
B/31/05	12:13:03	12780
B/31/05	12:14:03	12840
B/31/05	12:15:03	12900
B/31/05	12:16:03	12960
B/31/05	12:17:03	13020
B/31/05	12:18:03	13080
B/31/05	12:19:03	13140
B/31/05	12:20:03	13200
B/31/05	12:21:03	13260
B/31/05	12:22:03	13320
B/31/05	12:23:03	13380
B/31/05	12:24:03	13440
B/31/05	12:25:03	13500
B/31/05	12:26:03	13560
B/31/05	12:27:03	13620
B/31/05	12:28:03	13680
B/31/05	12:29:03	13740
B/31/05	12:30:03	13800
B/31/05	12:31:03	13860
B/31/05	12:32:03	13920
B/31/05	12:33:03	13980
B/31/05	12:34:03	14040
B/31/05	12:35:03	14100
B/31/05	12:36:03	14160
B/31/05	12:37:03	14220
B/31/05	12:38:03	14280
B/31/05	12:39:03	14340
B/31/05	12:40:03	14400
B/31/05	12:41:03	14460
B/31/05	12:42:03	14520
B/31/05	12:43:03	14580
B/31/05	12:44:03	14640
B/31/05	12:45:03	14700
B/31/05	12:46:03	14760
B/31/05	12:47:03	14820

56.232	56.235	56.243	56.252	56.263	56.268	56.274	56.279	56.284	56.293	56.298	56.304	56.306	56.312	56.32	56.326	56.337	56.342	56.347	56.353	56.366	56.375	56.379	56.386	56.394	56.4	56.405	56.408	56.413	56.418	56.424	56.429	56.432	56.438	56.443	56.446	56.454	56.46	56.463	56.468	56.471	56.476	56.482	56.487	56.487	56.487	56.496	56.496	56.498	56.504	56.506	56.509	56.515	56.517	56.523	56.528	56.531	56.533	56.539	56.545	56.55	56.553	56.559	56.561	56.564	56.566	56.568	56.572	56.578	56.58	56.583	56.588	56.594	56.597	56.602	56.605	56.607	56.613	56.613	56.613	56.624	56.627	56.635	56.641	56.646	56.649
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Appendix H

Water Quality Results - TW-1



Experience is the solution

314 North Pearl Street • Albany, New York 12207
(800) 848-4983 • (518) 434-4546 • Fax (518) 434-0891

October 04, 2005

Greg Lesniak

Continental Placer

26 Computer Drive West

Albany, NY 12205

TBL: (518) 458-9203

FAX: (518) 458-9206

RE: Drinking Water

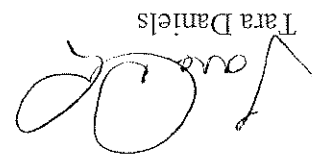
Deansboro

Dear Greg Lesniak:

Adirondack Environmental Services, Inc received 5 samples on 8/31/2005 for the analyses presented in the following report.
There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,


Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT:

Continental Placer

Work Order:

050831041

Project:

Drinking Water

PO#:

Matrix: DRINKING WATER

Client Sample ID: 6-Hour

Collection Date: 8/30/2005

Lab Sample ID: 050831041-001

Analyses

Result

PQL Qual Units

DF

Date Analyzed

ICP METALS E200.7(SW3010A)

Iron

2.31

0.050

mg/L

1

9/6/2005 3:33:00 PM

Analyst: WB

Qualifiers:

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

T - Tentatively Identified Compound-Estimated Conc.

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: 12-Hour

Work Order: 050831041

Collection Date: 8/30/2005

Project: Drinking Water

Lab Sample ID: 050831041-002

PO#:

Matrix: DRINKING WATER

Analyses				
Result	PQL	Qual	Units	DF

ICP METALS E200.7(SW3010A) Iron
 2.18 0.050 mg/L 1
 Analyst: WB 9/6/2005 4:16:00 PM

Qualifiers:

- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside accepted recovery limits
- J - Analyte detected below quantitation limits
- R - RPD outside accepted recovery limits
- T - Tentatively Identified Compound-Estimated Conc.
- E - Value above quantitation range
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer
Work Order: 050831041
Project: Drinking Water
PO#:
Client Sample ID: 18-Hour
Collection Date: 8/31/2005
Lab Sample ID: 050831041-003
Matrix: DRINKING WATER

Analyses				
Result	PQL	Qual	Units	DF
Date Analyzed				

ICP METALS E200.7(SW3010A)

Iron

2.06

0.050

mg/L

1

9/6/2005 4:20:00 PM

Analyst: WB

Qualifiers:

- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- T - Tentatively Identified Compound-Estimated Conc.
- E - Value above quantitation range
- * - Value exceeds Maximum Contaminant Level
- B - Analyte detected in the associated Method Blank
- J - Analyte detected below quantitation limits

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: TW-1

Work Order: 050831041

Collection Date: 8/31/2005

Project: Drinking Water

Lab Sample ID: 050831041-004

PO#:

Matrix: DRINKING WATER

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
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MICRO-EXTRACTABLES E504.1(E504.1)

Analyst: KF	9/1/2005 9:19:05 PM	1	µg/L	0.01	1,2-Dibromoethane
Analyst: KF	9/1/2005 9:19:05 PM	1	µg/L	0.01	1,2-Dibromo-3-chloropropane

PCB AND CHLORINATED PESTICIDES E508(E507)

Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.050	Aldrin
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.020	gamma-BHC (Lindane)
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.200	Chlordane
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.100	Dieldrin
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.010	Endrin
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.040	Heptachlor
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.020	Heptachlor epoxide
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.100	Methoxychlor
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.100	Propachlor
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	1.00	Toxaphene
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1016
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1221
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1232
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1242
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1248
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1254
Analyst: KF	8/31/2005 8:02:46 PM	1	µg/L	0.065	Aroclor 1260

NITROGEN PHOSPHORUS PESTICIDES E507

Analyst: TN	9/1/2005	1	µg/L	0.20	Alachlor
Analyst: TN	9/1/2005	1	µg/L	0.10	Atrazine
Analyst: TN	9/1/2005	1	µg/L	0.20	Butachlor
Analyst: TN	9/1/2005	1	µg/L	0.20	Metolachlor
Analyst: TN	9/1/2005	1	µg/L	0.20	Metribuzin
Analyst: TN	9/1/2005	1	µg/L	0.07	Simazine

HALOGENATED VOLATILE ORGANICS E502.2

Analyst: SO	9/9/2005	1	µg/L	0.5	Dichlorodifluoromethane
Analyst: SO	9/9/2005	1	µg/L	0.5	Chloromethane
Analyst: SO	9/9/2005	1	µg/L	0.5	Vinyl chloride
Analyst: SO	9/9/2005	1	µg/L	0.5	Bromomethane
Analyst: SO	9/9/2005	1	µg/L	0.5	Chloroethane
Analyst: SO	9/9/2005	1	µg/L	0.5	Trichlorofluoromethane
Analyst: SO	9/9/2005	1	µg/L	0.5	1,1-Dichloroethene
Analyst: SO	9/9/2005	1	µg/L	0.5	Methylene chloride
Analyst: SO	9/9/2005	1	µg/L	0.5	trans-1,2-Dichloroethene
Analyst: SO	9/9/2005	1	µg/L	0.5	1,1-Dichloroethane

Qualifiers:
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 * - Value exceeds Maximum Contaminant Level

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: TW-1

Work Order: 050831041

Collection Date: 8/31/2005

Project: Drinking Water

Lab Sample ID: 050831041-004

PO#:

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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HALOGENATED VOLATILE ORGANICS E502.2

Analyst: SO

2,2-Dichloropropane < 0.5 0.5 µg/L 1 9/9/2005

cis-1,2-Dichloroethene < 0.5 0.5 µg/L 1 9/9/2005

Chloroform < 0.5 0.5 µg/L 1 9/9/2005

Bromochloromethane < 0.5 0.5 µg/L 1 9/9/2005

1,1,1-Trichloroethane < 0.5 0.5 µg/L 1 9/9/2005

1,1-Dichloropropene < 0.5 0.5 µg/L 1 9/9/2005

Carbon tetrachloride < 0.5 0.5 µg/L 1 9/9/2005

1,2-Dichloroethane < 0.5 0.5 µg/L 1 9/9/2005

Trichloroethene < 0.5 0.5 µg/L 1 9/9/2005

1,2-Dichloropropane < 0.5 0.5 µg/L 1 9/9/2005

Bromodichloromethane < 0.5 0.5 µg/L 1 9/9/2005

Dibromomethane < 0.5 0.5 µg/L 1 9/9/2005

cis-1,3-Dichloropropene < 0.5 0.5 µg/L 1 9/9/2005

trans-1,3-Dichloropropene < 0.5 0.5 µg/L 1 9/9/2005

1,1,2-Trichloroethane < 0.5 0.5 µg/L 1 9/9/2005

1,3-Dichloropropane < 0.5 0.5 µg/L 1 9/9/2005

Tetrachloroethene < 0.5 0.5 µg/L 1 9/9/2005

Dibromochloromethane < 0.5 0.5 µg/L 1 9/9/2005

1,2-Dibromoethane < 0.5 0.5 µg/L 1 9/9/2005

Chlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

1,1,1,2-Tetrachloroethane < 0.5 0.5 µg/L 1 9/9/2005

Bromoform < 0.5 0.5 µg/L 1 9/9/2005

1,1,2,2-Tetrachloroethane < 0.5 0.5 µg/L 1 9/9/2005

1,2,3-Trichloropropane < 0.5 0.5 µg/L 1 9/9/2005

Bromobenzene < 0.5 0.5 µg/L 1 9/9/2005

2-Chlorotoluene < 0.5 0.5 µg/L 1 9/9/2005

4-Chlorotoluene < 0.5 0.5 µg/L 1 9/9/2005

1,3-Dichlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

1,4-Dichlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

1,2-Dichlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

1,2-Dibromo-3-chloropropane < 0.5 0.5 µg/L 1 9/9/2005

1,2,4-Trichlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

Hexachlorobutadiene < 0.5 0.5 µg/L 1 9/9/2005

1,2,3-Trichlorobenzene < 0.5 0.5 µg/L 1 9/9/2005

AROMATIC VOLATILE ORGANICS E502.2

Analyst: SO

Methyl tert-butyl ether < 2.0 2.0 µg/L 1 9/9/2005

Benzene < 0.5 0.5 µg/L 1 9/9/2005

Toluene < 0.5 0.5 µg/L 1 9/9/2005

Ethylbenzene < 0.5 0.5 µg/L 1 9/9/2005

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Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: TW-1

Work Order: 050831041

Collection Date: 8/31/2005

Project: Drinking Water

Lab Sample ID: 050831041-004

PO#:

Matrix: DRINKING WATER

Analyses	Result	POL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILE ORGANICS E502.2

Analyst: SO

m,p-Xylene	< 0.5	0.5		µg/L	1	9/9/2005
o-Xylene	< 0.5	0.5		µg/L	1	9/9/2005
Styrene	< 0.5	0.5		µg/L	1	9/9/2005
Isopropylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
n-Propylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
1,3,5-Trimethylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
tert-Butylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
1,2,4-Trimethylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
sec-Butylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
4-Isopropyltoluene	< 0.5	0.5		µg/L	1	9/9/2005
n-Butylbenzene	< 0.5	0.5		µg/L	1	9/9/2005
Naphthalene	< 0.5	0.5		µg/L	1	9/9/2005

HARDNESS SM 2340B(SW3010A)

Analyst: KH

Total Hardness (As CaCO3)	1600	5		mg/L	1	9/15/2005
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ICP METALS E200.7(SW3010A)

Analyst: KH

Antimony	< 0.006	0.006		mg/L	1	9/15/2005 11:43:00 AM
Arsenic	< 0.005	0.005		mg/L	1	9/15/2005 11:43:00 AM
Barium	0.010	0.010		mg/L	1	9/15/2005 11:43:00 AM
Beryllium	< 0.004	0.004		mg/L	1	9/15/2005 11:43:00 AM
Cadmium	< 0.005	0.005		mg/L	1	9/15/2005 11:43:00 AM
Chromium	< 0.005	0.005		mg/L	1	9/15/2005 11:43:00 AM
Copper	< 0.005	0.005		mg/L	1	9/15/2005 11:43:00 AM
Iron	2.04	0.050		mg/L	1	9/15/2005 11:43:00 AM
Manganese	0.106	0.020		mg/L	1	9/15/2005 11:43:00 AM
Nickel	< 0.020	0.020		mg/L	1	9/15/2005 11:43:00 AM
Silver	< 0.010	0.010		mg/L	1	9/15/2005 11:43:00 AM
Sodium	38.1	0.050		mg/L	1	9/15/2005 11:43:00 AM
Zinc	< 0.010	0.010		mg/L	1	9/15/2005 11:43:00 AM

LEAD E200.9

Analyst: KH

Lead	< 0.001	0.001		mg/L	1	9/1/2005
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MERCURY E245.1(E245.1)

Analyst: KH

Mercury	< 0.0002	0.0002		mg/L	1	9/2/2005
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SELENIUM E200.9

Analyst: SM

Selenium	< 0.002	0.002		mg/L	1	9/13/2005
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THALLIUM E200.9

Analyst: SM

Thallium	< 0.002	0.002		mg/L	1	9/13/2005
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E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: TW-1

Work Order: 050831041

Collection Date: 8/31/2005

Project: Drinking Water

Lab Sample ID: 050831041-004

PO#:

Matrix: DRINKING WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ANIONS BY ION CHROMATOGRAPHY E300

Analyst: SH

Fluoride	1.20	0.10		mg/L	1	9/1/2005
Chloride	68.0	1.00		mg/L	1	9/9/2005
Nitrite, Nitrogen	0.07	0.02		mg/L	1	9/1/2005
Nitrate, Nitrogen (As N)	< 0.02	0.02		mg/L	1	9/1/2005
Sulfate	1040	2.00		mg/L	1	9/9/2005

ASBESTOS IN WATER EPA100

Analyst: TH

Asbestos -Fibers >0.5um EPA100.1	< 10	10		MFL	1	9/20/2005
Asbestos -Fibers >10um EPA100.2	< 0.2	0.2		MFL	1	9/20/2005

RADIOLOGICALS E900.0

Analyst: 11647

Gross Alpha	7.6	5.8		pCi/L	1	9/20/2005
Gross Beta	< 2.4	2.4		pCi/L	1	9/20/2005

CHLORINATED ACID HERBICIDES E515.1

Analyst: 11071

2,4,5-TP (Silvex)	< 0.20	0.20		µg/L	1	9/13/2005
2,4-D	< 0.10	0.10		µg/L	1	9/13/2005
Datapon	< 1.0	1.0		µg/L	1	9/13/2005
Dicamba	< 0.50	0.50		µg/L	1	9/13/2005
Dinoseb	< 0.20	0.20		µg/L	1	9/13/2005
Pentachlorophenol	< 0.04	0.04		µg/L	1	9/13/2005
Picloram	< 0.10	0.10		µg/L	1	9/13/2005

EPA 525.2 E525.2

Analyst: 11071

Benzo(a)pyrene	< 0.20	0.20		µg/L	1	9/12/2005
bis(2-Ethylhexyl)adipate	< 10	10		µg/L	1	9/12/2005
Bis(2-ethylhexyl)phthalate	< 1.0	1.0		µg/L	1	9/12/2005
Hexachlorobenzene	< 0.20	0.20		µg/L	1	9/12/2005
Hexachlorocyclopentadiene	< 1.0	1.0		µg/L	1	9/12/2005

METHYL CARBAMATE PESTICIDES E531.1

Analyst: 11071

Aldicarb	< 2.0	2.0		µg/L	1	9/7/2005
Aldicarb sulfone	< 2.0	2.0		µg/L	1	9/7/2005
Aldicarb sulfioxide	< 2.0	2.0		µg/L	1	9/7/2005
Carbaryl	< 2.0	2.0		µg/L	1	9/7/2005
Carbofuran	< 2.0	2.0		µg/L	1	9/7/2005
3-Hydroxycarbofuran	< 2.0	2.0		µg/L	1	9/7/2005
Methomyl	< 2.0	2.0		µg/L	1	9/7/2005
Oxamyl	< 2.0	2.0		µg/L	1	9/7/2005

RADIUM 226 E903.1

Analyst: 11647

Radium-226	< 0.59	0.59		pCi/L	1	9/22/2005
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- E - Value above quantitation range
- * - Value exceeds Maximum Contaminant Level
- B - Analyte detected in the associated Method Blank
- J - Analyte detected below quantitation limits

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer

Client Sample ID: TW-1

Work Order: 050831041

Collection Date: 8/31/2005

Project: Drinking Water

Lab Sample ID: 050831041-004

PO#:

Matrix: DRINKING WATER

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
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RADIUM 228 E904.0 Analyst: 11647 Radium-228

ALKALINITY SM2320 B Analyst: LS Alkalinity, Total (As CaCO3)

9/2/2005 1 mg/L

COLOR (PLATINUM-COBALT) SM2120 B Analyst: PL Color

8/31/2005 1 cpu

CORROSIVITY, LANGELIER SM16 203 Analyst: CMH Langelier Value

9/15/2005 1 SI

CYANIDE E335.4(E335.3) Analyst: RC Cyanide

9/1/2005 1 mg/L

ODOR E140.1 Analyst: PL Odor

8/31/2005 1 TON

PH E150.1 Analyst: NB pH

8/31/2005 1 pH Units

TOTAL DISSOLVED SOLIDS SM2540C Analyst: LS Total Dissolved Solids (Residue, Filterable)

9/2/2005 1 mg/L

TURBIDITY E180.1 Analyst: PL Turbidity

8/31/2005 1 NTU

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer
 Work Order: 050831041
 Project: Drinking Water
 PO#:
 Client Sample ID: Trip Blank-Lo#108
 Collection Date: 8/31/2005
 Lab Sample ID: 050831041-005
 Matrix: WATER

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
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HALOGENATED VOLATILE ORGANICS E502.2

Analyst: SO

Dichlorodifluoromethane	< 0.5	0.5	µg/L	1	9/9/2005
Chloromethane	< 0.5	0.5	µg/L	1	9/9/2005
Bromomethane	< 0.5	0.5	µg/L	1	9/9/2005
Chloroethane	< 0.5	0.5	µg/L	1	9/9/2005
Trichlorofluoromethane	< 0.5	0.5	µg/L	1	9/9/2005
1,1-Dichloroethene	< 0.5	0.5	µg/L	1	9/9/2005
Methylene chloride	< 0.5	0.5	µg/L	1	9/9/2005
trans-1,2-Dichloroethene	< 0.5	0.5	µg/L	1	9/9/2005
1,1-Dichloroethane	< 0.5	0.5	µg/L	1	9/9/2005
2,2-Dichloropropane	< 0.5	0.5	µg/L	1	9/9/2005
cis-1,2-Dichloroethene	< 0.5	0.5	µg/L	1	9/9/2005
Chloroform	< 0.5	0.5	µg/L	1	9/9/2005
Bromochloromethane	< 0.5	0.5	µg/L	1	9/9/2005
1,1,1-Trichloroethane	< 0.5	0.5	µg/L	1	9/9/2005
1,1-Dichloropropene	< 0.5	0.5	µg/L	1	9/9/2005
Carbon tetrachloride	< 0.5	0.5	µg/L	1	9/9/2005
1,2-Dichloroethane	< 0.5	0.5	µg/L	1	9/9/2005
Trichloroethene	< 0.5	0.5	µg/L	1	9/9/2005
1,2-Dichloropropane	< 0.5	0.5	µg/L	1	9/9/2005
Bromodichloromethane	< 0.5	0.5	µg/L	1	9/9/2005
Dibromomethane	< 0.5	0.5	µg/L	1	9/9/2005
cis-1,3-Dichloropropene	< 0.5	0.5	µg/L	1	9/9/2005
trans-1,3-Dichloropropene	< 0.5	0.5	µg/L	1	9/9/2005
1,1,2-Trichloroethane	< 0.5	0.5	µg/L	1	9/9/2005
1,3-Dichloropropane	< 0.5	0.5	µg/L	1	9/9/2005
Tetrachloroethene	< 0.5	0.5	µg/L	1	9/9/2005
Dibromochloromethane	< 0.5	0.5	µg/L	1	9/9/2005
1,2-Dibromoethane	< 0.5	0.5	µg/L	1	9/9/2005
Chlorobenzene	< 0.5	0.5	µg/L	1	9/9/2005
1,1,1,2-Tetrachloroethane	< 0.5	0.5	µg/L	1	9/9/2005
Bromoform	< 0.5	0.5	µg/L	1	9/9/2005
1,1,2,2-Tetrachloroethane	< 0.5	0.5	µg/L	1	9/9/2005
1,2,3-Trichloropropane	< 0.5	0.5	µg/L	1	9/9/2005
Bromobenzene	< 0.5	0.5	µg/L	1	9/9/2005
2-Chlorotoluene	< 0.5	0.5	µg/L	1	9/9/2005
4-Chlorotoluene	< 0.5	0.5	µg/L	1	9/9/2005
1,3-Dichlorobenzene	< 0.5	0.5	µg/L	1	9/9/2005
1,4-Dichlorobenzene	< 0.5	0.5	µg/L	1	9/9/2005

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- E - Value above quantitation range
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 04-Oct-05

CLIENT: Continental Placer
 Work Order: 050831041
 Project: Drinking Water
 Client Sample ID: Trip Blank-Lot#108
 Collection Date: 8/31/2005
 Lab Sample ID: 050831041-005
 Matrix: WATER

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
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HALOGENATED VOLATILE ORGANICS E502.2					
Analyst: SO	1,2-Dichlorobenzene	< 0.5	0.5	µg/L	1
	1,2-Dibromo-3-chloropropane	< 0.5	0.5	µg/L	1
	1,2,4-Trichlorobenzene	< 0.5	0.5	µg/L	1
	Hexachlorobutadiene	< 0.5	0.5	µg/L	1
	1,2,3-Trichlorobenzene	< 0.5	0.5	µg/L	1

AROMATIC VOLATILE ORGANICS E502.2					
Analyst: SO	Methyl tert-butyl ether	< 2.0	2.0	µg/L	1
	Benzene	< 0.5	0.5	µg/L	1
	Toluene	< 0.5	0.5	µg/L	1
	Ethylbenzene	< 0.5	0.5	µg/L	1
	m,p-Xylene	< 0.5	0.5	µg/L	1
	o-Xylene	< 0.5	0.5	µg/L	1
	Styrene	< 0.5	0.5	µg/L	1
	Isopropylbenzene	< 0.5	0.5	µg/L	1
	n-Propylbenzene	< 0.5	0.5	µg/L	1
	1,3,5-Trimethylbenzene	< 0.5	0.5	µg/L	1
	tert-Butylbenzene	< 0.5	0.5	µg/L	1
	1,2,4-Trimethylbenzene	< 0.5	0.5	µg/L	1
	sec-Butylbenzene	< 0.5	0.5	µg/L	1
	4-Isopropyltoluene	< 0.5	0.5	µg/L	1
	n-Butylbenzene	< 0.5	0.5	µg/L	1
	Naphthalene	< 0.5	0.5	µg/L	1

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: CONFIDENTIAL Continential Placer	Address: 26 Computer Drive West, Albany, NY
Send Report To: Greg Loshniak	Project Name (Location): Deansboro
Client Phone No: 518 458-9203	Client Fax No:
PO Number: 597-2410	Samplers: (Signature) Greg V. Loshniak
	Samplers: (Names) Greg V. Loshniak

[illegible]

AES Work Order #.		050831041		Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☐ 5 Day ☒ Normal		Relinquished by: (Signature) Received by: (Signature) Date/Time		Relinquished by: (Signature) Received by: (Signature) Date/Time		Relinquished by: (Signature) Received by: (Signature) Date/Time		Received for Laboratory by: <i>[Signature]</i> Date/Time <i>8/31/05 313</i>		TEMPERATURE Ambient or Chilled <i>(Y)</i>		Notes: Properly Preserved <i>(Y)</i>		Notes: Received Within Holding Times <i>(Y)</i>	
CC Report To / Special Instructions/Remarks:																			



TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adironack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adironack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adironack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adironack Environmental Services, Inc.** arising out of its work.

- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adironack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.

- (c) **Adironack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adironack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adironack Environmental Services, Inc.** as to the accuracy of the contents thereof.

- (d) In no event shall **Adironack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

- (e) No deviation from the terms set forth herein shall bind **Adironack Environmental Services, Inc.** unless in writing and signed by a Director of **Adironack Environmental Services, Inc.**

- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adironack Environmental Services, Inc.** is not responsible for the accuracy of this information.