SOURCE FINAL REPORT
BIRCH ROAD WELL RE-ACTIVATION
FRAMINGHAM, MASSACHUSETTS

FOR

DEPARTMENT OF PUBLIC WORKS
TOWN OF FRAMINGHAM, MASSACHUSETTS

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TABLE OF CONTENTS

LIST OF TABLES ..... **III**

LIST OF FIGURES ..... **IV**

LIST OF APPENDICES ..... **V**

EXECUTIVE SUMMARY ..... **VI**

1. BACKGROUND **1-1**

1.1 PURPOSE 1-1
1.2 HISTORY 1-1
1.4 AREA PUBLIC WATER SUPPLY WITHDRAWALS 1-4

2. SITE HYDROGEOLOGY **2-1**

2.1 SITE CHARACTERIZATION 2-1
2.1.1 Observation Well Installation *2-1*
2.1.2 12-Inch Test Well Installation *2-2*
2.1.3 Slug Testing *2-3*
2.2 WATERSHED AND SURFACE DRAINAGE 2-3
2.3 INTERPRETED AQUIFER HYDROGEOLOGY 2-4

3. PROLONGED PUMPING TEST **3-1**

3.1 INTRODUCTION 3-1
3.2 PROLONGED PUMPING TEST DESIGN 3-1
3.3 PROLONGED PUMPING TEST PERFORMANCE 3-3
3.3.1 Precipitation and Ambient Groundwater Monitoring *3-4*
3.3.2 Pumping and Stabilization *3-9*
3.3.3 Stabilization *3-9*
3.3.4 Recovery Readings *3-11*
3.3.5 Analysis of Aquifer Parameters *3-11*

4. NUMERICAL AQUIFER MODELING **4-1**

4.1 MODEL EXTENTS AND GRID SIZE 4-1
4.2 SURFACE ELEVATION DATA 4-2
4.3 BOUNDARIES 4-3
4.4 ZONES, LAYERS AND RECHARGE 4-5
4.5 WELLS 4-7
4.6 MODEL CALIBRATION 4-8
4.7 RESULTS 4-9

5. ZONE II MODELING **5-1**

5.1 MassDEP 180-DAY ZONE II SIMULATION 5-1
5.2 SUPPLY YIELD 5-3

6. WATER QUALITY SAMPLING AND ANALYSIS **6-1**

6.1 INTRODUCTION 6-1
6.2 FIELD TESTING 6-1
6.3 ANALYTICAL TESTING 6-3
6.4 WATER QUALITY ANALYSIS RESULTS 6-3
6.5 TREATMENT NEEDS 6-12

7. EVALUATION OF INDUCED INFILTRATION 7-1

7.1 PIEZOMETER AND STREAM GAUGE MONITORING 7-1

8. WATER SUPPLY PROTECTION 8-1

8.1 INTRODUCTION 8-1
8.2 ZONE II DELINEATION 8-1
8.3 LAND USE AND CONTAMINATION CONCERNS 8-1
8.4 ZONING AND AQUIFER PROTECTION 8-4
8.5 MONITORING PROGRAM 8-4

LIST OF TABLES

Table 2-1: Summary of Pumping Test Observation Wells 2-2
Table 2-2: Summary of 12-inch Test Well Parameters 2-3
Table 3-1: Average Pumping rates (in GPM) during pumping test 3-9
Table 3-2: 180-Day Projected Drawdown 3-10
Table 3-3: Observed Drawdown During Pumping Test 3-12
Table 3-4: Aquifer values obtained fitting the Neuman equation, with four pumping wells 3-15
Table 3-5: Aquifer Parameter values obtained fitting the Neuman equation, with one "virtual" pumping well, and with hypotheses of recharge and barrier boundaries 3-16
Table 3-6: Parameter values obtained fitting the Neuman and Arawall equation to the recovery data, with one pumping well, and with hypotheses of infinite aquifer extent, recharge boundary and barrier boundary 3-17
Table 4-1: Conductance Values for the River Features 4-4
Table 4-2: Parameter Values 4-9
Table 5-1: Pumping rates assigned for Zone II simulation 5-2
Table 6-1: Field Water Quality Testing ResultsTable 6-1: Field Water Quality Testing Results 6-2
Table 6-2: Pumping Wells Analytical Sampling Schedule 6-3
Table 6-3: Metals (Excluding Fe, Mn, Ca, Mg); Highest Level Detected (mg/L) 6-9
Table 6-4: Perchlorate Testing Results 6-11
Table 7-1: Measured Streamflow, SG-4 7-4

LIST OF FIGURES

Figure 1-1: Site Locus Map _____ **1-2**
Figure 3-1: Pump Test Monitoring Location Map _____ **3-2**
Figure 3-2: USGS Wayland well data _____ **3-5**
Figure 3-3: Data for Ambient Well, S E A-15 _____ **3-6**
Figure 3-4: Ambient Flow in Sudbury River Prior to, During, and After Pumping Test _____ **3-7**
Figure 3-5: USGS Statistical Analyses for NNW27 _____ **3-8**
Figure 3-6: USGS Statistical Analyses for WKW2 _____ **3-8**
Figure 3-7: Offset Wells _____ **3-10**
Figure 3-8: Wells ranked by drawdown _____ **3-12**
Figure 3-9: Drawdown vs. time for select monitoring wells. _____ **3-13**
Figure 3-10: The observed drawdown at S E A-17 indicates the presence of a recharge boundary followed by a barrier boundary. (t = seconds) _____ **3-14**
Figure 3-11: S E A-16 Effect of precipitation on the recovery data at S E A-16 _____ **3-18**
Figure 4-1: Depiction of Top and Bottom Surface within Model Domain (North is parallel to the Y-Axis) _____ **4-3**
Figure 4-2: Model Defined "River" Features _____ **4-5**
Figure 4-3: Zones in the model _____ **4-6**
Figure 4-4: Model Cross-Section _____ **4-6**
Figure 4-5: Model Space and Test Well Input Screen. _____ **4-7**
Figure 4-6: Calculated versus Observed data _____ **4-10**
Figure 4-7: Head observations and calculations versus time at each monitoring well. _____ **4-11**
Figure 5-1: MassDEP 180-Day Zone II Simulation _____ **5-3**
Figure 6-1: Hardness and Calcium (mg/L) _____ **6-6**
Figure 6-2: Magnesium (mg/L) _____ **6-6**
Figure 6-3: Iron (mg/L) _____ **6-7**
Figure 6-4: Manganese (mg/L) _____ **6-8**
Figure 6-5: pH _____ **6-9**
Figure 7-1: Piezometer Readings in Response to Rainfall and Pumping _____ **7-2**
Figure 7-2: Stage and Flow at SG-4 _____ **7-5**

LIST OF APPENDICES

APPENDIX A: MassDEP CORRESPONDENCE AND OTHER PERMIT APPROVALS
APPENDIX B: GROUNDWATER CONTOUR MAPS
APPENDIX C: DRILLING LOGS AND OBSERVATION WELL CONSTRUCTION DIAGRAMS
APPENDIX D: OBSERVATION WELL SLUG TESTING RESULTS
APPENDIX E: PUMPING TEST DRAWDOWN & RECOVERY DATA
APPENDIX F: AQUIFERTEST CURVE FITTING
APPENDIX G: LABORATORY ANALYTICAL DATA
APPENDIX H: RYZNAR STABILITY INDEX CALCULATION
APPENDIX I: ZONING CONTROLS

EXECUTIVE SUMMARY

A prolonged pumping test was conducted at the Birch Road well site in Framingham, Massachusetts. The test commenced at 12:05 pm on April 26, 2006 and was terminated at 13:20 on May 8, 2006 for a total of 17,355 minutes of pumping, or 12 days, 1 hour, and 15 minutes. The pumping rates varied during the test from a combined maximum of 2,000 gpm to a final stabilized pumping rate of 1,580 gpm. According to current MassDEP policy, the well site would be permittable at up to 4.46 MGD. However, the town of Framingham is seeking a permitted withdrawal of 4.3 MGD, which is slightly less than the 4.5 MGD that is grandfathered to Framingham under the Inter-basin Transfer Act.

The several weeks preceding the pump test were characterized by significantly below normal precipitation that impacted the amount of recharge available. Extremely heavy rainfall began immediately following the pump test, which complicated the analysis.

The wellfield achieved the stabilization criteria established by the MassDEP after 11 days of pumping. An analysis of the projected 180-day drawdown with no recharge indicates that there is sufficient available water to meet the MassDEP Zone II Stabilization Criteria.

The source of recharge for the well site is primarily Lake Cochituate and its contributing watershed. Numerical modeling of the aquifer depicts preferential groundwater flow along a vein of coarse sands and gravels in a deep aquifer valley that underlies the lake. Modeling indicates that Dudley Pond does not contribute substantial recharge to the well site. Modeling further indicates that the withdrawal of water from the Birch Road well site will not have an impact on Wayland's Happy Hollow or Meadowview wells, nor will there be a demonstrable impact on flow in the Sudbury River.

There are no threatened or endangered species on the site, nor has it been identified by the Natural Heritage and Endangered Species program as having priority habitat. There is a perched, isolated wetland within the middle of the site that was unaffected by pumping. The wetland to the east did appear to be affected by pumping. However, subsequent observation in the spring of 2007 indicated that this resource is subject to periodic declines in water level, which is unrelated to pumping. Therefore, this resource will require monitoring during facility operations. However, no impacts in excess of those presented by the 4.5 MGD grandfathered to the site can be expected. No other potential environmental impacts were noted.

Water quality analyses were performed throughout the duration of the test at a schedule defined in the approved Request for Pump Test Approval, submitted to the MassDEP in November 2005. In general the water quality was good, with no volatile organic compounds or coliform bacteria detected. The levels of iron and manganese significantly exceed the aesthetic standards for drinking water and will require treatment. A single sample collected from TW-1 exhibited quantifiable levels of perchlorate below the regulatory standard.

1. BACKGROUND

This document presents the results of an aquifer testing program performed by S E A Consultants Inc. (S E A) on behalf of the Town of Framingham Department of Public Works (the Town). The purpose of the test was to evaluate pumping capacity and water quality pursuant to the re-activation of the Birch Road Well Site (historically known as the Cochituate Wellfield). A Locus Map of the site is shown in Figure 1-1. The site was tested using four 12-inch naturally-developed wells, sited within the limits of the existing wellfield. The test wells, TW-1 through TW-4, were pumped for 12 days from April 26 through May 8, 2006. The pumping test was conducted in accordance with the Massachusetts Department of Environmental Protection (MassDEP) *1996 Guidelines and Policies for Public Water Systems* (*Guidelines*) and verbal communication with the Drinking Water Program in the Northeast Region of the MassDEP in Wilmington, MA. The pumping test procedures followed the approved Request for Pumping Test Approval submitted by S E A in November 2005 and approved by MassDEP on February 5, 2006. The MassDEP approvals and correspondence for this project are included in Appendix A. This document describes the results of the prolonged pumping test.

1.1 Purpose

The purpose of the prolonged pumping test was to determine the capacity of the aquifer to yield groundwater of acceptable quantity and quality for prolonged periods of time. A second goal of the pumping test was to evaluate the interaction between groundwater and potential environmental receptors.

1.2 History

As depicted on Figure 1-1, the project is located in the northeast portion of the town of Framingham, and abuts the Wayland town line to the east. The original Birch Road well site consists of three production wells constructed in 1939. The original wells were 24-inch gravel-packed wells ranging in depths from 61 feet to 63 feet below grade. The buildings housing each of the wells are constructed of concrete block walls and a concrete panel roof. In 1974, a separate chemical treatment facility was constructed adjacent to Well 1 for the purpose of sequestering iron and manganese from the wells.

Because of excessive levels of iron and manganese, the wells were removed from active service in 1984. Since that time, the town has utilized water solely from the Massachusetts Water Resource Authority (MWRA). However, given recent trends and forecasted increases in MWRA water rates, reactivation of the wells to decrease reliance on the MWRA has emerged as an economically viable scenario for the town.

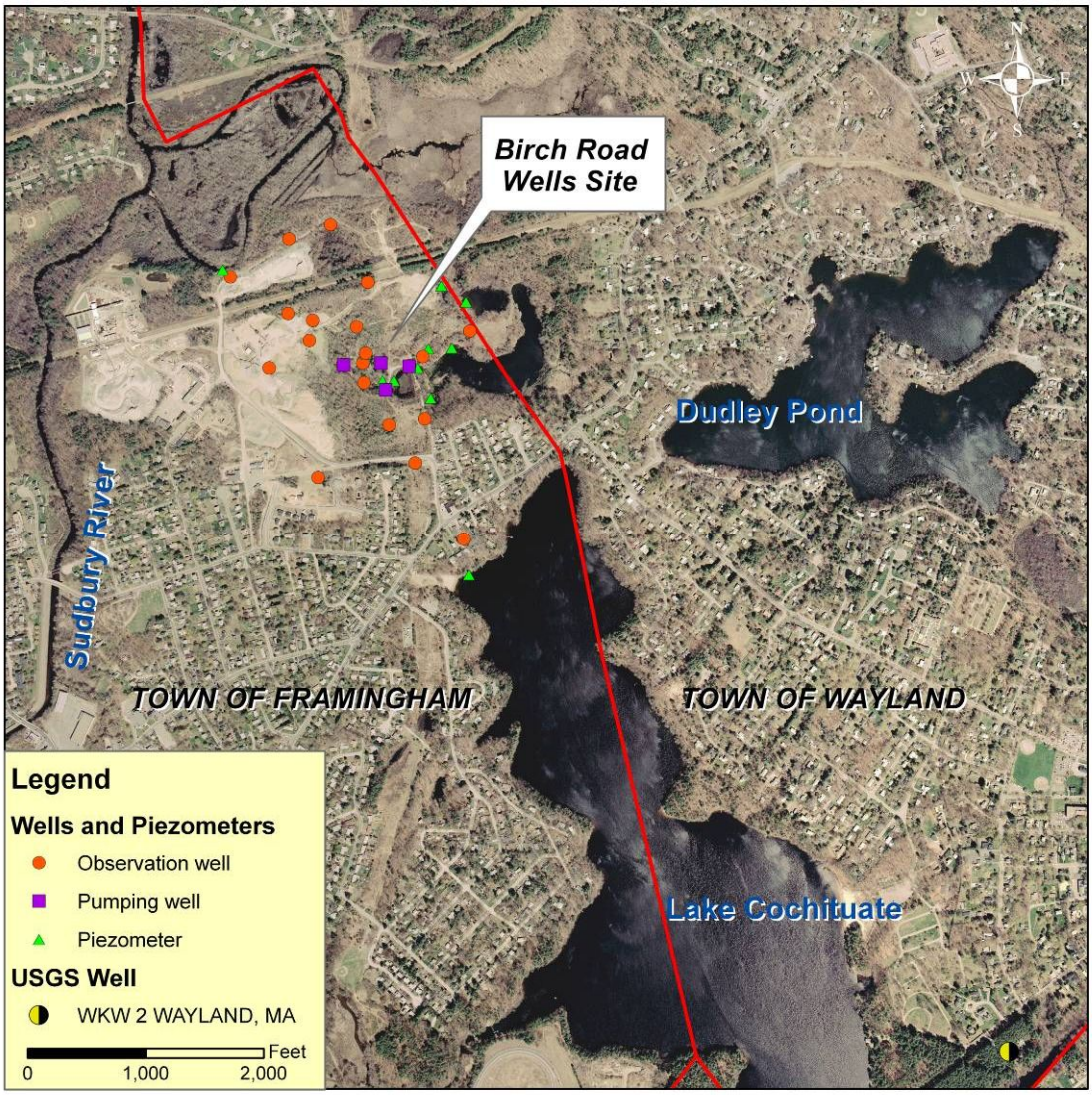


Figure 1-1: Site Locus Map

The Birch Road well site has been extensively investigated as a water supply aquifer for nearly 65 years. The ability of this aquifer to provide large quantities of drinking water is well

established. Over the years, the major drawback to this locally derived water has been poor quality, specifically high levels of iron and manganese. Recently, concern has been raised regarding volatile organic compound (VOC) contamination from nearby commercial and industrial activities, and potential mineral contamination from MWRA tunnel tailings stockpiled near the wells. These compounds were monitored for during the prolonged pumping test.

Previous Studies

The following activities have been performed at the site for water supply purposes:

- 1938 drilling program – three Birch Road (Cochituate) water supply wells constructed.
- 1945-46 drilling program, installation of 17 test wells to the northwest of the Birch Road wells.
- 1966 drilling program – installed approximately 30 test wells, mainly to the west of the Birch Road wells.
- 1989 MWRA Local Sources Feasibility Study – Preliminary Zone II and Zone III's were developed.
- 1992 pump test program for the MWRA Local Sources Feasibility Study (S E A Consultants, Inc). Two of the three wells were pump tested until stabilization was achieved. The Zone II and Zone III boundaries were delineated, which depicted Lake Cochituate and its associated watershed as the primary contributor of recharge to the well site.

The reader is referred to the 1992 report for a detailed description of site history.

Summary of Recent Replacement Activities

S E A initiated the process to replace the Birch Road wells in the summer of 2004 with the delineation of wetlands on and adjacent to the project site. A surveyed Site Plan is shown on the groundwater contour maps in Appendix B which depicts the site topography and locations of pre-existing and recently installed wells. The following is a timeline of recent activities leading up to the prolonged pumping test:

- October 2004: MassDEP Wetlands Protection Act Order of Conditions for installation of exploratory monitoring wells.

- December 2004 – January 2005: Installation of exploratory monitoring wells.

- April – June 2005: Installation of 12-inch test wells.

- August – September 2005: Performance of 22-day water quality pumping test at TW-4.

- December 2005 -March 2006: Installation of observation and test wells for the prolonged pumping test. These activities are described in further detail below in Section 1.3.

- April – May 2006: Performance of 12-day prolonged pumping test.

1.4 Area Public Water Supply Withdrawals

The nearest public water supply wells are the Happy Hollow Well Nos. 1 and 2 (PWS ID 3315000-03G; -04G) and the Meadowview Well (PWS ID 3315000-0?G) located approximately 4,600 feet northeast and north of the site, respectively, in the neighboring town of Wayland. The wells are an important source of supply for Wayland, representing 50% of their total capacity. Two monitoring wells were installed to supplement the three existing monitoring wells located between the proposed well site and Wayland's wells to observe and quantify what impact, if any, pumping at the Birch Road site may have on Wayland's ability to produce water from their wells. There are no other public water supplies in the vicinity of the site.

2. SITE HYDROGEOLOGY

This section discusses the characterization of the site specific hydrogeology based on installation of test wells and available geologic mapping.

2.1 Site Characterization

2.1.1 Observation Well Installation

The Town of Framingham DPW commissioned Layne-Christensen Company to install fifteen (15) 2½ - inch diameter exploratory monitoring wells to supplement the eight (8) identified pre-existing observation wells. The wells were drilled using the drive and wash drilling method. Each well was installed with a 5-foot long stainless steel screen. This work was performed between December 15, 2004 and February 15, 2005, and in March 2006. The locations of the observation wells are shown on Figure 3-1 and on the contour maps in Appendix B. Drilling depths ranged between 32 and 124 feet below grade, with the bulk of the materials observed consisting of medium to fine sands with traces of gravel and silt. Bedrock was assumed from refusal in three of the wells, at depths ranging from 39.5 feet below grade (S E A-14) to greater than 124 feet below grade (S E A-9). In addition, several attempts were made to drive borings at the locations identified as S E A-5 and S E A-6; but due to bedrock at less than 15 feet below grade, no wells could be installed. Drilling logs for the new observation wells are provided in Appendix C.

Following installation, observation wells were developed by surging and pumping. The post development pumping rates for wells labeled S E A-10 through S E A-14 and S E A-16 could not be assessed due to deep static water levels. These wells are predominantly located along the western side of the Birch Road well site. The remaining wells were developed utilizing a centrifugal-type vacuum pump, and exhibited pumping rates between 5 and 90 gallons per minute (gpm). Table 2-1 below provides a listing of the wells included in the pumping test monitoring network.

Table 2-1: Summary of Pumping Test Observation Wells

Well ID	Top of Casing Elevation (MSL)	Boring Depth (feet bgs)	Screened Interval (feet bgs)	Static Water Elevation* (MSL)
S E A-1	Multiple Attempts: Refusal at 12' (Concrete foundation, not bedrock)			
S E A-2	129.99	32.5	27.5-32.5	125.67
S E A-3	125.68	77	59-64	122.41
S E A-4	144.95	80	75-80	127.43
S E A-5	Multiple Attempts: Refusal at 4'-12'			
S E A-6	Multiple Attempts: Refusal at 8'-15'			
S E A-7	135.74	74	65-70	127.66
S E A-8	140.16	71	66-71	126.95
S E A-9	140.53	112	100-105	127.64
S E A-10	182.04	72	66-71	127.89
S E A-11	175.64	77	72-77	129.56
S E A-12	165.17	85	80-85	121.81
S E A-13	158.15	95.5	62-67	127.69
S E A-14	146.72	39.5	34.5-39.5	121.78
S E A-15	124.00	98	64-69	117.74
S E A-16	186.17	123.5	92-97	131.32
SEA-17	140.60	60	55-60	127.68
SEA-18	146.38	59	54-59	127.65

* Static data are from 4/25/2006, taken prior to start of pumping

Aquifer testing was performed on each of the observation wells installed by S E A. The testing consisted of vacuum pump testing at those wells with static water levels less than 15 feet below ground surface or rising head slug tests, or both. The vacuum pump testing results are presented on the boring logs in Appendix C and the slug test analytical results are included in Appendix D.

2.1.2 12-Inch Test Well Installation

Four 12-inch diameter naturally developed overburden test wells were installed at the well site in the spring of 2005. The test well locations are shown on Figure 3-1 and on the contour maps

in Appendix B. Table 2-2 provides a summary of the design and performance characteristics of each test well.

Table 2-2: Summary of 12-inch Test Well Parameters

Test Well ID	Depth (ft)	Screen Length (ft)	Slot Size (in.)	Available Water (ft)	Specific Capacity (gpm/ft)	Anticipated Yield (gpm)
TW-1	74	15	0.060	40	42.3	>800
TW-2	61	10	0.070	35	41.3	>800
TW-3	70	2 13	0.070 0.100	35	47.5	>800
TW-4	70	15	0.200	40	70	>2,000

2.1.3 Slug Testing

Rising head slug tests were performed on 24 observation wells. Slug testing was conducted in March 2005, with additional testing performed in January 2007. Recovery readings were monitored with electronic data loggers at a logarithmic scale. The results were analyzed using Aquifertest software (Waterloo Hydrologic). The slug testing results are provided in Appendix D.

2.2 Watershed and Surface Drainage

The well site is located in the Concord River Basin, approximately ½-mile southeast of the Sudbury River and 1/3 of a mile downgradient of Lake Cochituate. Based on the 1992 report prepared by S E A, the Zone III area encompasses the majority of the Cochituate watershed, a total of approximately 25 square miles. A watershed of this size has the potential to yield large quantities of water. Using a conservative estimate of 12 inches of annual recharge, the total watershed yield would exceed 10 million gallons of water per day. In addition, the watershed supporting flow in the Sudbury River upstream of the oxbow at the Wayland town line is approximately 106 square miles, further demonstrating the ability of the watershed to support the proposed withdrawal.

Much of the Lake Cochituate watershed has been developed, and recharge has been impacted by the presence of a significant amount of residential, commercial, and industrial development. Much of the stormwater is conveyed to Lake Cochituate, thus providing a significant quantity of

recharge to the lake. However, the nature of this development has the potential to adversely impact the water quality of the lake, and therefore the Birch Road Well Site.

2.3 Interpreted Aquifer Hydrogeology

The highly productive portion of the aquifer follows an axis from Lake Cochituate northward along the eastern portion of the project site in the vicinity of S E A-8 and TW-4. From this point, the coarse aquifer deposits trend to the northwest, tapering off toward the Sudbury River. The aquifer deposits in this area are generally 70 feet or greater below ground surface.

There exists a northward trending stream channel along the eastern side of the well site. The location of S E A-8 represents the high-velocity outside of the ancient glacial stream channel. The locations marked by the line between 3-90 and S E A-4 and westward represent the lower velocity inside of the channel. The aquifer deposits in this vicinity are somewhat less coarse than those at S E A-8, yet are still highly productive.

According to the US Geological Survey (Nelson, 1974), the soils in the vicinity of the site are deltaic deposits of the Cochituate stage of glacial Lake Charles. They were likely graded from existing deposits during a period of transition following the East Natick stage when the level of Lake Charles rapidly declined by approximately 10 feet. These deposits consist of well sorted sands and gravel; the exception being those areas of lake-bottom deposits to the northeast, which consist of interbedded fine sand and silt.

Bedrock beneath the site is illustrated on the USGS Bedrock Geologic Map of the Framingham Quadrangle (Nelson, 1975). The bedrock underlying the site is described as the Cherry Brook formation. Nelson describes this formation as potentially pre-Cambrian in age. The local texture is granular and blocky as observed at the nearby outcropping. Bedrock was not cored beneath the project site to confirm the published information. Refusal was encountered at less than 6 feet at the location of S E A-6 (no well installed) and greater than 120 feet below grade at S E A-9.

Two discrepancies between the site specific geologic conditions and the USGS mapping were noted during this investigation. The first discrepancy is the presence of lake-bottom deposits immediately east of the project site, as observed at S E A-2 and S E A-3. These deposits are

distinct from those observed at S E A-8 and the other monitoring wells installed for this project. While the drillers log for S E A-2 describes fine sand and gravel, the log for S E A-3 describes a thick deposit of silty fine sand interlaced with layers of clay.

The second discrepancy noted was the presence of bedrock rising to very shallow depth 300-400 feet north of TW-4, emerging as outcropping on the former New England Sand & Gravel property. The outcropping has been extensively worked by the gravel operation and rock excavation continued until the spring of 2006. This bedrock high does not appear on the USGS Bedrock map for the Framingham Quad.

These discrepancies are of considerable importance to evaluating the potential impact of water withdrawals at the project site. These features represent hydrogeologic boundary conditions and suggest that the area of influence will not extend to the north and east.

Lake Cochituate and Dudley Pond have been reported to serve as recharge boundaries for the aquifer (S E A, 1992). However, the presence of silt to the east makes it highly unlikely that Dudley Pond, which is located 2,000 feet east has a direct hydrogeologic connection with the project site. Additionally, the elevation of Dudley Pond is approximately 141.07 feet msl while the elevation of Lake Cochituate is 134.51 feet msl. This differential occurs over the distance of 600 feet. Given the highly permeable nature of the geologic materials underlaying Lake Cochituate and within the Birch Road well site, it is likely that Dudley Pond is underlain by a low-permeability silt layer that restricts recharge to the aquifer.

3. PROLONGED PUMPING TEST

3.1 Introduction

A prolonged pumping test was performed at the site in accordance with the New Source Approval process delineated in the *1996 Guidelines and Policies for Public Water Systems* (*Guidelines*), and verbal communication with MassDEP's Drinking Water Program. This section describes the prolonged pumping test procedures, as defined in Section 4.2.1.IV of the *Guidelines.*

3.2 Prolonged Pumping Test Design

The pumping test design was submitted in November 2005 and approved by MassDEP on February 8, 2006. The observation wells, discharge location, ambient well, test duration, water level measurements and water quality sampling items were also approved by the MassDEP prior to commencement of the test. The MassDEP approvals and correspondence are provided in Appendix A.

Prior to the commencement of the pumping test, S E A manually installed 11 shallow piezometers and six (6) stream gauges for the purpose of monitoring the impact of pumping on the surrounding receptors. The piezometers (0.75-inch diameter) consist of a 12-inch long wire-wound stainless well screen coupled to steel riser pipe. The piezometers were installed with a slide hammer to a depth of between three to eight feet below grade. The stream gauges were installed to measure surface water response to the pump test. The effect of pumping on streamflow and water levels is discussed in Section 7. The locations of piezometers and stream gauges are shown on Figure 3-1.

The prolonged pumping test was conducted from April 26, 2006 until May 8, 2006. Water level readings were collected from a network of twenty-three (23) observation wells, eleven (11) piezometers, and six surface water staff gauges. The observation locations are shown below on Figure 3-1. Water quality samples were collected in accordance with the schedule approved in the Request for Pumping Test Approval. Water quality is discussed further in Section 6.

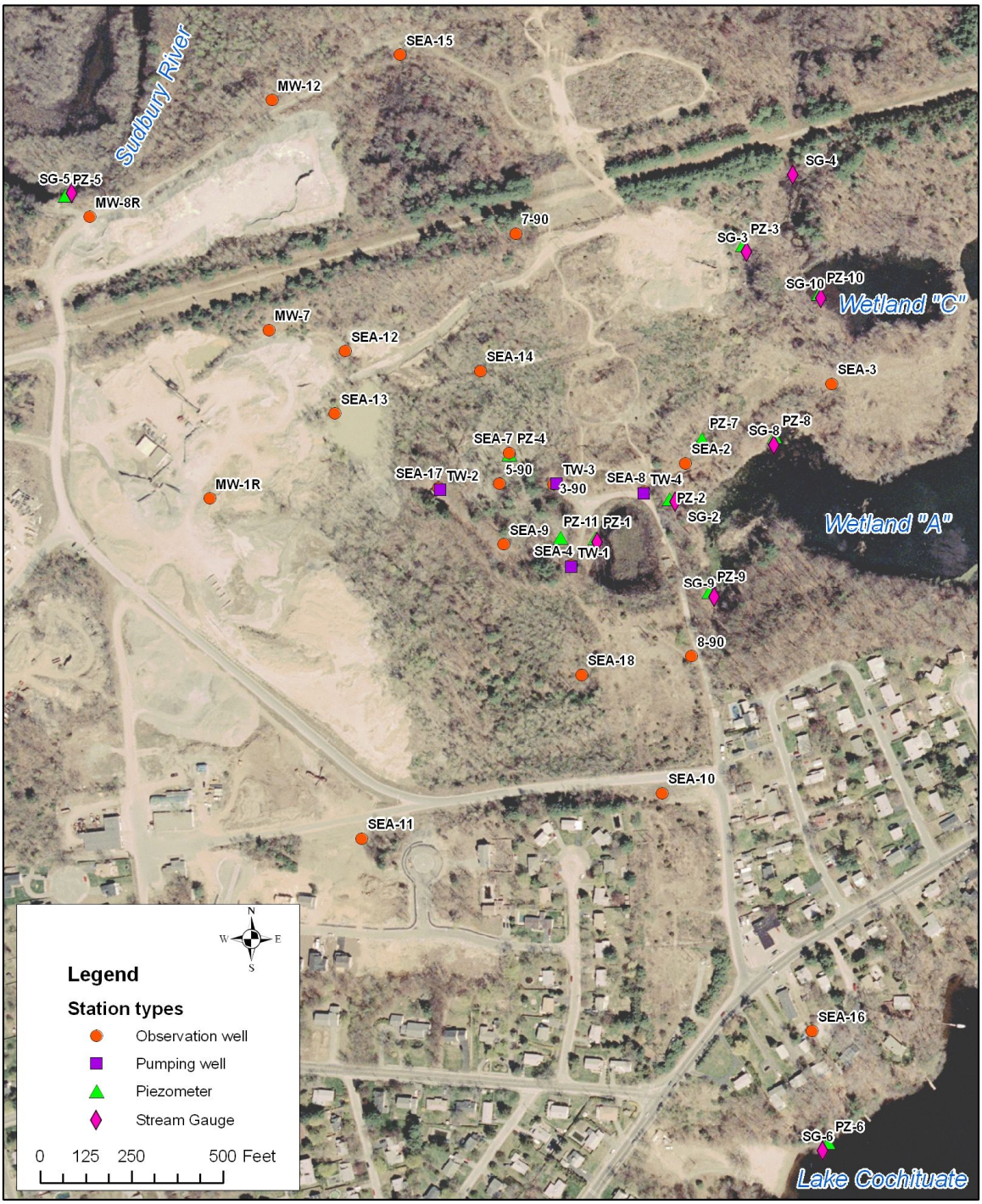


Figure 3-1: Pump Test Monitoring Location Map

* Note each pumping well also has an associated 2-foot offset observation well not shown on this map

The observation data was compiled and visualized using computer software designed specifically for environmental data with spatial distribution. The observations were analyzed individually to determine the characteristics of the aquifer in the vicinity of the monitoring wells. The remainder of Section 3 describes the pumping test results in detail. Additional data from other sources was used to characterize the aquifer in the extents of the area of study. As described in Section 4, a ground water model of the study area was developed and calibrated using the compiled data. Finally, the model was set up to run various predictive scenarios, as described in Section 5.

3.3 Prolonged Pumping Test Performance

For the pumping test, pumps were installed at each of the four test wells (wells TW-1, TW-2, TW-3 and TW-4), and set up to run initially at a combined rate of approximately 2,000 gallons per minute (gpm). The prolonged pumping test commenced on April 26, 2006 and ended on May 8, 2006. Pumping rates and stabilization criteria are described further below in Section 3.3.2

Twenty-three (23) observation wells, eleven (11) piezometers and six (6) stream gauges were monitored for water level during the duration of the pump test. Electronic data loggers (In-Situ Level-Troll 700) were placed in seventeen (17) observation wells and the four test wells and programmed to record data on a logarithmic schedule during pumping and recovery; starting with an interval of 0.3 seconds and progressing to a maximum of 120 minutes between readings. The data loggers are vented to compensate for barometric pressure variation and the data logger clocks were synchronized before deployment.

Manual readings at the pumping wells and the remaining observation wells were made prior to the test, after 60 seconds, and then following the schedule below:

- every minute from 0 to 10 minutes elapsed,
- every 10 minutes from 10 minutes to 2 hours elapsed,
- every hour from 2 hours to 12 hours elapsed,
- every two hours from 12 hours to 24 hours elapsed,
- every four hours from 24 hours to 48 hours elapsed,
- Every 12 hours from 48 hours to 144 hours elapsed,
- Every 24 hours from 144 hours until the end of the test (289 hours).

Manual data from the remaining six observation wells and at each of the wells containing data loggers was also collected periodically to verify the electronic data. Precipitation and ambient groundwater readings were collected as described below in Section 3.3.1.

Pumping rates were recorded generally once every two to three hours. Piezometers and stream gauges were manually monitored twice daily for the first three days and daily for the remainder of the test. The piezometers and stream gauges closer to the pumping wells were monitored more frequently. The drawdown data for the observation and pumping wells are provided in Appendix E.

The water quality of the pumping wells was analyzed during the pumping test for secondary contaminants and field parameters (pH, temperature, specific conductance, dissolved oxygen, and carbon dioxide). Testing for total coliform was performed midway through the test and at the end of the test. Other analyses (volatile organic compounds, radionuclides, inorganic compounds, and perchlorate) were collected at the end of the test. All sampling was conducted according to the schedule approved in the *Request for Pumping Test Approval*. Results of the water quality testing are presented in Section 6.

3.3.1 Precipitation and Ambient Groundwater Monitoring

A rain gauge was installed at the site prior to the pump test for the purpose of monitoring precipitation prior to and during the test. Additionally, daily precipitation records were obtained from the nearest independent weather station recording daily rainfall (Garden in the Woods, Framingham).

Static water level trends were recorded from USGS Well WKW2-Wayland starting 13 days prior to the pump test, as shown on Figure 3-2 below. During the pump test it was determined that this well was, in fact, too close to Lake Cochituate and reflected the lake level more than ambient aquifer conditions. Upon discussions with MassDEP personnel, the decision was made to identify S E A-15 as the ambient well for the purpose of the pump test.

S E A-15 is located approximately 1,200 feet north of the project site. It is isolated from the pumping wells by the bedrock outcrop on the New England Sand and Gravel site. Given the location and distance of S E A-15 downgradient from the test wells, coupled with the

hydrogeologic boundaries the outcrops represent, this well was judged to be representative of ambient groundwater. The data shows that this well exhibited an overall decline in water level of 0.38 feet during the period of the pump test. This followed a decline of 0.04 feet in the approximately 22 hours prior to the start of pumping. The data for S E A-15 is shown on Figure 3-3.

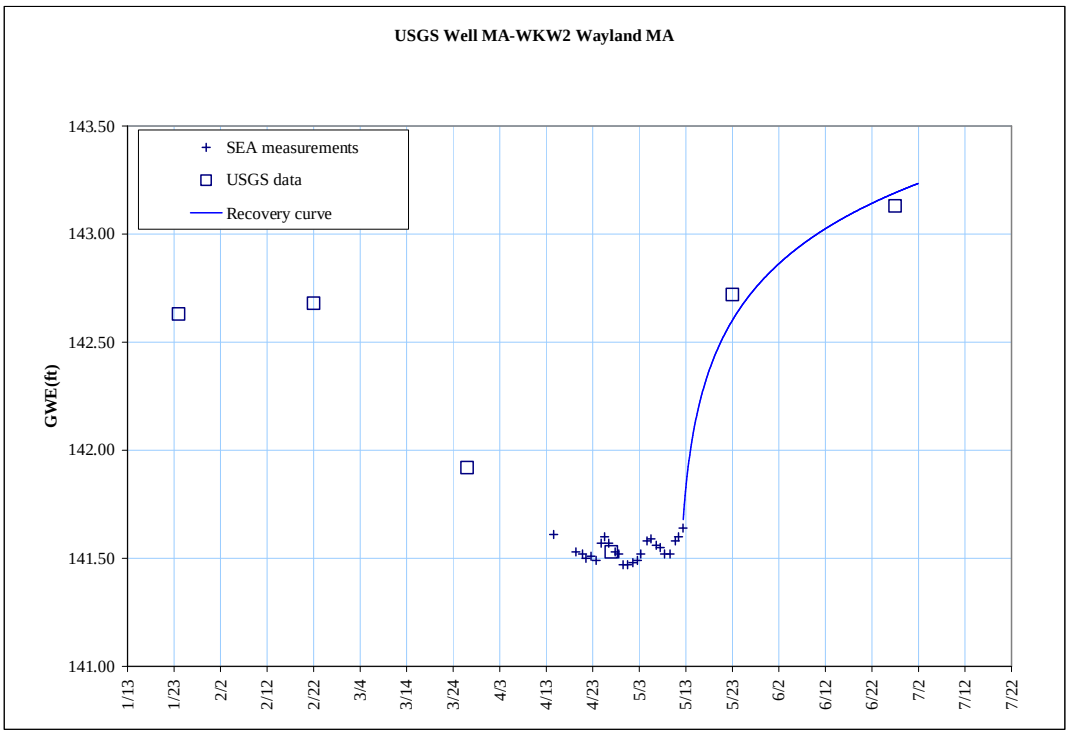


Figure 3-2: USGS Wayland well data

This rate of decline was generally consistent throughout the pump test, with the exception of the period from May 2 through May 4, 2006 during which the ambient well exhibited a rise in groundwater elevation of 0.13 feet in response to a precipitation event on May 2nd of approximately 0.88 inches. The aquifer resumed its ambient rate of decline of 0.04 feet per day on May 5th and continued at this rate until the onset of heavy rains on May 8th.

A review of available data records suggests that the period prior to the pump test was significantly drier than normal. Immediately following the pump test, an extended period of heavy precipitation began, resulting in severe flooding in several regions of Massachusetts, including Framingham. This weather pattern caused exaggerated aquifer responses, and complicated the analysis of the pumping test data.

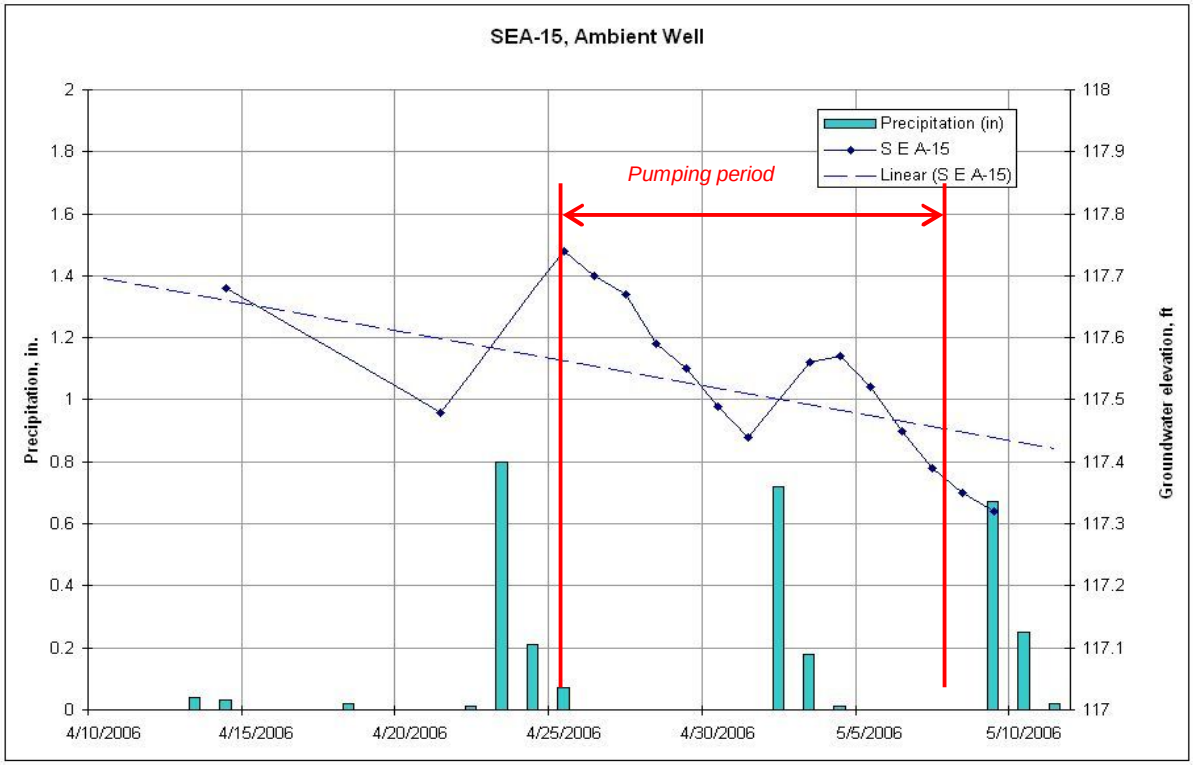


Figure 3-3: Data for Ambient Well, S E A-15

Figure 3-4 below displays data from various ambient reference measurement points. These are stations which were outside of the zone of influence of the pumping test. The data shows declining stage in the Sudbury River for several days prior to the test start. Most dramatically, Figure 3-4 shows the flow in the Sudbury River prior to the test was about 40% below the statistical mean flow for the 25-year period of record; while soon after the test, the flow jumps to between 2 to 5 times the statistical mean.

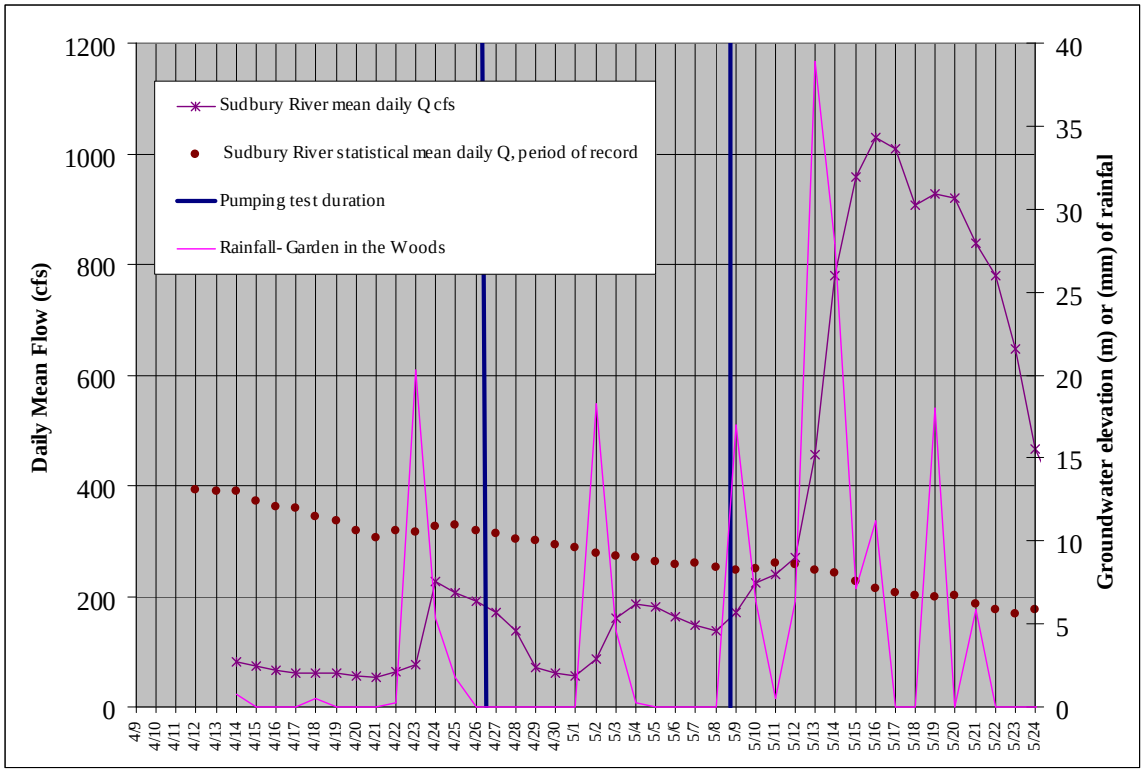


Figure 3-4: Ambient Flow in Sudbury River Prior to, During, and After Pumping Test

USGS's analysis of the Wayland Well (MA-WKW2), shown below in Figure 3-6, illustrates that the ambient groundwater levels prior to and during the pumping test were in the 10th percentile for the 41-year period of record for the month of April. Within two weeks of the end of the test, levels had jumped to the 75th percentile for the period of record for the month of May.

Furthermore, the more detailed USGS record for the Norfolk MA groundwater well (MA-NNW-27) shown in Figure 3-5, part of the USGS Groundwater Watch network, also illustrates the rapid change from drier-than normal to wetter than normal conditions between the last week of April and the first week of May 2006, coinciding with the pumping test period:

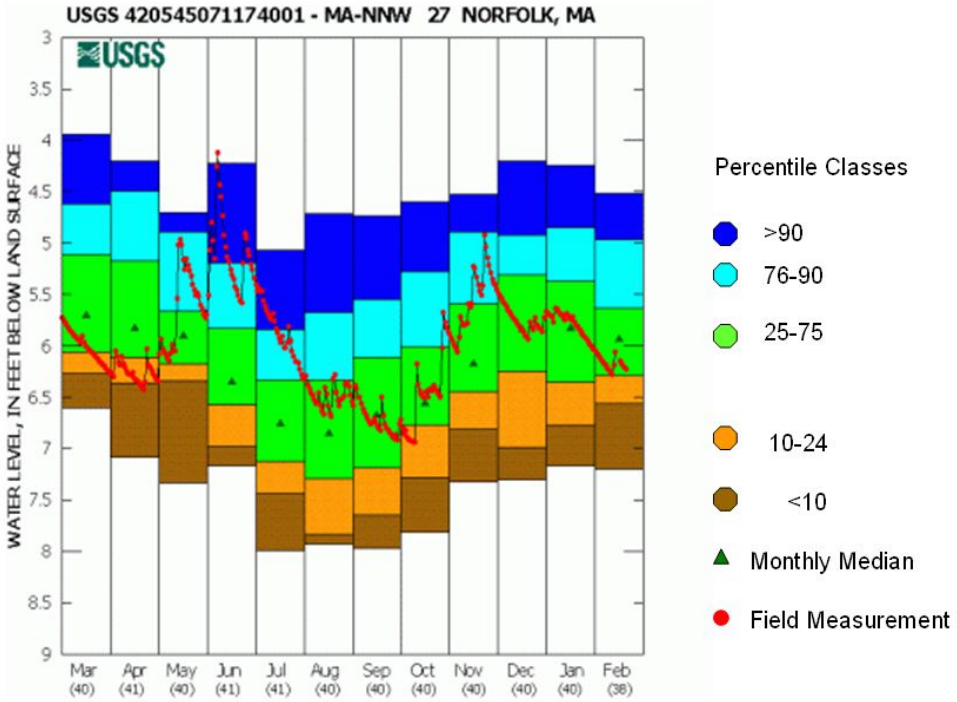


Figure 3-5: USGS Statistical Analyses for NNW27

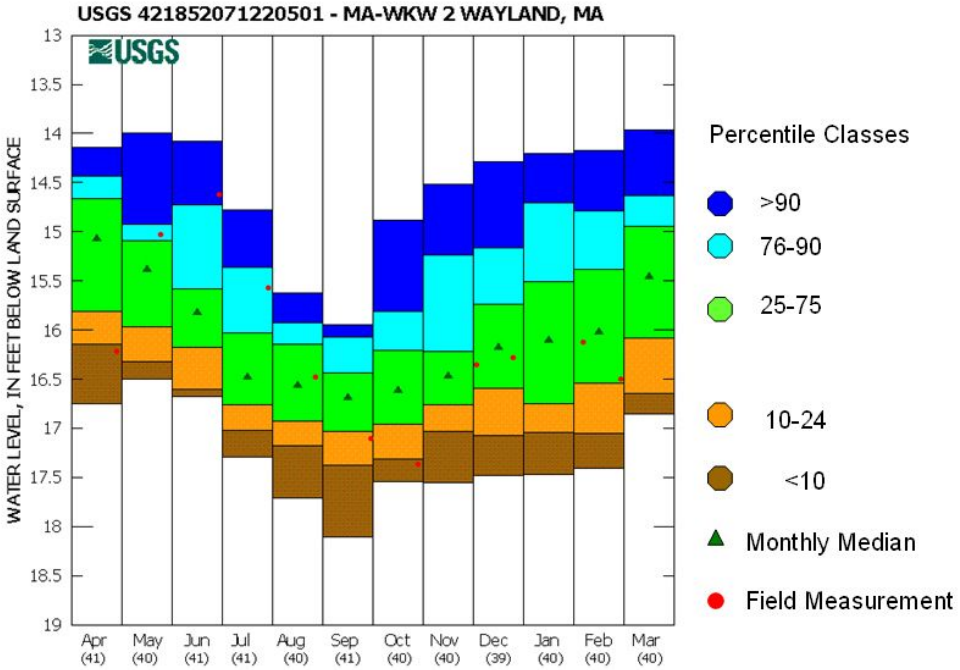


Figure 3-6: USGS Statistical Analyses for WKW2

3.3.2 Pumping and Stabilization

The pump test commenced at 12:05 pm on April 26, 2006 and ended at 13:20 on May 8, 2006. During pumping, the four test wells discharged into an 18,000 gallon holding tank, where individual flow rates were calculated using calibrated orifice weirs. From this tank, water was pumped via a single 12-inch discharge line approximately 2,000 feet south to a surface water discharge located 50 feet offshore of the north end of Lake Cochituate.

The test was initiated at a combined rate of 2,000 gpm. The final combined pumping rate was 1580 gpm. As the pump test progressed, the pumping rate was reduced on several occasions. On April 30th, the rate was reduced to 1,900 gpm; on May 1st to 1,630 gpm; then to a final combined rate of 1,580 gpm on May 2nd. Table 3-1 displays the average pumping rates for each well during the pumping test.

Table 3-1: Average Pumping rates (in GPM) during pumping test

T (days)	TW-1	TW-2	TW-3	TW-4	Combined
4/26/06	400	400	390	810	2000
4/30/06	400	350	390	810	1950
5/1/06	350	300	350	690	1690
5/2/06	300	290	300	690	1580
5/8/06	pumping terminated				

A brief shut down of TW-4 occurred at approximately 11:35 on April 27th to repair the electric circuits to the pumps, which had failed due to overheating. The shut down lasted for approximately 90 minutes and had no effect on the pumping test.

3.3.3 Stabilization

An alternate stabilization criterion was used at this site. Due to antecedent lack of precipitation, the water level in the pumping wells declined at a rate of 2 - 3 inches per day after the initial period of the pumping test. After prolonged discussion with MassDEP, it was determined that it would be appropriate to evaluate the stabilization based on an extrapolation of the drawdown observed at the offset wells out to 180 days of pumping. Projected drawdown as observed at the offset wells was compared with the calculated available water at each well (Table 2-2). This analysis is presented graphically in Figure 3-7 and Table 3-2 below. It is evident that the site can readily support the withdrawal of 4.3 million gallons per day. The MassDEP criterion for

well stabilization was achieved by 8:00 pm on May 7th, and the decision was made to terminate the test the following day.

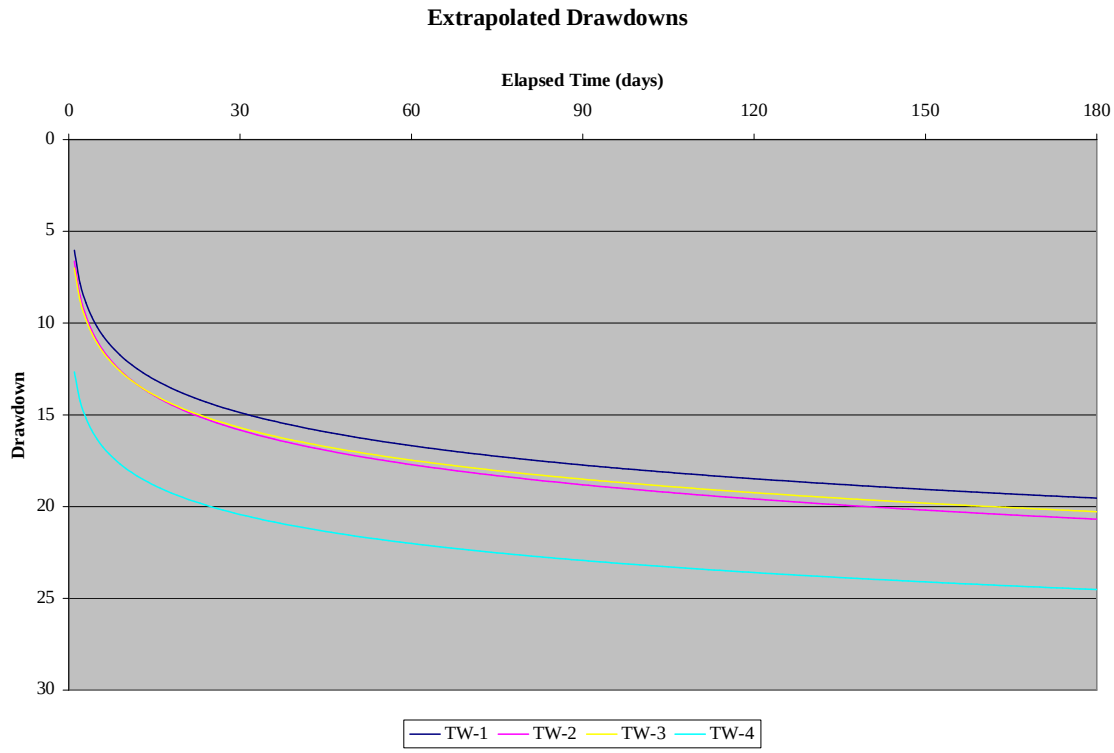


Figure 3-7: Offset Wells

Table 3-2: 180-Day Projected Drawdown

Location	Available Water	Projected Drawdown	Residual Above Screen
TW-1	40	19.54	20.46
TW-2	35	20.69	14.31
TW-3	35	20.28	14.72
TW-4	40	24.52	15.48

Groundwater contour maps were generated for pre- and post-pumping conditions. The contour maps are provided in Appendix B.

3.3.4 Recovery Readings

On May 8th, the final water quality samples were collected, the data loggers were re-programmed for recovery readings, and the pumps were shut off at 13:22. After the pumping test, and until May 17 of 2006, recovery data was collected both manually and automatically via level loggers.

Recovery readings were recorded for each observation well and pumping well using the same schedule as for drawdown readings. The recovery data are included in Appendix E. However, due to the excessively heavy rainfall that began immediately following the termination of the pump test, this data must be view with skepticism.

3.3.5 Analysis of Aquifer Parameters

The drawdown data collected during the pumping test was analyzed using AquiferTest Pro from Waterloo Hydrogeologic Inc. The software enables the user to input well design characteristics such as well depth, screened interval, distance of the observation point from the pumping wells, production well pumping rate, etc. Depending on the analytical solution specified by the user, the software will calculate one or more of the following aquifer properties: transmissivity, hydraulic conductivity, storativity, and specific yield.

AquiferTest© allows the user to visualize the data in a “diagnosis graph” window, where the observed time-drawdown data and its first derivative are displayed. The user can identify whether the data follows a “normal” trend for a confined aquifer, or if it follows the typical trend of a barrier boundary, leaky aquifer, double porosity, or well effects.

The recorded drawdown data for the pumping wells and for the monitoring wells enabled a classification of the wells that showed more drawdown versus the ones that were less affected by the pumping test. As expected that the most drawdown occurred at the pumping wells and offset wells. Figure 3-8 depicts the monitoring and pumping wells ranked by drawdown. The wells started showing drawdown at different times; wells located far from the pumping wells ‘noticed’ the effect of the pumping later than wells located nearby. Table 3-3 lists the wells and their observed drawdown during the pumping period.

Table 3-3: Observed Drawdown During Pumping Test

Well	Total drawdown (ft)
TW-1	21.0
TW-2	22.7
TW-3	17.9
TW-4	17.4
S E A-4	12.3
S E A-7	11.2
S E A-9	10.5
S E A-2	9.2
S E A-8	18.7
SEA-18	7.9
S E A-3	0.9
S E A-10	6.1
S E A-13	7.8
S E A-14	1.3

Well	Total drawdown (ft)
S E A-16	3.1
8-90	7.3
S E A-17	13.2
3-90	13.2
5-90	11.1
MW-7	1.5
7-90	1.1
MW-12	0.3
MW-1R	5.3
MW-8R	0.5
S E A-11	2.5
S E A-12	1.4
S E A-15	0.3

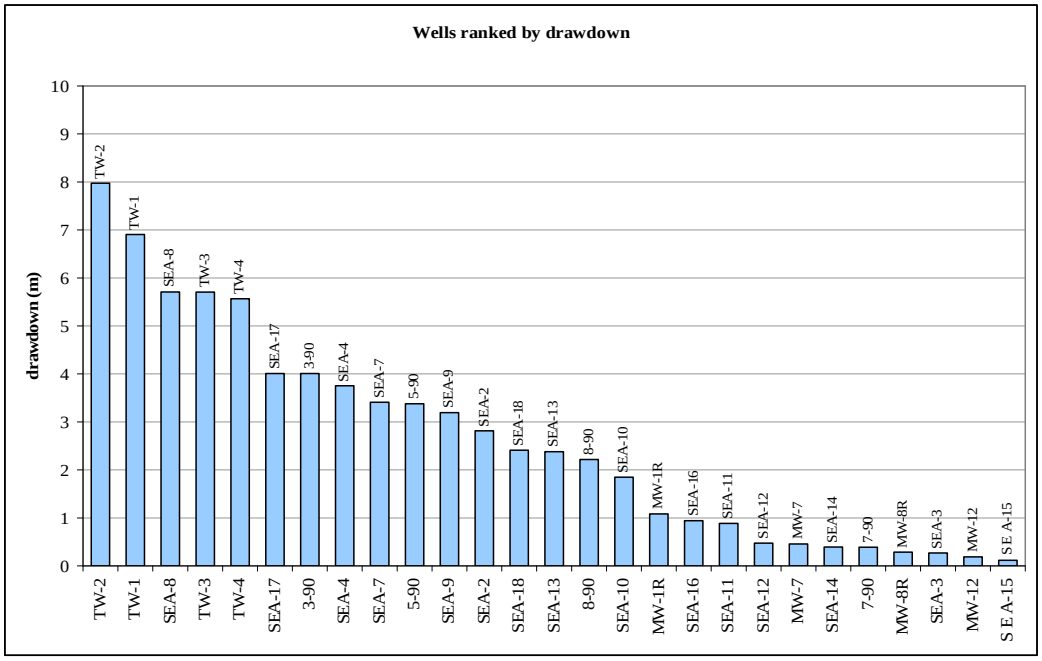


Figure 3-8: Wells ranked by drawdown

Some of the observed drawdown patterns are atypical. As seen in Figure 3-9, most wells appear to indicate trends characteristic first of a recharge boundary, followed at a later time by a "barrier boundary" condition. The diagnosis graph for S E A-17 in Figure 3-10, for example, clearly depicts an initial recharge boundary followed by what could be interpreted as a barrier boundary. Other wells had drawdown data that did not clearly follow a typical pattern.

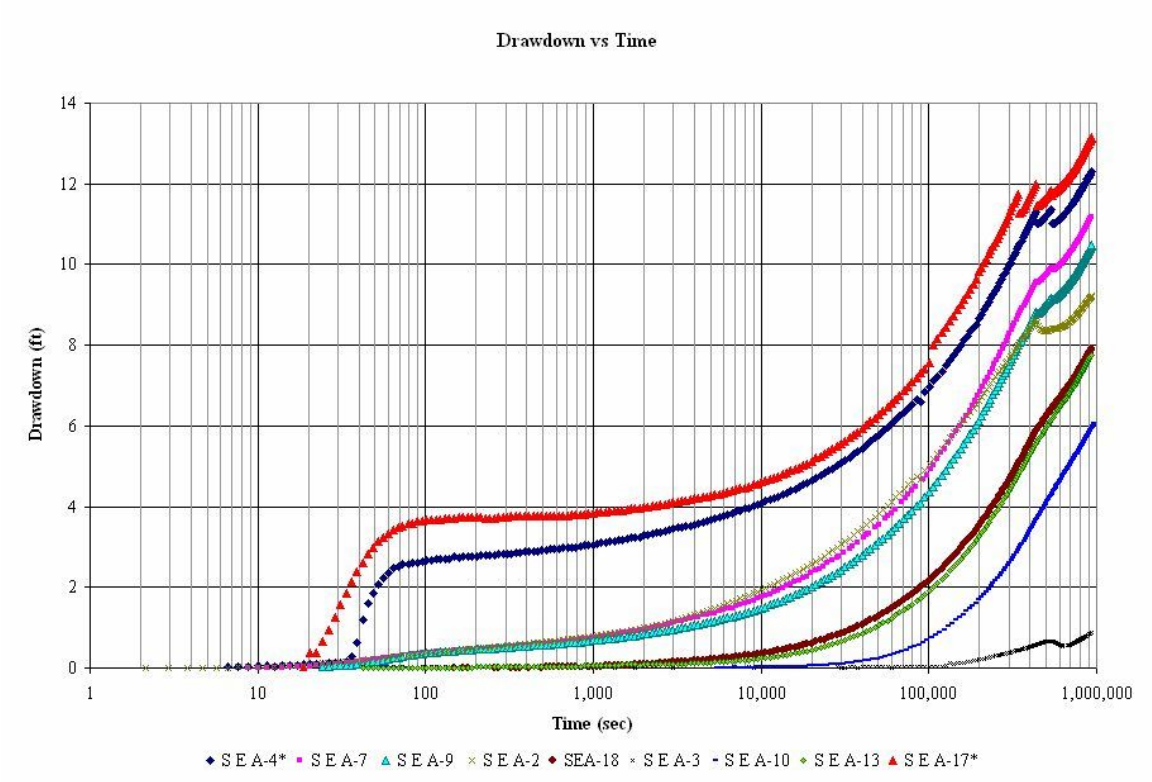


Figure 3-9: Drawdown vs. time for select monitoring wells.

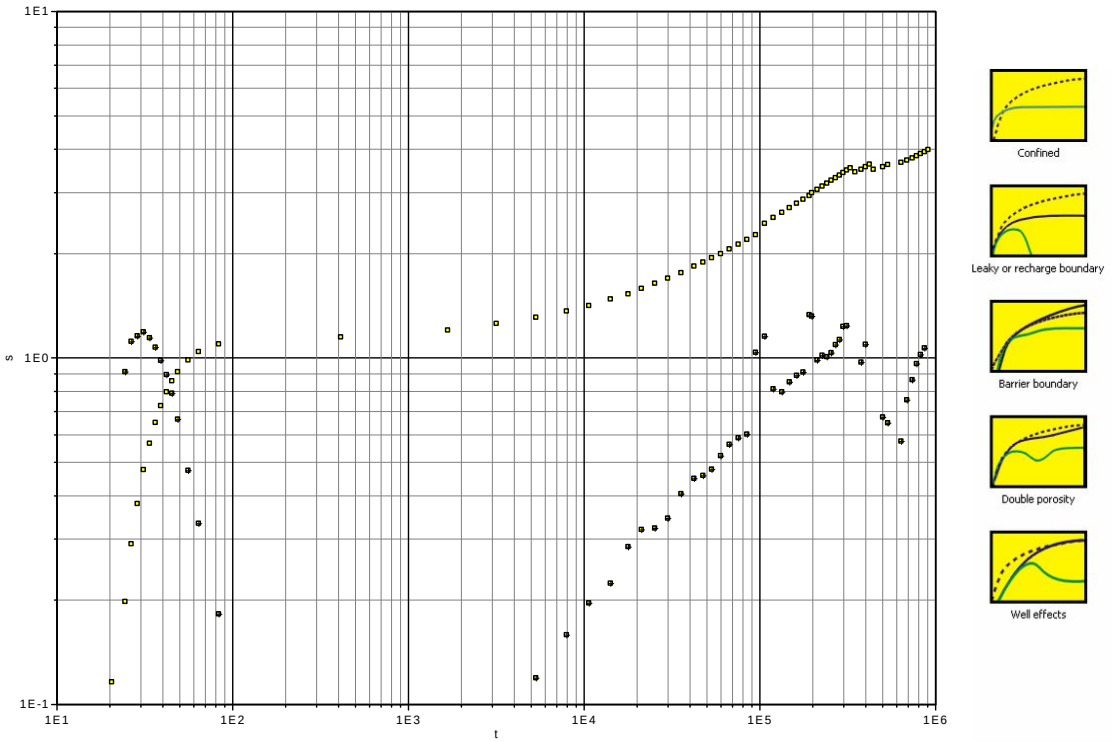


Figure 3-10: The observed drawdown at S E A-17 indicates the presence of a recharge boundary followed by a barrier boundary. (t = seconds)

To solve the problem, the first approach was to analyze the data using the Neuman equation, which is appropriate under the hypothesis of unconfined, anisotropic aquifer, of infinite extent, with varying pumping rates, and partially penetration wells. Table 3-4 shows the results obtained with this approach. Details of each curve fitting are presented in Appendix F. The thickness of the aquifer was set as 98 feet (30 meters). Only wells with significant drawdown (more than 1.3 feet) were analyzed.

Table 3-4: Aquifer values obtained fitting the Neuman equation, with four pumping wells

Well	Distance from Pumping Wells (ft)	T [ft²/d]	K [ft/d]	Sy	Kv/Kh	Sy/S	S
SEA-8	TW-4 Offset	8.50E+03	8.63E+01	5.00E-01	1.00E+00	6.50E+01	7.69E-03
SEA-17	TW-2 Offset	1.50E+05	1.52E+02	8.00E-02	1.00E+00	1.00E+01	8.00E-03
3-90	TW-3 Offset	1.11E+04	1.13E+02	1.98E-01	1.00E+00	1.00E+01	1.98E-02
SEA-4	TW-1 Offset	1.70E+04	1.73E+02	8.00E-02	1.00E+00	1.00E+01	8.00E-03
5-90	156' from TW-3	7.50E+03	7.62E+01	1.20E-01	3.50E-01	1.50E+02	8.00E-04
SEA-9	194.5' from TW-1	6.43E+03	6.54E+01	1.47E-01	2.24E-01	1.00E+01	1.47E-02
SEA-2	141' from TW-4	1.20E+05	1.22E+02	5.50E-02	2.50E-01	1.00E+02	5.50E-04
SEA-18	298' from TW-1	6.07E+03	6.17E+01	1.03E-01	1.08E-01	1.00E-01	1.03E+00
8-90	412' from TW-1	6.30E+03	6.40E+01	6.52E-02	2.21E-02	1.00E+01	6.52E-03
MW-1R	630' from TW-2	5.00E+03	5.08E+01	6.00E-02	1.00E+00	1.00E+02	6.00E-04
SEA-16	1429' from TW-1	1.20E+04	1.22E+02	4.00E-02	5.00E-02	1.00E+02	4.00E-04
SEA-11	934' from TW-1	7.00E+03	7.11E+01	1.20E-01	1.00E+00	1.00E+02	1.20E-03
MW-7	640' from TW-2	2.00E+04	2.03E+02	2.50E-01	5.00E-01	1.00E+02	2.50E-03
Max		1.50E+05	2.03E+02	5.00E-01	1.00E+00	1.50E+02	1.03E+00
Min		5.00E+03	5.08E+01	4.00E-02	2.21E-02	1.00E-01	4.00E-04

T: Transmissivity K: Conductivity Sy: Specific yield

Kv/Kh: Vertical/horizontal conductivity ratio Sy/S: Specific yield/Storativity ratio

S: Storativity

The drawdown of the water table at monitoring wells located >1,000 feet from the pumping wells was analyzed considering a single pumping well ("*virtual well*"). The *virtual well* was assigned a pumping rate equal to the total amount of the four pumping wells. Its location was assigned at the geometric center of the four pumping wells, using their pumping rates as weights. Therefore, this well was located slightly towards TW-4, since that well pumped at a higher rate than the other three.

With one pumping well, the software allowed the analysis of the drawdown under the hypotheses of both recharge and barrier boundary conditions. However, this approach was deemed to be acceptable only for wells located far from the pumping wells: S E A-16 and S E A-11. The water table at those two wells showed significant drawdown. Table 3-5 presents the results

obtained with this approach, using the Neuman equation, and considering an aquifer thickness of 30 m. Details of each curve fitting are presented in Appendix F.

Table 3-5: Aquifer Parameter values obtained fitting the Neuman equation, with one "virtual" pumping well, and with hypotheses of recharge and barrier boundaries

Well	Aq. Extent	T [ft²/d]	K [ft/d]	Sy	Kv/Kh	Sy/S	S
SEA-11	Barrier Bound.	4.15E+03	4.22E+01	1.15E-01	9.28E-01	1.00E+01	3.43E-02
SEA-11	Recharge Bound	6.36E+03	6.46E+01	1.18E-01	1.00E+00	1.00E+01	3.43E-02
SEA-16	Barrier Bound.	1.08E+04	1.10E+02	3.68E-02	2.41E-01	1.00E+01	3.43E-02
SEA-16	Recharge Bound	1.14E+04	1.16E+02	3.96E-02	3.72E-02	2.06E+03	3.43E-02
Max		1.14E+04	1.16E+02	1.18E-01	1.00E+00	2.06E+03	3.43E-02
Min		4.15E+03	4.22E+01	3.68E-02	3.72E-02	1.00E+01	3.43E-02

An alternate approach was to use the recovery data for the analysis. AquiferTest© enables the user to perform a recovery data analysis using a combination of the Agarwal and Neuman equations, in case of having one pumping well, therefore, the 'virtual well' approach was applied again in this case. The recovery data of S E A-16 was analyzed as is, but also was modified to adjust for the precipitation registered when the pumping test ended, which was about 19 inches between May 12th and July 1st, 2006. The precipitation-adjusted data in Table 3-6 is listed as "S E A-16b". The data adjustment was done using the data from a USGS well (USGS Well MA-WKW2 in Wayland) located near the site.

To account for recharge due to the precipitation, the recovery data at S E A-16 was adjusted by generating a recovery curve at the USGS well based on the observed groundwater elevation data. The USGS well was distant from the site and was not affected by the pumping test; therefore, the increase in water level elevation was solely due to recharge from precipitation. Figure 3-11 depicts the data recorded at the USGS well, the accompanying recovery curves (recorded and adjusted, for S E A-16), and the precipitation. The adjusted recovery for S E A-16 represents the recovery expected to have if there was no precipitation during that period of time.

The numerical modeling of the aquifer is discussed in detail in Section 4.

Table 3-6: Parameter values obtained fitting the Neuman and Arawall equation to the recovery data, with one pumping well, and with hypotheses of infinite aquifer extent, recharge boundary and barrier boundary

Well	Aq. Extent	T [ft²/d]	K [ft/d]	Sy	Sy/S	S
SEA-16	Infinite	2.73E+03	2.77E+01	2.85E-02	2.46E+03	3.43E-02
SEA-16	Recharge Bound	2.73E+03	2.77E+01	2.85E-02	2.46E+03	3.43E-02
SEA-16	Barrier Bound.	2.73E+03	2.77E+01	2.85E-02	2.46E+03	3.43E-02
SEA-16b	Infinite	2.57E+03	2.61E+01	3.43E-02	1.00E+01	3.43E-02
SEA-16b	Recharge Bound	2.57E+03	2.61E+01	3.43E-02	1.00E+01	3.43E-02
SEA-16b	Barrier Bound.	2.57E+03	2.61E+01	3.43E-02	1.24E+03	3.43E-02
Max		2.73E+03	2.77E+01	3.43E-02	2.46E+03	3.43E-02
Min		2.57E+03	2.61E+01	2.85E-02	1.00E+01	3.43E-02

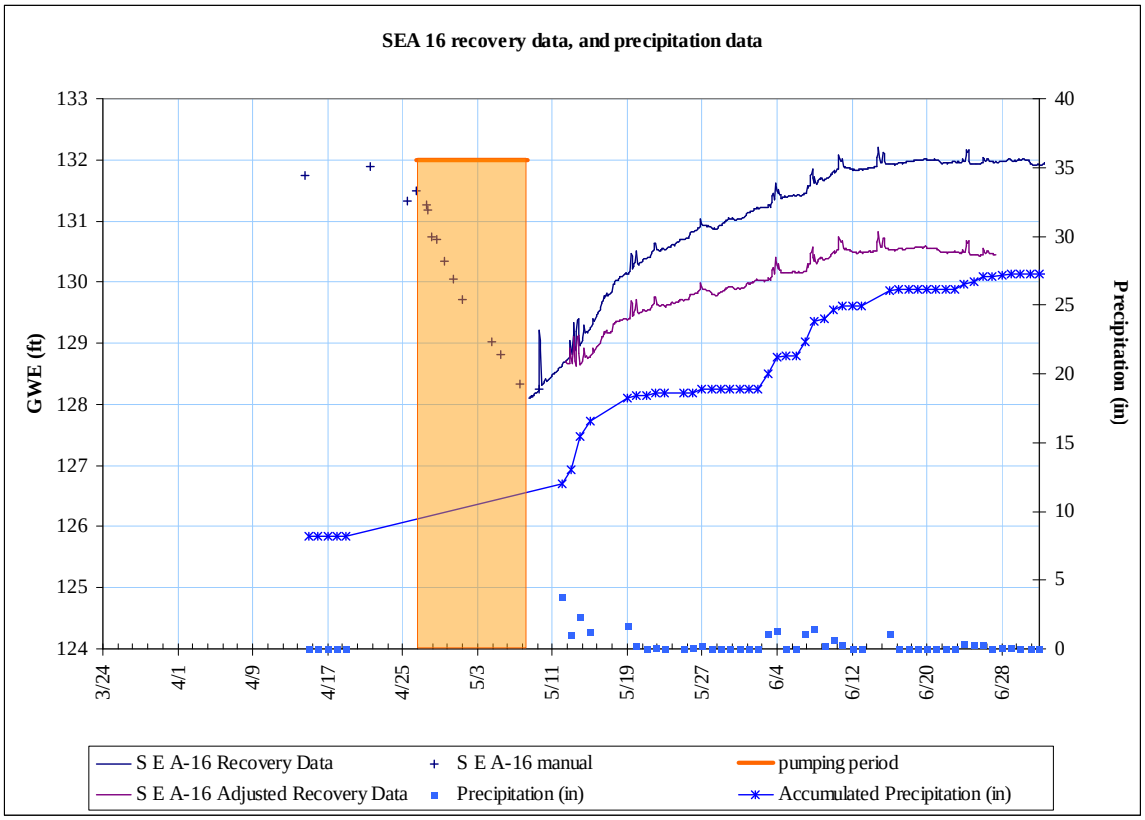


Figure 3-11: S E A-16 Effect of precipitation on the recovery data at S E A-16

4. NUMERICAL AQUIFER MODELING

The ultimate goal of a ground water model is to asses the effect of varying pumping scenarios might have on the aquifer and water bodies within the model domain. During the pumping test the pumping rate varied from 2,000 gallons per minute to 1,580 gpm.

The construction of the groundwater model consisted of defining the model domain (area of study), and determining the parameters that provide results comparable with the observations while maintaining consistency with the known hydrogeologic characteristics of the site. The process of finding the values of the parameters that fit with the observed data is called *model calibration*.

The model was built using Visual MODFLOW 4.2 by Waterloo Hydrogeologic Inc. Visual MODFLOW is a graphical interface on top of MODFLOW, which was developed by the US Geological Survey. MODFLOW is a modular finite-difference flow model used to simulate groundwater flow within aquifers.

The steps necessary to build a groundwater model in Visual MODFLOW are:

1- Determine the model extents and grid size
2- Input surface data (ground surface elevation and bedrock surface elevations)
3- Add boundaries: lakes, ponds, rivers, streams, and others
4- Assign zones and layers and recharge
5- Introduce test wells and monitoring wells
6- Run and calibrate the model

The steps above are iterative, as each step is subject to adjustments to improve model accuracy.

4.1 Model Extents and Grid Size

The extent of the model domain was defined by the known hydrogeologic boundaries in the vicinity of the site. Geographic features such as wetlands (Pod Meadow), rivers (Sudbury River), or lakes (Lake Cochituate and Dudley Pond), were included to the extent feasible within the constraints of the domain.

The first challenge which presented itself was to settle on a model domain with sufficient extent to account for potential interaction with the Wayland water supply wells and the Sudbury River, while maintaining the resolution that would enable a precise calibration of the model with the observed data. The model domain ultimately selected extends from the Sudbury River to the west; Dudley Pond to the east; from Lake Cochituate to the south; and north to the Happy Hollow wells in Wayland. This encompasses an area of approximately 2 km wide (east-west) by 2.3 km long (north-south), or 4.6 square kilometers (1.78 square miles).

MODFLOW allows for refining or coarsening the grid in areas of where more (or less) detail is necessary. The grid size was not constant throughout the Birch Road model. To provide greater resolution within the pump test area the grid was refined in the vicinity of the pumping wells by a factor of two (2). The base grid cells are 27 m wide by 23 m. The refined cells are 14 m wide by 12 m.

4.2 Surface Elevation Data

Surface data was obtained from a digital terrain model shapefile available from Mass GIS. Bedrock surface elevations were calculated via interpolation of depth-to bedrock information two different sources: from the construction of the monitoring and test wells, and from a report by the USGS (*Massachusetts Hydrologic-Data Report No. 23; Hydrologic data of the Lake Cochituate Drainage Basin, Framingham–Natick, Massachusetts; 1981*). The interpolation of the bedrock elevation data was performed using Surfer®, a 3-dimensional data interpolation software. Several interpolation equations were evaluated, the *minimum curvature* equation being the one that provided the most satisfactory results.

Early in the model development process it was observed that, due to the significant variation in surface and bedrock elevations, the model would not converge to a solution. It was determined that there existed several locations where adjacent cells did not overlap in the vertical (*z*) direction. To ensure that the model would converge, the ground surface and bedrock surface elevation data were pre-processed in Excel to ensure that all the cells were horizontally connected, and had a minimum of 5 m of vertical overlap.

The figure below shows a 3-D image of the surfaces defined within the model space.

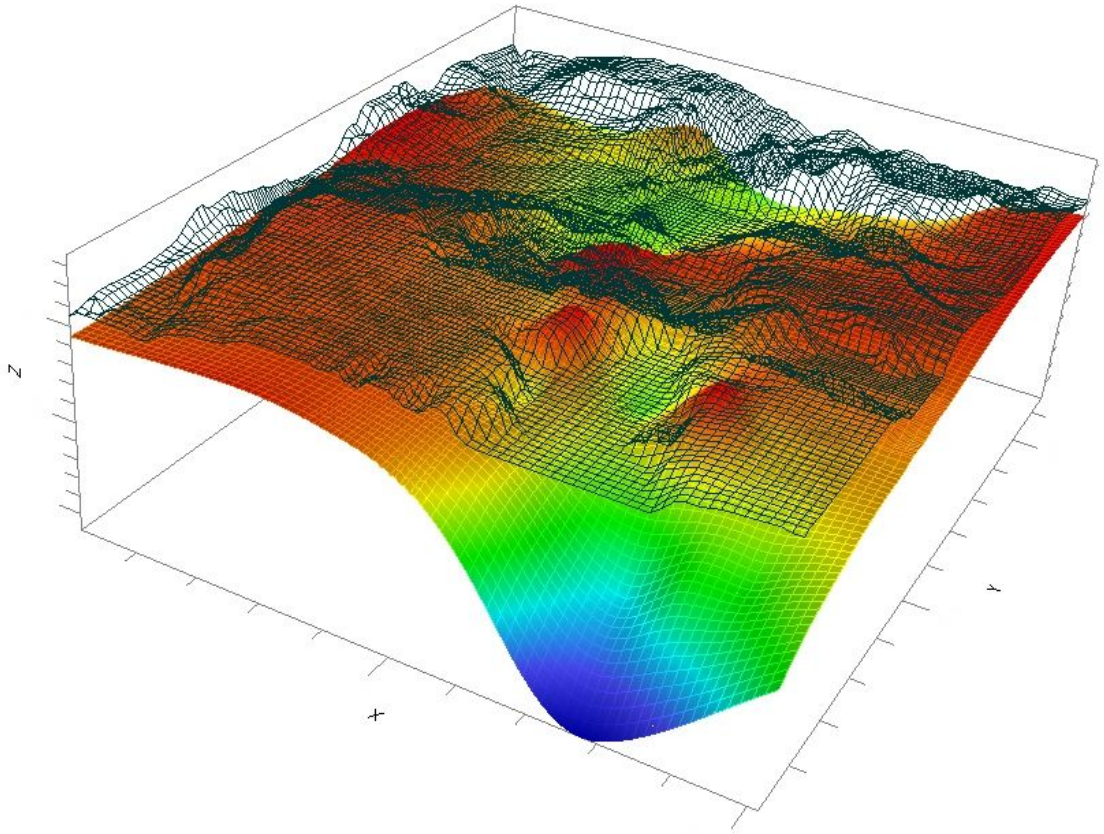


Figure 4-1: Depiction of Top and Bottom Surface within Model Domain (North is parallel to the Y-Axis)

4.3 Boundaries

Rivers, lakes, ponds and wetlands were modeled as "*rivers*" because the river package enables the user to introduce conductance between the feature and the aquifer. The conductance is a parameter representative of the rate at which water enters or leaves the feature via seepage through a layer of sediment. Conductance is calculated as the product of the conductivity (of the sediment layer) times the surface area of the cell, divided by the thickness of the sediment layer. Conductance data was optimized (since it is mostly a conceptual approach) by running the model with different values for the conductance. Best results were obtained systematically with the lowest conductance values. For the first input of conductance data, MODFLOW requires all the parameters to be introduced (length, width, conductivity, and thickness). Then, it calculates the

conductance based on those. If the grid is not homogeneous, the width and length of the cells might change, altering the values of the conductance. The downside of MODFLOW is that conductance is not a parameter that can be readily calibrated (such as conductivity and storativity), and must be changed manually during model calibration.

The boundary features introduced in the model were:

- The Sudbury River, which was divided in four sections (upstream, mid-upstream, mid-downstream, and downstream). The width of the river was estimated from digital imagery of the area at 15 m.
- Lake Cochituate,
- Dudley Pond,
- Wetlands A and C,
- Pod Meadow,
- The stream connecting Wetland C with Pod Meadow.

The conductance values are presented in Table 4-1 and the location of these features is depicted on Figure 4-2 below.

Table 4-1: Conductance Values for the River Features

River Boundary	Conductance (m^2/s)
Sudbury River	0.001
Pod Meadow	0.0001
Dudley Pond	1E-15*
Lake Cochituate	1E-14*
Wetland A	0.001
Wetland C	0.001
Stream	0.001

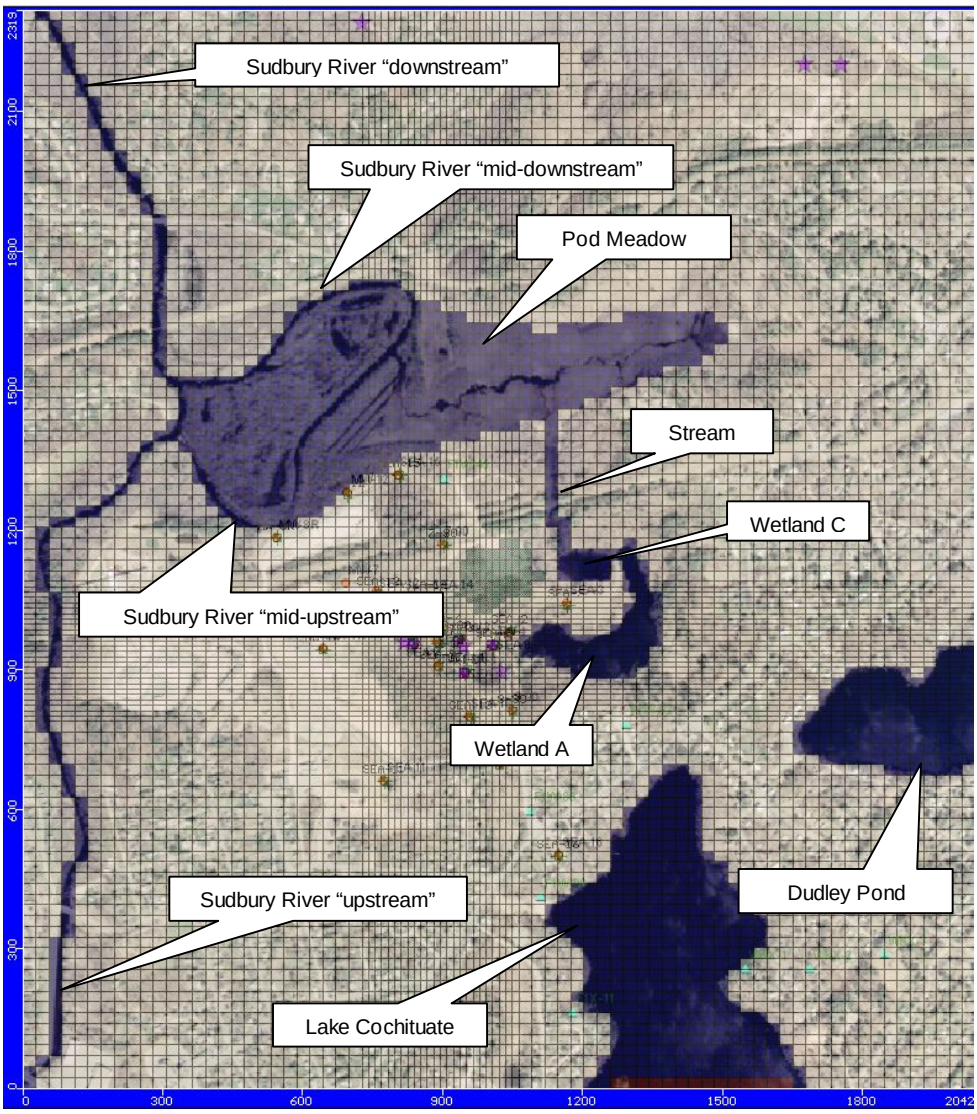


Figure 4-2: Model Defined "River" Features

A constant head boundary was assigned to the southern limit of Lake Cochituate within the model domain. The purpose was to simulate the significant extent of Lake Cochituate not located within the model.

4.4 Zones, Layers and Recharge

Defining the number of necessary layers (to simulate vertical heterogeneity) and the necessary zones (planar heterogeneity) is an iterative process. Several models were defined and optimized, however, it was determined that a simple one-layer model provided best results. It is important to keep in mind that as the number of layers and zones increases, so does the number of variables

that need to be determined, since each zone per layer is defined by its conductivity on the three directions (K_x, K_y, K_z), its specific storage (Ss), its specific yield (Sy), and its porosity (n).

After several configurations were evaluated, the one that resulted in the greatest consistency with the observed data is a single layer model with five (5) zones of conductivity, as shown in Figure 3: A cross-section through the model is presented in Figure 4-4.

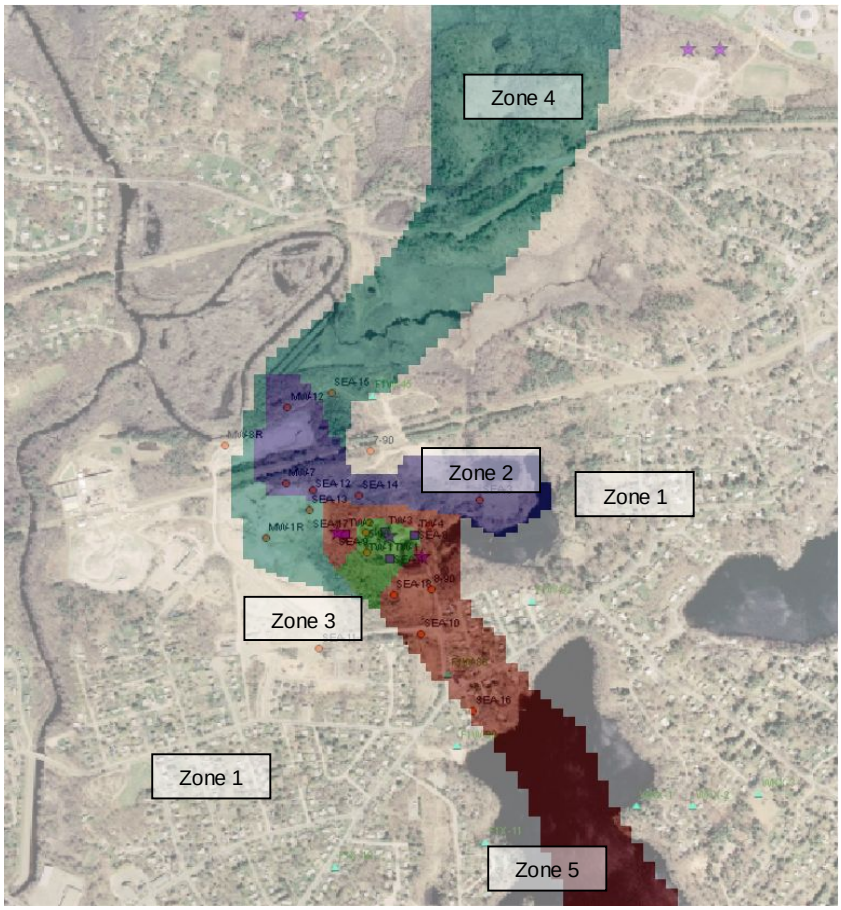


Figure 4-3: Zones in the model

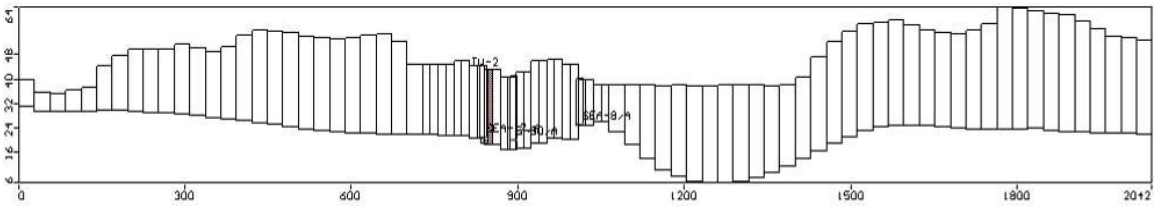


Figure 4-4: Model Cross-Section

The recharge was assumed to be uniform throughout the model space. Precipitation data during the simulation time was obtained from a precipitation station located within the town of Framingham (Garden in the Woods). The precipitation data was adjusted to account for evapotranspiration by adjusting the recorded amounts by 60 percent.

4.5 Wells

The test wells and monitoring wells were added to the model. In addition to the coordinates of each well, it was necessary to input the diameter, top and bottom elevations of the screen and the pumping rates for the test wells; and the time vs. groundwater elevation data for the monitoring wells.

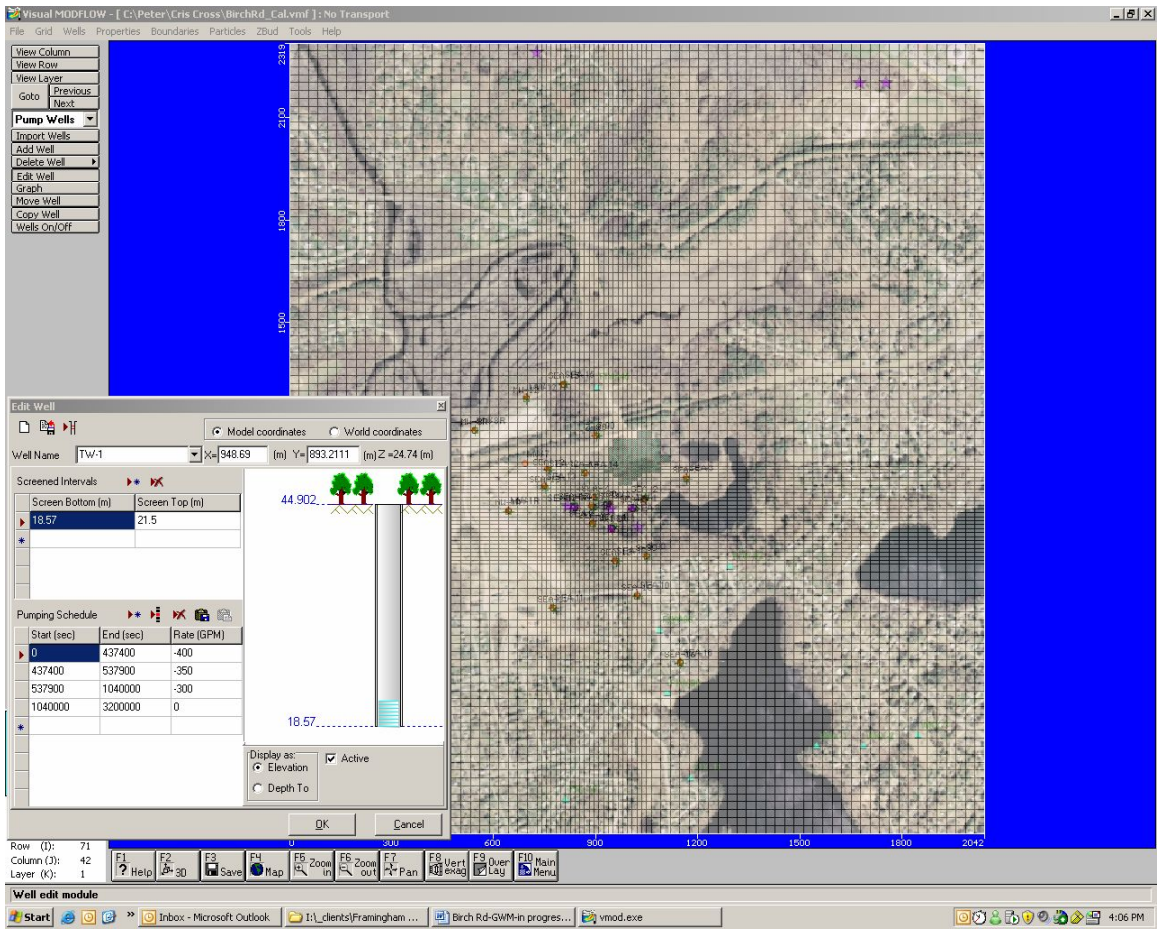


Figure 4-5: Model Space and Test Well Input Screen.

4.6 Model Calibration

The calibration process consists of assigning values for the parameters of conductivity (K_x, K_y, and K_z), specific storage, specific yield, and total and effective porosities to each zone. These values are then iteratively modified to obtain simulated drawdown results at the observation wells that are comparable to the observed drawdown. There were a total of 35 potential variables in this model: seven (7) parameters times five (5) zones times one (1) layer.

Because of the processing time needed to iterate the model to calibrate for 35 potential parameters, simplification steps were taken. The first of these was to recognize that the parameters for porosity are used solely for transport simulations. Since no transport simulations were being performed, porosity would have no affect on the model output. They were, therefore, set at 0.2 and 0.25, respectively for all zones.

A second simplification was to assume that each zone of the aquifer is horizontally homogeneous in terms of conductivity, meaning that the conductivity in the x direction, K_x (east-west) is equal to the conductivity in the y direction, K_y (north-south). Additionally, the values for vertical conductivity were assumed to range between 10% and 100% of the horizontal conductivity value for a given zone. This is a common assumption due to the tendency of sediments to layer during deposition. The number of parameters to be optimized was thus reduced from 35 to 15.

The PEST engine in MODFLOW was used to optimize the values of the variables. PEST requires the user to select the variables, assign them an initial value based on knowledge of local geology, and a range. It also allows the user to "tie" variables to another, for example, K_y could be tied to be equal to K_x, for each zone. Also, PEST enables the user to select the observation data and assign relative weights to the observations. In this manner it is possible to calibrate a single zone of the model by observing the model output for the wells located in that zone. While powerful, this approach is useful only to narrow down the range of variability of each variable, since the model behaves as a whole, and changes in one zone affect the results at every location. PEST was run several times using different initial values for the variables to thoroughly test the initial assumptions.

A significant disadvantage of PEST is that it does not allow the user to temporally select data to be optimized. Early data showed greater drawdown over a small period of time compared with

data collected during the middle and end of the simulation. Some observations seemed to be greatly affected by well inefficiencies during the first several minutes of the test. Therefore the greatest errors (difference between observed and calculated data) happened at the beginning of the simulation. It was more important for the purpose of this model to have a better match at the end of the simulation than at the beginning. PEST did not prove to be a good optimization engine in this case because it would try to minimize the early (and greater errors), without providing good end-of the simulation (or tail) matches. For these reasons, much of the calibration was performed manually.

4.7 Results

The range of data used for the simulation and optimization included the pump test and recovery data. The pumping test data spans 12 days, starting on April 26 of 2006 at 12:05 PM. The total simulation time was 37 days, therefore the recovery data spanned 25 days. The conductivity and specific yield values resulting from the optimization process are presented in Table 4-2.

Table 4-2: Parameter Values

	$K_{x,y}$ (ft/day)	K_z (ft/day)	Sy
Zone 1	100	10	0.2
Zone 2	12.5	1.2	0.3
Zone 3	400	40	0.12
Zone 4	150	15	0.233
Zone 5	225	22.5	0.12

Overall the model represents the hydrogeology of the aquifer fairly accurately. The calculated vs. observed drawdown plot of Figure 4-6 shows how the majority of the datapoints fall within the 95 % confidence interval, with a correlation coefficient of 0.939, a root mean square error (RMS) of 0.463 meter (m), and a normalized RMS of 6.96%. The standard error of the estimate was 0.012 m. These statistics apply to all the observations at all times, therefore giving a good idea of the overall goodness of fit of the model.

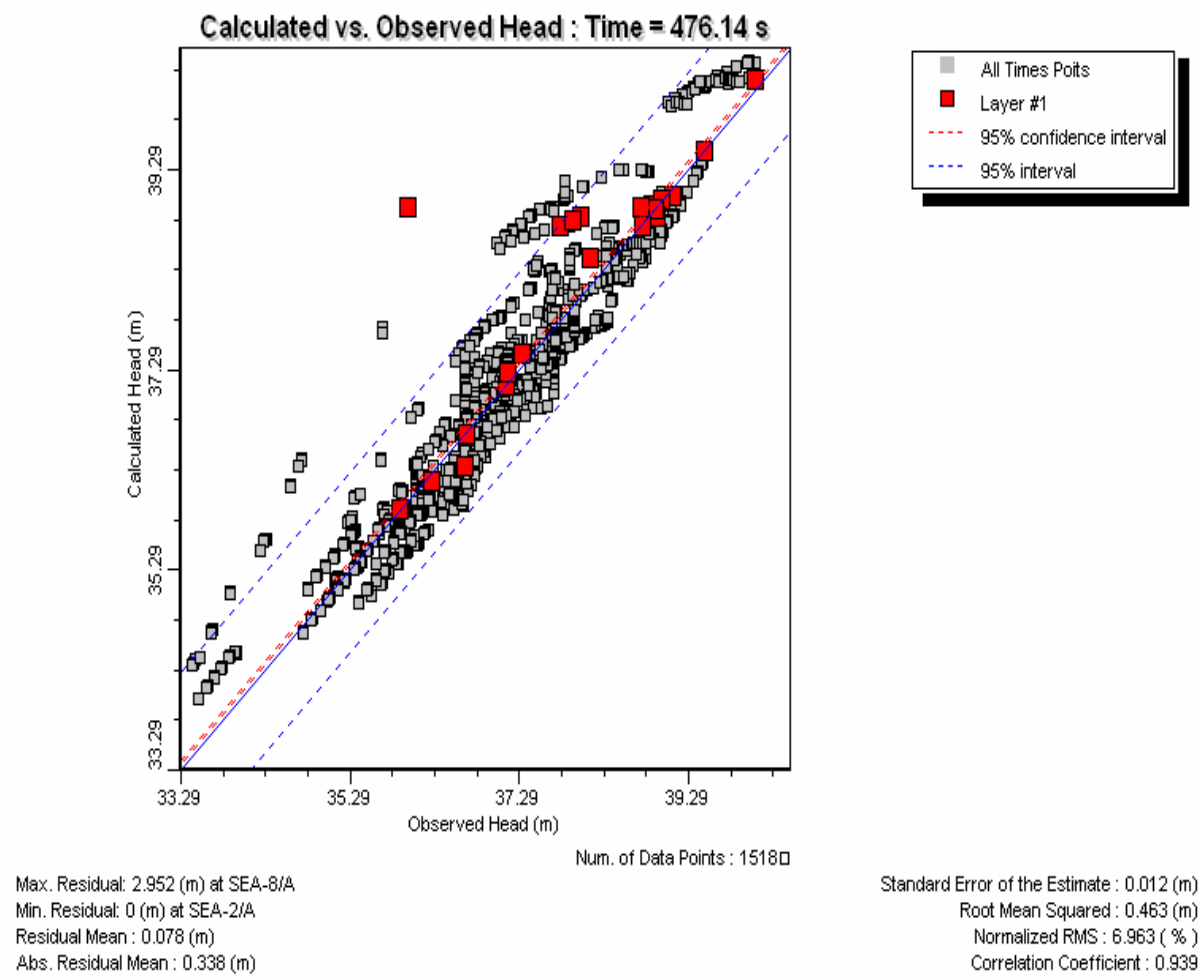


Figure 4-6: Calculated versus Observed data

Figures 4-7a), b) and c) below show the calculated (continuous line) and the observed (dotted) head data versus time for each monitoring well. These plots illustrate those areas of the model where MODFLOW is providing better fits, and for which areas the parameters could be adjusted.

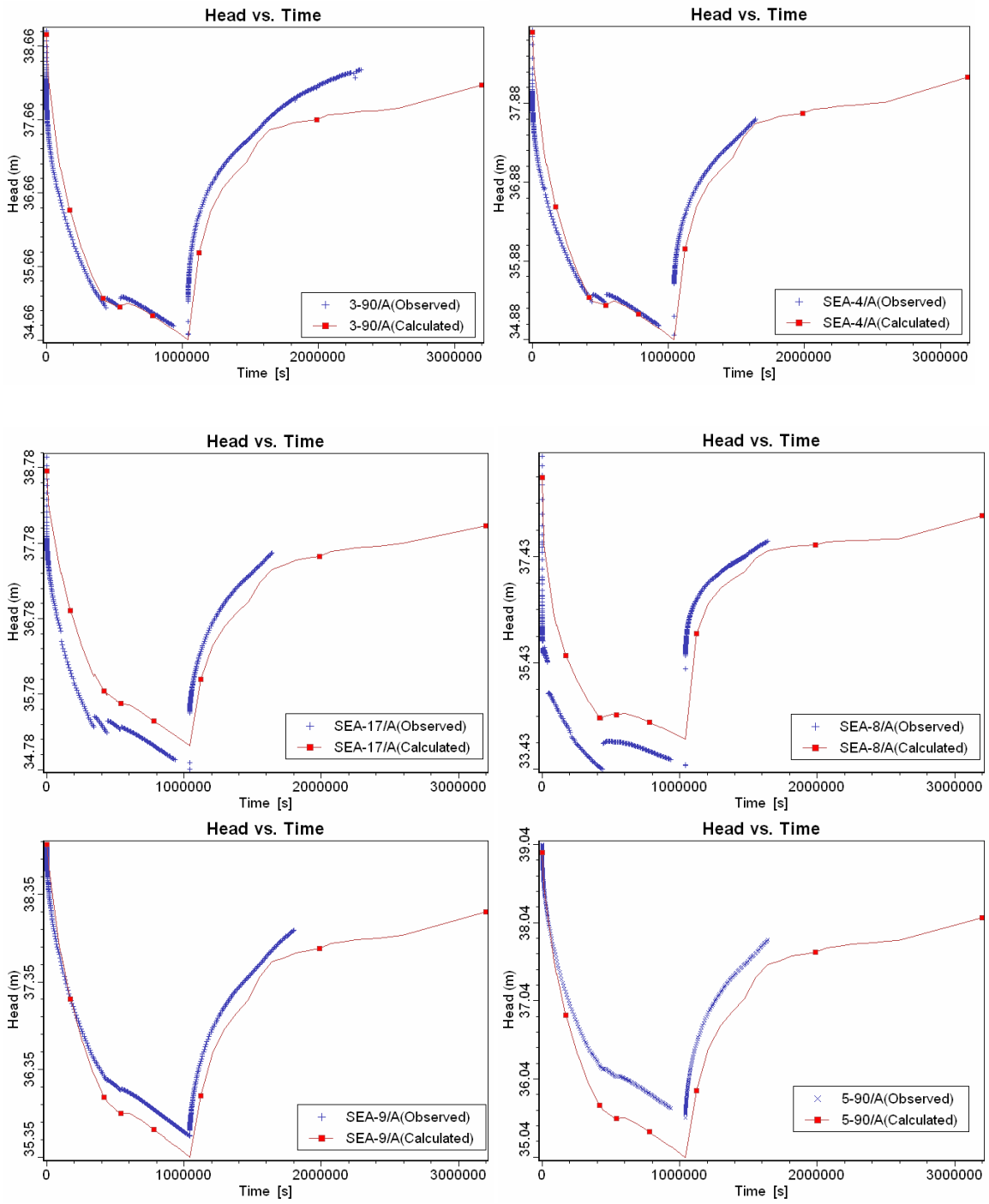


Figure 4-7: Head observations and calculations versus time at each monitoring well.

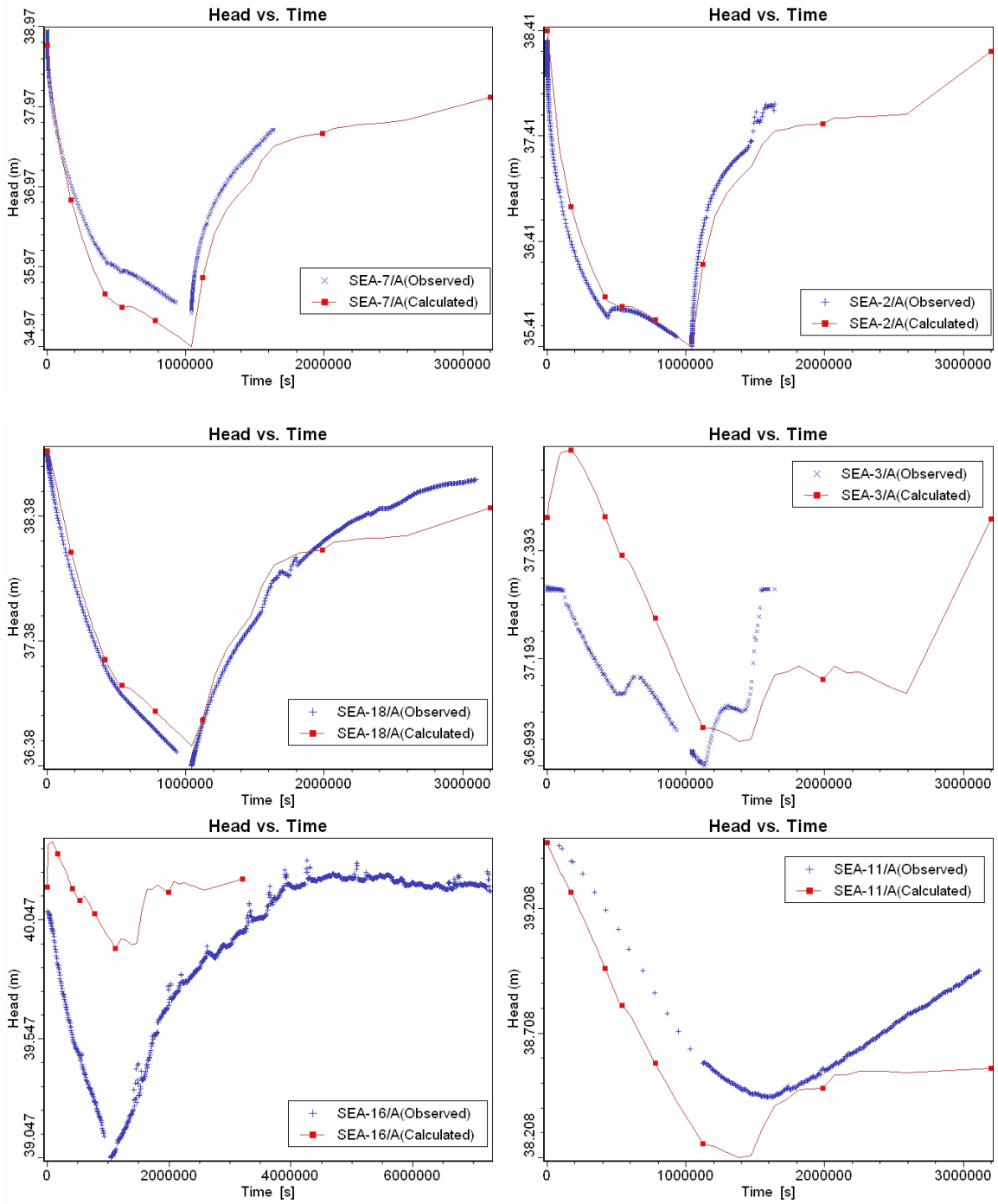


Figure 4-5 (cont.): Head observations and calculations versus time at each monitoring well.

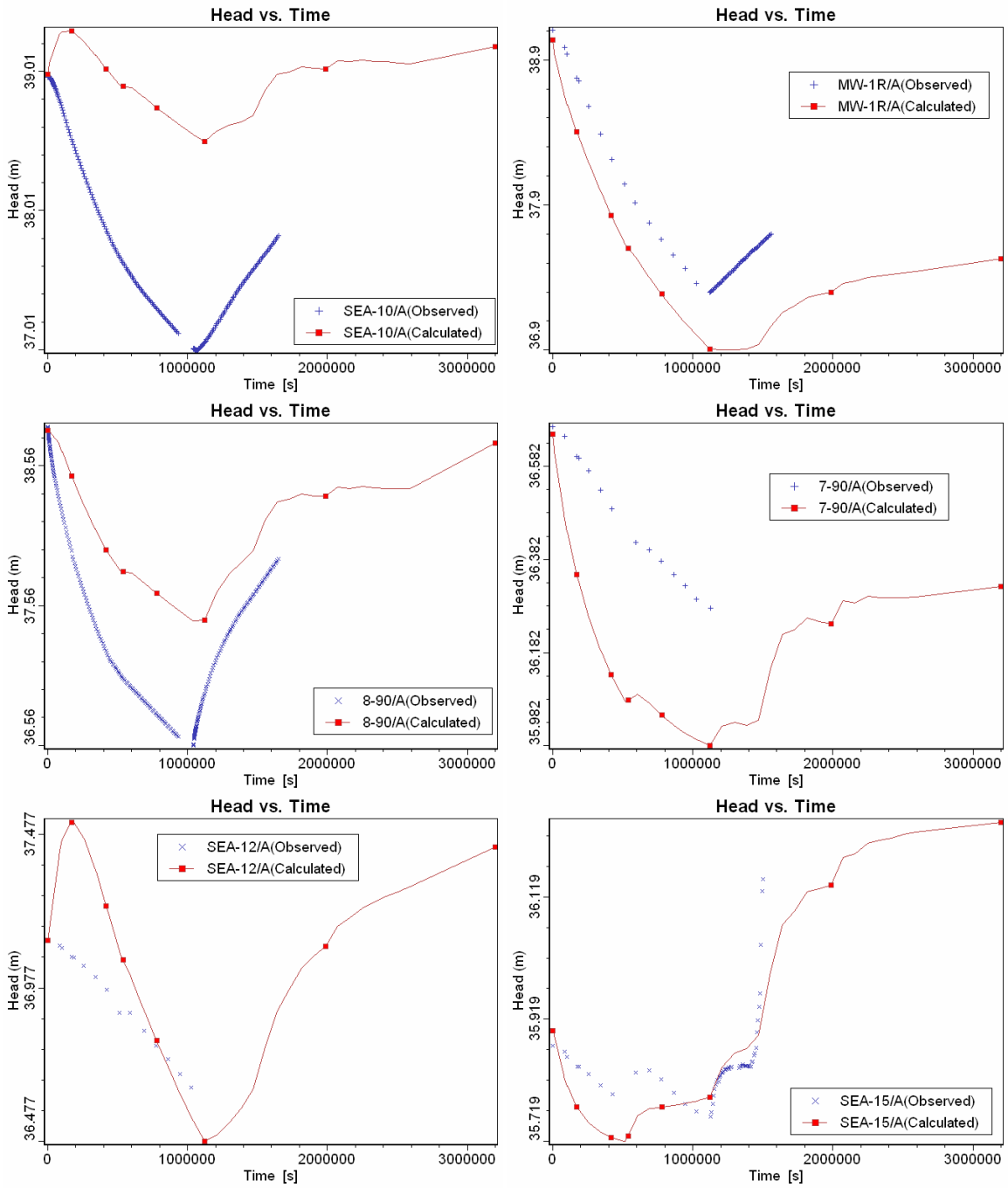


Figure 4-5 (cont.): Head observations and calculations versus time at each monitoring well.

Also, as the plots above show the observations and the calculated data versus time, the modeler can get a sense of when the maximum errors are occurring (at the beginning of the simulation or at the end). This is an important issue because larger errors at an early time can be due to multiple factors (such as well effects), and are of less importance than errors occurring at the end

of the simulation. More so than a perfect ft, the modeler expects to get a trend of the calculated values that follows the observations, with emphasis on the time range of time between the middle of the pumping test and the middle of the recovery.

The head vs. time plots for wells 3-90, S E A-4, S E A-17, S E A-8, S E A-9, 5-90, S E A-7, S E A-2 and S E A-18 represent good fits between the observed and calculated data. These wells are generally located in the vicinity of the pumping wells – with the first four being the 2-foot offset wells – and are the wells subjected to the largest water table deflections. Therefore, because of their leverage it is important to get a good fit for those monitoring wells not only because they are near the pumping wells, but also to get good statistics for the model as a whole.

Plots like the one obtained for S E A-3 (Figure 4-7b) and for S E A-15 (Figure 4-7c) are potentially misleading, as the difference in the scale along the Y-axis between these two plots and other plots such as the one for 3-90 is considerable. As explained above, the wells in the vicinity of the pumping wells experienced the greater drawdown, which is represented in the Y-axis. The total drawdown for wells such as 3-90, S E A-4, and S E A-17 was 4 m. Wells such as S E A-18 and S E A-3 experienced lesser drawdown, and therefore the absolute error of the model in these two locations is minor.

It was difficult for the modeler to achieve a good fit for monitoring wells S E A-10, S E A-11, and S E A-16, without sacrificing good results at other locations. It is hard to explain the deficiencies of the model in these locations, which can be due to multiple factors, including the proximity of these wells to Lake Cochituate or the uncertainty of the bedrock surface elevation in that area, which changes elevation abruptly, and becomes deeper towards the lake.

Overall the area of study has complex geomorphology, with bedrock surface elevation changing dramatically from below 40 m to 0 m surface outcrops, and with different types of soils of different hydrogeologic characteristics. The presence of significant water bodies (Lake Cochituate, Dudley Pond, and Sudbury River), and other water features (Pod Meadow, and the wetland areas) makes this of this modeling effort a challenging task. In general, the model provides a good representation of the hydrogeologic processes of the site.

5. ZONE II MODELING

The calibrated numerical model described in Section 4 was used to define the Zone II associated with the Birch Road Wells at a pumping rate of 4.3 MGD.

Different approaches can be used for this purpose: 1) Delineate the Zone II based on the geometry of the surficial geology; 2) simulate groundwater drawdown under MassDEP Zone II conditions of 180 days pumping with no recharge.

The quantity and quality of the data obtained during site exploration, testing, and modeling eliminated the need for a delineation based on surficial geology. Likewise, the data provided sufficient justification for the 180-day simulation, which was performed and discussed below.

5.1 DEP 180-Day Zone II Simulation

The other simulation performed was a simulation to calculate water table drawdown from ambient conditions after 180-days of pumping without recharge from precipitation. With a very large recharge boundary such as Lake Cochituate, the presentation of drawdown can be misleading. Because of the scale of Lake Cochituate and its watershed relative to the volume of water to be withdrawn, the water table in the vicinity of the lake did not decline significantly from pumping. Therefore, without hydrogeologic interpretation, the Zone II area would be artificially reduced.

As can be seen in Figure 5-2 below, the Zone II area is that encompassed by the dark tan to the north, east, and west. However, it would not be appropriate to terminate the delineation along this boundary to the south as it is known empirically that the primary contributor to the well site is Lake Cochituate to the south. The Zone II thus extends, per MassDEP policy, to the lake shore. It is even more apparent in this delineation that Dudley Pond, the Sudbury River, and the area of Pod Meadow and north have little influence on the well site; and likewise will not be appreciably affected by this well site.

Table 5-1: Pumping rates assigned for Zone II simulation

Test Well	Daily Pumping Rate
TW-1	0.85 MGD
TW-2	0.81 MGD
TW-3	0.84 MGD
TW4	1.80 MGD
Total	**4.30 MGD**

The simulation clearly depicts the extents of the Birch Road Well site influence. The majority of the recharge comes from Lake Cochituate. A portion comes from the aquifer beneath the Wetland A area to the east of the site. It is evident that very little flow comes from either Dudley Pond to the east, or the Sudbury River to the west. Likewise, it is readily apparent that withdrawals from the Birch Road Well site will have no impact on the ability of Wayland to operate their Meadowview or Happy Hollow public water supply wells.

Figure 5-1: MassDEP 180-Day Zone II Simulation

5.2 Supply Yield

Based on the results of the prolonged pumping test, the Birch Road Well site is capable of yielding in excess of 4.3 million gallons per day (MGD). The four test wells achieved stabilization after 11 days at the combined rate of 1,580 gallons per minute. The Town of Framingham, therefore, seeks approval for 2,986 gallons per minute, or 4.3 million gallons per day.

6. WATER QUALITY SAMPLING AND ANALYSIS

This chapter summarizes the sampling procedures and results of the water quality analyses performed as part of the prolonged pumping test on the four 12-inch replacement wells. Based on an evaluation of available water quality information, treatment recommendations are presented at the conclusion of this chapter.

6.1 Introduction

Water quality testing, both field and analytical, was conducted during the prolonged pumping test as defined in the 1996 Guidelines and Policies for Public Water Systems, and in accordance with the requirements of the February 8, 2006 MassDEP letter approving the Pumping Test Proposal. No compounds were detected above the Massachusetts Maximum Contaminant Level (MMCL) standards. One volatile organic compound and one synthetic organic compound were each detected below applicable standards. Perchlorate was detected below the MMCL of 2 ug/L in wells TW-1 and TW-3.

The pH in of the pumping wells tended to be slightly below the Secondary Maximum Contaminant Level (SMCL) limits of 6.5 to 8.5. Wells TW-3 and TW-4 had elevated levels of iron and manganese, averaging 4 mg/L and 0.7 mg/L, respectively, and exceeding the SMCLs of 0.3 mg/L Fe and 0.05 mg/L Mn. TW-4 had high color levels, above the SMCL of 15. Wells TW-2, TW-3, and TW-4 had sodium levels above the Office of Research and Standards Guideline (ORSG) of 20 mg/L. The procedures and results of water quality testing are described in more detail below.

6.2 Field Testing

Field parameter testing was conducted to measure pH, specific conductance, temperature, and dissolved oxygen. Field testing was conducted on samples collected from the sample taps on each well and conducted approximately every 48 hours during the pumping test. All parameters were measured with a Horiba U-22 multi-parameter water quality meter. The meter was calibrated each day before testing. The field testing results are presented in Table 6-1 below.

Table 6-1: Field Water Quality Testing ResultsTable 6-1: Field Water Quality Testing Results

Birch Road Well Reactivation
Prolonged Pumping Test
Framingham, MA

	Location	TW-1	TW-1	TW-1	TW-1	TW-1	TW-2	TW-2	TW-2	TW-2	TW-2
	Date	4/28/2006	4/30/2006	5/2/2006	5/4/2006	5/6/2006	4/28/2006	4/30/2006	5/2/2006	5/4/2006	5/6/2006
	Time	14:30	16:50	11:45	14:25	14:40	14:10	16:53	12:00	14:20	14:00
	Approx. Elapsed Time from start (hr)	50	101	144	195	243	50	101	144	195	243
Parameter	Units										
Temperature	deg C	12.1	11.5	11.2	12.1	11.6	14.9	13.9	13	16.3	15.4
pH		6.39	6.46	6.31	6.25	6.41	6.23	6.61	6.38	6.55	6.52
Dissolved Oxygen	mg/L	3.12	4.32	4.4	5.7	6.7	2.67	2.71	3.59	4.46	5.47
Specific Conductivity	mS/cm	2.77	2.73	2.77	2.88	2.82	0.85	1.84	1.94	1.97	1.92

	Location	TW-3	TW-3	TW-3	TW-3	TW-3	TW-4	TW-4	TW-4	TW-4
	Date	4/28/2006	4/30/2006	5/2/2006	5/4/2006	5/6/2006	4/28/2006	4/30/2006	5/4/2006	5/6/2006
	Time	14:45	16:45	12:00	14:30	13:40	15:25	17:00	14:35	14:40
	Elapsed Time from start (hr)	50	101	144	195	243	50	101	195	243
Parameter	Units									
Temperature	deg C	13.7	14.6	12.8	13.8	14	12.6	12.3	12.2	12.3
pH		6.31	6.4	6.22	6.15	6.15	7.04	7.03	6.64	7.04
Dissolved Oxygen	mg/L	1.55	3	1.68	4.7	3.51	4.09	4.07	5.14	6.83
Specific Conductivity	mS/cm	2.08	2.07	2.26	2.32	2.57	2.55	2.31	2.21	2.06

Notes -- = not measured

6.3 Analytical Testing

All analytical samples were collected by S E A field staff from individual sampling taps installed at each pumping well. Analytical testing was performed according to the schedule shown on the following table:

Table 6-2: Pumping Wells Analytical Sampling Schedule

Analyte Groups	Coliform Bacteria	Inorganic Compounds	Secondary Contaminants	Volatile Organics	Synthetic Organic Compounds	Per-chlorate	Radio-nuclides	**Other**
Pumping Wells								
Start 4/26/06			♦					
4/28			♦					
4/30	♦		♦	♦				
5/2			♦					
5/4			♦					
5/6			♦					
End 5/8/06	♦	♦	♦	♦	♦	♦	♦	CO_2, NH_3, Sp Cond., Temp.
Additional end of Test Sampling Requirements, per MassDEP Approval Letter								
Well 8-90				♦				EPH
Well MW-1R				♦				

Analytical testing was conducted by Alpha Woods Hole Group laboratory (Alpha). Certain analyses (radionuclides and synthetic organic compounds) were subcontracted by Alpha to other State Approved laboratory facilities. The analytical results are discussed below. The complete analytical laboratory reports are provided in Appendix G.

6.4 Water Quality Analysis Results

Laboratory data sheets from the laboratory analyses performed during the prolonged pumping test are provided in Appendix G. The results are shown on Figures and Tables in this section and a general summary follows:

- *Specific Conductivity*: Specific conductivity values measured in the field ranged from 0.85 to 2.88 millisiemens (mS/cm). In all pumping wells except TW-4, specific conductivity generally increased slightly during the course of the pumping test. Specific conductivity in laboratory samples collected on the final day of pumping ranged from 0.45 to 0.63 mS/cm. The laboratory results are consistent with the pilot testing results, which indicated raw water conductivity of 0.66 to 0.72 mS/cm. This level of conductivity is moderately high and indicates some potential to corrode pumping well screens due to electrochemical action.

- *Dissolved Oxygen*: Dissolved oxygen levels measured in the field ranged from 1.55 mg/L to 6.83 mg/L, which can indicate some corrosivity of the water.

- *Temperature*: Temperature values measured in the field generally fluctuated in all wells and ranged from a low of 11.2 °C to a high of 16.3 °C. There was no apparent temporal pattern that would have indicated influence of surface water.

- *Bacteriological Results*: Neither Coliform nor E. coli was detected in any of the samples.

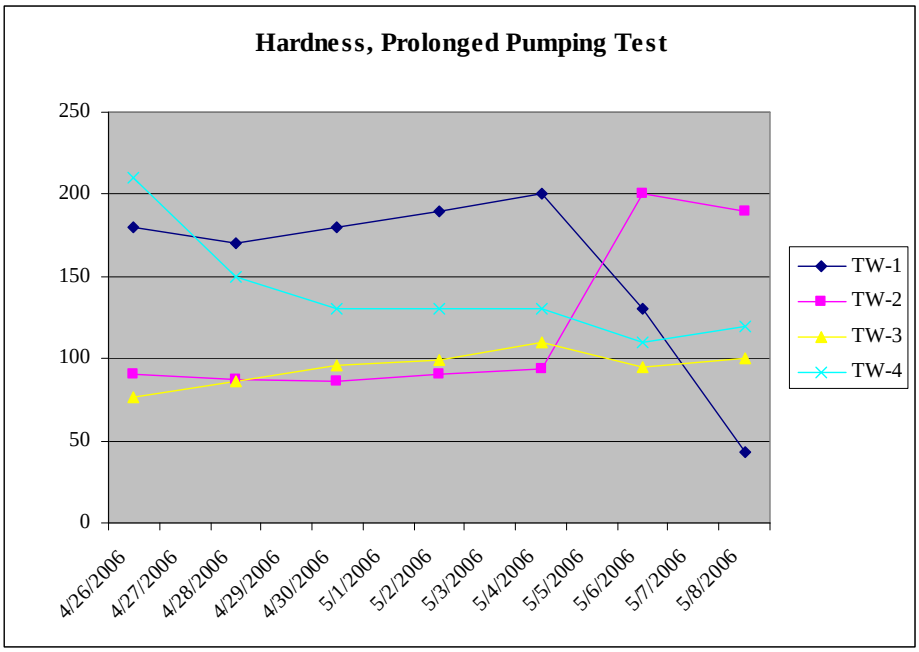
- *Turbidity*: For wells TW-1 through TW-3, turbidity was either not detected or detected just above the detection limit of 0.2 NTU. In well TW-4, turbidity fluctuated during the test, and ranged from 9 NTU to 40 NTU. As discussed in Section 2, TW-4 is set in very coarse gravel deposits. It is suspected that inadequate well surging after installation resulted in the continued pumping of fine particles.

- *Color*: In TW-1 and TW-2, color was not detected above the detection limit of 5 APCU, except on 5/6/2006, the day before the last day of the test. On this date, color was 7 APCU in both TW-1 and TW-2. In TW-4, color levels were relatively high throughout the test, ranging from 13 to 35 APCU.

- *Carbon Dioxide*: Carbon dioxide levels were high in all of the wells, ranging from 240 to 320 mg/L. During the pilot test, raw water carbon dioxide levels dropped significantly during the test, from over 200 mg/L to around 130 mg/l. The amount of carbon dioxide present, along with the moderately high levels of carbonate

hardness (see Figure 6-1) could lead to scale encrustation at the well screen. This effect is a result of the changes in pressure at the well head that occur during pumping cycles and periodically disturb the chemical equilibrium of carbon dioxide in solution.

- *Alkalinity, Carbonate, Hardness*: The alkalinity measured during the test ranged from 50 to 97 mg $CaCO_3$/L and averaged 73 mg $CaCO_3$/L. The highest alkalinity levels were observed in TW-4. Hardness results ranged from 43 to 210 mg/L, and averaged 127 mg/L which is considered moderately hard water. Calcium levels ranged from 13 to 65 mg/L and averaged 38 mg/L. Magnesium levels ranged from 2.5 to 13 mg/L and averaged 8 mg/L. Well TW-1 had the highest levels of Ca, Mg and hardness during most of the test, although levels dropped off during that last two days of the test. Figures 6-1 through 6-3, below, show the pumping test results for these parameters.



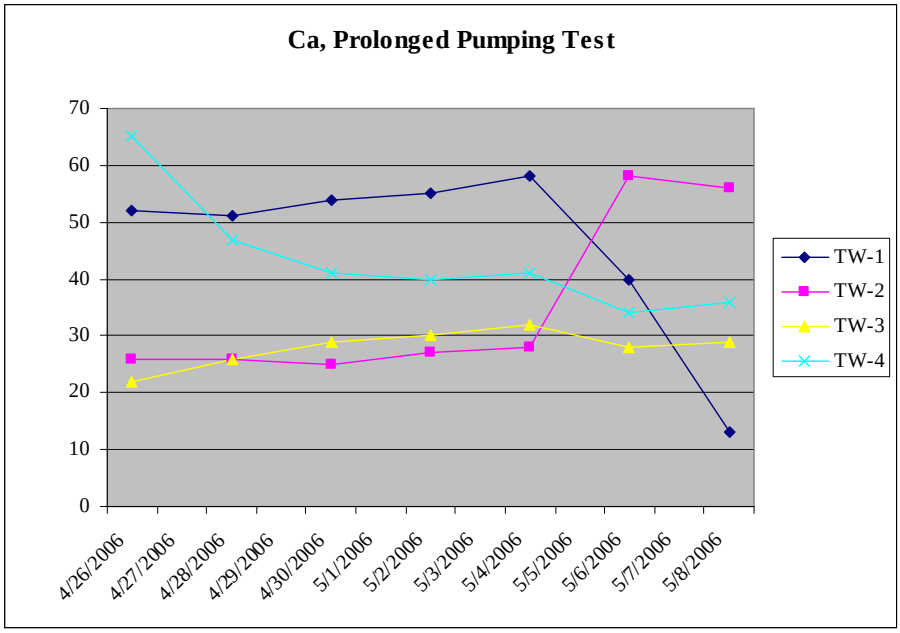


Figure 6-1: Hardness and Calcium (mg/L)

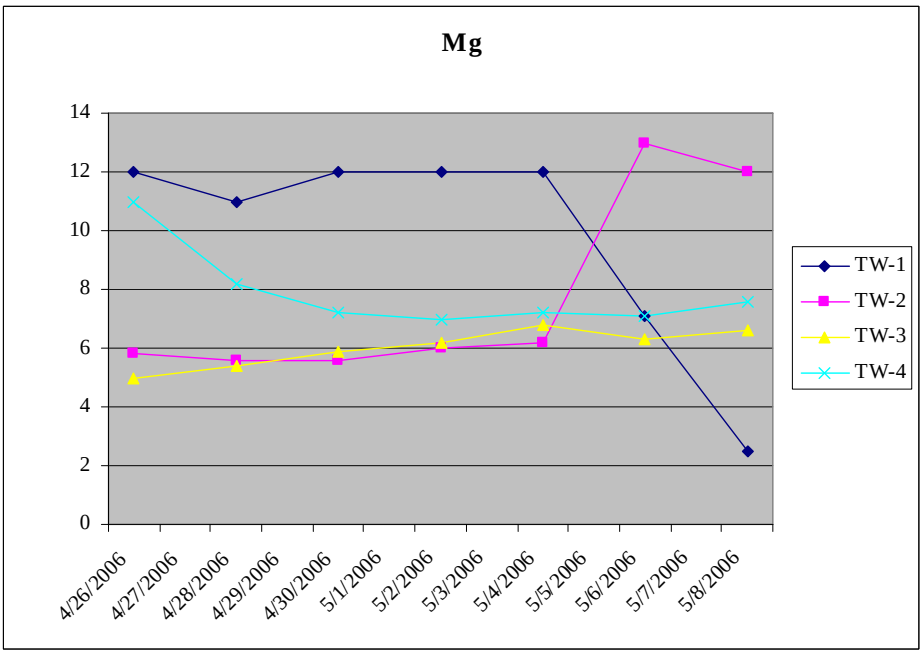


Figure 6-2: Magnesium (mg/L)

- *Iron and Manganese:* Iron and manganese levels were generally very high in wells TW-3 and TW-4, although the levels dropped dramatically in TW-3 during the last

two days of the test. A temporary spike in Fe and Mn was observed in TW-1 on May 6th. Figures 6-4 and 6-5 below show the levels of Fe and Mn during the test. The possibility of a sampling error was investigated to explain these fluctuations, but if there was a sampling error, it could not be identified. During the 8 week pilot testing period that followed the pumping test, raw water iron and manganese levels remained fairly steady, at 5.6 and 0.9 mg/L, respectively. The average levels observed during the pumping test agree with those observed during pilot testing.

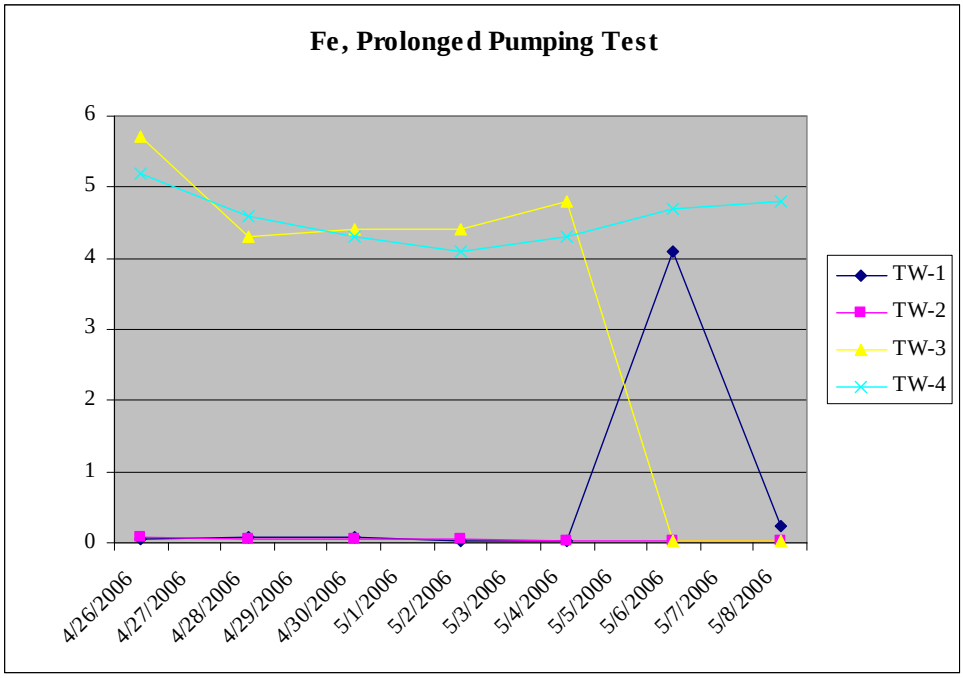


Figure 6-3: Iron (mg/L)

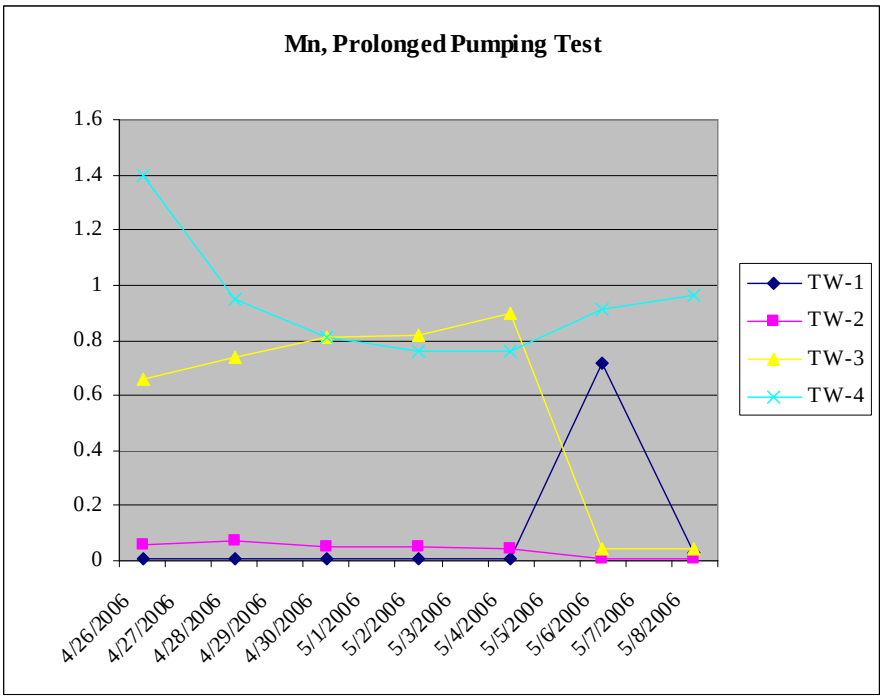


Figure 6-4: Manganese (mg/L)

- *Nitrogen Species*: Nitrite-nitrogen levels were non-detectable. Nitrate-nitrogen levels were not detectable in wells TW-2 and TW-4. Nitrate was detected in well TW-1 at 1.3 mg/L and in TW-3 at 0.13 mg/L; below the MMCL of 10 mg/L. Ammonia Nitrogen was detected at 0.148 mg/L in well TW-3, just slightly above the detection limit of 0.075 mg/L.

- *Odor*: Odor levels were below detection limits for the duration of the pumping test.

- *pH*: The laboratory pH analyses indicated values between ranging from 5.7 to 7.2 during the test. Field pH measurements had less variation, ranging from 6.15 to 7.04. As seen on Figure 6-6 below, the pH levels dropped off on the last day of the test to an average of 5.85. Raw water pH levels during the pilot test ranged from 5.91 to 6.33 and averaged 6.09.

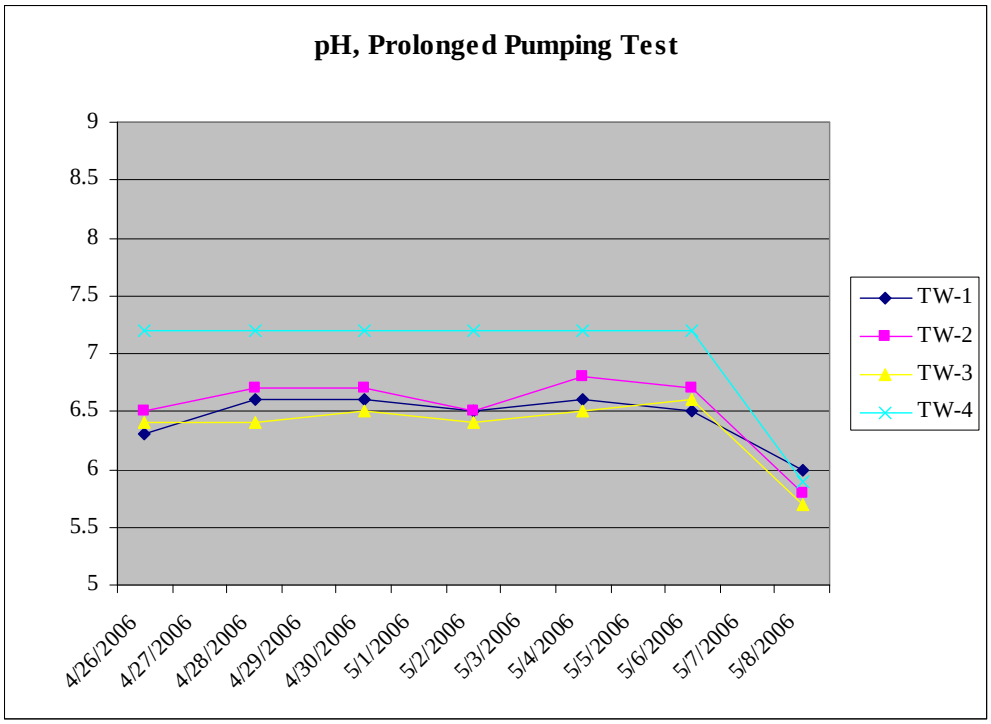


Figure 6-5: pH

- *Total Metals*: Aside from iron, manganese, calcium and magnesium, which were discussed above, the following metals were detected during the pumping test:

Table 6-3: Metals (Excluding Fe, Mn, Ca, Mg); Highest Level Detected (mg/L)

Parameter	Standard or Guideline (mg/L)	TW-1	TW-2	TW-3	TW-4
Arsenic	0.01 (MMCL)	nd	nd	0.004	0.002
Barium	2 (MMCL)	0.036	0.033	0.093	0.094
Copper	1 (SMCL)	0.001	0.005	nd	0.003
Lead	0.015 (AL)	nd	nd	nd	0.002
Nickel	0.1 (OSRG)	0.001	nd	0.005	nd
Potassium	--	5	5.2	5.2	6.8
Sodium	20 (OSRG)	5.7	46	51	63

AL=Action Level; nd = not detected

All of the above metals were detected well below applicable standards or guidelines, with the exception of sodium. Sodium levels in wells TW-2, TW-3 and TW-4 were above the OSRG of 20 mg/L.

- *VOCs*: Only one VOC compound from the analyte list (EPA Method 524.2), chloromethane, was detected. Chloromethane was detected in well TW-4 at a concentration of 3 ug/L. There is no regulatory limit or guideline for chloromethane. Chloromethane is produced in industry, but it also occurs naturally, and most of the chloromethane that is released to the environment (estimated at up to 99%) comes from natural sources. Most of the naturally occurring chloromethane comes from chemical reactions that occur in the oceans or from chemical reactions that occur when materials like grass, wood, charcoal, and coal are burned. It is also released to the air as a product of some plants or from rotting wood. Other sources of chloromethane include cigarette smoke; polystyrene insulation; aerosol propellants; home burning of wood, grass, coal, or certain plastics; and chlorinated swimming pools. Chloromethane breaks down very slowly (months to years) in the air. Chloromethane can dissolve in water, and small amounts of chloromethane in air may go into surface waters or groundwater when it rains. Chloromethane can also enter water from industrial or municipal waste streams or from water that comes in contact with municipal or hazardous waste sites. (Source, CDC: http://www.atsdr.cdc.gov/toxprofiles/phs106.html)

- *SOCs*- Only one SOC compound was detected. Picloram was detected at the detection limit of 0.1 ug/L in well TW-2. The MCL for picloram is 500 ug/L. Picloram, in the pyridine family of compounds, is a systemic herbicide used for control of woody plants and a wide range of broad-leaved weeds. Picloram is the most persistent of its family of herbicides. It does not adhere to soil and so may leach to groundwater. It is degraded in soil and water mainly by microbes. Short-term: EPA has found picloram to potentially cause the following short-term health effects when people are exposed to it at levels above the MCL for relatively short periods of time: damage to central nervous system, weakness, diarrhea, weight loss. Long-term

Exposure to picloram at levels above the MCL over a lifetime can potentially cause liver damage.

- *Radionuclides*: Gross alpha, gross beta, radium-226, radium-228, and radon were each detected at concentrations below drinking water standards.

- *Perchlorate:* On the last day of the pumping test, perchlorate was detected in TW-1 and in TW-3 at levels below the MMCL of 2 ug/L. Wells TW-1 and TW-3 were re-tested during the pilot test. In addition, both TW-1 and TW-3 and their 2-foot offset observation wells were tested at the end of the pilot test. Re-sampling results for perchlorate were non-detectable, as shown on Table 6-4 below.

Table 6-4: Perchlorate Testing Results

Date and Activity	TW-1	S E A-4 (TW-1 Offset)	TW-3	3-90 (TW-3 Offset)
5/8/06 – Pump test, last day	1.68 1.78 lab retest	--	0.279 J	--
6/6/06- Pilot start	--	--	0.276 J	--
6/20/06- Pilot	<1	--	<1	--
6/22/06- Groundwater sampling	<1	<1		
7/13/06 – Pilot	--	--	<1	--
7/19/06- Groundwater sampling (Pilot end)	--	--	<1	<1

Notes: -- = not sampled ; J = laboratory qualifier indicated an estimated concentration

Based on the observed perchlorate results, we theorize that the source of perchlorate originally detected is a result of the disinfection of the wells with sodium hypochlorite bleach following well installation. Five (5) gallons was used in each of the test wells by the drilling contractor who confirmed extended storage of some of the disinfectant used at this site. It has been found that perchlorate spontaneously generates as sodium hypochlorite ages. Concentrations as high as 8,000 ppb have been observed in two-year old batches of sodium hypochlorite.[1]

The source of perchlorate is currently under investigation.

[1] California Department of Toxic Substances Control, Draft Perchlorate Fact Sheet (*internet*)

6.5 Treatment Needs

A review of the water quality information indicates that the water from the Birch Road Well Site will require treatment for high levels of iron and manganese. This was confirmed by the results of the pilot testing program, which indicated iron and manganese levels of 5.6 and 0.9 mg/L, respectively. The well water pH is generally around 6, which will need adjustment. Carbon dioxide levels averaged 292 mg/L, which is indicative of corrosive water.

The water is corrosive, and will also require pH adjustment. The Ryznar Stability Index (RSI) was calculated for the pumping wells (Driscoll, 1986) from total dissolved solids, pH, alkalinity, and calcium ion concentration. An RSI greater than 7 is indicative of corrosive water. The calculation, presented in Appendix H, yielded an RSI of 10.1 for the wells, indicating that the water will require pH adjustment. Corrosion control for lead and copper may be accomplished using pH/alkalinity adjustment or the use of corrosion inhibitors.

For detailed discussion of treatment needs, the reader is referred to the Birch Road Water Quality Pilot Testing Report.

7. EVALUATION OF INDUCED INFILTRATION

S E A personnel conducted monitoring of piezometers installed in the wetlands during the prolonged pumping test to determine if pumping affected adjacent wetland areas and the Sudbury River. Eleven (11) hand-driven piezometers were installed throughout the pump test area as shown on Figure 3-1. Six (6) Stream gauges were installed to monitor stream levels in surface water features to enable a qualification of the magnitude of pumping impacts on these features. The proposed withdrawal of 4.3 MGD is 5% below the grandfathered historic capacity of the site, thus no additional impacts to surface water bodies are to be anticipated. The results of this monitoring are discussed below.

7.1 Piezometer and Stream Gauge Monitoring

The available groundwater and surface water data were examined to determine the degree of influence of the pumping test on surrounding surface water resources. This evaluation was complicated by the fact that in the period preceding the pumping test, groundwater levels were statistically below-normal, while the period starting around the end of the test was a very wet period with above-average rainfall, surface water, and groundwater levels. The ambient hydrologic conditions are discussed in more detail below. Nevertheless, the data show that pumping wells have a local affect on some wetland areas within about 450 feet east of the wells but that locations farther away, including the Sudbury River are not influenced.

<u>Piezometers</u>

The changes in groundwater and surface water elevation at the piezometer monitoring stations were examined to determine influence of the pumping wells on nearby wetland resources. To assess the influence of precipitation on wetlands, rainfall data was also evaluated. The wetland areas located to the east of the pumping wells appear to be hydraulically connected to the underlying aquifer. Therefore, towards the east, drawdown in the wetlands was observed; declining with distance away from the pumping wells. However, wetland areas close to the pumping wells are located within former gravel wash pits or other disturbed areas and are in some cases perched above the ambient water table and were therefore unaffected by the pumping test.

Figure 7-1 below presents the duration of the pumping test, groundwater elevation (ft) in piezometers, and inches of rainfall. As can be seen on the figure, certain locations were clearly influenced by the pumping test while others were not.

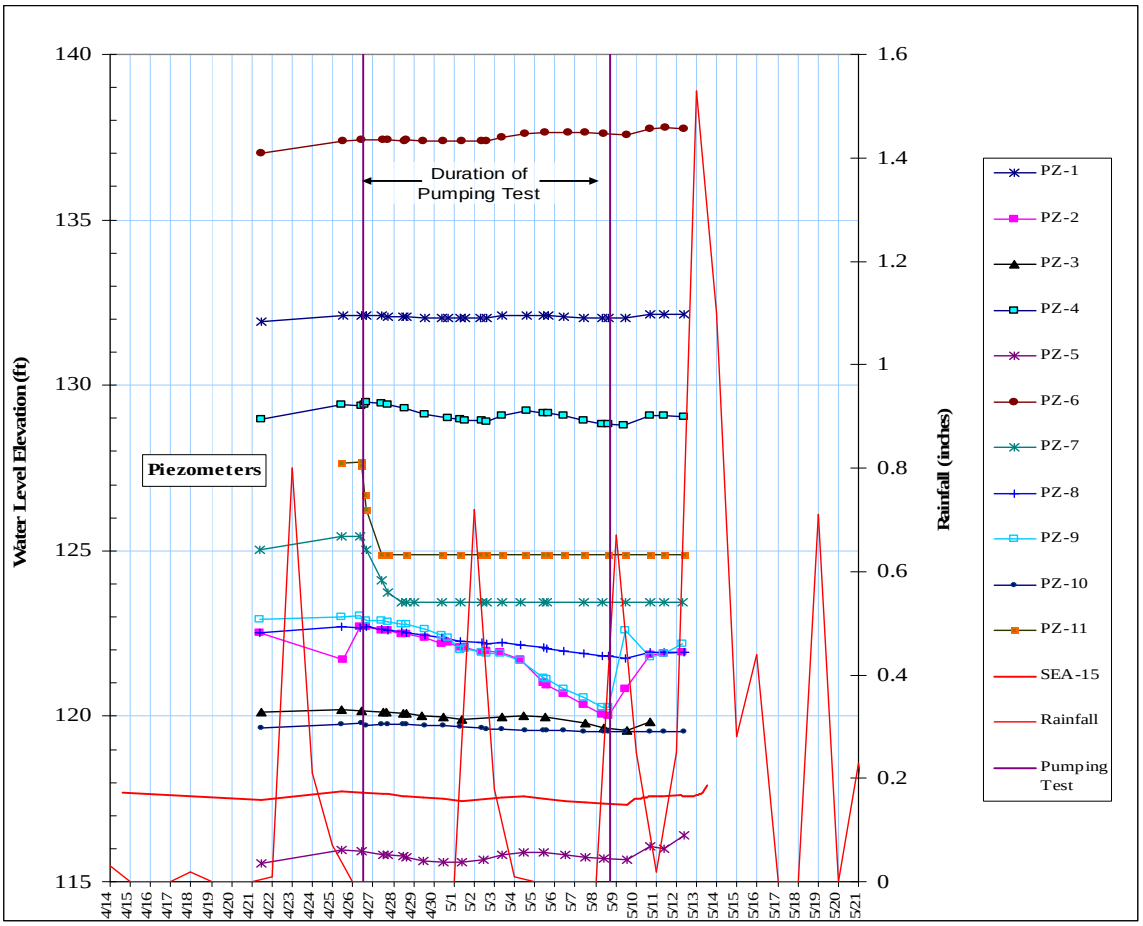


Figure 7-1: Piezometer Readings in Response to Rainfall and Pumping

Piezometers PZ-2, PZ-9, PZ-7, and PZ-8 showed the strongest influence from pumping of the wells. Both experienced about 2 feet of drawdown during the pumping test. PZ-2 and PZ-9 are located at the western edge of Wetland A; approximately 80 feet and 400 feet away, respectively, from the nearest pumping well (TW-4). The western edge of Wetland A is at the toe of a steep slope. The southern edge of Wetland A appears to be fed by groundwater seepage due to the steep gradient in this location. PZ-2 and PZ-9 showed an immediate water table rebound once the pump test ended.

PZ-8 is also located along the edge of Wetland A, about 400 feet from the nearest pumping well (TW-4). PZ-8 was influenced by the pumping test, to a lesser degree than PZ-2 and PZ-9. PZ-8 experienced a drawdown of about 1 foot during the pumping test. PZ-8 is located in an area exposed to sun and heavily vegetated with the invasive reed Japanese knotweed which was undergoing rapid growth during the period of the test and thereafter. It is likely that this location experiences greater surface evaporation and greater transpiration than the more shaded locations PZ-2 and PZ-9. This may account for the lesser degree of immediate rebound of the water table at PZ-8 following pumping.

PZ-7 is located in a small, isolated wetland about 175 feet from well TW-4. The water level in PZ-7 dropped below the bottom of the piezometer screen as of the third day of the test. Unlike PZ-2 and PZ-9, the water level did not rebound following the end of the pumping test. This likely indicates that the wetland at PZ-7 does not receive groundwater inflow. It is apparently fed only via rainfall. This also appears to be the case for location PZ-11. Once this area was drawn down it did not recover immediately following the pump test.

Some wetland locations in close proximity to the pumping wells exhibited little to no influence from pumping. This is seen in the water table elevations for PZ-1, PZ-4. The water table in these locations is perched at a higher elevation than the static level in the pumping wells. The pumping wells had a pre-test static elevation of between 127 and 128 feet AMSL. Groundwater at PZ-1 has an elevation of 131 feet AMSL and an average elevation of about 129 feet AMSL at PZ-4.

In summary, locations farther than about 450 feet away from the pumping wells (e.g. PZ-3, PZ-6, PZ-10) showed no discernible influence from the pumping test.

Streamflow

An attempt was made to quantify influence of pumping on streamflow by gauging flow at stream gauge location SG-4. This stream is an unnamed first-order tributary to the Sudbury River. It drains the wetlands to the northeast of the wellfield through the culvert at SG-4. The culvert is approximately 850 feet northeast of TW-4, the closest pumping well. A staff gauge was installed at SG-4 prior to starting the pumping test. An automated data logger was also installed in the stream bed at SG-4 to continuously measure stream stage from April 25th to June 5th, 2006.

A second data logger was kept at the field trailer on site near the pumping wells to record barometric pressure during this same time period. This was done to enable correction of the stream stage data logger for barometric pressure effects. Manual staff gauge readings were taken at SG-4 on three dates prior to beginning pumping, and at least daily during pumping and during recovery.

Unfortunately, upon evaluation of the stream stage data logger record it was discovered that the streamflow logger was not functional during its deployment. Furthermore it was reading erroneously in a non-linear way. Therefore the data it had collected could not be corrected or used for any purpose.

Volumetric measurements of streamflow were collected on two dates in order to correlate the manual stream stage data with volume of flow. A Marsh-McBirney Flomate electromagnetic velocity meter and the velocity-area method were used to determine streamflow on January 19, 2007 and again on June 29, 2007. The measured flows and stream stages are shown below.

Table 7-1: Measured Streamflow, SG-4

Date	Stream Stage (ft)	Flow (cu feet/s)
1/19/07	0.80	0.98
6/29/07	0.72	1.1

The reason is not clear, but the stage and flow were not positively correlated. In order to make a best attempt at a stage/discharge relationship, we used the above data along with a zero intercept for a regression equation ($y= 1.37x$; $R^2 = .96$). This is a conservative analysis because it assumes at stage zero there is no flow. In fact, due to the channel configuration, if the stream gauge was reading zero there would still be flow in the part of the channel away from the gauge. The following plot shows the measured stream stage and regression-calculated flow for the period before, during, and after the pumping test:

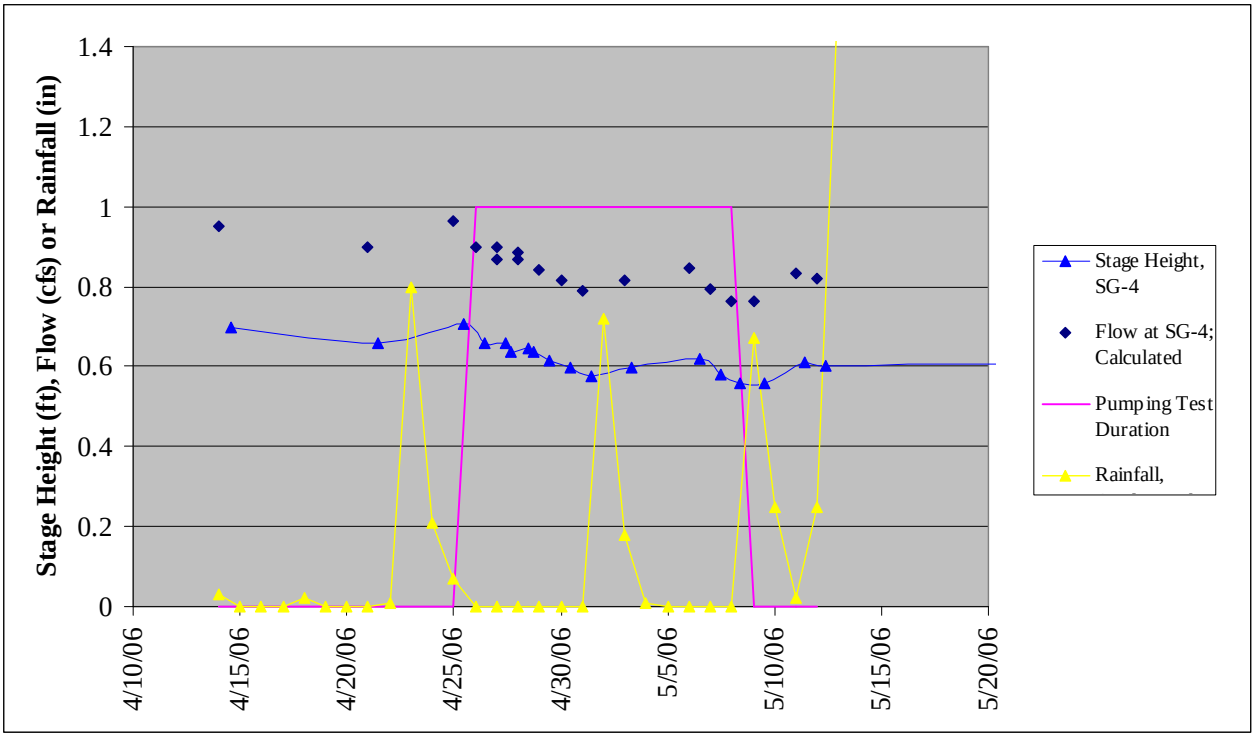


Figure 7-2: Stage and Flow at SG-4

From the stream stage and streamflow pattern analysis, it does not appear that the pumping test impacted steamflow at location SG-4. Consistent with the groundwater level observations in piezometers, this location which is 850 feet away from the pumping wells, did not exhibit influence by withdrawals during the pumping test. The patterns observed are consistent with the ambient aquifer response to rainfall observed in S E A-15, as discussed in Section 3.3.1.

8. WATER SUPPLY PROTECTION

8.1 Introduction

Delineation of the land area which contributes water to the supply site is critical in developing effective water quality protection measures. MassDEP guidelines require that aquifer protection bylaws be established before a public water source can be placed into service. The Town has an approved Aquifer Protection Bylaw. In addition, all public water suppliers must fulfill the MassDEP's Zone I requirements for ownership or control of a 400 foot radius from the well or wells. At the well site, a portion of the Zone I for Birch Road Well # 4 is located within the adjacent now or former New England Sand and Gravel site, identified on Map 293, Block 184; Map 301, Block 208; and Map 302, Block 211 on the Town of Framingham Tax Assessor's Map. The town has an approved Conservation Restriction on this land protecting it and ensuring that the entire Zone I is undeveloped. The C/R was approved by the Secretary of Environmental Affairs. The remaining Zone I's for all of the other wells are located within land owned by the Town of Framingham.

Zone II, as defined by the MassDEP, is the area of an aquifer that contributes water to a well under 180-days of pumping with no recharge. The Zone III is that land area beyond the Zone II from which surface and groundwater drains into the Zone II. Aquifer protection bylaws are required for Zone II areas. The town has an approved Aquifer Protection District overlay and by-law.

8.2 Zone II Delineation

Please refer to Chapter 5 for a detailed description of the Zone II delineation.

8.3 Land Use and Contamination Concerns

S E A completed an evaluation of the potential sources of contamination within the preliminary Zone I and Zone II areas for the Birch Road Well site as part of the 2005 *Request for Site Exam*. This evaluation included a review of the Town of Framingham's zoning bylaws.

The area within the Zone II primarily consists of residential use and open space. However, some commercial development is located within a ½-mile radius of the Birch Road Well site. The

former New England Sand and Gravel is located adjacent and to the west of the well site, and an independently owned fuel dispensing facility is located to the south, at the intersection of Old Connecticut Path (Route 126) and River Path. An overhead utility bisects the well site from north to south and the Massachusetts Water Resources Authority (MWRA) Aqueduct is located to the north.

The former New England Sand and Gravel site, a MassDEP designated Public Involvement Plan (PIP) site, is located adjacent and to the west of the Birch Road Well site. The site is tracked under MassDEP Release Tracking Number (RTN) 3-0000629. In the mid-1980's, BDM Federal Inc, under contract with the United States Air Force, subcontracted research, development, and testing of equipment to dispense polyurethane material to Foster-Miller Inc. for rapid repair of bomb damaged runways. In 1986, according to information on file at MassDEP, approximately three to five gallons of polymer concrete material was released to surface soils following a failed test. Subsequent to the test, remedial actions including excavation of the impacted soils, test pitting, soil borings and monitoring well installation, soil and groundwater sampling, and a baseline risk characterization was conducted. The results of sampling indicated the presence of volatile organic compounds (VOCs), in particular tetrachloroethylene (PCE), in both soil and groundwater. On November 26, 2003 a Class C1 Response Action Outcome (RAO) was submitted to the MassDEP. Currently, the site is being managed under the Massachusetts Contingency Plan (MCP), 310 CMR 40 and site groundwater monitoring wells are sampled annually.

Also located within a ½-mile radius of the Birch Road Well site is an independently owned fuel dispensing facility. The facility is located approximately 1,000 feet south and hydraulically upgradient of the Birch Road Well site. On August 21, 2003, following removal of three 6,000-gallon underground storage tanks (USTs) a soil vapor headspace reading of 170 parts per million (ppm) by volume was recorded during field screening of a soil sample. The peastone sample was collected beneath the former USTs at a depth of fifteen feet below grade and within ten feet of a UST, triggering a 72-hour reportable condition pursuant to the Massachusetts Contingency Plan (MCP), 310 CMR 40.0313. Subsequently, the impacted peastone was excavated and stockpiled for off-site disposal. Soil beneath the peastone was also excavated and stockpiled. Results of excavation sidewall and base samples indicated residual impacts of methyl-tert-butyl-ether (MtBE) in a sample collected from the bottom of the excavation. The MassDEP was verbally

notified of the 72-hour reportable condition August 22, 2003. On August 25 and 26, 2003 soil beneath the three fuel dispensers was excavated. Soil samples were collected and submitted for analysis for volatile petroleum hydrocarbons (VPH) analysis. No compounds were detected above laboratory detection limits. Additional soil samples were collected during excavation activities on September 10, 18, and 22, 2003. No VPH compounds were detected above laboratory detection limits. A Release Notification was submitted to the MassDEP on October 7, 2003, as well as an Immediate Response Action Completion Report. On November 10, 2003 groundwater samples were collected from the four on-site monitoring wells. No non-aqueous phase liquid was encountered during groundwater gauging. Results of the November sampling event indicated concentrations of the VPH fraction C_5-C_8 aliphatics (176 ug/l), MtBE up to 2.3 ug/l, and acetone (407 ug/L) but below the applicable MCP GW-1 and GW-3 standards. 2-Butanone (MEK) was also detected at a concentration of 552 ug/L, above the applicable GW-1 groundwater standard of 350 ug/L. Further investigation in January 2004 was conducted to investigate the detection of MEK. Results indicated no detections above laboratory detection limits. It was determined that due to absence of MEK in sampling rounds prior to November 2003 and in January 2004 that the MEK detection may be attributed to laboratory error and not conditions at the site. MEK is a known laboratory contaminant. Subsequent to response actions, a Class A2 RAO was submitted on May 11, 2004.

Lake Cochituate, the primary contributor to the Zone II, is located approximately 1,200 feet to the southeast of the Birch Road Well site. Based upon Lake Cochituate's contribution, stormwater entering the lake via storm drains is a water quality concern for groundwater within the Zone II of the Birch Road Well site. Contaminants of concern include heavy metals, sodium from road salting activities, petroleum hydrocarbons, and nutrients. Currently, the Town of Framingham is exploring various stormwater best management practices (BMPs) to remediate stormwater entering the lake.

The most likely potential source of aquifer contamination is the application of household lawn fertilizers and pesticides. This impact can be minimized through an ongoing public education campaign in which consumers are informed of the dangers to their drinking water by the injudicious use and disposal of these substances. As a further protective measure, the use of pesticide and herbicides has been strictly prohibited within the Zone I easements.

There are no other major water quality concerns within the delineated Zone II for the Birch Road Well site.

8.4 Zoning and Aquifer Protection

The Town of Framingham has an existing, MA-DEP approved aquifer protection bylaw. The bylaw will serve as adequate regulatory protection for the well site. The Birch Road Well site and its surrounding Zone I protective radius are owned and controlled by the Town of Framingham. The site is protected from further development as the land to the north and east is conservation land. The proposed monitoring program will minimize the future potential threat of contamination to the well site.

The site has a previously approved Zone II. However, a re-delineation was performed that takes into account the information obtained during this pump test. This revised Zone II has been submitted for approval under a separate cover.

8.5 Monitoring Program

A groundwater monitoring program is proposed at the Birch Road Well site to provide for resource protection. This program will monitor groundwater quality within the aquifer by collecting quarterly samples from existing monitoring wells and potentially the installation of additional groundwater monitoring wells. The goal of the program is to minimize the threat of water supply contamination, thereby preventing an expensive groundwater remediation program. The long-term groundwater monitoring program will be prepared prior to the re-commencement of pumping at the site. At the request of MassDEP, the program will be submitted for comment.

In addition to groundwater sampling, S E A recommends that semi-annual visual inspections of the Zone II area take place to monitor for signs of unauthorized dumping or potential sources of contamination.

APPENDIX A

MA DEP CORRESPONDENCE AND OTHER PERMIT APPROVALS

APPENDIX A CONTENTS:

MA DEP Approval Letter, Site Exam/Prolonged Pumping Test Proposal

MEPA Environmental Monitor, Early Notice Publication

MassWildlife NHESP Information Request Response Letter

Framingham Conservation Commission, Order of Conditions

Dept. of Conservation & Recreation, Permit for Use of State Lands

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE

MITT ROMNEY
Governor

KERRY HEALEY
Lieutenant Governor

STEPHEN R. PRITCHARD
Secretary

ROBERT W. GOLLEDGE, Jr.
Commissioner

February 8, 2006

Framingham Board of Public Works
150 Concord Street, Room 213
Framingham, MA 01702

RE: City/Town: Framingham
PWS Name: Framingham Water Division
PWS- ID No.: 3100000
Program: System Modifications
Action: Approval — Birch Road Wells Site Exam/Pumping Test Proposal
Transmittal No.: W071015

Dear Board Members:

Please find attached the following information:

Approval of the site examination and pumping test proposal for four proposed Town of Framingham public supply wells located off of Birch Road in Framingham. The wells are intended to replace the Town's Birch Road Wells Nos. 1, 2, and 3.

Please note that the signature on this cover letter indicates formal issuance of the attached document. **Please contact this office at least 5 days prior to the start of the prolonged pumping test.** If you have any questions regarding this letter, please contact James Persky at (978) 694-3227.

Sincerely,

Sincerely,

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

James H. Persky
Environmental Analyst
Drinking Water Program

Thomas Mahin
Section Chief
Drinking Water Program

TM/jp

File Name: Y:\DWP Archive\NERO\Framingham-3100000-System Modifications-2006-02-08

cc: DWP/Boston Office (no attachment)
Zachary Peters, DEP, Water Management, Wilmington
Eric Johnson, Framingham Dept. of Public Works, 150 Concord Street, Room 213, Framingham, MA 01702
Peter Newton, SEA Consultants, Inc., 485 Massachusetts Avenue, Cambridge, MA 02139
Thomas Sciacca, 31 Rolling Lane, Wayland, MA 01778
Thomas Arnold, Sudbury Valley Trustees, 18 Wolbach Road, Sudbury, MA 01776

cc via e-mail:
Bruce Bouck, DEP, Drinking Water, Boston
Peter Sellers, Framingham Department of Public Works
Margaret Kearns, Massachusetts Riverways Program
Michele Drury, Massachusetts Department of Conservation and Recreation, Office of Water Resources
Frederica Gillespie, Sudbury River Watershed Organization
John Craycroft, Cedar Swamp Conservation Trust
Stephen Estes-Smargiassi, MWRA, Waterworks Division
Eileen Simonson, MWRA Water Supply Citizens Advisory Committee
Gene Parker, U.S. Geological Survey
William Humphries, URS Corporation

DESCRIPTION OF PROJECT

The Massachusetts Department of Environmental Protection (MassDEP) has reviewed a November 2005 report by SEA Consultants, Inc. (SEA), that presents a site examination request and prolonged pumping test design for four proposed Town of Framingham municipal wells. The wells are proposed for installation at the site of the Town's Birch Road Wells Nos. 1, 2, and 3. (These wells are also known as the Cochituate Wells or the Saxonville Wells.) The wells were used by the Town as a regular source of public water supply from 1939 until 1966, and were then used intermittently until 1979 to supplement the Metropolitan District Commission supply. The wells were shut down due to elevated iron and manganese levels that could not be mitigated by sequestration treatment. Since 1979, the Town has maintained the wells for emergency use. The wells were last used for a 15-day period in 1984.

SEA proposes four new wells to replace the former wells, at locations referred to as TW-1 through TW-4. TW-2 is immediately adjacent to Birch Road Well No. 3, and TW-3 is immediately adjacent to Well No. 2. Wells TW-1 and TW-4 are about 275 and 250 feet from Well No. 1. A 12-inch diameter gravel-developed test well has been installed at each location, with depths ranging from 60 to 74 feet below the ground surface. SEA estimates that a total of up to 4.3 million gallons per day (MGD) of water could be obtained from the Birch Road site.

The Birch Road Wells are situated in an aquifer that fills a bedrock valley extending to the south beneath Lake Cochituate. The stratified drift deposits become very thick just south (upgradient) of the wells, though not all of the material is coarse-grained. Two wells drilled between the Birch Road site and the northern end of Lake Cochituate hit bedrock at depths of 203 and 163 feet beneath the land surface; the depth to bedrock reaches 265 feet one-half mile southeast of the Birch Road Wells (*Hydrologic Data of the Lake Cochituate Drainage Basin, Framingham-Natick, Massachusetts*, U.S. Geological Survey, Massachusetts Hydrologic-Data Report No. 23, 1981).

MassDEP representatives inspected the well sites on February 2, 2006. The well field was reportedly mined for sand and gravel from the 1850s until about 1910, and the area around the wells has been extensively reworked as a result. There is a gasoline service station about 1,000 feet upgradient from the wells. A right-of-way for high tension electrical transmission lines runs through the well site.

The large New England Sand and Gravel property to the north and west of the wells has historically been used for sand and gravel mining, and is planned for redevelopment as residential housing. A large volume of the cuttings from construction of the Massachusetts Water Resources Authority (MWRA) MetroWest Tunnel was excavated and deposited at this property. At MassDEP's request, the amount of cuttings deposited within the Zone I protective radii of the wells was minimized. Some cuttings were deposited on the periphery of the Zone I for Birch Road Well No. 3 (and TW-2). In addition, an area within Well No. 3's Zone I was used as a siltation basin. In the mid-'80s, a lessee conducting materials testing on a portion of the New England Sand and Gravel property released tetrachloroethylene (also called perchloroethylene, or PCE) to the ground, causing PCE levels of up to 260 micrograms per liter (μg/L) in groundwater at the site. The PCE has dissipated over time; by June 2005, the highest level found was 12.5 μg/L.

Preliminary water quality analyses suggest that the wells will need treatment. Samples were collected from wells TW-2, TW-3, and TW-4, and a 21-day pumping test was run on well TW-4 from August 18 until September 8, 2005, to obtain additional water quality data. At the end of the 21-day test, TW-4 contained 4.9 milligrams per liter (mg/L) of iron and 0.99 mg/L of manganese, and also had elevated turbidity, color, and sodium levels. A preliminary sample from TW-4 in June 2005 had contained 520 mg/L of total dissolved solids and 200 mg/L of hardness; these parameters were somewhat lower at the end of the 21-day test. TW-3 had 5.8 mg/L of iron and 0.8 of manganese in June 2005, and also contained 0.011 mg/L of arsenic, slightly in excess of the 0.010 mg/L Maximum Contaminant Level that took effect in January 2006. Well TW-2 had better water quality than the other wells, though the pH was 6.3, slightly below the acceptable range of 6.5 to 8.5.

Well TW-4 had significantly higher levels of calcium, magnesium, chloride, total dissolved solids, alkalinity, and hardness than wells TW-2 and TW-3; the reason for this is not yet known. Total dissolved solids and dissolved iron were the only parameters that were significantly higher in TW-4 at the end of the 21-day test than at the beginning. Well TW-4 is the farthest well from the tunnel cuttings at the New England Sand and Gravel property, so the cuttings seem unlikely to be the source of the elevated levels of inorganic parameters at TW-4.

The Town of Framingham owns or controls the Zone I for the existing and proposed wells. On February 5, 2004, MassDEP conducted a public hearing relative to the Town's proposed acquisition of a portion of the New England Sand and Gravel property within the Zone I of the existing wells. MassDEP approved acquisition of the land or rights in land on February 17, 2004. The Town obtained a Conservation Restriction on this land from Riverpath Associates Limited Partnership in December 2004. The locations for wells TW-1 through TW-4 were chosen so that the entire Zone I will fall within the land owned or controlled by the Town.

The design for the pumping test includes four 12-inch production wells pumping at a combined rate of 1,550 gpm (2.23 MGD), 20 observation wells, 8 piezometers, 4 staff gauges, and an ambient well. SEA had proposed to discharge the pumped water about 1,000 feet northeast of the production wells, but has since concluded that the location is not suitable. Alternative discharge locations are presently being evaluated.

APPROVAL AND REQUIREMENTS

MassDEP **approves** test well sites TW-1 through TW-4 for further testing for public water supply. MassDEP also **approves** the design of the prolonged pumping test. **Please note that this letter does not constitute approval for water production or use from the site.** Such approval will depend on the results of water quality and water quantity testing of the site, as described in *Guidelines and Policies for Public Water Systems*. The following requirements must be met:

1. The pumping test must accomplish the work described in SEA's November 2005 proposal.

2. The pumping test must be conducted within one year of the date of this letter. After this date, a new approval will be required.

3. This office must be informed as to when the pumping test is expected to begin.

4. A final report on the pumping test must be submitted to this office for approval should the proponent wish to use production wells at this site for public water supply. Three copies of this document must be submitted, along with a MassDEP transmittal form and an application for MassDEP Permit Category BRPWS19.

5. When a pumping test of multiple wells has been conducted in the MassDEP Northeast Region, the prolonged test has typically been preceded by 24-hour tests of the individual wells to get early-time data for determination of aquifer characteristics. Available data may provide this information for all the wells except TW-1. SEA previously conducted a pumping test at the Birch Road Wells in 1991; the 24-hour tests on Wells Nos. 2 and 3 may provide sufficient data for TW-2 and TW-3. The August-September 2005 test of TW-4 may provide sufficient data for this well. SEA should review the available data and add 24-hour tests to the pumping test design as needed.

6. The observation well immediately adjacent to TW-2 has been destroyed, apparently by a snowplow. A new observation well must be installed beside TW-2. An additional observation well must be installed to the south of TW-2, roughly midway between TW-2 and the New England Sand and Gravel access road.

7. To avoid complications that have occurred on some recent pumping tests, please make sure that the laboratory analyzing the water quality samples is aware that 1) the samples are drinking water samples, and must be analyzed using drinking water analytical methods, detection limits, and holding times; and 2) nitrate and nitrite must be included in

the inorganic analyses. All laboratory water quality samples must be analyzed by laboratories certified by the Commonwealth of Massachusetts to perform these analyses.

8. In addition to the water quality testing requirements shown in Appendix A of *Guidelines and Policies for Public Water Systems*, the wells must be tested for perchlorate at the end of the pumping test. Samples must be collected at the end of the pumping test from well 8-90 for analysis of volatile organic compounds (VOCs) and extractable petroleum hydrocarbons (EPH). A VOC sample must be collected from well MW-1R at the end of the pumping test. The proposed microscopic particulate analysis at the end of the pumping test is not required by MassDEP.

9. Surface water flow from the wetland and ponds east of the well field through the culvert under the Hultman Aqueduct into Pod Meadow shall be assessed as part of the pumping test. It is recommended that this include a determination of the configuration of the culvert, and monitoring during seasonal high and low flow periods.

10. Water levels in all potential vernal pools within the expected area of influence shall be monitored during the pumping test, including the location just north of SEA-2 and Plot B2 on Figure 5 of the SEA report.

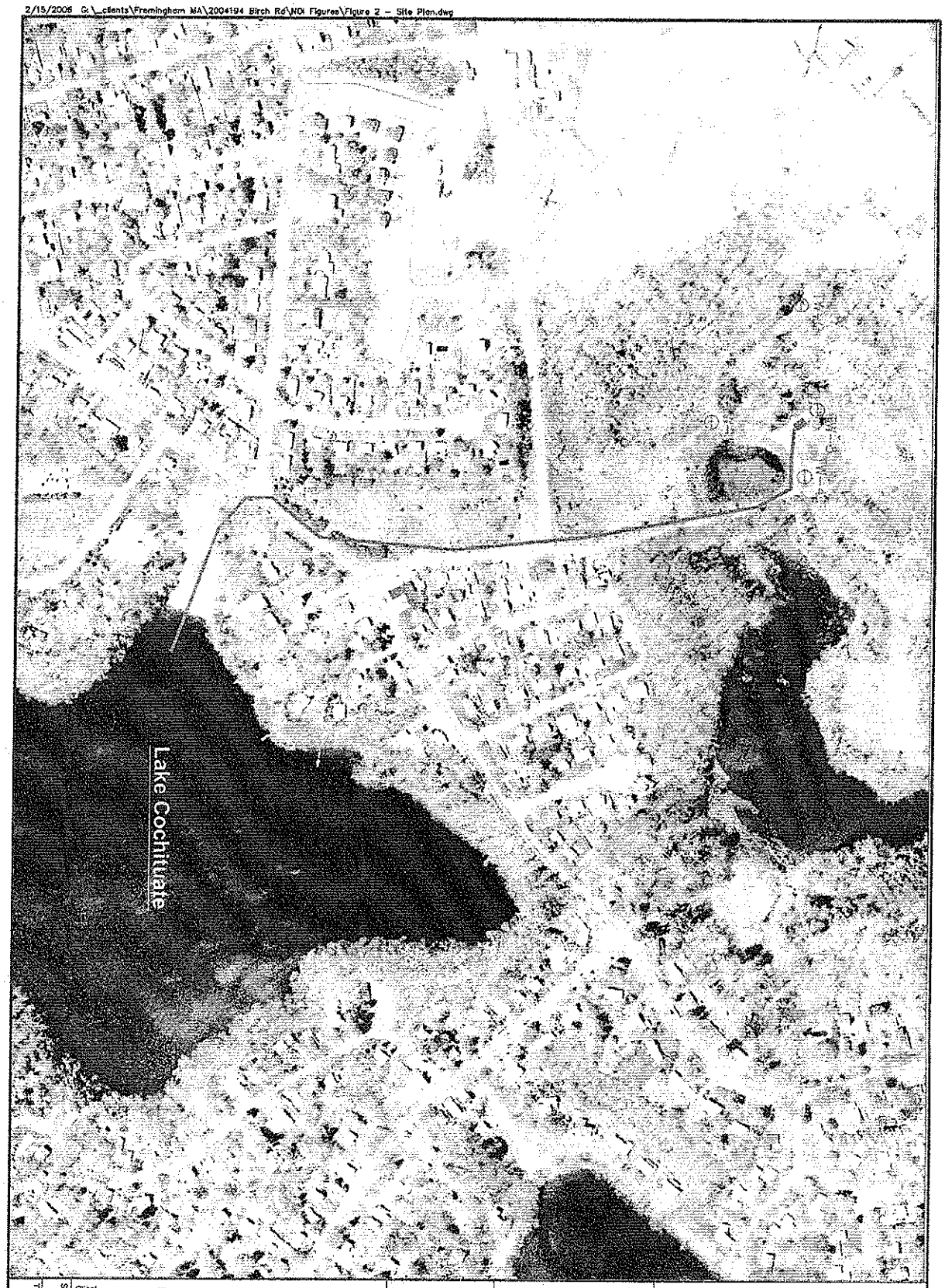
11. There is reportedly a well at the New England Sand and Gravel property, to the north or northwest of the Birch Road Wells, that is used for non-potable uses. Sand and gravel mining is expected to end before the pumping test; however, if it has not yet ended, SEA should determine whether (and at what times) the well is in use during the pumping test, so that any effects of the well upon the water-level measurements can be accounted for. In addition, pumping records for the Town of Wayland's Meadowview and Happy Hollow Wells during the pumping test should be obtained and included in the pumping test report.

12. The proposed location for the pumping test discharge point shall be submitted to MassDEP for approval prior to the start of the pumping test.

13. The Town will need to obtain a Water Withdrawal Permit in the Concord River Basin to establish the well as an authorized withdrawal point under the Water Management Act (M.G.L. ch. 21G). The Water Withdrawal Permit application must be submitted at the same time as the pumping test final report; MassDEP will review the two applications concurrently. If you have questions regarding Water Management permitting, please contact Zachary Peters at (978) 694-3247.

14. Before MassDEP will grant final approval to place the Birch Road Wells on-line, the Town must implement zoning and non-zoning controls that meet the requirements of 310 CMR 22.21(2) to protect the Zone II wellhead protection area for the wells. MassDEP has reviewed the Town's Groundwater Protection District Bylaw and sent the Town a December 22, 2005 letter that provided MassDEP's comments on the bylaw and listed the remaining actions needed to meet the requirements. If you have questions on zoning and non-zoning controls, please contact Anita Wolovick at (978) 694-3228.

2/15/2006 G:_clients\Framingham MA\2004194 Birch Rd\NOI Figures\Figure 2 - Site Plan.dwg



Total Sheets / Sheet	Client: Town of Framingham, Department of Public Works	Scale	1" = 250'
	Project: Birch Road Well Replacement, Notice of Intent - Prolonged Pumping Test	Date	2/15/06
		Job No.	2004194.01-A
		Designed by	
	Drawing: Site Plan, Proposed Route of Pump Test Discharge	Drawn by	
		Checked by	
		Approved by	

SEA Consultants Inc.
Scientists/Engineers/Architects
CONCORD, NEW HAMPSHIRE ROCKY HILL, CONNECTICUT
CAMBRIDGE, MASSACHUSETTS

Table 1 Summary of Water Quality Data

Post-Installation Test Well Development
Birch Road Wellfield, Framingham, MA

Analyte	Standards	TW-2	TW-3	TW-4
Turbidity (NTU)	1	<0.20	0.21	19
Odor (TON)		none	none	none
Color, Apparent (APCU)	15**	nd	8	26
Alkalinity, Total (mg $CaCO_3/L^2$)		56	45	81
TDS ($^{mg}/_{l}$)	500**	280	280	520
Chloride (mg/l)	250**	94	95	170
Sulfate (mg/l)	250**	23	20	24
pH (SU)	6.5-8.5	6.3	6.5	7.2
Nitrite (mg/l)	1	<0.05	<0.05	<0.05
Nitrate (mg/l)	10	0.18	<0.10	<0.10
Hardness (mg/l)		34	77	200
Aluminum (mg/l)	0.05 - 0.2**	<0.10	<0.10	<0.10
Arsenic (mg/l)	0.01	<0.005	0.011	<0.005
Calcium (mg/l)	0.01	25	23	62
Copper (mg/l)	1.3	0.01	<0.01	<0.01
Iron (mg/l)	0.3**	<0.05	5.8	3.8
Lead (mg/l)	0.015	0.003	<0.10	<0.10
Magnesium (mg/l)		5.4	5	11
Manganese (mg/l)	0.05**	0.03	0.8	1.2
Potassium (mg/l)		4.3	4.6	6
Silver (mg/l)	0.050*	<0.010	<0.007	<0.010
Zinc (mg/l)	2*	<0.05	<0.05	<0.05
VOCs ($^{mg}/_{l}$)	varies	nd	nd	nd
Perchlorate ($^{mg}/_{l}$)	1	<1.00		<1.00
Specific Conductance ($^{(mmhos}/_{cm}$)		480		800

Notes:
* - Office of Research and Standards Guideline.
** - Secondary Standard for Aesthetic Quality.

Table 2 Summary of Test Well No. 4 Water Quality Data

Birch Road Well Re-Activation
Framingham, Massachusetts

	MCL	SMCL/ ORSG	8/19/2005	8/22/2005	8/25/2005	8/29/2005	9/1/2005	9/6/2005	9/8/2005
Turbidity		*77*	49	44	47	33	44	37	7.4
Odor		*3*	<1	<1	<1	<1	<1	<1	<1
Color, apparent		*15*	40	34	85	60	70	65	34
Alkalinity, Total			79	79	81	80	81	82	98
TDS mg/l		*500*	130	340	320	310	330	320	360
Chloride - mg/l		*250*	160	120	120	120	101	110	130
Sulfate - mg/l		*250*	24	23	24	23	21	23	23
Cyanide, Total - mg/l	*0.2*		<0.005	-	<0.005	<0.005	<0.005	-	<0.005
Fluoride - mg/l	*4*	*2*	<0.10	-	<0.020	<0.10	<0.10	-	<0.10
pH		*6.5-8.5*	7.3	7.2	7.2	7.1	7	7	7.1
Nitrite - mg/l	*1*		<0.05	-	<0.05	<0.05	<0.05	-	<0.05
Nitrate - mg/l	*10*		<0.10	-	<0.10	<0.10	<0.10	-	<0.10
TOC - mg/l			1.2	-	1.3	1.4	1.2	1.2	1.2
Hardness - mg/l			180	150	150	140	140	150	160
Aluminum, Total - mg/l		*0.05-0.2*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony, Total - mg/l	*0.006*		<0.002	-	<0.002	<0.002	<0.002	-	<0.002
Arsenic, Total - mg/l	*0.01*		0.003	-	0.003	0.003	0.002	-	0.003
Barium, Total - mg/l	*2*		0.151	-	0.122	0.12	0.119	-	0.128
Beryllium, Total - mg/l	*0.004*		<0.001	-	<0.001	<0.001	<0.001	-	<0.001
Cadmium, Total - mg/l	*0.005*		<0.001	-	<0.001	<0.001	<0.001	-	<0.001
Calcium, Total - mg/l			57	46	46	44	45	46	51
Chromium, Total - mg/l	*0.01*		<0.001	-	<0.001	<0.001	<0.001	-	<0.001
Copper, Total - mg/l	*1.3*	*1*	<0.001	<0.01	0.083	0.022	0.002	<0.001	<0.001
Iron, Total - mg/l		*0.3*	4.2	4.4	4.6	4.7	4.8	5	4.9
Lead, Total - mg/l	*0.015*		<0.001	-	0.003	0.001	<0.001	-	<0.001
Magnesium, Total - mg/l			10	8.2	8.1	7.9	7.9	8	8.9
Manganese, Total - mg/l		*0.05*	1.1	0.91	0.9	0.88	0.88	0.9	0.99
Mercury, Total - mg/l	*0.002*		<0.0002	-	<0.0002	<0.0002	<0.0002	-	<0.0002
Nickel, Total - mg/l		*0.1 (ORSG)*	<0.001	-	<0.001	<0.001	<0.001	-	<0.001
Potassium, Total - mg/l			6.1	3.8	3.4	3.4	3.3	4.1	4.3
Selenium, Total - mg/l	*0.05*		<0.002	-	<0.002	<0.002	<0.002	-	<0.002
Silver, Total - mg/l		*0.1*	<0.007	<0.007	<0.010	<0.010	<0.007	<0.010	<0.010
Sodium, Total - mg/l		*20 (ORSG)*	59	-	48	46	47	-	51
Thallium, Total - mg/l	*0.002*		<0.001	-	<0.001	<0.001	<0.001	-	<0.001
Zinc, Total - mg/l		*5*	<0.05	<0.05	<0.05	<0.050	<0.05	<0.05	<0.05
Iron, Dissolved - mg/l		*0.3*	0.74	-	0.25	2.9	3.6	-	2.6
Manganese, Dissolved - mg/l		*0.05*	1.0	-	0.92	0.87	0.88	-	0.95
VOC's - ug/l			-	-	nd <0.50	-	-	-	nd <0.50
Perchlorate - mg/l	*0.002*		-	-	-	-	-	-	nd <1.00
Gross Beta - pCi/l	*50*		-	-	-	-	-	-	*3.9*
Gross Alpha - pCi/l	*15*		-	-	-	-	-	-	*0.6*
Radium 226 - pCi/l	*5*		-	-	-	-	-	-	*0.6*
Radium 228 - pCi/l			-	-	-	-	-	-	*0.8*
Radon-222 - pCi/l	*10,000*		-	-	-	-	-	-	*870*

Notes:
"-" - Compound not analyzed for.
<0.05 - Compound not detected above the Laboratory Reportable Detection Limit (RDL).
MCL - Maximum Contaminant Level.
SMCL - Secondary Standard for Aesthetics.
ORSG - Office of Research and Standards Goal.
* - Standard is SMCL unless otherwise noted.
Results for Radionuclides have not been received as of 9-21-2005.

DEP	Watershed and Kickemuit River Watershed	Swansea
DEP	Notice of Remedy Implementation Plan	Otis
MHD	Notice of Application for a 401 Water Quality Certification	Shutesbury
City of Boston/OCD	Notice of Quarterly Meeting Schedule for the City/State Groundwater Working Group	Boston
Town of Framingham	Notice of Request for Site Examination	Framingham

Top
Executive Office of Environmental Affairs
Mitt Romney, Governor
Kerry Healey, Lt. Governor
Robert W. Golledge, Jr., Secretary
100 Cambridge Street, Suite 900, Boston MA 02114
(617) 626-1020
FAX (617) 626-1181
Privacy Policy

Town of Framingham, Department of Public Works, has applied to DEP for a Request for Site Exam application for siting or expanding a public water supply source to withdraw up to approximately 4.3 mgd of water from the groundwater of the *Sudbury* River Basin in *Framingham, Massachusetts*. The location(s) of the withdrawal point(s) are *northwest of Birch Road in Framingham*.

Written comments on the granting of a DEP permit to conduct additional testing of the site for a new or expanded water supply withdrawal are to be filed within thirty (30) days of publication of this notice in the Environmental Monitor. The written comments are to be submitted to the Water Management Program at the DEP Northeast Regional Office, 205B Lowell Street, Wilmington, Massachusetts 01887.

Commonwealth of Massachusetts

Division of Fisheries & Wildlife

MassWildlife

Wayne F. MacCallum, *Director*

June 3, 2005

Peter Newton
SEA Consultants, Inc.
485 Massachusetts Avenue
Cambridge, MA 02139

Re: Birch Road Wellfield Replacement
Framingham, MA
NHESP File: 05-17961

Dear Mr. Newton,

Thank you for contacting the Natural Heritage and Endangered Species Program ("NHESP") of the MA Division of Fisheries & Wildlife for information regarding state-protected rare species in the vicinity of the site identified above.

At this time we are not aware of any rare plants or animals or exemplary natural communities in the vicinity of this site.

This evaluation is based on the most recent information available in the NHESP database, which is constantly being expanded and updated through ongoing research and inventory. Should your site plans change, or new rare species information become available, this evaluation may be reconsidered. Please note that this determination addresses only the matter of **rare** wildlife habitat and does not pertain to other wildlife habitat issues that may be pertinent to the proposed project.

If you have any questions regarding this review please call Joanne Theriault, Environmental Review Assistant, at ext. 310.

Sincerely,

Thomas W. French

Thomas W. French, Ph.D.
Assistant Director

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
And the Framingham Wetlands Protection Bylaw, Article V, Section 18

DEP File Number: 158-1079

A. General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

From: Framingham
1. Conservation Commission

2. **This issuance is for** (check one): ☒ Order of Conditions ☐ Amended Order of Conditions

3. **To: Applicant:**

Eric	Johnson	Town of Framingham - DPW
a. First Name	b. Last Name	c. Company

150 Concord Street
d. Mailing Address

Framingham	MA	01702
e. City/Town	f. State	g. Zip Code

4. **Property Owner** (if different from applicant):

a. First Name	b. Last Name	c. Company

d. Mailing Address

e. City/Town	f. State	g. Zip Code

5. **Project Location:**

Birch Road Well Site	Framingham, MA
a. Street Address	b. City/Town
c. Assessors Map/Plat Number	d. Parcel/Lot Number

Latitude and Longitude, if known (note: electronic filers will click for GIS locator):

42.34	-71.43
e. Latitude	f. Longitude

6. **Property recorded at the Registry of Deeds for** (attach additional information if more than one parcel):

a. County	b. Certificate (if registered land)
c. Book	d. Page

7. **Dates:**

February 16, 2006	March 1, 2006	March 15, 2006
a. Date Notice of Intent Filed	b. Date Public Hearing Closed	c. Date of Issuance

8. **Final Approved Plans and Other Documents** (attach additional plan or document references as needed):

Birch Road Well Replacement - Prolonged Pumping Test
a. Plan Title

SEA Consultants, Inc.	
b. Prepared By	c. Signed and Stamped by
2/15/06	1"=250'
d. Final Revision Date	e. Scale

Transform Pad and Buried Conduit Installation
f. Additional Plan or Document Title

g. Date

9. **Total WPA Fee Paid:**

exempt	exempt	exempt
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid

B. Findings

1. **Findings pursuant to the Massachusetts Wetlands Protection Act:**

Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act. Check all that apply:

a. ☒ Public Water Supply
b. ☐ Land Containing Shellfish
c. ☒ Prevention of Pollution
d. ☒ Private Water Supply
e. ☐ Fisheries
f. ☒ Protection of Wildlife Habitat
g. ☒ Groundwater Supply
h. ☒ Storm Damage Prevention
i. ☒ Flood Control

2. **This Commission hereby finds the project, as proposed, is:** (check one of the following boxes)

Approved subject to:

☒ the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

Denied because:

☐ the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect these interests, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**

☐ the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

☒ **Buffer Zone Impacts:** Shortest distance between limit of project disturbance and wetland boundary (if available) 60 linear feet

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
3. ☐ Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
4. ☐ Bordering Vegetated Wetland	a. square feet	b. square feet	c. square feet	d. square feet
5. ☐ Land Under Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet
	e. cu.yd dredged	f. cu.yd dredged		

B. Findings (cont.)

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
6. ☐ Bordering Land Subject to Flooding	a. square feet	b. square feet	c. square feet	d. square feet
Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet
7. ☐ Isolated Land Subject to Flooding	a. square feet	b. square feet		
Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet
8. ☐ Riverfront area	a. total sq. feet	b. total sq. feet		
Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet
Sq ft between 100-200 ft	e. square feet	f. square feet	e. square feet	f. square feet

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

9. ☐ Designated Port Areas	Indicate size under Land Under the Ocean, below			
10. ☐ Land Under the Ocean	a. square feet	b. square feet		
	c. cu.yd dredged	d. cu.yd dredged		
11. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
12. ☐ Coastal Beaches	a. square feet	b. square feet	c. c/y nourishmt.	d. c/y nourishmt.
13. ☐ Coastal Dunes	a. square feet	b. square feet	c. c/y nourishmt.	d. c/y nourishmt
14. ☐ Coastal Banks	a. linear feet	b. linear feet		
15. ☐ Rocky Intertidal Shores	a. square feet	b. square feet		
16. ☐ Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
17. ☐ Land Under Salt Ponds	a. square feet	b. square feet		
	c. cu.yd dredged	d. cu.yd dredged		
18. ☐ Land Containing Shellfish	a. square feet	b. square feet	c. square feet	d. square feet
19. ☐ Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	a. cu.yd dredged	b. cu.yd dredged		
20. ☐ Land Subject to Coastal Storm Flowage	a. square feet	b. square feet		

C. General Conditions Under Massachusetts Wetlands Protection Act

(only applicable to approved projects)

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.

2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.

3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
   a. the work is a maintenance dredging project as provided for in the Act; or
   b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.

5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.

6. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.

7. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.

8. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to this Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.

9. A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

   "Massachusetts Department of Environmental Protection" [or, "MA DEP"]

   "File Number 1079 "

C. General Conditions Under Massachusetts Wetlands Protection Act

10. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before DEP.

11. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.

12. The work shall conform to the plans and special conditions referenced in this order.

13. Any change to the plans identified in Condition #12 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.

14. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

15. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.

16. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.

17. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

18. All work associated with this Order is required to comply with the Massachusetts Stormwater Policy Standards.

Special Conditions:

If you need more space for additional conditions, select box to attach a text document ☒

See page 10 and following for
Additional conditions under
The Framingham Wetlands Protection Bylaw

D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. **Is a municipal wetlands bylaw or ordinance applicable?** ☒ Yes ☐ No
2. The Framingham (Conservation Commission) hereby finds (check one that applies):
3. ☐ **that the proposed work cannot be conditioned** to meet the standards set forth in a municipal ordinance or bylaw specifically:

   Framingham Wetlands Protection Bylaw (a. Municipal Ordinance or Bylaw) — Article V, Section 18 (b. Citation)

   Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

4. ☒ **that the following additional conditions are necessary** to comply with a municipal ordinance or bylaw:

   Framingham Wetlands Protection Bylaw (a. Municipal Ordinance or Bylaw) — Article V, Section 18 (b. Citation)

   The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

   c. The special conditions relating to municipal ordinance or bylaw are as follows:

If you need more space for additional conditions, select box to attach a text document ☒

See page 10 and following for the Findings of Fact and Conditions titled "Special Conditions under the Framingham Wetlands Protection Bylaw"

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
And the Framingham Wetlands Protection Bylaw, Article V, Section 18

DEP File Number: 158-1079

E. Issuance

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

March 16, 2006
1. Date of Issuance

Please indicate the number of members who will sign this form:
This Order must be signed by a majority of the Conservation Commission.

4
2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

Notary Acknowledgement

Commonwealth of Massachusetts County of Middlesex

On this 15 (Day) of March (Month) 2006 (Year)

Before me, the undersigned Notary Public, personally appeared JUDY PERRY (Name of Document Signer)

proved to me through satisfactory evidence of identification, which was/were

Personal Knowledge
Description of evidence of identification

to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose.

As member of Framingham (City/Town) Conservation Commission

Michele Lynn Grzenda
Notary Public
My Commission Expires
November 19, 2010

Signature of Notary Public

Michele Lynn Grzenda
Printed Name of Notary Public

November 19, 2010
My Commission Expires (Date)

Place notary seal and/or any stamp above

This Order is issued to the applicant as follows:

☒ by hand delivery on 3-17-06
Date

☐ by certified mail, return receipt requested, on
Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate DEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant. Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order or Determination, or providing written information to the Department prior to issuance of a Superseding Order or Determination.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act, (M.G.L. c. 131, § 40) and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

Section G, Recording Information is available on the following page.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on Page 7 of this form shall be submitted to the Conservation Commission listed below.

Framingham
Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Framingham
Conservation Commission

Please be advised that the Order of Conditions for the Project at:

Project Location _____ 158- DEP File Number

Has been recorded at the Registry of Deeds of:

Middlesex South

Book _____ Page _____

for:

Property Owner _____

and has been noted in the chain of title of the affected property in:

Book _____ Page _____

In accordance with the Order of Conditions issued on:

Date _____

If recorded land, the instrument number identifying this transaction is:

Instrument Number _____

If registered land, the document number identifying this transaction is:

Document Number _____

Signature of Applicant _____

Special Conditions Under the Framingham Wetlands Protection Bylaw

Findings of Fact:

This is phase II of the Well Reactivation. Phase I was permitted by the commission in 2005 which allowed for the installation of monitoring wells. Phase II involves (1) a 10-day intensive pumping of the wells, (2) installation of electrical line, and (3) installation of a pre-cast 7'x7' transformer pad along the edge of paved access way.
Discharge of 2,000 gallons per minute is proposed (2.2 millions gallons/day). To prevent erosion, scouring, and siltation into a wetland, DPW proposes to install a long pipe to directly discharge ground water into Lake Cochituate. Installation of underground electrical wire and pre-cast transformer pad is proposed on dirt/paved access way.

The Commission approves the project with the following special conditions:

- Straw wattles shall be used in lieu of hay bales/siltation fences for erosion control.
- Conservation Agent shall be notified once erosion control is installed; once discharge pipe is installed; and the Office shall be notified 24 hours prior to pumping.
- If pumping discharge location needs to be modified, the Commission shall be notified and approvals shall be sought by the agent.

Overall Conditions

19. All Conditions under Section C. General Conditions Under Massachusetts Wetlands Protection Act apply under the Framingham Wetlands Protection Bylaw.

20. This Order and a copy of approved drawings and plans shall be available at the project site at all times for easy reference.

21. The Commission reserves the right to require additional conditions if deemed necessary to protect resource areas and interests as defined in MGL Chapter 131 Section 40 (310 CMR 10.00) and/or the Framingham Wetlands Protection By-Law.

22. The findings of fact are incorporated as a special condition and given equal status as a special condition of this Order.

23. A 30 foot **No Alteration Zone** upgradient from the edge of the Resource Area has been established to protect that resource area. No work of any kind, except as referenced in the plans of this Order, is permitted within this **No Alteration Zone.**

Prior to Construction

24. The erosion controls shall be installed as shown on the Plan of Record and shall be the line establishing the **Limit of Work.** Silt retention fabric must be staked and entrenched at least six (6") inches for maximum siltation control prior to any construction or site preparation.

25. This Conservation Commission will be notified one week prior to construction to allow for inspection of siltation control devices installed.

Special Conditions Under the FWPB (con't)

During Construction

26. No alterations during or after construction are permitted beyond installed siltation barrier.

27. All waste products, grubbed stumps, slash, construction materials, etc., shall be deposited at an approved landfill and shall not be in any manner incorporated into the project site with the exception of the reduction of stumps and slash to mulch.

28. Any stockpiling of topsoil or other materials shall be conducted outside the buffer zone and stabilized.

After Construction / Conditions in Perpetuity

29. Within thirty (30) days of completion of project all disturbed areas shall be permanently stabilized with rapidly growing cover with sufficient topsoil to assure long term stabilization of disturbed areas. If permanent stabilization cannot be achieved due to inappropriate growing season, appropriate temporary stabilization methods approved by the Commission shall be applied to control erosion until vegetative cover can be established during the next growing season. **Continued maintenance of this area, in a manner which assures permanent stabilization and precludes any soil erosion, shall be the responsibility of the owner of record of this property. This condition is ongoing and does not end upon completion of this project or the issuance of a Certificate of Compliance.**

30. Once the site has been stabilized, the Applicant shall remove and properly dispose of all erosion controls. The Applicant shall submit a "Request for Certificate of Compliance" to the Commission indicating that the work has been substantially complied with.

31. From and after the date of this Order of Conditions, there will be a reference to this Order on the deed for this property so as to apprise future owners that the wetland restriction shall apply to this property in perpetuity.

32. Conditions 23, 26, 31 and 32 shall run with the land and be binding in perpetuity on all successors in title and assigns of the applicant. This condition shall be noted on any Certificate of Compliance issued for its Order.

Conditions Special to this project:

33. Straw wattles shall be used in lieu of hay bales/siltation fences for erosion control.

34. The Conservation Agent shall be notified once erosion control is installed; once discharge pipe is installed; and the Office shall be notified 24 hours prior to pumping.

35. If pumping discharge location needs to be modified, the Commission shall be notified and approvals shall be sought by the agent.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
And the Framingham Wetlands Protection Bylaw, Article V, Section 18

DEP File Number: 158-1079

A. General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

From: Framingham
1. Conservation Commission

2. **This issuance is for** (check one): ☒ Order of Conditions ☐ Amended Order of Conditions

3. **To: Applicant:**

a. First Name	b. Last Name	c. Company
Eric	Johnson	Town of Framingham - DPW

d. Mailing Address: 150 Concord Street

e. City/Town	f. State	g. Zip Code
Framingham	MA	01702

4. **Property Owner** (if different from applicant):

a. First Name	b. Last Name	c. Company

d. Mailing Address

e. City/Town	f. State	g. Zip Code

2006 01407703
Bk: 305 Pg: 189 Cert#: 45571
Doc: ORD 04/13/2006 11:59 AM

5. **Project Location:**

a. Street Address	b. City/Town
Birch Road Well Site	Framingham, MA

c. Assessors Map/Plat Number	d. Parcel/Lot Number
LOT 13B	

Latitude and Longitude, if known (**note:** electronic filers will click for GIS locator):

e. Latitude	f. Longitude
42.34	-71.43

6. **Property recorded at the Registry of Deeds for** (attach additional information if more than one parcel):

a. County	b. Certificate (if registered land)

c. Book	d. Page

7. **Dates:**

a. Date Notice of Intent Filed	b. Date Public Hearing Closed	c. Date of Issuance
February 16, 2006	March 1, 2006	March 15, 2006

8. **Final Approved Plans and Other Documents** (attach additional plan or document references as needed):

a. Plan Title: Birch Road Well Replacement - Prolonged Pumping Test

b. Prepared By	c. Signed and Stamped by
SEA Consultants, Inc.	

d. Final Revision Date	e. Scale
2/15/06	1"=250'

f. Additional Plan or Document Title	g. Date
Transform Pad and Buried Conduit Installation	

9. **Total WPA Fee Paid:**

a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid
exempt	exempt	exempt

45571-305-189

Doc 01407703

Southern Middlesex LAND COURT
REGISTRY DISTRICT
RECEIVED FOR REGISTRATION

On: Apr 13,2006 at 11:59A

Document Fee 75.00 Rec Total $75.00

NOTED ON: CERT 45571 BK 00305 PG 189

HEREBY ATTEST AND CERTIFY ON 4/13/06
THAT THE FOREGOING DOCUMENT IS A FULL, TRUE AND
CORRECT COPY OF THE ORIGINAL ON FILE IN MY OFFICE
AND IN MY LEGAL CUSTODY
EUGENE C. BRUNE
ASST. RECORDER
LAND COURT

BY Eugene C. Brune

Town of Framingham 508 620 4844
NAME TEL.
STREET ADDRESS
CITY OR TOWN ZIP

S E A Consultants Inc.
Scientists/Engineers/Architects

March 7, 2006

Mike Gildesgame
Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston, MA 02114

Re: Request to Use State Lands
Town of Framingham, Birch Well Reactivation
Prolonged Pump Test Discharge

Dear Mr. Gildesgame;

This letter represents an official request on behalf of the Town of Framingham Department of Public Works to use a portion of State Lands under water at the public access to Lake Cochituate for the discharge of groundwater. The groundwater is to be derived from the performance of a prolonged pumping test in accordance with the DEP approval letter dated February 8, 2006 (attached).

The DPW is proposing to pump four (4) test wells located at the Birch Road Well Site located off Riverpath Drive at a combined rate of approximately 2,000 gallons per minute for a period of 10 days, followed by 45 days at 500 gpm. The purpose of this test is to evaluate aquifer characteristics and to perform a pilot study to evaluate water quality treatment technologies.

This discharge of pumped groundwater is proposed into the north pond of Lake Cochituate via a discharge established a minimum of 50 feet from the water line at the town/state beach off Old Connecticut Path in Framingham. The precise location is shown on the attached figure.

The discharge is anticipated to commence in early April 2006, and continue through June 15, 2006. The groundwater quality is generally good, with the exception that levels of iron at 5.0 parts per million and manganese at levels of 1.0 parts per million are anticipated. Water quality data from test well installation activities and a 2005 water quality test is included in the attached tables. Extensive water quality testing will be conducted for the duration of the pumping, and will be made available to your office for review as it is received from the laboratory.

We trust that this information is sufficient for you to process this request. Given the timeframes presented above, the favor of an expedient response is appreciated. If you have questions, please do not hesitate to contact me at (508) 743-7882.

Respectfully,

S E A CONSULTANTS INC.

Peter Newton, PG
Project Manager

485 Massachusetts Avenue
Cambridge, MA 02139-4018
(617) 497-7800
FAX (617) 498-4630
Email cambridge@seacon.com

Rocky Hill, CT
Concord, NH

I:_clients\Framingham MA\2004194 - Birch Road Wells\correspondence\DCR State Land Request.doc

Cc: Eric Johnson, Framingham DPW/Engineering

Enclosures

dcr
Massachusetts

Fax Cover Sheet

Date: 4/24/06

To: Peter Newton

Fax #: 617-498-4680

From: Dom Pezzuto

Tel #: 617-626-1373 Fax#:

Total pages: 5 (including cover sheet)

Comments: Permit

COMMONWEALTH OF MASSACHUSETTS · EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston MA 02114-2119
617-626-1250 617-626-1351 Fax
www.mass.gov/dcr

Mitt Romney
Governor

Kerry Healey
Lt. Governor

Stephen R. Pritchard, Secretary
Executive Office of Environmental Affairs

Stephen H. Burrington, Commissioner
Department of Conservation & Recreation

The Commonwealth of Massachusetts
Department of Conservation and Recreation
Division of Urban Parks and Recreation
251 Causeway Street 7th Floor
Boston, MA 02114
Permit Section

Boston **Date: April 24,2006** **Number: 22846**

A Permit is hereby issued to: **Sea Consulants 485 Cambridge Street, Cambridge Ma.02139**

Peter Newton,Project Manager 508/743/7882

The following purpose: *To enter upon DCR property* to for the purpose of pumping test discharge into Lake Cochituate,Framingham Ma.

Subject to Department of Conservation and Recreation Standard Construction Specifications and Traffic Regulations as applicable and the following special provisions:

IMPORTANT: NOTIFY PERMIT OFFICE AT (617) 626-1491 48 HOURS BEFORE BEGINNING WORK

This permit is issued and accepted upon the following terms and conditions:
The party accepting it shall conform to all provisions of law applicable to the exercise of the rights and the performance of work under the permit and to the rules and regulations of the Department of Conservation and Recreation; shall do the work subject to the approval of the **PERMIT SECTION** of the Department of Conservation and Recreation as to the time, manner and location and all other conditions; that the permit may be revoked at any time by the said **PERMIT SECTION**; that the violation of any specification or requirement in this permit shall cause or constitute an immediate revocation thereof; shall protect and maintain all trees, drainage and other structures; shall restore the surface of the ground to a condition satisfactory to the **PERMIT SECTION** and maintain it in such condition against damage caused by the above mentioned work; and during the process of the work shall place and maintain proper barriers at all times, and from the beginning of twilight through the whole of every night sufficient lights to protect the public from injury or damage. If the work herein authorized is for a driveway entrance, this permit is granted and accepted on the condition that if the ownership of the land to which the entrance is appurtenant shall at any time become united with that of any adjoining lot fronting on the boulevard and also having an entrance on said boulevard, then the Department of Conservation and Recreation may revoke the right to maintain any or all of such entrances and grant a single entrance in place thereof. The entrance hereby granted shall be used only for the premises shown on the plan.

1. Advance notice of starting work shall be given to Lt. Fred Morse 508/820/2250 **Framingham State Police.**. The Contractor is required to use as many police details as needed to ensure the safety of pedestrian and vehicular traffic at all times.

2. **DCR/DUPR Roadways shall not be occupied between the hours of 6:30 a.m. and 9:30 a.m. and the hours of 3:30 p.m. and 6:30 p.m. Monday through Friday without special permission from the Commission.**

3. **HOLIDAY SHUTDOWN** Work shall be shutdown at 12:00 p.m. on the eve of major holidays to include: Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas and New Year's Day.

4. Disturbed DCR property **shall be** returned to original or better condition.

5. Pedestrian and vehicular traffic flow and safety shall be maintained at all times. Detours shall conform to **MUTCD** Guidelines **(All as may be necessary)**. Divert pedestrian access along the sidewalk during trench excavation across the sidewalk to the alternate pedestrian by-pass.

6. Maintain a minimum of 3 feet to permit passerby to access alternate passage by the work in the sidewalk during excavation.

7. Leave sidewalk areas clear and open to permit unimpeded passage by any excavation work for pedestrian traffic at all times during the installation of the gas main and gas service line.

8. **DIG SAFE NOTIFICATION.** Prior to commencement of any work under this Permit, Dig Safe must be notified for field mark-out of utilities.

9. The various service branch utility lines shall be coordinated to the greatest extent possible to reduce the number of and time for lane closures.

10. Barricade the excavations with safety fencing and reflectorized drums with flashers Type A to prohibit and guide personnel from free access to the work area.

11. Site specific Traffic Management Plans that were submitted for review that were approved by the DCR shall be strictly adhered to during field operations.

12. **Signage indicating the nature of the work being performed, naming the Permittees for this work, and informing the public of contact numbers for all purposes of allowing communications by the public with such identified personnel, shall be erected and maintained throughout the term of this Permit.** All temporary signage shall be removed or covered when work is not in progress.

13. Remove all construction debris accumulated as a result of this work from DCR property as soon as possible.

14. Installation of a piezometer/staff gage at the north end of Lake Cochituate's north pond at Framingham's expense;

15. Notification to DCR of the start date for the test at least five days prior to the start of the pumping period;

16. Permission for DCR staff to access the piezometer/staff gage at Cochituate to make independent measurements during all phases of the pumping test (at any time after its installation);

17. Permission for DCR staff to access the nearest observation well north of Lake Cochituate to make independent measurements during all phases of the pumping test;

18. Framingham shall provide DCR with a copy of the1992 pumping test report prior to the start of the 2006 pumping test;

19. Framingham shall provide DCR with a printed copy of Figure 2 (site plan) from the current pumping test plan;

20. Framingham will be granted permission to discharge into Lake Cochituate at a rate no greater than approximately 1550 gallons per minute (gpm) for no longer than 10 days prior to (date with respect to recreation?);

21. Framingham will make measurements at the Lake Cochituate piezometer/staff gage at least 2 times per day during the pumping period in accordance with the DEP approved pumping test plan and visually inspect the discharge at least twice a day;

22. Framingham shall make all efforts to ensure safety of public uses of Lake Cochituate (including boating) around the discharge pipe and outfall and shall consult with park staff to coordinate prior to operating the pumps;

23. Framingham shall perform discharge water quality testing in accordance with the DEP approved pumping test plan and notify DCR immediately of any results that are above Massachusetts public water supply drinking water standards;

24. Framingham is to analyze impacts of long-term well use on Lake Cochituate water levels and include the methodology and results of this analysis in its pumping test report; and

25. Framingham is to provide a copy of the 2006 pumping test report to DCR concurrently with its submittal to DEP.

It is the sole responsibility of the PERMITTEE to obtain ALL other permits required by law before commencing any work.

OSHA Standards for Safety shall be adhered to during the construction period.

It is the sole responsibility of the PERMITTEE to locate ALL utilities below ground and elsewhere by any means necessary; to ensure safe excavations and/or other related work.

Construction under this Permit expires: **June 30,2006**

All obligations undertaken by the Permittees under the terms of this Permit shall expressly survive the given expiration date until such obligations are completed to the satisfaction of the DCR.

This permit (or copy) should be on work site at all times

P (617) 626-1491
F (617) 626-1370

By _____
Donald Guidoboni, Permit Director
Department of Conservation and Recreation

PLEASE SEE ATTACHMENT # 3

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CONSERVATION AND RECREATION
PERMIT SECTION
PAYMENT TRANSMITTAL FORM

PERMIT #: 22846 **DATE:** April 24, 2006

Short Description: Install monitoring wells Donald Guidoboni

ISSUED TO: SEA
PETER NEWTON

PERMIT DATE	DESCRIPTION	UNIT	PRICE	AMOUNT DUE
April 11, 2006	Administrative Fee	1	$25.00	$25.00
		*TOTAL AMOUNT DUE:		$25.00

FOR FINANCE USE ONLY	
RECEIVED BY	
DATE RECEIVED	
RECEIPT NUMBER	
CHECK NUMBER	
AMOUNT REC'D	

NOTICE TO PERMIT APPLICANT

PLEASE SUBMIT THIS FORM WITH YOUR PAYMENT.
Mail the check to: DCR OFFICE of PERMITS, 7th Floor 251 Causeway Street Boston, Ma 02114
Make your check out to: THE COMMONWEALTH OF MASSACHUSETTS with the permit # to insure credit.
PERMITS WILL NOT BE ISSUED WITHOUT PROOF OF PAYMENT.
The payment must be received within 30 days, if not received the DCR may rescind the permit approval.
FOR QUESTIONS ON PAYMENTS PLEASE CALL 617-626-4936
Thank You
**PER CODE OF MASSACHUSETTS REGULATIONS TITLE 350: DEPARTMENT OF CONSERVATION AND RECREATION, CHAPTER 14.08*

APPENDIX B

GROUNDWATER CONTOUR MAPS

PLOT DATE=10/12/2007 11:35:58 AM USER=CRISTINA PEREZ-PEDINI FILENAME=G:_clients\Framingham MA\2004194 Birch Rd\survey\2004194_Survey(NAD83 Meters)CPP4.dwg

Sheet 1	Client: TOWN OF FRAMINGHAM, MASSACHUSETTS	Scale	1":100'			
		Date	09 / 17 / 2007			
	Project: BIRCH ROAD WELLS RE-DEVELOPMENT	Job No.	2004194.22-A			
		Designed by	####			
		Drawn by	CPP			
	Drawing: PUMPING TEST MONITORING LOCATIONS	Checked by	####	No.	Description	Date
		Approved by	####		REVISIONS	

SEA

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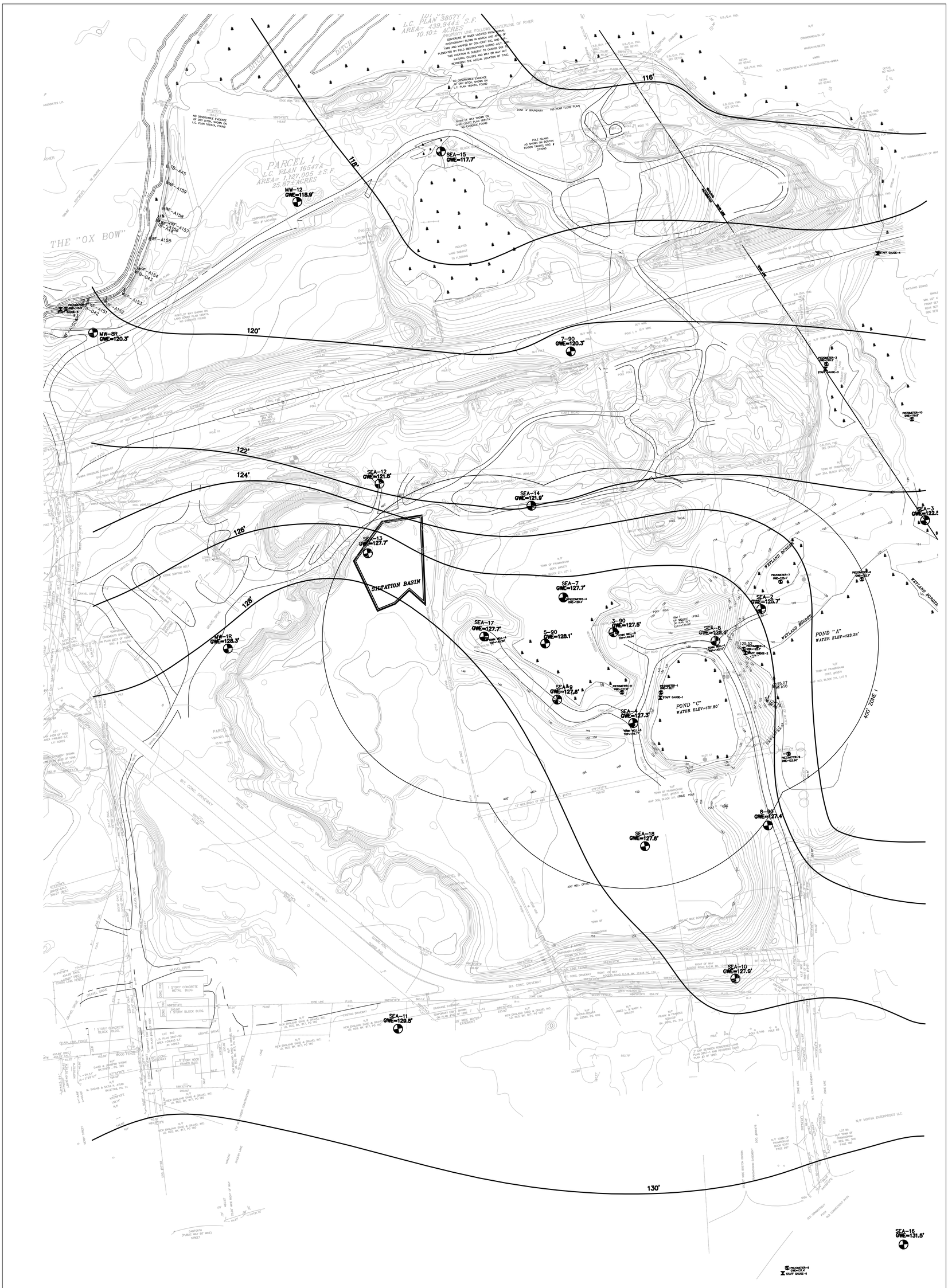
Scientists/Engineers/Architects

1 OF 3

PLOT DATE=10/15/2007 2:55:16 PM USER=CRISTINA PEREZ-PEDINI FILENAME=G:_clients\Framingham MA\2004194 Birch Rd\survey\2004194_Survey(NAD83 Meters)CPP4.dwg

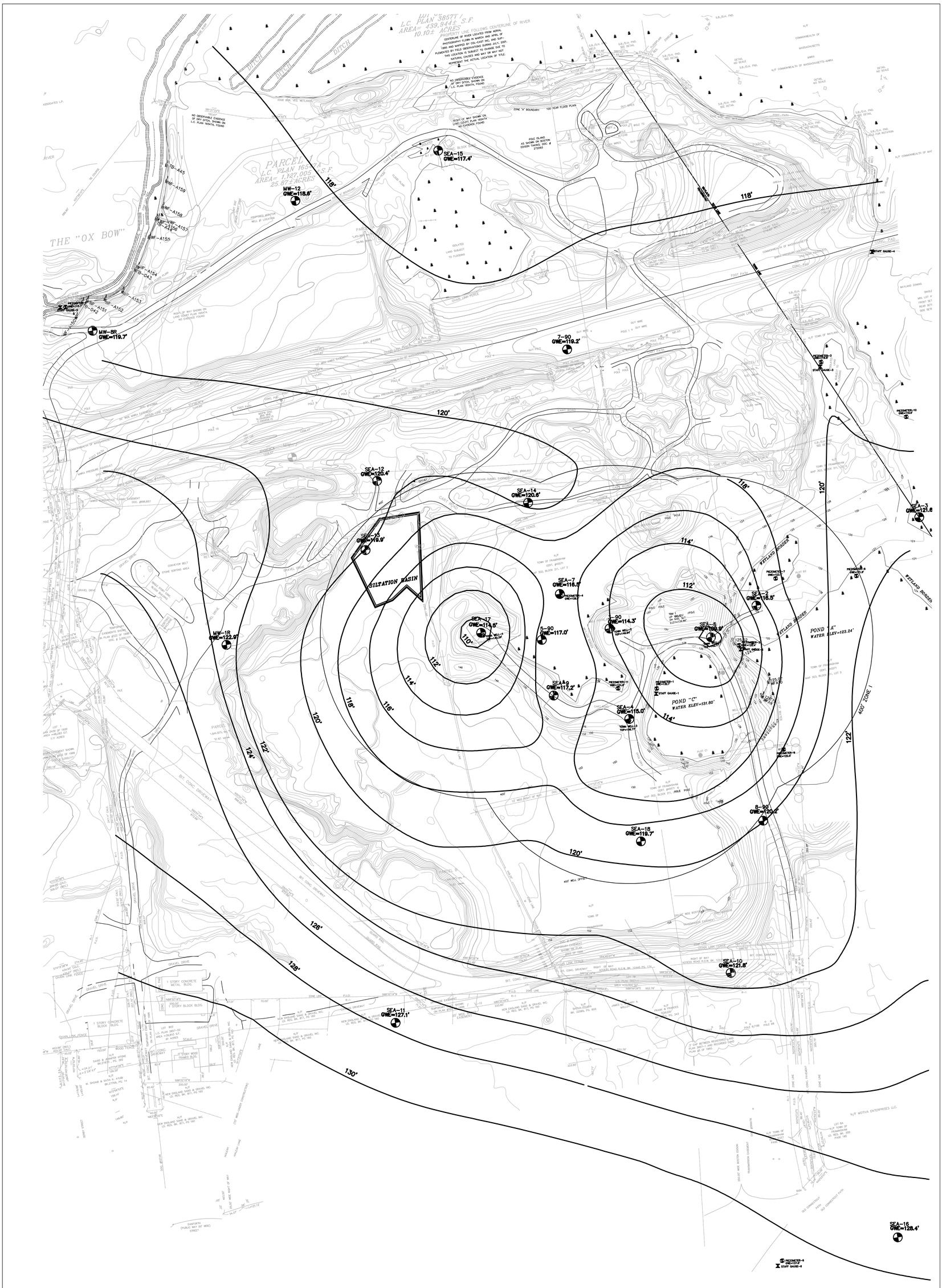


Sheet 2	Client: TOWN OF FRAMINGHAM, MASSACHUSETTS	Scale	1"=100'			
		Date	09 / 17 / 2007			
	Project: BIRCH ROAD WELLS RE-DEVELOPMENT	Job No.	2004194.22-A			
		Designed by	####			
		Drawn by	CPP			
	Drawing: GROUNDWATER COUNTOURS AT T=0 MIN	Checked by	####	No.	Description	Date
		Approved by	####		REVISIONS	

SEA CONSULTANTS INC.
Scientists/Engineers/Architects

2 OF 3

PLOT DATE=10/15/2007 2:56:19 PM USER=CRISTINA PEREZ-PEDINI FILENAME=G:_clients\Framingham MA\2004194 Birch Rd\survey\2004194_Survey(NAD83 Meters)CPP4.dwg



Sheet 3	Client: TOWN OF FRAMINGHAM, MASSACHUSETTS	Scale	1":100'		
		Date	09 / 17 / 2007		
	Project: BIRCH ROAD WELLS RE-DEVELOPMENT	Job No.	2004194.22-A		
		Designed by	####		
	Drawing: GROUNDWATER CONTOURS AT END OF TEST	Drawn by	CPP		
		Checked by	####	No.	Description / Date
		Approved by	####		REVISIONS

SEA

SEA CONSULTANTS INC.
Scientists/Engineers/Architects

APPENDIX C

DRILLING LOGS AND OBSERVATION WELL CONSTRUCTION DIAGRAMS

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 20' Fine to Medium Sand & Gravel	
20 to 25' Fine to Medium Sand & Gravel	
25 to 32.5' Fine to Medium Sand & Gravel	
Top of Screen	27.50'
Bottom of Test Hole / Screen	32.50'

DATE	12/14/2004	TEST WELL No.	SEA#2
OWNER	Town of Framingham, MA		
LOCATION			
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	32.50'	Screen Setting	27.5 to 32.5'
		Slot Size	0.060"
Riser Material	Steel	Screen Material	SST
Pipe Left In	28.50'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 21"
Static Water Level	3.50'		

COMMENTS:

Refusal at 32.50' (hit something very hard)

Driller / Helper: Mel Hafford / Brandon Sudsbury

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 20' Fine to Medium Sand	
20 to 25' Fine to Medium Sand - Silty	
25 to 35' Fine to Medium Sand Small Trace of Gravel Silty - Trace of Clay	
35 to 42' Fine to Medium Sand - Silty - Clay	
42 to 49' Clay	
49 to 64' Silty, Trace Clay Some Small Sharp Pieces of Gravel	
64 to 77' Silty Clay	
Top of Screen	59'
Bottom of Screen	64'
Bottom of Test Hole	77'

DATE	12-15-04	TEST WELL No.	SEA#3
OWNER	Town of Framingham, MA		
LOCATION			
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	77'	Screen Setting	59 to 64'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	57'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	5 / 25"
Static Water Level	8'		

COMMENTS:

SEA#3 is 580' from SEA#2

Material had a lot of silt in it.

Driller / Helper: Mel Hafford / Brandon Sudsbury

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 40' Fine to Medium Sand & Gravel	
40 to 50' SAME - Getting Finer	
50 to 56' Fine to Medium Sand, Some Gravel Trace Clay	
56 to 61' Fine to Medium Sand, Some Gravel A lot of Fines (Silt), Trace Clay	
60 to 75' Fine to Medium Sand, Some Fines Trace Fine to Medium Gravel	
75 o 80' Fine to Medium Sand, Some Fines	
Top of Screen	75'
Bottom of Test Hole / Screen	80'

DATE	12-28-04	TEST WELL No.	SEA#4A(deep)
OWNER	Town of Framingham, MA		
LOCATION	River Path		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	80' (bedrock ?)	Screen Setting	75 to 80'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	73'	Screen Left In	5'

Development Information

Hrs Developed	2	GPM / Vacuum	70 / 17"
Static Water Level	16'		

COMMENTS:

Screen set from 51.5 to 56.5' was developed and pulled. Engineer wants to take boring to refusal to get more information about aquifer materials.

Driller / Helper: Mel Hafford / Doug Stokes

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 20' Very Fine, Silty, Gray	
20 to 40' Fine to Medium Sand, Trace of Fine to Medium Gravel	
40 to 50' Fine to Medium Sand	
50 to 55' Silty, Traces of Wood Chips	
55 to 70' Fine to Medium Sand & Gravel	
70 to 74' A lot of Mica / Clay	
Top of Screen	65'
Bottom of Screen	70'
Bottom of Test Hole	74'

DATE	12/28/2004	TEST WELL No.	SEA#7
OWNER	Town of Framingham, MA		
LOCATION	River Path		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	74'	Screen Setting	65 to 70'
		Slot Size	0.050"
Riser Material	Steel	Screen Material	SST
Pipe Left In	71'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 17
Static Water Level	6'		

COMMENTS:

After pumping water had a light sulphur smell.

Driller / Helper: Mel Hafford / Doug Stokes

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1'	Depth
Ground Surface	0'	

0 to 34'
Fine to Coarse Brown Sand & Gravel
Gravel is Broken & Sharp

34 to 41'
Coarse Gravel
Fine to Coarse Sand

41 to 48'
Coarse Gravel - Broken & Sharp
Fine to Medium Sand - Trace Clay

48 to 62'
Coarse to Fine Gravel
Coarse to Fine Sand - Dark

62 to 71'
Coarse Gravel - Broken & Sharp
Coarse to Fine Sand
Drank All Water
Refusal @ 71'

Top of Screen 66'

Bottom of Test Hole / Screen 71'

DATE	1/5/2005	TEST WELL No.	SEA#8
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	71'	Screen Setting	66 to 71'
		Slot Size	0.040"
Riser Material	Steel	Screen Material	SST
Pipe Left In	66'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	90 / 14"
Static Water Level	14'		

COMMENTS:

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.5'	Depth
Ground Surface	0'	

0 to 33'
Fine to Coarse Brown Sand & Gravel

33 to 48'
SAME - Traces of Clay

48 to 62'
Fine to Coarse Sand
Medium to Fine Gravel

62 to 70'
Coarse to Fine Brown Sand
Traces of Fine Gravel

70 to 84'
Coarse to Medium Sand
Large Cobbles

84 to 91'
Coarse Gravel
Coarse to Fine Sand - Clay

91 to 98'
Coarse to Fine Sand - Clay
Some Gravel

98 to 105'
Coarse to Fine Sand - Fine Gravel - Clay

105 to 112'
Fine Sand & Gravel - Clay - Tight

Top of Screen	100'
Bottom of Screen	105'
Bottom of Test Hole	112'

DATE	1/9/2005	TEST WELL No.	SEA#9
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	112'	Screen Setting	100 to 105'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	99.50'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	20 / 17"
Static Water Level	11'		

COMMENTS:

Drilled to 112', but pulled back to 105' and set screen from 100 to 105'.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.0'	Depth
Ground Surface	0'	
0 to 20' Coarse Brown Sand & Gravel Coarse to Fine Sand		
20 to 41' Brown Silty Sand & Clay Traces of Gravel		
41 to 55' Coarse to Medium Gravel Coarse to Fine Sand		
55 to 71' Coarse to Fine Sand Coarse to Fine Gravel Traces of Clay		
71 to 72' Till Refusal @ 72'		
Top of Screen	66'	
Bottom of Screen	71'	
Bottom of Test Hole	72'	

DATE	1/12/2005	TEST WELL No.	SEA#10
OWNER	Town of Framingham, MA		
LOCATION	Access Road to Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	72'	Screen Setting	66 to 71'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	67	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	52.50'		

COMMENTS:

Refusal @ 72'

Deep static prevented conventional development; Jet pump to be used.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.5'	Depth
Ground Surface	0'	
0 to 15' Coarse Gravel; Coarse to Fine Sand		
15 to 20' Fine to Coarse Sand Trace of Fine Gravel		
20 to 55' Fine Silty Sands and Clay (did not drink water at all)		
55 to 68' Fine Brown Sand Traces of Clay		
68 to 77' Fine to Coarse Gray Sand 20% Coarse to Fine Gravel Gray Clay		
Top of Screen	72'	
Bottom of Test Hole / Screen	77'	

DATE	1/20/2005	TEST WELL No.	SEA#11
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	77'	Screen Setting	72 to 77'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	73.50'	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	44.50'		

COMMENTS:

77' is NOT refusal; drilled stopped by SEA

Deep static prevented conventional development; Jet pump to be used.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 4'	Depth
Ground Surface	0'	
0 to 5' Fill		
5 to 20' Coarse Gravel, Broken & Sharp Traces of Clay & Silt		
20 to 27' Silty Clay and Sands		
27 to 50' Silty Brown Sand		
50 to 73' Silty Brown Sand and Clay		
73 to 85' Brown Sand Traces of Clay		
Top of Screen	80'	
Bottom of Test Hole / Screen	85'	

DATE	1/26/05	TEST WELL No.	SEA#12
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	85'	Screen Setting	80 to 85'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	82'	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	32'		

COMMENTS:

Did not develop well upon completion - deep static.

Well drank water slowly.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 5' Sity Gray Backfill		
5 to 20' Gravel w/Silty Gray Sands		
20 to 27' Silty Sand		
27 to 34' Silty Gray Clay - Fine Sand		
34 to 43' Gray Silty Clay		
43 to 49' Coarse to Fine Sand & Gravel		
49 to 67' Coarse to Fine Sand & Gravel		
67 to 77' Silty Brown Sand & Clays		
77 to 95' Fine Brown Sand		
95 to 95.5' Till w/Ledge @ 95.50'		
Top of Screen	62'	
Bottom of Screen	67'	
Bottom of Test Hole	95.50'	

DATE	1/31/05	TEST WELL No.	SEA#13
OWNER	Town of Framingham, MA		
LOCATION	Next to Silt Pond		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	95.50'	Screen Setting	62 to 67'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	64'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	22.50'		

COMMENTS:

Bailed well for 1-Hour.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 8' Coarse Gravel		
8 to 15' Fine to Coarse Brown Sand		
15 to 20' Gray Clay		
20 to 32' Gray Clay & Silty Sands		
32 to 39' Gray Clay, Silt & Traces of Gravel		
39 to 39.50' Till w/Bedrock @ 39.50'		
Top of Screen	34.50'	
Bottom of Test Hole / Screen	39.50'	

DATE	2/1/05	TEST WELL No.	SEA#14
OWNER	Town of Framingham, MA		
LOCATION	Behind Pump House		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	39.50'	Screen Setting	34.50 to 39.50'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	36.50'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	18'		

COMMENTS:

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 10' Large Cobbles & Gravel		
10 to 20' Coarse to Fine Gravel Coarse to Fine Sand		
20 to 34' Coarse to Fine Sand - Trace Gravel		
34 to 48' Coarse Gravel, Broken & Sharp Coarse to Fine Brown Sand		
48 to 60' Coarse to Fine Brown Sand & Gravel Traces of Clay		
60 to 69' Coarse to Fine Brown Sand & Gravel (very loose)		
69 to 76' Coarse to Fine Sand - Less Gravel Tighter w/Clays		
76 to 83' Fine Silty Sands & Clay		
83 to 98' Gray Silt & Clay		
Top of Screen	64'	
Bottom of Screen	69'	
Bottom of Test Hole	98'	

DATE	2/8/05	TEST WELL No.	SEA#15
OWNER	Town of Framingham, MA		
LOCATION	Old Pump House		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	98'	Screen Setting	64 to 69'
		Slot Size	0.040"
Riser Material	Steel	Screen Material	SST
Pipe Left In	62'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 16
Static Water Level	7'		

COMMENTS:

Casing pulled back & screen set between 64 & 69'.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	Flush Mount 0'
0 to 20' Coarse Gravel, Broken & Sharp Coarse to Fine Sand	
20 to 27' Fine to Coarse Sand Trace of Gravel	
27 to 34' Fine to Coarse Brown Sand	
34 to 65' Fine to Medium Brown Sand	
65 to 75' Grayish-Brown Clay	
75 to 89' Fine to Medium Gray Sand	
89 to 97' Fine to Medium Gray Sand	
97 to 110' Fine Gray Silty Sand w/Clay	
110 to 123.5' Fine Gray Silty Sand w/Clay (not refusal)	
Top of Screen	92'
Bottom of Screen	97'
Bottom of Test Hole	123.50'

DATE	2/15/05	TEST WELL No.	SEA#16
OWNER	Town of Framingham, MA		
LOCATION	Summit Path (cul-de-sac)		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	123.50'	Screen Setting	92 to 97'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	92'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	53.05'		

COMMENTS:

Drilling stopped at 123.5' as directed by SEA (very fine silty sand w/clay), not refusal.

Bailed well for 1-hour due to deep static (53.05').

Flush mount curb box installed & cemented in place.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	Flush Mount 0'
0 to 20' Coarse Gravel, Broken & Sharp Coarse to Fine Sand	
20 to 27' Fine to Coarse Sand Trace of Gravel	
27 to 34' Fine to Coarse Brown Sand	
34 to 65' Fine to Medium Brown Sand	
65 to 75' Grayish-Brown Clay	
75 to 89' Fine to Medium Gray Sand	
89 to 97' Fine to Medium Gray Sand	
97 to 110' Fine Gray Silty Sand w/Clay	
110 to 123.5' Fine Gray Silty Sand w/Clay (not refusal)	
Top of Screen	92'
Bottom of Screen	97'
Bottom of Test Hole	123.50'

DATE	2/15/05	TEST WELL No.	SEA#16
OWNER	Town of Framingham, MA		
LOCATION	Summit Path (cul-de-sac)		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	123.50'	Screen Setting	92 to 97'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	92'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	53.05'		

COMMENTS:

Drilling stopped at 123.5' as directed by SEA (very fine silty sand w/clay), not refusal.

Bailed well for 1-hour due to deep static (53.05').

Flush mount curb box installed & cemented in place.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 20' Fine to Medium Sand & Gravel	
20 to 25' Fine to Medium Sand & Gravel	
25 to 32.5' Fine to Medium Sand & Gravel	
Top of Screen	27.50'
Bottom of Test Hole / Screen	32.50'

DATE	12/14/2004	TEST WELL No.	SEA#2
OWNER	Town of Framingham, MA		
LOCATION			
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	32.50'	Screen Setting	27.5 to 32.5'
		Slot Size	0.060"
Riser Material	Steel	Screen Material	SST
Pipe Left In	28.50'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 21"
Static Water Level	3.50'		

COMMENTS:

Refusal at 32.50' (hit something very hard)

Driller / Helper: Mel Hafford / Brandon Sudsbury

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 20' Fine to Medium Sand	
20 to 25' Fine to Medium Sand - Silty	
25 to 35' Fine to Medium Sand Small Trace of Gravel Silty - Trace of Clay	
35 to 42' Fine to Medium Sand - Silty - Clay	
42 to 49' Clay	
49 to 64' Silty, Trace Clay Some Small Sharp Pieces of Gravel	
64 to 77' Silty Clay	
Top of Screen	59'
Bottom of Screen	64'
Bottom of Test Hole	77'

DATE	12-15-04	TEST WELL No.	SEA#3
OWNER	Town of Framingham, MA		
LOCATION			
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	77'	Screen Setting	59 to 64'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	57'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	5 / 25"
Static Water Level	8'		

COMMENTS:

SEA#3 is 580' from SEA#2

Material had a lot of silt in it.

Driller / Helper: Mel Hafford / Brandon Sudsbury

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 40' Fine to Medium Sand & Gravel	
40 to 50' SAME - Getting Finer	
50 to 56' Fine to Medium Sand, Some Gravel Trace Clay	
56 to 61' Fine to Medium Sand, Some Gravel A lot of Fines (Silt), Trace Clay	
60 to 75' Fine to Medium Sand, Some Fines Trace Fine to Medium Gravel	
75 o 80' Fine to Medium Sand, Some Fines	
Top of Screen	75'
Bottom of Test Hole / Screen	80'

DATE	12-28-04	TEST WELL No.	SEA#4A(deep)
OWNER	Town of Framingham, MA		
LOCATION	River Path		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	80' (bedrock ?)	Screen Setting	75 to 80'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	73'	Screen Left In	5'

Development Information

Hrs Developed	2	GPM / Vacuum	70 / 17"
Static Water Level	16'		

COMMENTS:

Screen set from 51.5 to 56.5' was developed and pulled. Engineer wants to take boring to refusal to get more information about aquifer materials.

Driller / Helper: Mel Hafford / Doug Stokes

Darrell Leara

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log		Depth
Ground Surface	0'	
0 to 20' Very Fine, Silty, Gray	SILT	2
20 to 40' Fine to Medium Sand, Trace of Fine to Medium Gravel	M SAND	1
40 to 50' Fine to Medium Sand		
50 to 55' Silty, Traces of Wood Chips	SILT	2
55 to 70' Fine to Medium Sand & Gravel	M Sand	1
70 to 74' A lot of Mica / Clay	Clay	3
Top of Screen	65'	
Bottom of Screen	70'	
Bottom of Test Hole	74'	

DATE 12/28/2004 TEST WELL No. SEA#7

OWNER Town of Framingham, MA

LOCATION River Path

ENGINEER SEA Consultants

Sketch of Location

Well Construction Information

Drilled Depth	74'	Screen Setting	65 to 70'
		Slot Size	0.050"
Riser Material	Steel	Screen Material	SST
Pipe Left In	71'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 17
Static Water Level	6'		

COMMENTS:

After pumping water had a light sulphur smell.

Driller / Helper: Mel Hafford / Doug Stokes

Layne Christensen Company

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TEST WELL RECORD

Formation Log | + 1' | **Depth**

Ground Surface 0'

0 to 34'
Fine to Coarse Brown Sand & Gravel
Gravel is Broken & Sharp

34 to 41'
Coarse Gravel
Fine to Coarse Sand

0-71' GRAVEL 1

41 to 48'
Coarse Gravel - Broken & Sharp
Fine to Medium Sand - Trace Clay

48 to 62'
Coarse to Fine Gravel
Coarse to Fine Sand - Dark

62 to 71'
Coarse Gravel - Broken & Sharp
Coarse to Fine Sand
Drank All Water
Refusal @ 71'

Top of Screen 66'

Bottom of Test Hole / Screen 71'

DATE	1/5/2005	TEST WELL No.	SEA#8
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	71'	Screen Setting	66 to 71'
		Slot Size	0.040"
Riser Material	Steel	Screen Material	SST
Pipe Left In	66'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	90 / 14"
Static Water Level	14'		

COMMENTS:

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	Depth
Ground Surface	0'
0 to 21' Fine to Medium Sand & Gravel Refusal @ 21'	
Bottom of Test Hole	

DATE	12-17-04	TEST WELL No.	SEA#4
OWNER	Town of Framingham, MA		
LOCATION			
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	21'	Screen Setting	n/a
		Slot Size	n/a
Riser Material	(Steel / PVC)	Screen Material	(SST / GALV)
Pipe Left In	PULLED	Screen Left In	n/a

Development Information

Hrs Developed	n/a	GPM / Vacuum	n/a
Static Water Level	n/a		

COMMENTS:

Couldn't get past 21' - Bent pipe - Moved 5' away (& installed #4A)

Driller / Helper: Mel Hafford / Brandon Sudsbury

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.5'	Depth
Ground Surface	0'	
0 to 33' Fine to Coarse Brown Sand & Gravel	M SAND	1
33 to 48' SAME - Traces of Clay		
48 to 62' Fine to Coarse Sand Medium to Fine Gravel		
62 to 70' Coarse to Fine Brown Sand Traces of Fine Gravel		
70 to 84' Coarse to Medium Sand Large Cobbles	~~Cobbles~~ (?) or Coarse Sand	1
84 to 91' Coarse Gravel Coarse to Fine Sand - Clay	M SAND	1
91 to 98' Coarse to Fine Sand - Clay Some Gravel		
98 to 105' Coarse to Fine Sand - Fine Gravel - Clay		
105 to 112' Fine Sand & Gravel - Clay - Tight	Till	3
Top of Screen	100'	
Bottom of Screen	105'	
Bottom of Test Hole	112'	

DATE	1/9/2005	TEST WELL No.	SEA#9
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	112'	Screen Setting	100 to 105'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	99.50'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	20 / 17"
Static Water Level	11'		

COMMENTS:

Drilled to 112', but pulled back to 105' and set screen from 100 to 105'.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.0'	Depth
Ground Surface	0'	
0 to 20' Coarse Brown Sand & Gravel Coarse to Fine Sand	M SAND	1
20 to 41' Brown Silty Sand & Clay Traces of Gravel	Silt	2
41 to 55' Coarse to Medium Gravel Coarse to Fine Sand		
55 to 71' Coarse to Fine Sand Coarse to Fine Gravel Traces of Clay	M SAND	1
71 to 72' Till Refusal @ 72'	Till	3
Top of Screen	66'	
Bottom of Screen	71'	
Bottom of Test Hole	72'	

DATE	1/12/2005	TEST WELL No.	SEA#10
OWNER	Town of Framingham, MA		
LOCATION	Access Road to Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	72'	Screen Setting	66 to 71'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	67	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	52.50'		

COMMENTS:

Refusal @ 72'

Deep static prevented conventional development; Jet pump to be used. ?

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 1.5'	Depth
Ground Surface	0'	
0 to 15' Coarse Gravel; Coarse to Fine Sand **15 to 20'** Fine to Coarse Sand Trace of Fine Gravel	M Sand	1
20 to 55' Fine Silty Sands and Clay (did not drink water at all)	Silty CLAY	3
55 to 68' Fine Brown Sand Traces of Clay	Fine SAND	2
68 to 77' Fine to Coarse Gray Sand 20% Coarse to Fine Gravel Gray Clay	M SAND	1
Top of Screen	72'	
Bottom of Test Hole / Screen	77'	

DATE	1/20/2005	TEST WELL No.	SEA#11
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	77'	Screen Setting	72 to 77'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	73.50'	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	44.50'		

COMMENTS:

77' is NOT refusal; drilled stopped by SEA

Deep static prevented conventional development; Jet pump to be used.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log		+ 4'	Depth
Ground Surface		0'	
0 to 5' Fill	Fill		1
5 to 20' Coarse Gravel, Broken & Sharp Traces of Clay & Silt	Gravel		1
20 to 27' Silty Clay and Sands	(Silty) Clay		3
27 to 50' Silty Brown Sand	Silty (SAND)		2
50 to 73' Silty Brown Sand and Clay	(Silty) Clay		3
73 to 85' Brown Sand Traces of Clay	SAND		2
Top of Screen		80'	
Bottom of Test Hole / Screen		85'	

DATE	1/26/05	TEST WELL No.	SEA#12
OWNER	Town of Framingham, MA		
LOCATION	Gravel Pit		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	85'	Screen Setting	80 to 85'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	82'	Screen Left In	5'

Development Information

Hrs Developed	0	GPM / Vacuum	0 / 0
Static Water Level	32'		

COMMENTS:

Did not develop well upon completion - deep static.

Well drank water slowly.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 5' Sity Gray Backfill		
5 to 20' Gravel w/Silty Gray Sands	Silt	2
20 to 27' Silty Sand		
27 to 34' Silty Gray Clay - Fine Sand		
34 to 43' Gray Silty Clay	Silty Clay	3
43 to 49' Coarse to Fine Sand & Gravel		
49 to 67' Coarse to Fine Sand & Gravel		1/4
67 to 77' Silty Brown Sand & Clays	(Silty) Clay	3
77 to 95' Fine Brown Sand	~~Gat~~ F Sand	2
95 to 95.5' Till w/Ledge @ 95.50'	Till	
Top of Screen	62'	
Bottom of Screen	67'	
Bottom of Test Hole	95.50'	

DATE	1/31/05	TEST WELL No.	SEA#13
OWNER	Town of Framingham, MA		
LOCATION	Next to Silt Pond		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	95.50'	Screen Setting	62 to 67'
		Slot Size	0.030"
Riser Material	Steel	Screen Material	SST
Pipe Left In	64'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	22.50'		

COMMENTS:

Bailed well for 1-Hour.

Driller / Helper: Brian Auclair / Steve Houghton

Darrell Learn

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 8' Coarse Gravel	CGravel	1
8 to 15' Fine to Coarse Brown Sand	M Sand	1
15 to 20' Gray Clay		3
20 to 32' Gray Clay & Silty Sands	Clay	
32 to 39' Gray Clay, Silt & Traces of Gravel		
39 to 39.50' Till w/Bedrock @ 39.50'	Glacial Loam	3
Top of Screen	34.50'	
Bottom of Test Hole / Screen	39.50'	

DATE	2/1/05	TEST WELL No.	SEA#14
OWNER	Town of Framingham, MA		
LOCATION	Behind Pump House		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	39.50'	Screen Setting	34.50 to 39.50'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	36.50'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	18'		

COMMENTS:

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log	+ 2'	Depth
Ground Surface	0'	
0 to 10' Large Cobbles & Gravel		
10 to 20' Coarse to Fine Gravel, Coarse to Fine Sand — Gravel		1
20 to 34' Coarse to Fine Sand - Trace Gravel — M SAND		1
34 to 48' Coarse Gravel, Broken & Sharp, Coarse to Fine Brown Sand — Gravel		1
48 to 60' Coarse to Fine Brown Sand & Gravel, Traces of Clay — M SAND		1
60 to 69' Coarse to Fine Brown Sand & Gravel (very loose)		
69 to 76' Coarse to Fine Sand - Less Gravel, Tighter w/Clays — M SAND		1
76 to 83' Fine Silty Sands & Clay — Clay		3
83 to 98' Gray Silt & Clay		
Top of Screen	64'	
Bottom of Screen	69'	
Bottom of Test Hole	98'	

DATE	2/8/05	TEST WELL No.	SEA#15
OWNER	Town of Framingham, MA		
LOCATION	Old Pump House		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	98'	Screen Setting	64 to 69'
		Slot Size	0.040"
Riser Material	Steel	Screen Material	SST
Pipe Left In	62'	Screen Left In	5'

Development Information

Hrs Developed	1	GPM / Vacuum	60 / 16
Static Water Level	7'		

COMMENTS:

Casing pulled back & screen set between 64 & 69'.

Driller / Helper: Brian Auclair / Steve Houghton

Layne Christensen Company

16 Commercial Drive P.O. Box 309 Dracut, MA 01826 - ph: (978)-937-2242 ; fax: (978)-937-2252

TEST WELL RECORD

Formation Log		Depth
	Flush Mount	
Ground Surface	0'	
0 to 20' Coarse Gravel, Broken & Sharp Coarse to Fine Sand	Gravel	1
20 to 27' Fine to Coarse Sand Trace of Gravel	M Sand	1
27 to 34' Fine to Coarse Brown Sand		
34 to 65' Fine to Medium Brown Sand	F Sand	1
65 to 75' Grayish-Brown Clay	Clay	3
75 to 89' Fine to Medium Gray Sand		
89 to 97' Fine to Medium Gray Sand	f Sand	1
97 to 110' Fine Gray Silty Sand w/Clay		
110 to 123.5' Fine Gray Silty Sand w/Clay (not refusal)	Clay	3
Top of Screen	92'	
Bottom of Screen	97'	
Bottom of Test Hole	123.50'	

DATE	2/15/05	TEST WELL No.	SEA#16
OWNER	Town of Framingham, MA		
LOCATION	Summit Path (cul-de-sac)		
ENGINEER	SEA Consultants		

Sketch of Location

Well Construction Information

Drilled Depth	123.50'	Screen Setting	92 to 97'
		Slot Size	0.020"
Riser Material	Steel	Screen Material	SST
Pipe Left In	92'	Screen Left In	5'

Development Information

Hrs Developed	1-Hr - Bailed	GPM / Vacuum	0 / 0
Static Water Level	53.05'		

COMMENTS:

Drilling stopped at 123.5' as directed by SEA (very fine silty sand w/clay), not refusal.

Bailed well for 1-hour due to deep static (53.05').

Flush mount curb box installed & cemented in place.

Driller / Helper: Brian Auclair / Steve Houghton

WELL OWNER: TOWN OF FRAMINGHAM, MA

WELL No.: 12" TEST WELL #1 (@ SEA-4)

WELL LOCATION:

AS BUILT NATURAL DEVELOPED TEST WELL CONSTRUCTION DETAILS

DEPTH	BORING LOG	DEPTH	WELL CONSTRUCTION INFORMATION
			Continuously Welded Steel Cap
0			
1			
2			
3	0 to 10'		
4	FINE TO MEDIUM		
5	SAND & GRAVEL		
6			
7			
8			
9			
10			
11	10 to 15'		
12	FINE TO MEDIUM		
13	SAND & GRAVEL WITH SOME CLAY		
14			
15			
16			
17	15 to 20'		
18	FINE TO COARSE		
19	SAND & GRAVEL WITH SOME CLAY		
20			
21			
22			
23			
24	20 to 30'		
25	FINE TO MEDIUM		
26	SAND & GRAVEL		
27			
28			
29			
30			
31			
32			
33			
34	30 to 40'		12" STEEL RISER CASING
35	FINE TO MEDIUM		
36	SAND & GRAVEL WITH SOME COBBLES		
37			
38			
39			
40			
41	40 to 45'		
42	FINE TO COARSE		
43	SAND & GRAVEL		
44			
45			
46	45 to 50'		
47	FINE TO COARSE		
48	SAND & GRAVEL		
49			
50			
51	50 to 55'		
52	SAME		
53	40% RETAINED - 0.040"		
54			
55			
56	55 to 60'		
57	SAME		
58	(drilled hard)	58'	TOP OF SCREEN RISER & FIGURE K-PACKER
59	40% RETAINED - 0.056"	59'	TOP OF 12" TELESCOPING SCREEN
60			
61	60 to 65'		
62	SAME		
63	(drilled hard)		
64	40% RETAINED - 0.041"		
65			
66	65 to 70'		
67	SAME		15' OF 12' TELESCOPING 304 SST SCREEN
68	(a lot of water)		SLOT OPENING - 0.060"
69	40% RETAINED - 0.045"		EST. TRANSMITTING CAPACITY - 900 GPM
70			(approx. 60 gpm/ft)
71	70 to 75'		
72	SAME		
73	(a lot of water)		
74	40% RETAINED - 0.0605"	74'	BOTTOM OF 12" TELESCOPING SCREEN
75			
76	75 to 78'		
77	FINE TO MEDIUM		WELL GRAVEL (FILL)
78	SAND & GRAVEL WITH A LOT OF FINES/CLAY	78'	BOTTOM OF EXCAVATION
	(less water)		
	40% RETAINED - 0.012"		

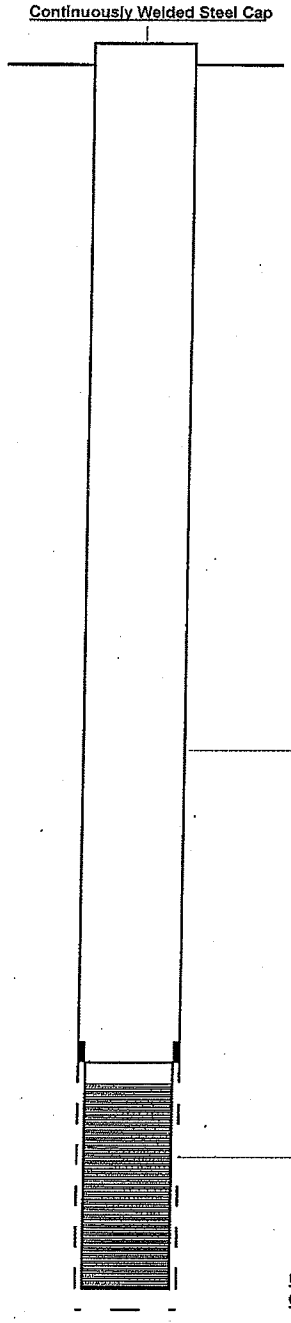
WELL OWNER: TOWN OF FRAMINGHAM, MA

WELL No.: 12" TEST WELL #2 (@ SEA-9)

WELL LOCATION:

AS BUILT NATURAL DEVELOPED TEST WELL CONSTRUCTION DETAILS

DEPTH	BORING LOG
2	0 to 5'
3	FINE TO MEDIUM SAND
4	LIGHT BROWN
6	5 to 10'
7	FINE TO MEDIUM SAND & GRAVEL
8	(5-8' light brown / 8-10 dark brown)
11	10 to 15'
12	FINE TO MEDIUM SAND & GRAVEL
13	(moist @ 13' / dark brown)
18	15 to 25'
19	FINE TO MEDIUM SAND & GRAVEL
20	(some coarse material @ 25')
26	25 to 30'
27	FINE TO COARSE SAND & GRAVEL
28	(light brown / signs of water)
31	30 to 35'
32	FINE TO MEDIUM SAND & GRAVEL
33	(light brown)
36	35 to 40'
37	FINE TO MEDIUM SAND & GRAVEL
38	TRACE OF FINES
39	(light brown)
41	40 to 45'
42	SAME
46	45 to 50'
47	FINE TO COARSE SAND & GRAVEL
48	(light brown - a lot of fines)
51	50 to 55'
52	FINE TO COARSE SAND & GRAVEL
53	(a lot of water @ 52')
56	55 to 60'
57	SAME
58	(very boney from 51 to 60')
60	60 to 61'
61	NO RETURN
	(drilled hard / water cut off)



WELL OWNER: TOWN OF FRAMINGHAM, MA

WELL No.: 12" TEST WELL #3 (@ SEA-7)

WELL LOCATION:

AS BUILT NATURAL DEVELOPED TEST WELL CONSTRUCTION DETAILS

DEPTH	BORING LOG	DEPTH	WELL CONSTRUCTION INFORMATION
			Continuously Welded Steel Cap
0			
1			
2			
3	0 to 10'		
4	FINE TO MEDIUM SAND & GRAVEL		
5	LIGHT BROWN		
6			
7			
8			
9			
10			
11	10 to 15'		
12	FINE TO COARSE SAND & GRAVEL		
13	LIGHT BROWN		
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24	15 to 35'		
25	FINE TO COARSE SAND & GRAVEL		
26	DARK BROWN		
27			
28			
29			
30			
31			
32			
33			
34			12" STEEL RISER CASING
35			
36			
37			
38			
39			
40	35 to 50'		
41	FINE TO COARSE SAND & GRAVEL		
42	w/SOME CLAY		
43	LIGHT BROWN		
44			
45			
46			
47			
48			
49			
50			
51	50 to 55'		
52	FINE TO COARSE SAND & GRAVEL		
53	LIGHT BROWN		
54	(started making water)	56'	TOP OF SCREEN RISER & FIGURE K-PACKER
55		55'	TOP OF 12" TELESCOPING SCREEN
56			
57			
58			
59	55 to 65'		
60	FINE TO COARSE SAND & GRAVEL		
61	LIGHT BROWN		
62			15' OF 12' TELESCOPING 304 SST SCREEN
63			MULTIPLE SLOT OPENING
64			TOP 2' - 0.070" (approx, 64 gpm/ft)
65			BOTTOM 13' - 0.100" (approx. 77 gpm/ft)
66	65 to 70'		EST. TRANSMITTING CAPACITY - 1,128 GPM
67	FINE TO COARSE SAND & GRAVEL		
68	LIGHT BROWN		
69	(a lot of fines @ 70' & less water)		
70		70'	BOTTOM OF 12" TELESCOPING SCREEN /
71	70 to 73'		
72	FINE TO COARSE SAND & GRAVEL		WELL GRAVEL / CLEAN FILL
73	LIGHT BROWN TO GRAYISH @ 73'	73'	BOTTOM OF EXCAVATION
74	(a lot of fines & no water)		
75			
76			
77			
78			

WELL OWNER: TOWN OF FRAMINGHAM, MA

WELL No.: 12" TEST WELL #4 (@ SEA-8)

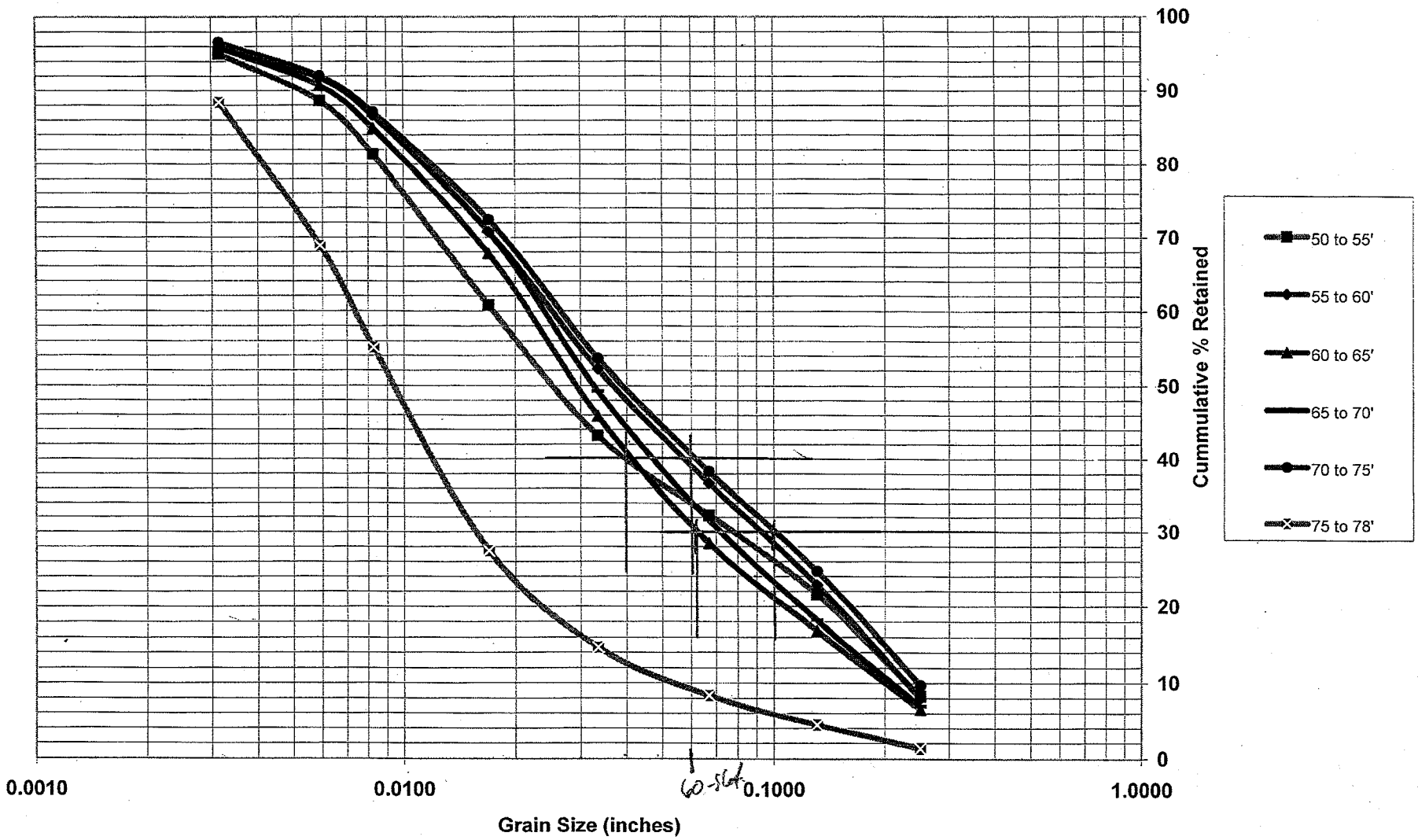
WELL LOCATION:

AS BUILT NATURAL DEVELOPED TEST WELL CONSTRUCTION DETAILS

DEPTH	BORING LOG	DEPTH	WELL CONSTRUCTION INFORMATION
			Continuously Welded Steel Cap
1	0 to 10'		
2	BROWN FINE TO COARSE SAND & GRAVEL		
3	w/SILT & COBBLES		
8	5 to 15'		
9	DARK BROWN FINE TO COARSE SAND & GRAVEL		
10	w/COBBLES & LAYERS OF FINE TO COARSE		
11	SILTY SAND		
15	15 to 20'		
16	REDDISH BROWN FINE TO COARSE SAND		
17	AND GRAVEL - WATER @ 17'		
20	20 to 25'		
21	GRAY SILTY FINE TO COARSE SAND		
22	AND GRAVEL, COBBLES		
25	25 to 30'		
26	GRAY FINE TO COARSE SILTY SAND		
27	FINE TO MEDIUM GRAVEL		
28	TRACE OF CLAY		
34	30 to 40'		12" STEEL RISER CASING
35	SAME AS ABOVE w/LESS SILT & CLAY		
50	40 to 67.20'		
51	GRAY FINE TO COARSE SAND & GRAVEL	51.20'	TOP OF SCREEN RISER & FIGURE K-PACKER
52	SOME SILTY CLAY	52.20'	TOP OF 12" TELESCOPING SCREEN
53	COBBLES & BOULDERS - VERY BONEY		
56			15' OF 12' TELESCOPING 304 SST SCREEN
57			0.200" SLOT OPENINGS
58			EST. TRANSMITTING CAPACITY - 1,470 GPM
60	NOTES		
61	Blew 200 gpm clear @ 50'.		
62	Blew 300 gpm clear @ 60', 65' & 67.20'.		
63	Over 50% of formation is 1" or larger.		
67		67.20'	BOTTOM OF SCREEN / EXCAVATION

Layne Christensen Company

FRAMINGHAM, MASSACHUSETTS
12" TEST WELL #1
APRIL 8, 2005



SIEVE ANALYSIS: FRAMINGHAM, MA
DATE: 4/8/2005
WELL #: 12" TEST WELL #1

SAMPLE DEPTH: 65 to 70'

SIEVE NO.	OPENING MM	OPENING INCHES	WIEGHT GRAMS	%	% RETAINED
HEAVIES			**35.7**		
1/4	6.35	0.25	**51.8**	6.93	7
6	3.32	0.13	**84.3**	11.28	18
12	1.7	0.07	**100**	13.38	32
20	0.85	0.03	**131.7**	17.62	49
40	0.43	0.02	**161**	21.54	71
70	0.21	0.01	**118.3**	15.83	87
100	0.15	0.01	**38.8**	5.19	92
200	0.08	0.00	**30.4**	4.07	96
PAN			**31**	4.15	100
		TOTALS	747.3	100.00	

SAMPLE DEPTH: 70 to 75'

SIEVE NO.	OPENING MM	OPENING INCHES	WIEGHT GRAMS	%	% RETAINED
HEAVIES			**67.8**		
1/4	6.35	0.25	**84.8**	9.68	10
6	3.32	0.13	**131.7**	15.03	25
12	1.7	0.07	**119.4**	13.63	38
20	0.85	0.03	**134.3**	15.33	54
40	0.43	0.02	**164.4**	18.76	72
70	0.21	0.01	**128.5**	14.66	87
100	0.15	0.01	**43.5**	4.96	92
200	0.08	0.00	**39.2**	4.47	97
PAN			**30.5**	3.48	100
		TOTALS	876.3	100.00	

SAMPLE DEPTH: 75 to 78'

SIEVE NO.	OPENING MM	OPENING INCHES	WIEGHT GRAMS	%	% RETAINED
HEAVIES			**8.6**		
1/4	6.35	0.25	**11.8**	1.36	1
6	3.32	0.13	**27**	3.11	4
12	1.7	0.07	**33.6**	3.87	8
20	0.85	0.03	**54.9**	6.33	15
40	0.43	0.02	**111.1**	12.80	27
70	0.21	0.01	**240**	27.65	55
100	0.15	0.01	**119**	13.71	69
200	0.08	0.00	**170**	19.59	88
PAN			**100.5**	11.58	100
		TOTALS	867.9	100.00	

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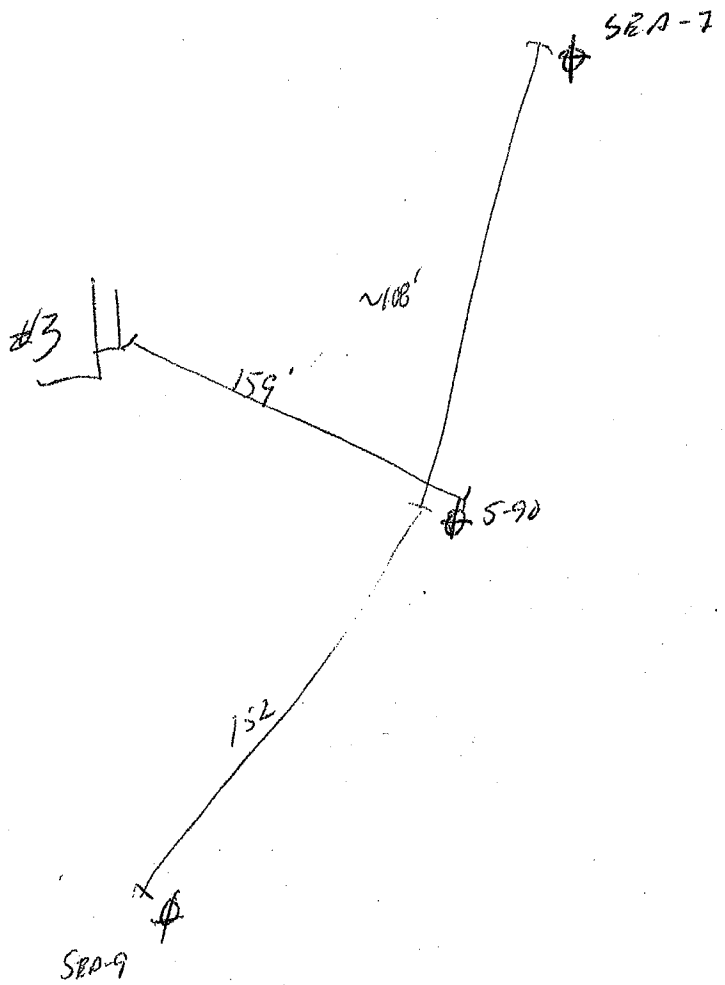
10 Ferry Street
Box #7, Suite 137
Concord, NH 03301
(603) 225-7000
FAX (603) 225-0099

Client	Job No.	Page
Project	Comptd. By	Date
Detail	Ck'd By	Date

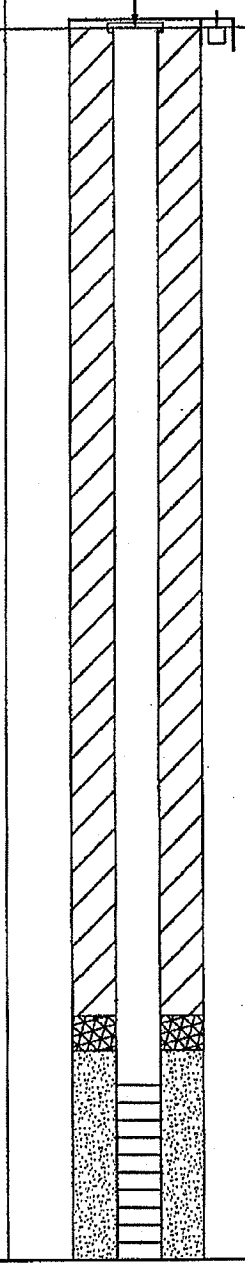


MONITORING WELL LOG

URS CORPORATION

Well Id: MW-1R	Blank Casing: type: sch 40 PVC dia: 2.00in fm: 0.0' to: 60.00'
Project Name: AFCEE	Screens: type: Slotted size: 0.010in dia: 2.00in fm: 60.00' to: 70.00'
Project Location: New England Sand and Gravel	Annular Fill: type: Cement/Bentonite Grout (5%) fm: 0.00' to: 56.00'; type: Bentonite Pellets fm: 56.00' to: 58.00'; type: Filter Sand (00) fm: 58.00' to: 70.00'
Project Number: 01016-844	
Date: 01/10/02 - 01/11/02	
Logged By: Kate McDonald	Remarks: No split spoon sampling performed.
Contractor: GeoLogic, Inc.	
Drilling Method: hollow stem auger	
Ground Surface Elevation: 165.78'	
Total Depth: 70.00' Borehole Dia.: 8.00in	

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction	PID
		SW	Fine to Medium Sand	MP. EL. 165.78	
10		SP	Fine Sand		
20					
		GW	Fine to Medium Sand, some gravel		
30		SP	Fine Sand		
40					
		SW	Medium to Coarse Sand		
50					
		ML	Silt		



MONITORING WELL LOG

URS CORPORATION

Well Id: MW-3
Project Name: AFCEE
Project Location: New England Sand and Gravel
Project Number: 01016-844
Date: unknown
Logged By: unknown
Contractor: unknown
Drilling Method: hollow stem auger
Ground Surface Elevation: 169.30'
Total Depth: 55.50' Borehole Dia.: 8.00in

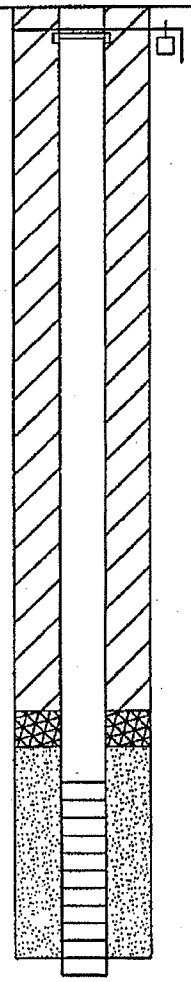
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 1.8' to: 44.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 44.00' to: 54.00'

Annular Fill:
type: Cement/Bentonite Grout (5%) fm: 0.00' to: 40.00'
type: Bentonite Pellets fm: 40.00' to: 42.00'
type: Filter Sand (02) fm: 42.00' to: 54.00'

Remarks: Record of well construction and material description no longer exists. Well construction and material description estimated from similar wells onsite.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction MP. EL. 171.10	PID
		GW	Sandy Gravel.		
10					
20			Gravelly Sand		
30					
40					
50					
60					



MONITORING WELL LOG

URS CORPORATION

Well Id: MW-5

Project Name: AFCEE

Project Location: New England Sand and Gravel

Project Number: 01016-844

Date: unknown

Logged By: unknown

Contractor: unknown

Drilling Method: hollow stem auger

Ground Surface Elevation: 169.40'

Total Depth: 55.50' Borehole Dia.: 8.00in

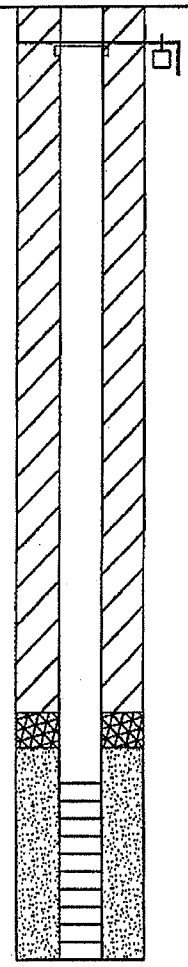
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 2.5' to: 44.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 44.00' to: 54.00'

Annular Fill:
type: Cement/Bentonite Grout (5%) fm: 0.00' to: 40.00'
type: Bentonite Pellets fm: 40.00' to: 42.00'
type: Filter Sand (02) fm: 42.00' to: 54.00'

Remarks: Record of well construction no longer exists. Well construction estimated from similar wells onsite.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction (MP. EL. 171.90)	PID
		GW	Gravelly Sand		
10					
20					
		SM	Silty Sand		
30					
40					
50					
60					

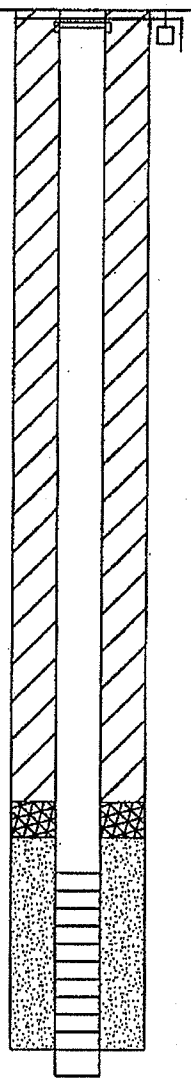


MONITORING WELL LOG

URS CORPORATION

Well Id: MW-7	Blank Casing: type: sch 40 PVC dia: 2.00in fm: 1.0' to: 49.00'
Project Name: AFCEE	Screens: type: Slotted size: 0.010in dia: 2.00in fm: 49.00' to: 59.00'
Project Location: New England Sand and Gravel	Annular Fill: type: Bentonite Grout (5%) fm: 0.00' to: 45.00'; type: Bentonite Pellets fm: 45.00' to: 47.00'; type: Filter Sand (02) fm: 47.00' to: 59.00'
Project Number: 01016-844	
Date: unknown	
Logged By: unknown	
Contractor: unknown	Remarks: Record of well construction no longer exists. Well construction estimated from similar wells onsite.
Drilling Method: hollow stem auger	
Ground Surface Elevation: 173.10' Groundwater Level:	
Total Depth: 60.50' Borehole Dia.: 8.00in	

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction MP. EL. 174.10	PID
		SM			
10					
20					
30					
40					
50					
60					



MONITORING WELL LOG

URS CORPORATION

Well Id: MW-8R
Project Name: AFCEE
Project Location: New England Sand and Gravel
Project Number: 01016-844
Date: 01/04/02 - 01/07/02
Logged By: Kate McDonald
Contractor: GeoLogic, Inc.
Drilling Method: hollow stem auger
Ground Surface Elevation: 128.58'
Total Depth: 51.00' Borehole Dia.: 8.00in

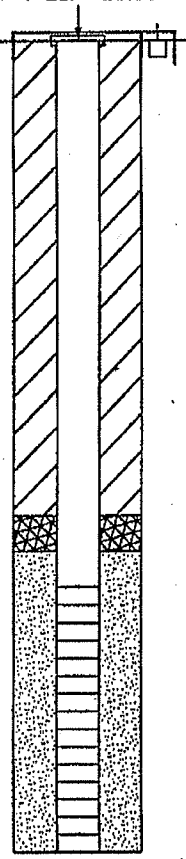
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 0.0' to: 31.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 31.00' to: 46.00'

Annular Fill:
type: Cement/Bentonite Grout (5%) fm: 0.00' to: 27.00'
type: Bentonite Pellets fm: 27.00' to: 29.00'
type: Filter Sand (00) fm: 29.00' to: 46.00'

Remarks: No split spoon sampling performed.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction	PID
		GW	Gravelly Sand	MP. EL. 128.58	
10					
		SP	Fine Sand		
30					
		GM	Silty Gravelly Sand		
40		SM	Silty Sand		
50					
60					



MONITORING WELL LOG

URS CORPORATION

Well Id: MW-10

Project Name: AFCEE

Project Location: New England Sand and Gravel

Project Number: 01016-844

Date: unknown

Logged By: unknown

Contractor: unknown

Drilling Method: hollow stem auger

Ground Surface Elevation: 162.40'

Total Depth: 49.00' Borehole Dia.: 8.00in

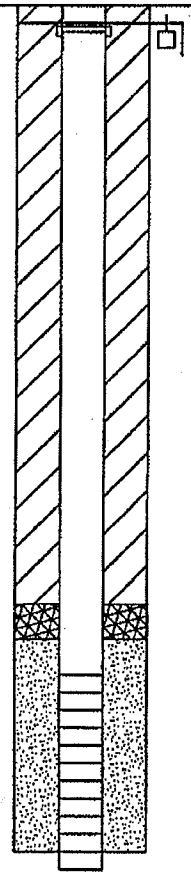
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 1.5' to: 38.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 38.00' to: 48.00'

Annular Fill:
type: Cement/Bentonite Grout (5%) fm: 0.00' to: 34.00'
type: Bentonite Pellets fm: 34.00' to: 36.00'
type: Filter Sand (00) fm: 36.00' to: 48.00'

Remarks: Record of well construction no longer exists. Well construction estimated from similar wells onsite.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction MP. EL. 163.90	PID
		GW	Gravelly Sand		
10					
20		SM	Silty Sand		
30					
40					
		GM	Gravelly Silty Sand		
50					
60					



MONITORING WELL LOG

URS CORPORATION

Well Id: MW-11R
Project Name: AFCEE
Project Location: New England Sand and Gravel
Project Number: 01016-844
Date: 01/07/02 - 01/09/02
Logged By: Kate McDonald
Contractor: GeoLogic, Inc.
Drilling Method: hollow stem auger
Ground Surface Elevation: 164.19'
Total Depth: 82.80' Borehole Dia.: 8.00in

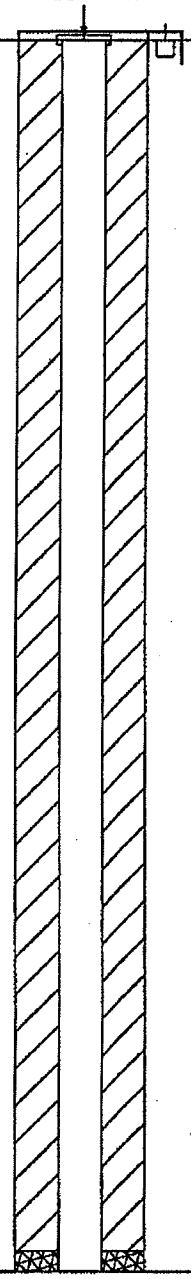
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 0.0' to: 72.80'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 72.80' to: 82.80'

Annular Fill:
type: Cement/Bentonite Grout (5%) fm: 0.00' to: 68.80'
type: Bentonite Pellets fm: 68.80' to: 70.80'
type: Filter Sand (00) fm: 70.80' to: 82.80'

Remarks: No split spoon sampling performed.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction (MP. EL. 164.19)	PID
		GW	Gravelly Sand		
10					
20		SM	Silty Sand		
30					
40					
		GM	Gravelly Silty Sand		
50					
		SC	Clayey Sand		
		SM	Sandy Silt		
60					



MONITORING WELL LOG

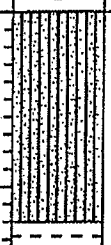
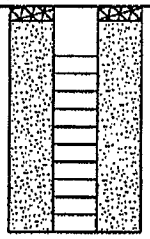
URS CORPORATION

Well Id: MW-11R

Date: 01/07/02 - 01/09/02

Project Name: AFCEE

Project Number: 01016-844

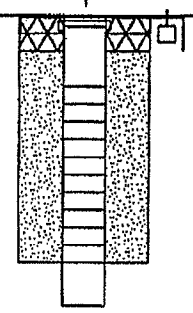
Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction	PID
			Refusal on Possible Bedrock		
90					
100					
110					
120					
130					
140					
150					

MONITORING WELL LOG

URS CORPORATION

Well Id: MW-12	Blank Casing: type: sch 40 PVC dia: 2.00in fm: 0.6' to: 4.00'
Project Name: AFCEE	Screens: type: Slotted size: 0.010in dia: 2.00in fm: 4.00' to: 14.00'
Project Location: New England Sand and Gravel	Annular Fill: type: Bentonite fm: 0.00' to: 2.00'
Project Number: 01016-844	type: Filter Sand (02) fm: 2.00' to: 14.00'
Date: unknown	
Logged By: unknown	
Contractor: unknown	Remarks: Record of well construction no longer exists. Well construction estimated from similar wells onsite.
Drilling Method: hollow stem auger	
Ground Surface Elevation: 123.10'	
Total Depth: 16.50' Borehole Dia.: 8.00in	

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction MP. EL. 123.60	PID
		SM	Silty fine sand.		
10					
20					
30					
40					
50					
60					



MONITORING WELL LOG

URS CORPORATION

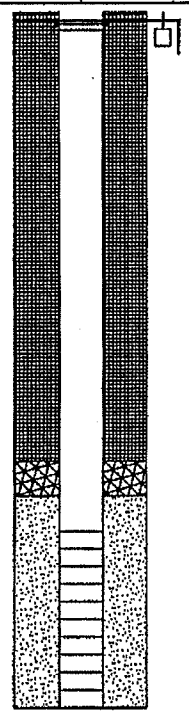
Well Id: B-3(OW)
Project Name: AFCEE
Project Location: New England Sand and Gravel
Project Number: 01016-844
Date: 07/12/01 - 07/12/01
Logged By: Bill Graham
Contractor: New Hampshire Boring
Drilling Method: hollow stem auger
Ground Surface Elevation: 147.76' Groundwater Level:
Total Depth: 40.00' Borehole Dia.: 8.00in

Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 1.5' to: 30.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 30.00' to: 40.00'

Annular Fill:
type: Native Material fm: 0.50' to: 26.00'
type: Bentonite Pellets fm: 26.00' to: 28.00'
type: Filter Sand (02) fm: 28.00' to: 40.00'

Remarks: Well installed by Haley & Aldrich in 2001.

Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction MP. EL. 147.76	PID
10, 20, 30, 40, 50, 60		SW/SM	Sand, becomes Silty with depth.		

MONITORING WELL LOG

URS CORPORATION

Well Id: MW-101D

Project Name: AFCEE

Project Location: New England Sand and Gravel

Project Number: 01016-844

Date: unknown

Logged By: unknown

Contractor: unknown

Drilling Method: unknown

Ground Surface Elevation: 160.25'

Total Depth: 80.00' Borehole Dia.: 8.00in

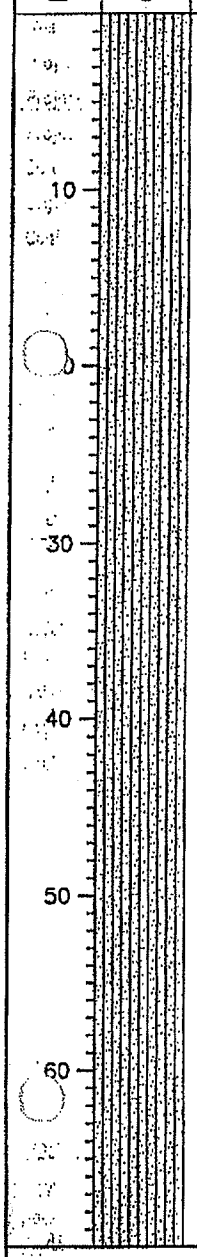
Blank Casing:
type: sch 40 PVC dia: 2.00in fm: 2.5' to: 70.00'

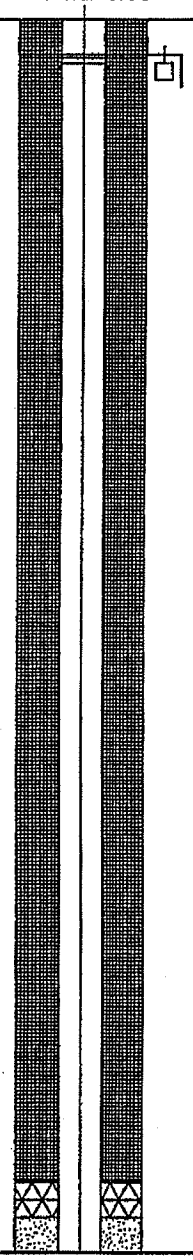
Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 70.00' to: 80.00'

Annular Fill:
type: Native Material fm: 0.00' to: 66.00'
type: Bentonite fm: 66.00' to: 68.00'
type: Filter Sand (02) fm: 68.00' to: 80.00'

Remarks: No well construction data exists for this well, screen interval is assumed to be 10' with appropriate filter, seal, and fill.

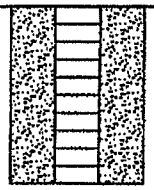
Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction	PID
		SM		MP. EL. 0.00	





MONITORING WELL LOG **URS CORPORATION**

Well Id: MW-101D	Date: unknown
Project Name: AFCEE	Project Number: 01016-844

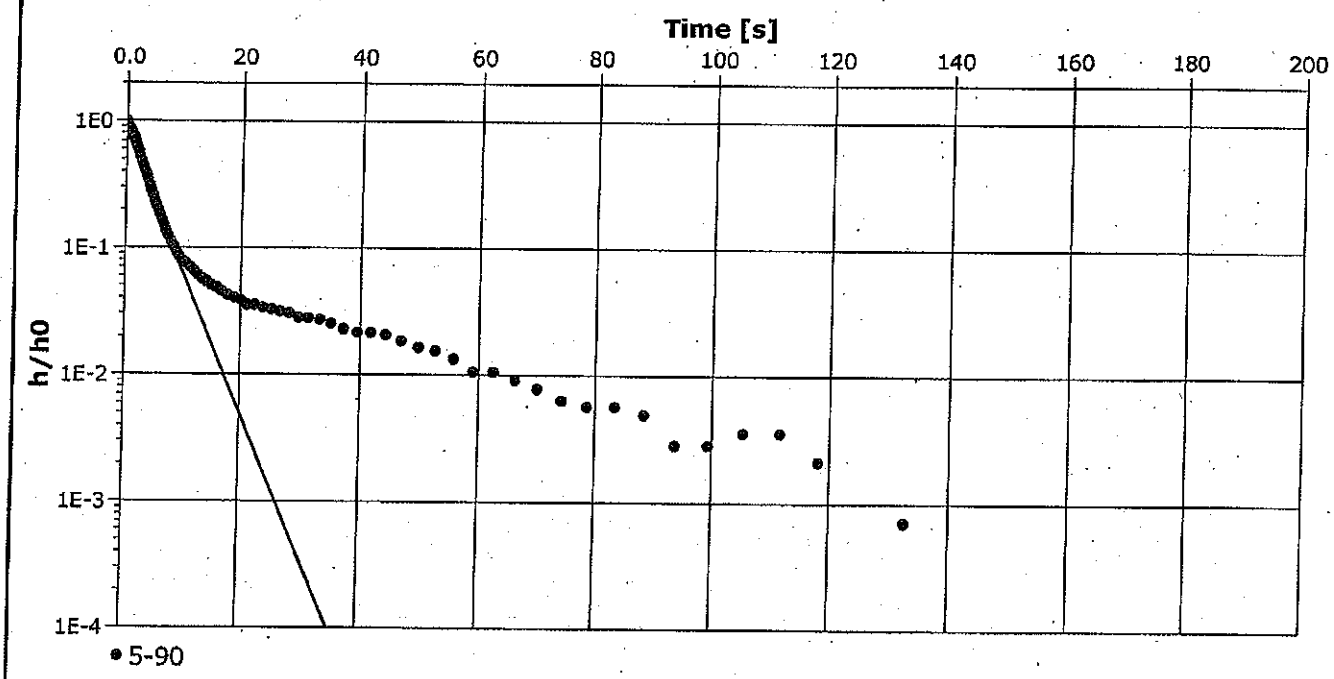
Depth (ft)	Graphic Log	USCS Code	Material Description	Well Construction	PID
					
90					
110					
120					
130					
140					

APPENDIX D

OBSERVATION WELL SLUG TESTING RESULTS

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

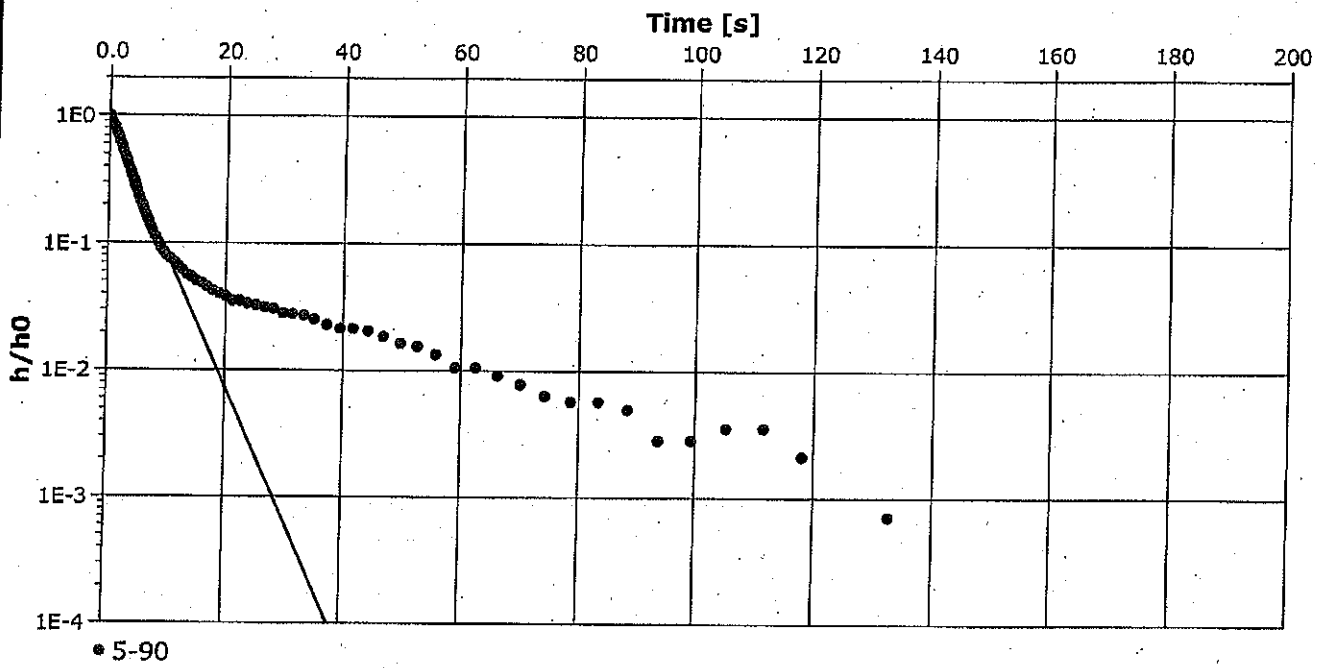
Location:	Slug Test: 5-90 Slug	Test Well: 5-90
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	5-90 trial 1 B&R	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Bouwer && Rice		
Observation well	K [ft/d]	
5-90	2.65×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 5-90 Slug	Test Well: 5-90
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	5-90-1 HV	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Hvorslev

Observation well	K [ft/d]
5-90	2.85×10^{2}

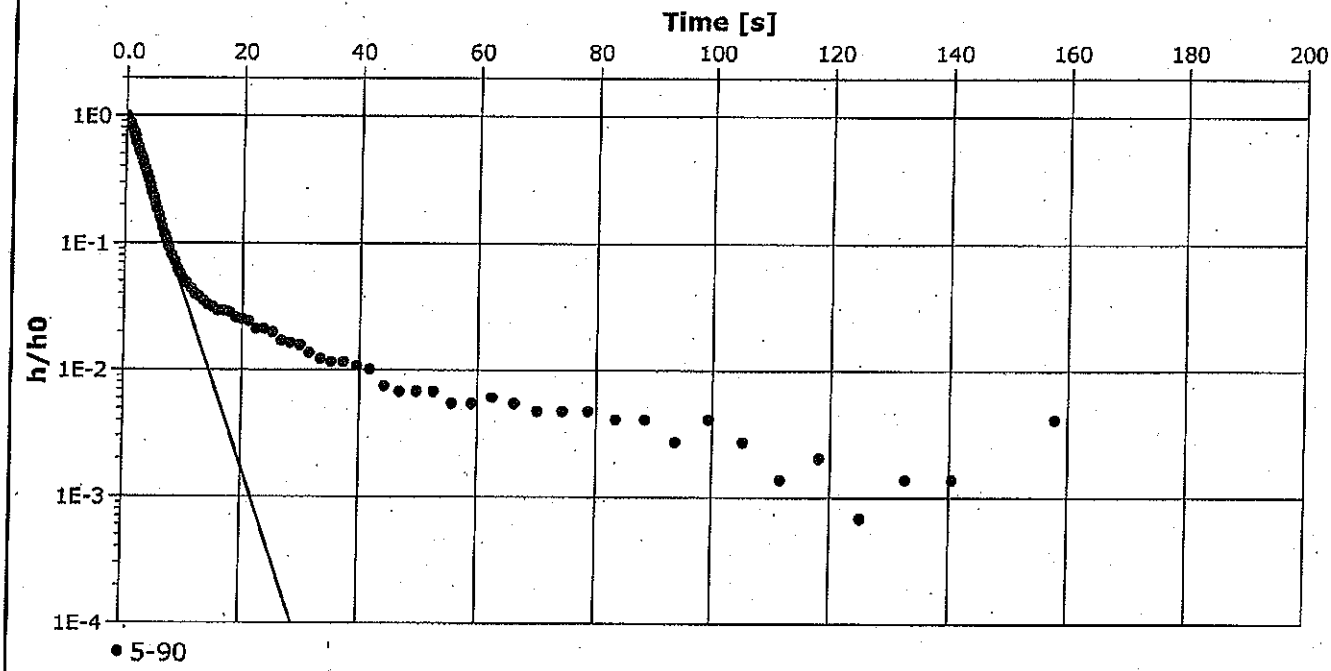
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 5-90 Slug	Test Well: 5-90
Test conducted by: KNR/PGN		Test date: 1/19/2007
Aquifer Thickness: 23.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	5-90 trial 1 B&R	KNR	1/30/2007	Bouwer && Rice	5-90		2.65×10^2	
2	5-90-1 HV	KNR	1/30/2007	Hvorslev	5-90		2.85×10^2	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 5-90 trial2	Test Well: 5-90
Test conducted by:		Test date: 1/30/2007
Analysis performed by: KNR	5-90 trial2 B&R	Date: 1/30/2007
Aquifer Thickness: 23.00 m		

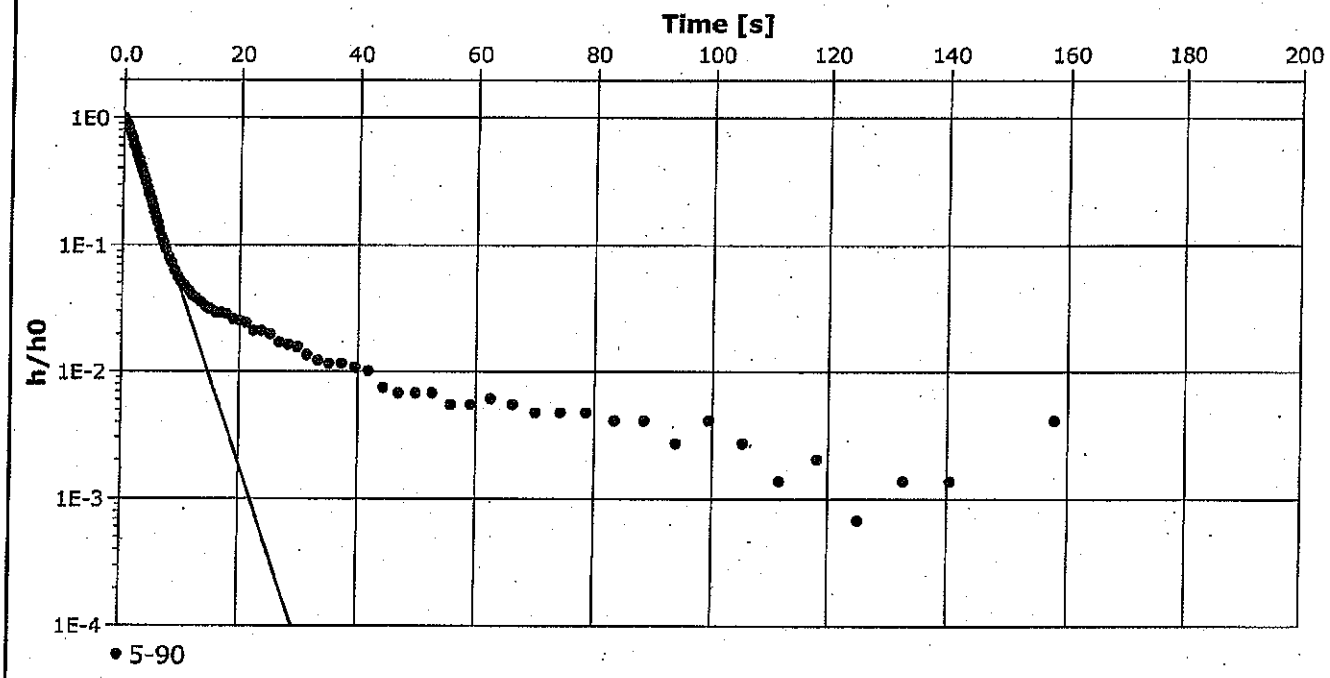


Calculation after Bouwer && Rice

Observation well	K [ft/d]	
5-90	3.27×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 5-90 trial2	Test Well: 5-90
Test conducted by:		Test date: 1/30/2007
Analysis performed by: KNR	5-90 trial2 Hv	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Hvorslev		
Observation well	K [ft/d]	
5-90	3.78×10^2	

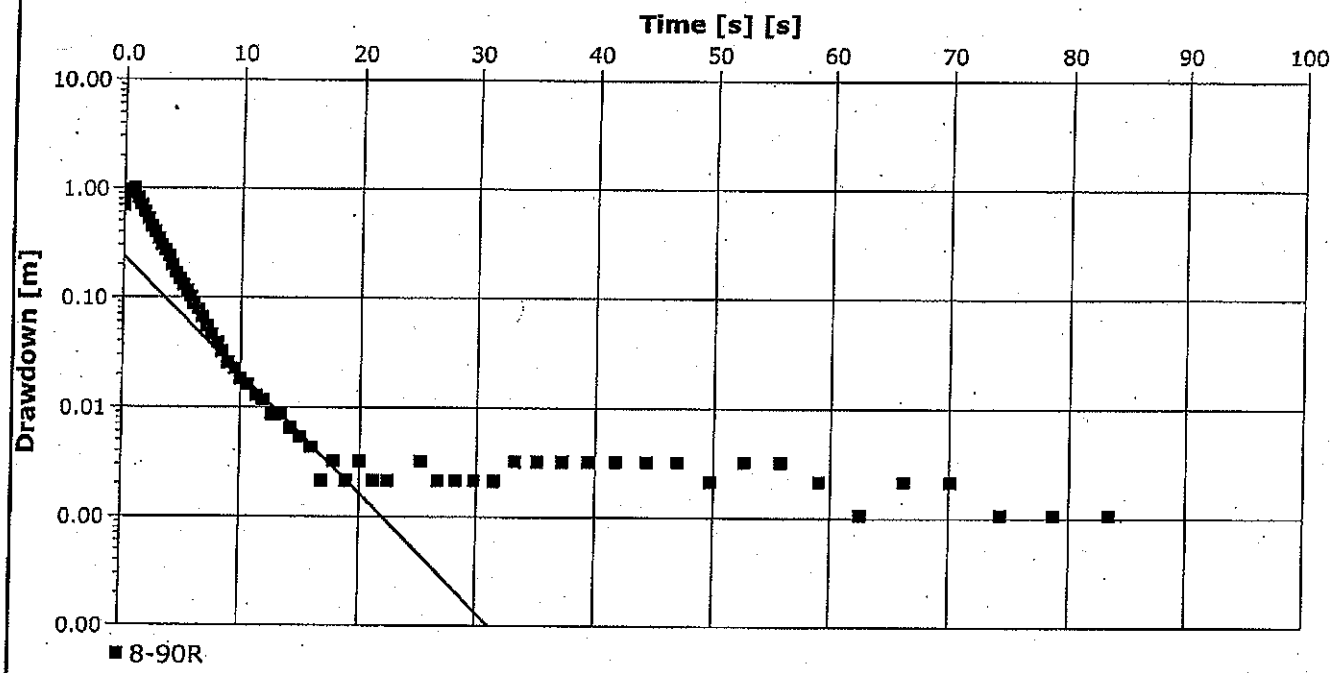
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 5-90 trial2	Test Well: 5-90
Test conducted by:		Test date: 1/30/2007
Aquifer Thickness: 23.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	5-90 trial2 B&R	KNR	1/30/2007	Bouwer && Rice	5-90		3.27×10^{2}	
2	5-90 trial2 Hv	KNR	1/30/2007	Hvorslev	5-90		3.78×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R Slug	Test Well: 8-90R
Test conducted by: KNR / PGN		Test date: 1/19/2007
Analysis performed by: KNR	8-90R trial 1 B&R	Date: 1/30/2007
Aquifer Thickness: 4.00 m		

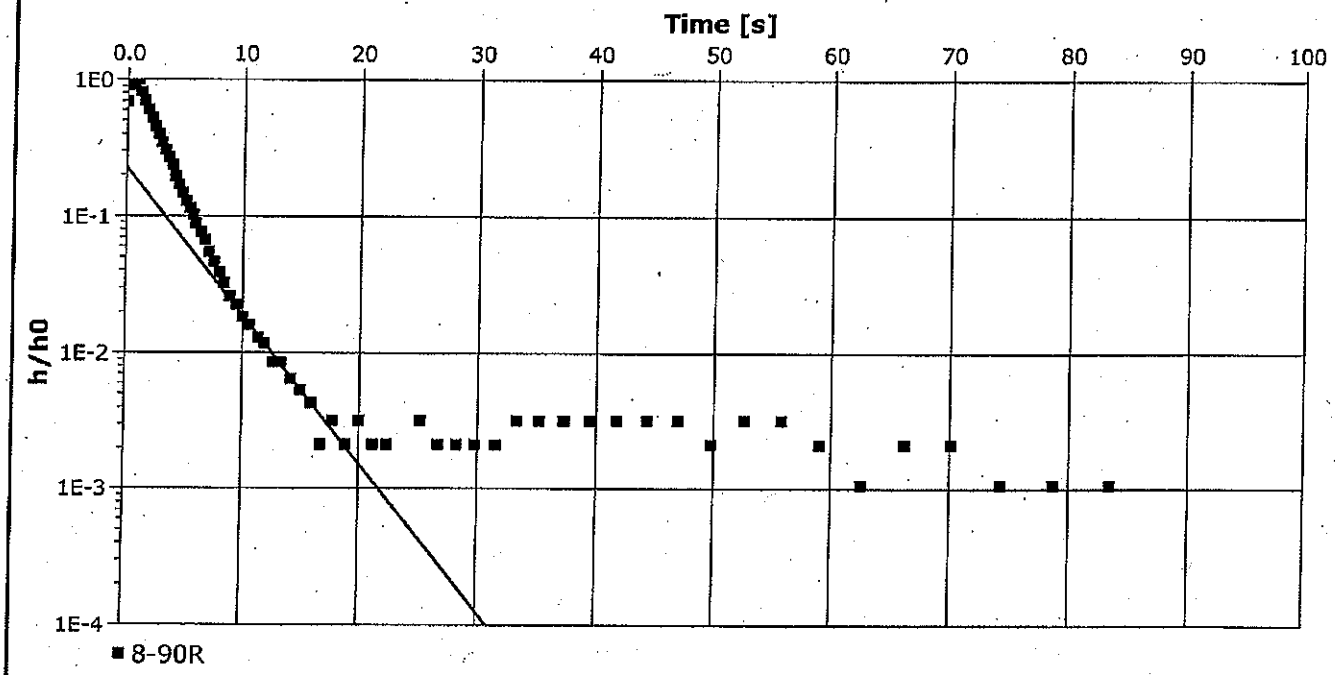


Calculation after Bouwer && Rice

Observation well	K [ft/d]	
8-90R	2.21×10^2	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R Slug	Test Well: 8-90R
Test conducted by: KNR / PGN		Test date: 1/19/2007
Analysis performed by:	8-90R trial 1 Hv	Date: 1/30/2007
Aquifer Thickness: 4.00 m		



Calculation after Hvorslev

Observation well	K [ft/d]	
8-90R	3.00×10^2	

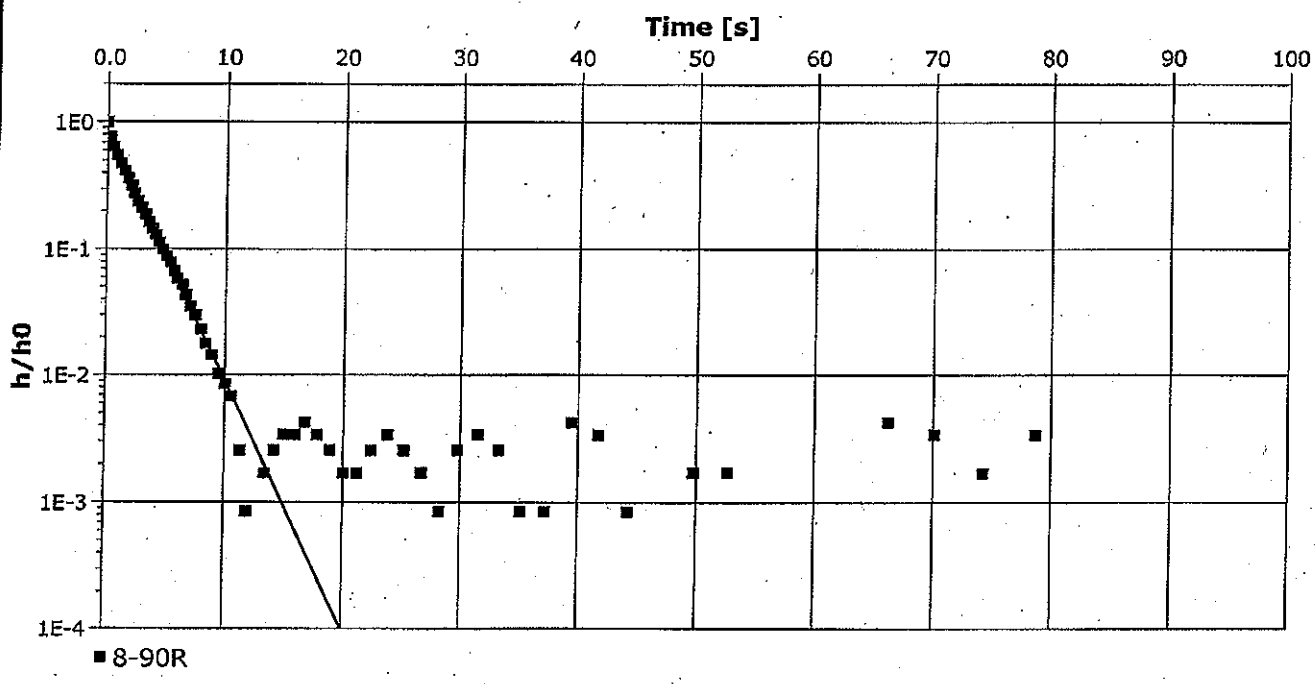
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R Slug	Test Well: 8-90R
Test conducted by: KNR / PGN		Test date: 1/19/2007
Aquifer Thickness: 4.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	8-90R trial 1 B&R	KNR	1/30/2007	Bouwer && Rice	8-90R		2.21×10^{2}	
2	8-90R trial 1 Hv		1/30/2007	Hvorslev	8-90R		3.00×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R trial2	Test Well: 8-90R
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	8-90R trial2 B&R	Date: 1/30/2007
Aquifer Thickness: 4.00 m		

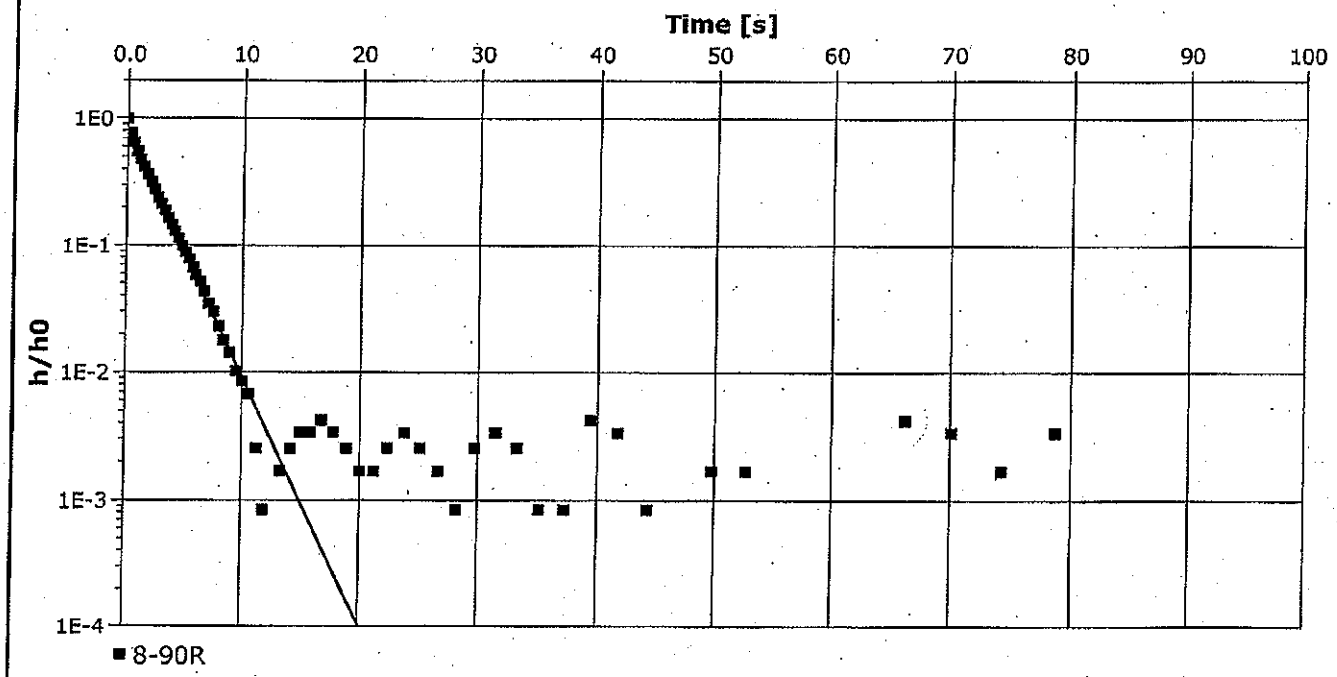


Calculation after Bouwer && Rice

Observation well	K [ft/d]	
8-90R	4.00×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R trial2	Test Well: 8-90R
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	8-90R trial2 HV	Date: 1/30/2007
Aquifer Thickness: 4.00 m		



Calculation after Hvorslev

Observation well	K [ft/d]	
8-90R	5.35×10^{2}	

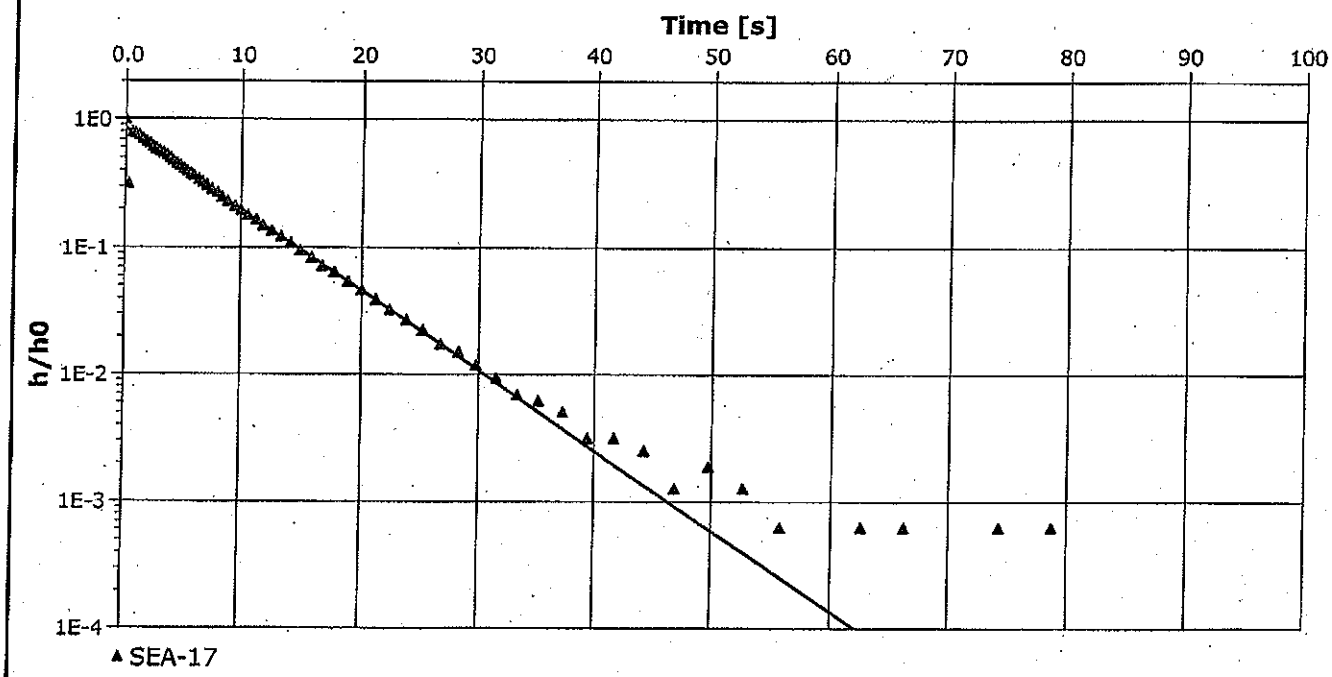
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: 8-90R trial2	Test Well: 8-90R
Test conducted by: KNR/PGN		Test date: 1/19/2007
Aquifer Thickness: 4.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	8-90R trial2 B&R	KNR	1/30/2007	Bouwer && Rice	8-90R		4.00×10^2	
2	8-90R trial2 HV	KNR	1/30/2007	Hvorslev	8-90R		5.35×10^2	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA17	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	SEA17 B+R	Date: 1/30/2007
Aquifer Thickness: 23.00 m		

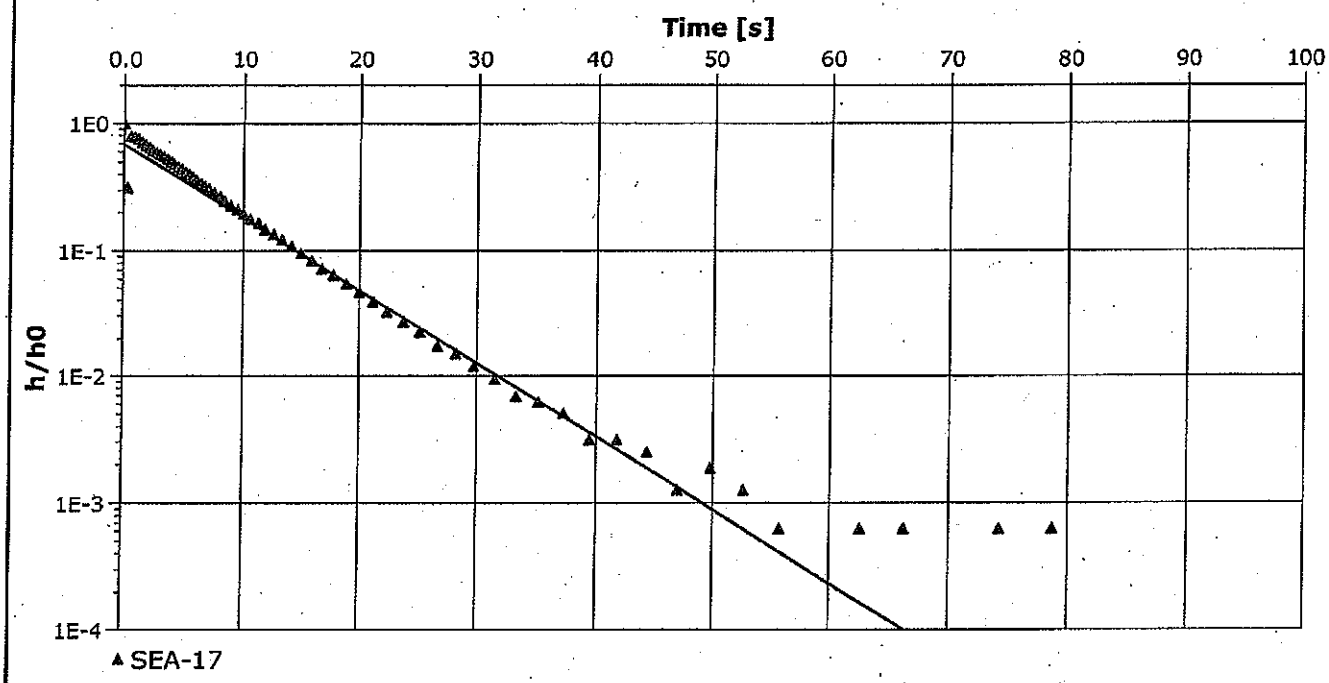


Calculation after Bouwer && Rice

Observation well	K [ft/d]	
SEA-17	1.50×10^2	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA17	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	SEA 17 Hv	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Hvorslev		
Observation well	K [ft/d]	
SEA-17	1.60×10^{2}	

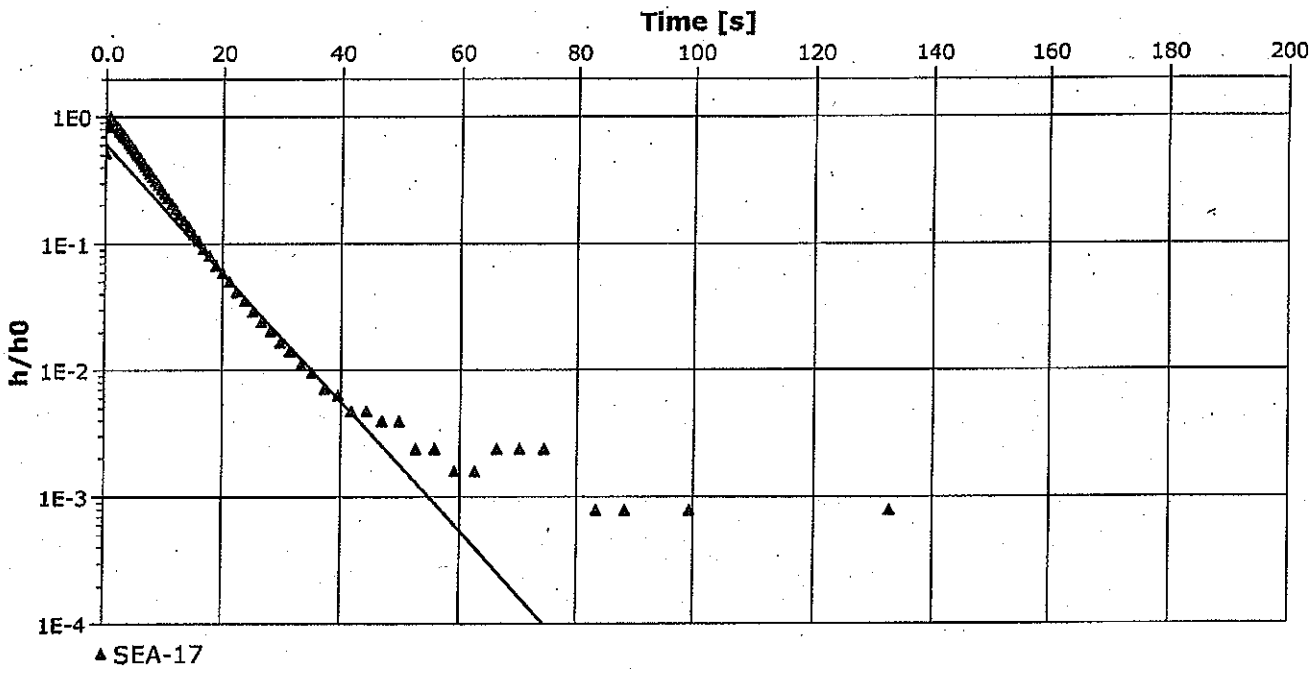
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA17	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Aquifer Thickness: 23.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	SEA17 B+R	KNR	1/30/2007	Bouwer && Rice	SEA-17		1.50×10^{2}	
2	SEA 17 Hv	KNR	1/30/2007	Hvorslev	SEA-17		1.60×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

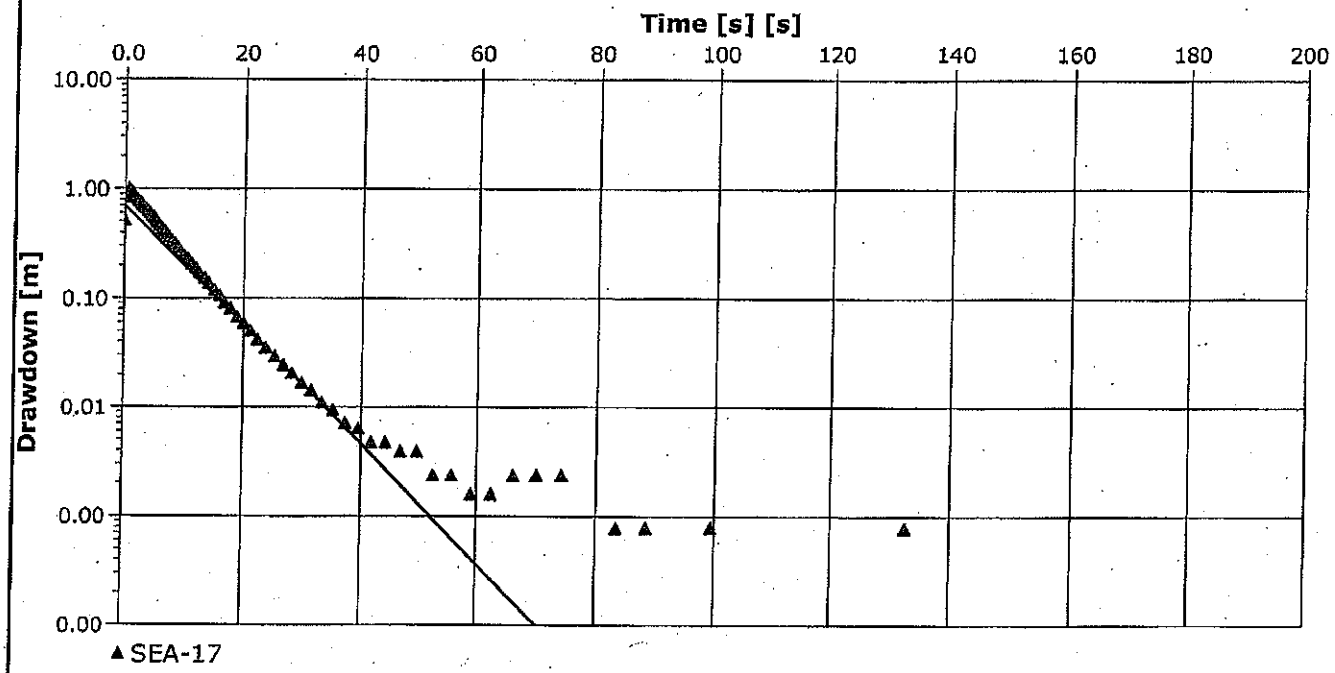
Location:	Slug Test: SEA17 trial 2	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: knr	SEA17 trial 2 B+R	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Bouwer && Rice		
Observation well	K [ft/d]	
SEA-17	1.21×10^{2}	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA17 trial 2	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: KNR	sea 17 trial2 Hv	Date: 1/30/2007
Aquifer Thickness: 23.00 m		



Calculation after Hvorslev

Observation well	K [ft/d]
SEA-17	1.51×10^{2}

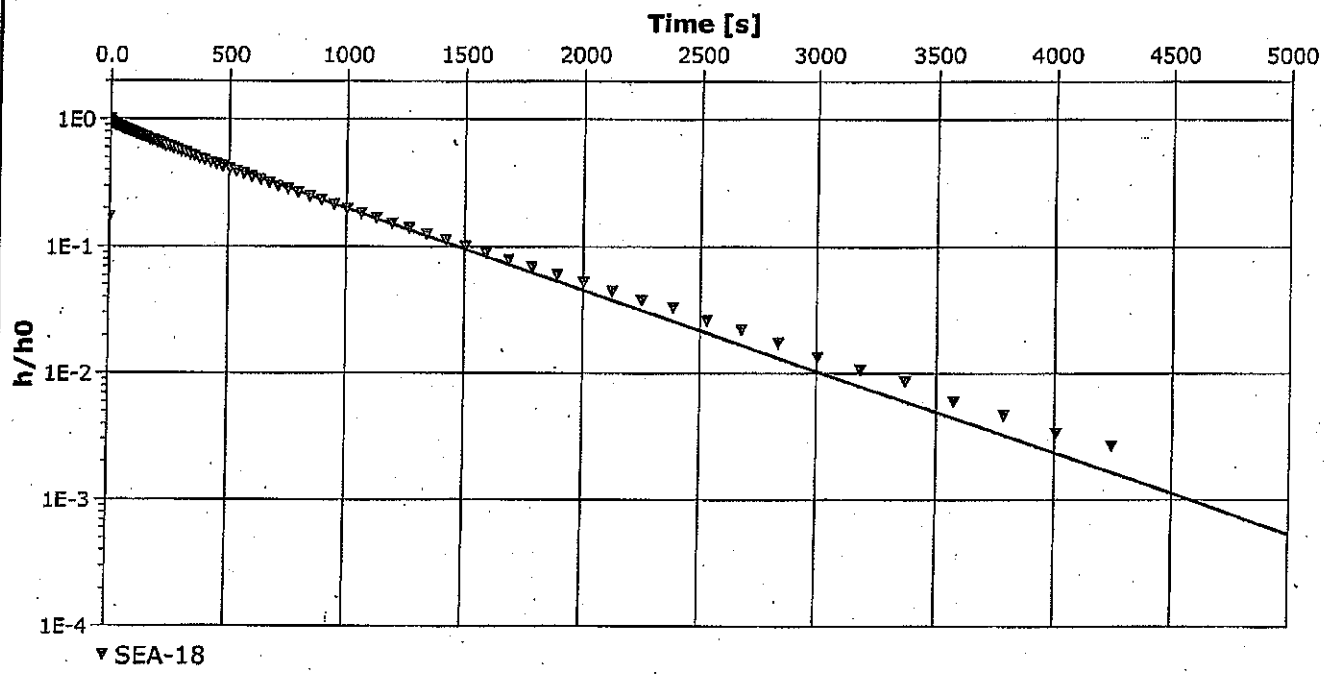
	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA17 trial 2	Test Well: SEA-17
Test conducted by: KNR/PGN		Test date: 1/19/2007
Aquifer Thickness: 23.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	SEA17 trial 2 B+R	knr	1/30/2007	Bouwer && Rice	SEA-17		1.21×10^2	
2	sea 17 trial2 Hv	KNR	1/30/2007	Hvorslev	SEA-17		1.51×10^2	

	Slug Test Analysis Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA 18	Test Well: SEA-18
Test conducted by: KNR/PGN		Test date: 1/19/2007
Analysis performed by: knr	sea18 Hv	Date: 1/30/2007
Aquifer Thickness: 19.00 m		



Calculation after Hvorslev

Observation well	K [ft/d]
SEA-18	1.78×10^{0}

	Slug Test - Analyses Report
	Project: Framingham Birch Road
	Number: 2004194.22
	Client:

Location:	Slug Test: SEA 18	Test Well: SEA-18
Test conducted by: KNR/PGN		Test date: 1/19/2007
Aquifer Thickness: 19.00 m		

	Analysis Name	Analysis performed by	Date	Method name	Well	T [ft²/d]	K [ft/d]	S
1	sea18 b+r	knr	1/30/2007	Bouwer && Rice	SEA-18		1.42×10^0	
2	sea18 Hv	knr	1/30/2007	Hvorslev	SEA-18		1.78×10^0	

S E A Consultants Inc.
485 Massachusetts Avenue
Cambridge, MA 02139 USA
(617) 497-7800

Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location:

Slug Test: SEA-2

Test Well: SEA-2

Recorded by: PGN
Date: 3/18/2005

Aquifer Thickness: 27 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-2			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05	Newton	SEA-2	873.921761	32.3674726	0.0000086
3	Hvorslev	Hvorslev	03/21/05		SEA-2		157.961284	
					Average Value	**873.921762**	**95.164378**	**0.000009**

S E A Consultants Inc.
485 Massachusetts Avenue
Cambridge, MA 02139 USA
(617) 497-7800

Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-7 | Test Well: SEA-7

Recorded by:
Date: 3/21/2005

Aquifer Thickness: 63 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-7			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05			928.127718	14.7321860	0.10816
3	Hvorslev	Hvorslev	03/21/05		SEA-7		81.3785554	
					Average Value	**928.127719**	**48.055371**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location:

Slug Test: SEA-9

Test Well: SEA-9

Recorded by:

Date: 3/21/2005

Aquifer Thickness: 98 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-9			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05		SEA-9	2044.46848	20.8619233	0.10816
3	Hvorslev	Hvorslev	03/21/05		SEA-9		147.101166	
4	Time vs. Change in Water Level Plot	Time vs. Change in Water Level Plot	03/21/05		SEA-9			
					Average Value	2044.46848	83.981545	0.10816

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-10 | Test Well: SEA-10

Recorded by:
Date: 3/21/2005

Aquifer Thickness: 18 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-10			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05		SEA-10	164.743035	9.15239084	0.10816
3	Hvorslev	Hvorslev	03/21/05		SEA-10		15.4140237	
					Average Value	**164.743035**	**12.283207**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-11 | Test Well: SEA-11

Recorded by:
Date: 3/21/2005

Aquifer Thickness: 32 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-11			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05		SEA-11	168.114534	5.25357921	0.0000086
3	Hvorslev	Hvorslev	03/21/05		SEA-11		27.4755241	
					Average Value	**168.114535**	**16.364552**	**0.000009**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-11b | Test Well: SEA-11

Recorded by:
Date: 3/21/2005

Aquifer Thickness: 32 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/21/05		SEA-11			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/21/05		SEA-11	64.4491094	2.01403467	0.10816
3	Hvorslev	Hvorslev	03/21/05		SEA-11		3.18630858	
					Average Value	**64.449109**	**2.600172**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-12 | Test Well: SEA-12

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 48 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		SEA-12			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		SEA-12	0.33421158	0.00696274	0.10816
3	Hvorslev	Hvorslev	03/22/05		SEA-12		0.00911080	
					Average Value	**0.334212**	**0.008037**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-13 | Test Well: SEA-13

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 43 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		SEA-13			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		SEA-13	3392.97313	78.9063519	0.10816
3	Hvorslev	Hvorslev	03/22/05		SEA-13		393.151664	
					Average Value	**3392.97313**	**236.029008**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-14 | Test Well: SEA-14

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 21 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft^2/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		SEA-14			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		SEA-14	27.8453406	1.32596860	0.0000086
3	Hvorslev	Hvorslev	03/22/05		SEA-14		0.01426165	
					Average Value	**27.845341**	**0.670115**	**0.000009**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-15 | Test Well: SEA-15

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 63.14 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		SEA-15			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		SEA-15	9345.024	148.004814	0.0000086
3	Hvorslev	Hvorslev	03/22/05		SEA-15		329.068936	
					Average Value	**9345.024**	**238.536876**	**0.000009**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: SEA-15b | Test Well: SEA-15

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 63.14 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		SEA-15			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		SEA-15	9345.024	148.004814	0.0000086
3	Hvorslev	Hvorslev	03/22/05		SEA-15		60.5456871	
					Average Value	**9345.024**	**104.275251**	**0.000009**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-100 | Test Well: MW-100

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 8.5 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-100			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-100	5.29294672	0.62269961	0.10816
3	Hvorslev	Hvorslev	03/22/05		MW-100		0.39431327	
					Average Value	**5.292947**	**0.508506**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-101 | Test Well: MW-101

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 40.5 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-101			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-101	2955.15606	72.9668163	0.10816
3	Hvorslev	Hvorslev	03/22/05		MW-101		159.396505	
					Average Value	**2955.15606**	**116.181661**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-8R | Test Well: MW-8R

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 25.5 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-8R			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-8R	85.9806262	3.37178926	0.05408
3	Hvorslev	Hvorslev	03/22/05		MW-8R		11.6572224	
					Average Value	**85.980626**	**7.514506**	**0.05408**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-12 | Test Well: MW-12

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 25.5 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-12			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-12	4.09732633	0.16067946	0.05408
3	Hvorslev	Hvorslev	03/22/05		MW-12		1.05158966	
					Average Value	**4.097326**	**0.606135**	**0.05408**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-1R | Test Well: MW-1R

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 26 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-1R			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-1R	4850.52398	186.558614	0.10816
3	Hvorslev	Hvorslev	03/22/05		MW-1R		582.174672	
					Average Value	**4850.52398**	**384.366644**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-7 | Test Well: MW-7

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 26 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-7			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-7	6.87332765	0.26435875	0.10816
3	Hvorslev	Hvorslev	03/22/05		MW-7		0.80207399	
					Average Value	**6.873328**	**0.533216**	**0.10816**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-5-90 | Test Well: MW-5-90

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 65 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-5-90			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-5-90	1623.97904	24.9842930	0.05408
3	Hvorslev	Hvorslev	03/22/05		MW-5-90		138.077346	
					Average Value	**1623.97904**	**81.53082**	**0.05408**

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Analysis Summary

Project: Birch Road Wellfield Replacement

Number: 2004194 | Page 1

Client: Town of Framingham

Location: | Slug Test: MW-7-90 | Test Well: MW-7-90

Recorded by:
Date: 3/22/2005

Aquifer Thickness: 22 [ft]

	Name of Analysis	Analysis Method	Date	Evaluated by	Well	T ft²/d	K ft/d	S
1	Bouwer & Rice	Bouwer & Rice	03/22/05		MW-7-90			
2	Cooper-Bredehoeft-Papadopulos	Cooper-Bredehoeft-Papadopulos	03/22/05		MW-7-90	101.020967	4.59186214	0.10816
3	Hvorslev	Hvorslev	03/22/05		MW-7-90		12.1771282	
					Average Value	**101.020967**	**8.384495**	**0.10816**

APPENDIX E

PUMPING TEST DRAWDOWN & RECOVERY DATA

Pumping Rates

	Values of H in inches				Flow in GPM				
Φ pipe	6"	6"	6"	8"	6"	6"	6"	8"	
Φ orifice	5"	5"	5"	6"	19.63	19.63	19.63	28.27	
Date and time	**TW-1**	**TW-2**	**TW-3**	**TW-4**	**TW-1**	**TW-2**	**TW-3**	**TW-4**	**TOTAL**
4/26/06 12:05	10.5	9.5	10.5	26	403	384	403	807	1997
4/26/06 12:20	10.5	9.5	10.5	24	403	384	403	775	1965
4/26/06 16:00	10.5	9.5	10	24	403	384	394	775	1956
4/26/06 18:00	10.5	9.5	11	24	403	384	413	775	1975
4/26/06 20:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/26/06 22:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 0:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 2:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 4:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 6:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 8:00	10.5	9.5	11	24.5	403	384	413	783	1983
4/27/06 11:00	10.5	9.5	10.5	24.5	403	384	403	783	1973
4/27/06 12:30	10.5	9.5	10.5	25	403	384	403	791	1981
4/27/06 15:00	10.5	9.5	10	27	403	384	394	822	2003
4/27/06 18:30	10.5	11	10	26.5	403	413	394	815	2025
4/27/06 20:35	10.5	11	10	26.5	403	413	394	815	2025
4/27/06 22:30	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 0:35	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 2:30	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 4:35	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 6:30	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 7:00	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 9:05	10.5	11	10	26.5	403	413	394	815	2025
4/28/06 11:05	10.5	11.25	10	25.75	403	417.5	394	803	2017.5
4/28/06 13:15	10.5	11.25	10	26	403	417.5	394	807	2021.5
4/28/06 14:30	10.5	11.25	10	26	403	417.5	394	807	2021.5
4/28/06 16:30	10.5	11.25	9.75	26	403	417.5	389	807	2016.5
4/28/06 17:15	10.5	11.25	9.75	26	403	417.5	389	807	2016.5
4/28/06 19:15	10.5	11.25	9.75	26.5	403	417.5	389	815	2024.5
4/28/06 21:15	10.5	11.25	9.75	26.5	403	417.5	389	815	2024.5
4/29/06 0:15	10.5	11.5	9.25	26.5	403	422	378.5	815	2018.5
4/29/06 2:45	10.5	11.25	9.25	26.5	403	417.5	378.5	815	2014
4/29/06 4:30	10.5	11.25	9.25	26.5	403	417.5	378.5	815	2014
4/29/06 6:30	10.5	11.5	9.25	26.5	403	422	378.5	815	2018.5
4/29/06 8:00	10.5	10.75	10	27	403	408	394	822	2027
4/29/06 10:00	10.5	11	10	27	403	413	394	822	2032
4/29/06 13:00	10.5	10.75	9.75	27	403	408	389	822	2022
4/29/06 16:00	10.5	10.75	10	27	403	408	394	822	2027
4/29/06 18:30	10.5	10.75	10	27	403	408	394	822	2027
4/29/06 21:00	10.5	11	10	27	403	413	394	822	2032
4/29/06 23:00	10.5	11	10	27	403	413	394	822	2032
4/30/06 0:30	10.5	11	10	27	403	413	394	822	2032
4/30/06 2:30	10.5	11	10	27	403	413	394	822	2032
4/30/06 4:30	10.5	11	10	27	403	413	394	822	2032
4/30/06 6:00	10.5	11	10	27	403	413	394	822	2032
4/30/06 7:00	10.5	11	10	27	403	413	394	822	2032
4/30/06 9:00	10.25	10.75	9.5	27	398.5	408	384	822	2012.5
4/30/06 11:15	10.25	10.75	9.5	27	398.5	408	384	822	2012.5
4/30/06 12:05	10.25	8.25	9.5	27	398.5	398.5	384	822	2003
4/30/06 14:15	10.5	8	9.5	27	403	352	384	822	1961
4/30/06 16:20	10.5	8	9.5	27	403	352	384	822	1961
4/30/06 19:00	10.5	8	9.5	27	403	352	384	822	1961
4/30/06 21:00	10.25	8	9.5	27	398.5	352	384	822	1956.5
4/30/06 22:00	10.25	8	9.5	27	398.5	352	384	822	1956.5
5/1/06 0:30	10.25	8	9.5	27	398.5	352	384	822	1956.5
5/1/06 2:30	10.25	8.25	9.5	27	398.5	398.5	384	822	2003
5/1/06 4:30	10.25	8	9.5	27	398.5	352	384	822	1956.5

Pumping Rates

	Values of H in inches				Flow in GPM				
Φ pipe	6"	6"	6"	8"	6"	6"	6"	8"	
Φ orifice	5"	5"	5"	6"	19.63	19.63	19.63	28.27	
Date and time	**TW-1**	**TW-2**	**TW-3**	**TW-4**	**TW-1**	**TW-2**	**TW-3**	**TW-4**	**TOTAL**
5/1/06 6:30	10.25	8.25	9.5	27	398.5	398.5	384	822	2003
5/1/06 7:30	10.25	8	9.5	27	398.5	352	384	822	1956.5
5/2/06 6:55	8	6	8	19.5	352	305	352	699	1708
5/2/06 9:40	8	6	8	19	352	305	352	690	1699
5/2/06 12:15	8	6	8	19	352	305	352	690	1699
5/2/06 15:15	8	6	8	18.5	352	305	352	681	1690
5/2/06 17:30	8	6	8	19	352	305	352	690	1699
5/2/06 18:40	6	5	6	19	305	278	305	690	1578
5/2/06 20:00	6	5	6	19	305	278	305	690	1578
5/2/06 22:00	6	5.5	6	19	305	292	305	690	1592
5/3/06 7:15	5.75	5.5	6	18.5	298.5	292	305	681	1576.5
5/3/06 9:45	5.75	5.75	6	18.5	298.5	298.5	305	681	1583
5/3/06 11:30	5.75	5.5	6	18.5	298.5	292	305	681	1576.5
5/3/06 13:00	5.75	5.5	6	18.5	298.5	292	305	681	1576.5
5/3/06 19:00	5.75	5.5	6	18.5	298.5	292	305	681	1576.5
5/4/06 7:10	6	5	6	18.5	305	278	305	681	1569
5/4/06 12:30	6	5.5	6	19	305	292	305	690	1592
5/4/06 17:50	6	5.5	6	19	305	292	305	690	1592
5/4/06 19:50	6	5.5	6	19	305	292	305	690	1592
5/5/06 7:05	6	5.5	6	19	305	292	305	690	1592
5/5/06 9:35	6	5.5	6	19	305	292	305	690	1592
5/5/06 12:30	6	5.5	6	19	305	292	305	690	1592
5/5/06 14:30	6	5.5	6	19	305	292	305	690	1592
5/5/06 16:30	6	5.5	6	19	305	292	305	690	1592
5/5/06 19:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 7:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 10:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 12:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 15:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 18:30	6	5.5	6	19	305	292	305	690	1592
5/6/06 21:30	6	5.5	6	19	305	292	305	690	1592
5/7/06 7:30	6	5.5	6	19	305	292	305	690	1592
5/7/06 10:30	6	5.5	6	19	305	292	305	690	1592
5/7/06 12:45	6	5.5	6	19	305	292	305	690	1592
5/7/06 17:18	6	5.5	6	19	305	292	305	690	1592
5/8/06 7:00	6	5.5	6	19	305	292	305	690	1592
5/8/06 9:30	6	5.5	6	19	305	292	305	690	1592

USGS Well Data

Manual Data

date and time	WSE (ft)
4/14/2006 14:17	141.61
4/19/2006 9:23	141.53
4/20/2006 18:45	141.52
4/21/2006 12:40	141.50
4/22/2006 15:15	141.51
4/23/2006 17:07	141.49
4/24/2006 19:33	141.57
4/25/2006 13:00	141.60
4/26/2006 10:22	141.57
4/27/2006 19:00	141.53
4/28/2006 14:11	141.52
4/29/2006 12:40	141.47
4/30/2006 11:31	141.47
5/1/2006 15:00	141.48
5/2/2006 14:00	141.49
5/3/2006 7:23	141.52
5/4/2006 15:50	141.58
5/5/2006 12:39	141.59
5/6/2006 15:10	141.56
5/7/2006 12:06	141.55
5/8/2006 10:12	141.52
5/9/2006 14:00	141.52
5/10/2006 17:30	141.58
5/11/2006 10:40	141.60
5/12/2006 9:40	141.64

Online Data at USGS

Date	WSE (ft)
1/24/2006	142.63
2/22/2006	142.68
3/27/2006	141.92
4/27/2006	141.53
5/23/2006	142.72
6/27/2006	143.13
7/26/2006	142.18
8/23/2006	141.27

Historical Data

Date	WSE (ft)
01/29/65	141.02
02/23/65	140.46
03/26/65	141.43
04/26/65	141.61
05/24/65	141.41
06/28/65	141.35
07/23/65	141.07
08/23/65	140.71
09/27/65	140.56
10/25/65	140.6
11/22/65	140.55
12/20/65	140.71
01/21/66	140.71
02/21/66	140.82
03/21/66	141.45
04/22/66	141.6
05/23/66	141.82
06/20/66	141.78
07/25/66	141.28
08/22/66	141.07
09/26/66	141.09
10/24/66	141.3
11/28/66	141.47
12/23/66	140.83
01/31/67	141
02/24/67	141.35
03/27/67	141.71
04/25/67	142.72
05/23/67	142.52
06/28/67	143.08
07/26/67	142.49
08/25/67	142.07
09/26/67	141.77
10/25/67	141.82
11/24/67	141.39
12/22/67	141.36
01/29/68	141.05
02/23/68	141.45

Historical Data

Date	WSE (ft)	Date	WSE (ft)	Date	WSE (ft)	Date	WSE (ft)	Date	WSE (ft)	Date	WSE (ft)
3/25/68	143.25	9/25/74	141.52	3/23/81	141.51	7/22/87	141.15	3/30/94	142.91	9/29/00	140.92
4/23/68	142.85	10/29/74	141.75	4/26/81	141.63	8/21/87	140.55	4/26/94	142.61	10/23/00	141.98
5/22/68	142.69	11/25/74	141.55	5/23/81	141.41	9/22/87	140.74	5/31/94	142.21	11/27/00	141.41
6/24/68	142.57	12/30/74	142.01	6/21/81	141.07	10/22/87	140.99	6/27/94	141.53	12/26/00	141.46
7/22/68	142.46	1/28/75	142.81	7/25/81	140.85	11/23/87	140.99	7/27/94	140.77	1/22/01	141.02
8/23/68	141.76	2/25/75	142.52	8/22/81	140.56	12/22/87	141.13	8/29/94	141.45	2/22/01	141.18
9/23/68	141.29	3/25/75	142.35	9/22/81	140.29	1/22/88	140.9	9/27/94	141.35	3/28/01	142.69
10/25/68	141.2	4/25/75	142.37	10/24/81	140.54	2/24/88	141.59	10/27/94	141.14	4/28/01	142.69
11/22/68	141.49	5/27/75	142	11/21/81	140.68	3/23/88	141.55	11/25/94	141.26	5/23/01	141.99
12/27/68	141.75	6/27/75	141.67	12/21/81	140.8	4/25/88	141.62	12/21/94	141.8	6/25/01	142.03
1/24/69	141.85	7/22/75	141.36	1/22/82	141.35	5/26/88	141.75	1/25/95	142.36	7/26/01	141.39
2/26/69	141.98	8/26/75	141.05	2/24/82	141.32	6/21/88	141.48	2/28/95	142.06	8/30/01	140.88
3/25/69	142.32	9/26/75	141.81	3/27/82	141.66	7/22/88	140.92	3/27/95	142.13	9/25/01	140.61
4/24/69	143.3	10/28/75	142.57	4/22/82	142.18	8/25/88	140.75	4/26/95	141.93	10/23/01	140.42
5/23/69	142.5	11/28/75	142.64	5/22/82	142.02	9/21/88	140.47	5/23/95	141.64	11/26/01	140.2
6/24/69	141.93	12/24/75	142.36	6/24/82	143.34	10/24/88	140.36	6/27/95	141.12	12/20/01	140.27
7/28/69	141.38	1/30/76	142.86	7/23/82	142.32	11/22/88	140.85	7/27/95	140.56	1/28/02	140.6
8/25/69	141.61	2/24/76	143.18	8/22/82	141.83	12/22/88	140.63	8/23/95	140.18	2/26/02	140.69
9/22/69	141.7	3/26/76	142.5	9/23/82	141.33	1/20/89	140.75	9/26/95	139.65	3/26/02	141.01
10/27/69	141.47	4/27/76	142.23	10/22/82	141.16	2/22/89	140.76	10/30/95	140.21	4/30/02	141.46
11/24/69	142.55	5/26/76	141.85	11/23/82	140.93	3/22/89	140.97	11/27/95	141.23	5/28/02	141.77
12/24/69	142.78	6/24/76	141.3	12/22/82	140.52	4/24/89	141.97	1/25/96	141.9	6/20/02	141.81
1/23/70	142.99	7/27/76	140.82	1/24/83	140.53	5/24/89	141.95	2/28/96	142.7	7/30/02	141.12
2/20/70	143.58	8/26/76	141.15	2/22/83	141.15	6/22/89	141.71	3/26/96	142.72	8/27/02	140.67
3/25/70	142.91	9/22/76	140.87	3/23/83	142.89	7/24/89	141.42	4/23/96	143.21	9/26/02	140.43
4/24/70	143.33	10/27/76	141.25	4/21/83	143.18	8/23/89	141.8	5/29/96	142.51	10/31/02	140.71
5/25/70	142.83	11/29/76	140.77	5/24/83	142.68	9/21/89	141.52	6/26/96	142.05	11/21/02	141.23
6/24/70	142.12	12/28/76	140.68	6/22/83	142.17	10/24/89	141.95	7/26/96	141.93	12/17/02	141.81
7/27/70	141.45	1/27/77	140.98	7/21/83	141.42	11/21/89	142.19	8/28/96	141.23	1/30/03	141.91
8/25/70	141.33	2/25/77	140.75	8/24/83	140.7	12/21/89	141.55	9/26/96	141.52	2/26/03	141.98
9/23/70	141.14	3/30/77	142.84	9/22/83	140.75	1/23/90	141.03	10/28/96	142.87	3/26/03	142.56
10/26/70	141.25	4/28/77	142.95	10/21/83	140.8	2/22/90	142.1	11/21/96	143.23	4/28/03	143.1
11/23/70	141.74	5/26/77	142.64	11/21/83	141.05	3/22/90	142.04	12/23/96	143.41	5/28/03	142.51
12/24/70	141.89	6/28/77	141.77	12/21/83	142.59	4/24/90	142.22	1/29/97	143.06	6/26/03	142.75
1/25/71	141.65	7/27/77	141.21	1/24/84	141.6	5/24/90	142.4	2/25/97	142.74	7/23/03	141.94
2/23/71	142.03	8/26/77	140.81	2/22/84	142.07	6/22/90	141.95	3/27/97	142.66	8/20/03	141.67
3/24/71	143.01	9/29/77	141.1	3/20/84	142.67	7/24/90	141.19	4/30/97	143.44	9/23/03	140.99
4/26/71	142.86	10/27/77	141.81	4/21/84	143.16	8/23/90	141.65	5/27/97	142.81	10/27/03	141.09
5/21/71	142.85	11/29/77	142.19	5/22/84	142.47	9/27/90	141.07	6/26/97	141.95	11/25/03	141.49
6/28/71	141.87	12/29/77	141.59	6/22/84	142.83	10/26/90	141.56	7/28/97	141.25	12/22/03	142.13
7/26/71	141.21	1/27/78	143.09	7/20/84	141.8	11/26/90	141.56	8/20/97	140.86	1/21/04	141.77
8/25/71	140.88	2/27/78	142.32	8/15/84	141.9	12/26/90	141.68	9/23/97	140.58	2/24/04	141.5
9/22/71	140.91	3/24/78	142.45	8/22/84	141.31	1/23/91	141.75	10/28/97	140.43	3/29/04	141.66
10/28/71	141.14	4/27/78	142.83	9/18/84	141.31	2/25/91	141.9	11/24/97	141.01	4/28/04	143.06
11/24/71	141.32	5/26/78	142.49	9/25/84	141.23	3/26/91	142.1	12/31/97	141.41	5/26/04	142.48
12/23/71	141.56	6/30/78	141.94	10/22/84	140.99	4/25/91	141.87	1/29/98	142.24	6/24/04	141.73
1/26/72	141.35	7/27/78	141.31	11/21/84	141.2	5/29/91	141.62	2/27/98	142.67	7/21/04	141.14
2/28/72	141.55	8/29/78	141.27	12/26/84	141.22	6/26/91	141.13	3/24/98	143.13	8/19/04	141.47
3/27/72	143.79	9/27/78	140.75	1/21/85	140.97	7/30/91	140.69	4/27/98	142.76	9/22/04	141.25
4/25/72	143.61	10/27/78	140.86	2/21/85	140.89	8/28/91	141.06	5/27/98	142.81	10/27/04	141.35
5/24/72	143.76	11/27/78	140.71	3/26/85	141.07	9/26/91	141.08	6/26/98	143.51	11/22/04	141.1
6/29/72	143.67	12/26/78	141.16	4/22/85	141	10/29/91	141.29	7/28/98	142.41	12/21/04	141.84
7/26/72	142.97	1/29/79	143.55	5/23/85	141.25	11/25/91	141.99	8/31/98	141.66	2/25/05	142.5
8/28/72	141.85	2/27/79	142.36	6/24/85	141.36	12/23/91	141.95	9/24/98	141.26	3/23/05	142.3
9/26/72	141.58	3/28/79	142.07	7/22/85	141.06	1/30/92	141.99	10/27/98	141.61	4/25/05	142.96
10/30/72	141.87	4/26/79	142.2	8/20/85	141.25	2/21/92	141.79	11/30/98	141.36	5/25/05	142.39
11/27/72	142.75	5/30/79	142.38	9/23/85	141.29	3/27/92	141.91	12/21/98	141.27	6/21/05	142.12
12/22/72	143.46	6/28/79	141.64	10/22/85	140.92	4/24/92	141.95	1/27/99	142.23	7/20/05	141.71
1/26/73	143.35	7/27/79	141.19	11/21/85	141.26	5/26/92	141.76	2/24/99	142.38	8/29/05	140.67
2/23/73	143.39	8/30/79	141.31	12/24/85	141.51	6/29/92	142.15	3/18/99	142.5	9/21/05	140.37
3/26/73	142.88	9/24/79	141.25	1/21/86	141.2	7/30/92	140.88	4/29/99	141.99	10/26/05	141.95
4/23/73	143.15	10/23/79	141.1	2/24/86	141.65	8/28/92	141.09	5/27/99	141.66	11/21/05	142.17
5/24/73	142.7	11/26/79	141.08	3/24/86	142.21	9/29/92	140.93	6/23/99	141.08	12/19/05	142.31
6/26/73	142.17	12/27/79	140.87	4/22/86	141.68	10/29/92	140.99	7/28/99	140.46	1/24/06	142.63
7/27/73	142.12	1/24/80	140.81	5/21/86	141.35	11/24/92	141.1	8/30/99	140.04	2/22/06	142.68
8/27/73	142.13	2/25/80	140.34	6/26/86	142.04	12/22/92	142.28	9/22/99	140.82	3/27/06	141.92
9/25/73	141.73	3/24/80	140.9	7/22/86	141.73	1/22/93	142.15	10/29/99	141.3	4/27/06	141.53
10/26/73	141.16	4/23/80	141.92	8/21/86	141.39	4/2/93	142.84	11/30/99	141.44	5/23/06	142.72
11/27/73	141.42	5/21/80	141.89	9/24/86	140.9	4/29/93	143.21	12/28/99	141.64	6/27/06	143.13
12/21/73	142.22	6/24/80	141.22	10/22/86	140.79	5/24/93	142.27	1/27/00	141.56	7/26/06	142.18
1/24/74	142.5	7/21/80	140.91	11/24/86	141.35	6/24/93	142.53	2/28/00	141.7	8/23/06	141.27
2/25/74	142.99	8/25/80	141.26	12/22/86	142.12	7/29/93	140.72	3/30/00	142.07		
3/26/74	143.21	9/22/80	140.71	1/21/87	141.97	9/29/93	140.27	4/27/00	142.69		
4/29/74	143.08	10/23/80	140.52	2/23/87	141.53	10/28/93	140.49	4/28/00	142.69		
5/22/74	142.67	11/21/80	140.81	3/25/87	141.74	11/29/93	140.94	6/1/00	142.26		
6/25/74	142.39	12/23/80	141.35	4/23/87	143.57	12/28/93	141.6	6/28/00	141.94		
7/26/74	141.69	1/22/81	140.28	5/21/87	142.9	1/31/94	141.67	7/26/00	141.38		
8/26/74	140.96	2/23/81	140.65	6/23/87	141.88	2/25/94	141.69	8/23/00	141.17		

Appendix E. Field Data

DRAWDOWN DATA

Well	Date and Time	GWE (ft)
3-90		
Manual		
	4/14/2006 12:10:00 PM	127.73
	4/21/2006 11:50:00 AM	127.85
	4/25/2006 11:08:00 AM	127.52
	4/26/2006 9:19:00 AM	127.52
	4/27/2006 5:53:00 PM	119.86
	4/28/2006 11:00:00 AM	118.59
	4/28/2006 2:50:00 PM	118.36
	4/30/2006 9:30:00 AM	116.14
	4/30/2006 3:55:00 PM	115.92
	5/1/2006 7:32:00 AM	115.38
	5/1/2006 12:54:00 PM	115.21
	5/3/2006 7:39:00 AM	115.59
	5/4/2006 1:35:00 PM	115.26
	5/5/2006 3:32:00 PM	114.9
	5/6/2006 1:40:00 PM	114.59
	5/9/2006 10:33:00 AM	119.27
TROLL		
	4/26/2006 12:05:00 PM	127.52
	4/26/2006 12:05:00 PM	127.515
	4/26/2006 12:05:00 PM	127.511
	4/26/2006 12:05:01 PM	127.511
	4/26/2006 12:05:01 PM	127.511
	4/26/2006 12:05:01 PM	127.513
	4/26/2006 12:05:01 PM	127.513
	4/26/2006 12:05:02 PM	127.512
	4/26/2006 12:05:02 PM	127.512
	4/26/2006 12:05:02 PM	127.511
	4/26/2006 12:05:02 PM	127.512
	4/26/2006 12:05:03 PM	127.512
	4/26/2006 12:05:03 PM	127.51
	4/26/2006 12:05:03 PM	127.509
	4/26/2006 12:05:03 PM	127.515
	4/26/2006 12:05:04 PM	127.514
	4/26/2006 12:05:04 PM	127.514
	4/26/2006 12:05:04 PM	127.514
	4/26/2006 12:05:04 PM	127.513
	4/26/2006 12:05:05 PM	127.512
	4/26/2006 12:05:05 PM	127.512
	4/26/2006 12:05:05 PM	127.507
3-90		
TROLL		
	4/26/2006 12:05:05 PM	127.511
	4/26/2006 12:05:06 PM	127.505
	4/26/2006 12:05:06 PM	127.511
	4/26/2006 12:05:06 PM	127.512
	4/26/2006 12:05:07 PM	127.512
	4/26/2006 12:05:07 PM	127.512
	4/26/2006 12:05:08 PM	127.508
	4/26/2006 12:05:08 PM	127.514
	4/26/2006 12:05:08 PM	127.508
	4/26/2006 12:05:09 PM	127.509
	4/26/2006 12:05:09 PM	127.509
	4/26/2006 12:05:10 PM	127.511
	4/26/2006 12:05:11 PM	127.51
	4/26/2006 12:05:11 PM	127.511
	4/26/2006 12:05:12 PM	127.511
	4/26/2006 12:05:13 PM	127.507
	4/26/2006 12:05:13 PM	127.513
	4/26/2006 12:05:14 PM	127.507
	4/26/2006 12:05:15 PM	127.508
	4/26/2006 12:05:16 PM	127.511
	4/26/2006 12:05:17 PM	127.512
	4/26/2006 12:05:18 PM	127.51
	4/26/2006 12:05:19 PM	127.505
	4/26/2006 12:05:20 PM	127.511
	4/26/2006 12:05:21 PM	127.45
	4/26/2006 12:05:23 PM	127.256
	4/26/2006 12:05:24 PM	127.064
	4/26/2006 12:05:25 PM	126.821
	4/26/2006 12:05:27 PM	126.565
	4/26/2006 12:05:28 PM	126.342
	4/26/2006 12:05:30 PM	126.155
	4/26/2006 12:05:32 PM	126.006
	4/26/2006 12:05:34 PM	125.885
	4/26/2006 12:05:36 PM	125.781
	4/26/2006 12:05:38 PM	125.683
	4/26/2006 12:05:40 PM	125.608
	4/26/2006 12:05:42 PM	125.542
	4/26/2006 12:05:45 PM	125.489
	4/26/2006 12:05:48 PM	125.443

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
3-90			**3-90**		
TROLL			TROLL		
	4/26/2006 12:05:50 PM	125.401		4/26/2006 12:17:36 PM	124.595
	4/26/2006 12:05:53 PM	125.363		4/26/2006 12:18:18 PM	124.577
	4/26/2006 12:05:57 PM	125.33		4/26/2006 12:19:06 PM	124.562
	4/26/2006 12:06:00 PM	125.297		4/26/2006 12:20:00 PM	124.533
	4/26/2006 12:06:04 PM	125.265		4/26/2006 12:20:48 PM	124.514
	4/26/2006 12:06:07 PM	125.239		4/26/2006 12:21:48 PM	124.492
	4/26/2006 12:06:11 PM	125.216		4/26/2006 12:22:48 PM	124.468
	4/26/2006 12:06:16 PM	125.193		4/26/2006 12:23:48 PM	124.446
	4/26/2006 12:06:20 PM	125.175		4/26/2006 12:24:54 PM	124.424
	4/26/2006 12:06:25 PM	125.153		4/26/2006 12:26:06 PM	124.4
	4/26/2006 12:06:30 PM	125.158		4/26/2006 12:27:24 PM	124.376
	4/26/2006 12:06:35 PM	125.119		4/26/2006 12:28:42 PM	124.351
	4/26/2006 12:06:41 PM	125.097		4/26/2006 12:30:06 PM	124.324
	4/26/2006 12:06:47 PM	125.09		4/26/2006 12:31:36 PM	124.292
	4/26/2006 12:06:53 PM	125.07		4/26/2006 12:33:12 PM	124.27
	4/26/2006 12:06:59 PM	125.058		4/26/2006 12:34:48 PM	124.247
	4/26/2006 12:07:07 PM	124.982		4/26/2006 12:36:36 PM	124.214
	4/26/2006 12:07:14 PM	125.034		4/26/2006 12:38:30 PM	124.19
	4/26/2006 12:07:22 PM	125.021		4/26/2006 12:40:30 PM	124.156
	4/26/2006 12:07:31 PM	125.009		4/26/2006 12:42:36 PM	124.124
	4/26/2006 12:07:40 PM	124.996		4/26/2006 12:44:48 PM	124.096
	4/26/2006 12:07:49 PM	124.985		4/26/2006 12:47:12 PM	124.059
	4/26/2006 12:07:59 PM	124.974		4/26/2006 12:49:42 PM	124.032
	4/26/2006 12:08:10 PM	124.967		4/26/2006 12:52:18 PM	123.999
	4/26/2006 12:08:21 PM	124.956		4/26/2006 12:55:06 PM	123.968
	4/26/2006 12:08:33 PM	124.943		4/26/2006 12:58:06 PM	123.931
	4/26/2006 12:08:46 PM	124.922		4/26/2006 1:01:12 PM	123.899
	4/26/2006 12:08:59 PM	124.914		4/26/2006 1:04:36 PM	123.866
	4/26/2006 12:09:13 PM	124.899		4/26/2006 1:08:06 PM	123.836
	4/26/2006 12:09:28 PM	124.887		4/26/2006 1:11:48 PM	123.808
	4/26/2006 12:09:44 PM	124.872		4/26/2006 1:15:48 PM	123.778
	4/26/2006 12:10:01 PM	124.865		4/26/2006 1:20:00 PM	123.745
	4/26/2006 12:10:19 PM	124.844		4/26/2006 1:24:24 PM	123.713
	4/26/2006 12:10:37 PM	124.831		4/26/2006 1:29:06 PM	123.686
	4/26/2006 12:10:58 PM	124.812		4/26/2006 1:34:06 PM	123.65
	4/26/2006 12:11:19 PM	124.802		4/26/2006 1:39:24 PM	123.604
	4/26/2006 12:11:41 PM	124.787		4/26/2006 1:45:00 PM	123.574
	4/26/2006 12:12:05 PM	124.772		4/26/2006 1:51:00 PM	123.537
	4/26/2006 12:12:30 PM	124.756		4/26/2006 1:57:00 PM	123.497
	4/26/2006 12:12:56 PM	124.747		4/26/2006 2:04:00 PM	123.459
	4/26/2006 12:13:25 PM	124.728		4/26/2006 2:11:00 PM	123.418
	4/26/2006 12:13:55 PM	124.71		4/26/2006 2:18:00 PM	123.38
	4/26/2006 12:14:26 PM	124.69		4/26/2006 2:26:00 PM	123.329
	4/26/2006 12:15:00 PM	124.673		4/26/2006 2:35:00 PM	123.287
	4/26/2006 12:15:36 PM	124.658		4/26/2006 2:43:00 PM	123.248
	4/26/2006 12:16:12 PM	124.635		4/26/2006 2:53:00 PM	123.195
	4/26/2006 12:16:54 PM	124.616		4/26/2006 3:03:00 PM	123.149

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
3-90			**3-90**		
TROLL			TROLL		
	4/26/2006 3:13:00 PM	123.101		4/28/2006 9:15:00 AM	118.672
	4/26/2006 3:24:00 PM	123.051		4/28/2006 11:15:21 AM	118.548
	4/26/2006 3:36:00 PM	122.994		4/28/2006 1:15:21 PM	118.424
	4/26/2006 3:49:00 PM	122.95		4/28/2006 3:15:21 PM	118.304
	4/26/2006 4:02:00 PM	122.895		4/28/2006 5:15:21 PM	118.199
	4/26/2006 4:16:00 PM	122.837		4/28/2006 7:15:21 PM	118.037
	4/26/2006 4:31:00 PM	122.777		4/28/2006 9:15:21 PM	117.911
	4/26/2006 4:47:00 PM	122.725		4/28/2006 11:15:21 PM	117.796
	4/26/2006 5:03:00 PM	122.663		4/29/2006 1:15:21 AM	117.681
	4/26/2006 5:21:00 PM	122.607		4/29/2006 3:15:21 AM	117.569
	4/26/2006 5:40:00 PM	122.543		4/29/2006 5:15:21 AM	117.458
	4/26/2006 6:00:00 PM	122.484		4/29/2006 7:15:21 AM	117.352
	4/26/2006 6:21:00 PM	122.419		4/29/2006 9:15:21 AM	117.252
	4/26/2006 6:43:00 PM	122.357		4/29/2006 11:15:21 AM	117.145
	4/26/2006 7:07:00 PM	122.281		4/29/2006 1:15:21 PM	117.046
	4/26/2006 7:32:00 PM	122.216		4/29/2006 3:15:21 PM	116.947
	4/26/2006 7:58:00 PM	122.143		4/29/2006 5:15:21 PM	116.85
	4/26/2006 8:26:00 PM	122.072		4/29/2006 7:15:21 PM	116.756
	4/26/2006 8:56:00 PM	121.993		4/29/2006 9:15:21 PM	116.664
	4/26/2006 9:27:00 PM	121.913		4/29/2006 11:15:21 PM	116.574
	4/26/2006 10:01:00 PM	121.827		4/30/2006 1:15:21 AM	116.477
	4/26/2006 10:36:00 PM	121.75		4/30/2006 3:15:21 AM	116.392
	4/26/2006 11:13:00 PM	121.669		4/30/2006 5:15:21 AM	116.302
	4/26/2006 11:53:00 PM	121.575		4/30/2006 7:15:21 AM	116.216
	4/27/2006 12:35:00 AM	121.49		4/30/2006 9:15:21 AM	116.132
	4/27/2006 1:19:00 AM	121.4		4/30/2006 11:15:21 AM	116.045
	4/27/2006 2:06:00 AM	121.303		4/30/2006 1:15:21 PM	115.972
	4/27/2006 2:56:00 AM	121.206		4/30/2006 3:15:21 PM	115.901
	4/27/2006 3:49:00 AM	121.107		4/30/2006 5:15:21 PM	115.841
	4/27/2006 4:45:00 AM	121.006		4/30/2006 7:15:21 PM	115.777
	4/27/2006 5:45:00 AM	120.9		4/30/2006 9:15:21 PM	115.71
	4/27/2006 6:45:00 AM	120.796		4/30/2006 11:15:21 PM	115.637
	4/27/2006 7:55:00 AM	120.681		5/1/2006 1:15:21 AM	115.573
	4/27/2006 9:05:00 AM	120.561		5/1/2006 3:15:21 AM	115.503
	4/27/2006 10:15:00 AM	120.459		5/1/2006 5:15:21 AM	115.437
	4/27/2006 11:35:00 AM	120.339		5/1/2006 7:15:21 AM	115.371
	4/27/2006 1:05:00 PM	120.265		5/1/2006 9:15:21 AM	115.299
	4/27/2006 2:25:00 PM	120.124		5/1/2006 11:15:21 AM	115.232
	4/27/2006 4:05:00 PM	119.97		5/1/2006 1:15:21 PM	115.167
	4/27/2006 5:45:00 PM	119.831		5/1/2006 3:15:21 PM	115.54
	4/27/2006 7:25:00 PM	119.691		5/1/2006 5:15:21 PM	115.569
	4/27/2006 9:15:00 PM	119.539		5/1/2006 7:15:21 PM	115.501
	4/27/2006 11:15:00 PM	119.381		5/1/2006 9:15:21 PM	115.477
	4/28/2006 1:15:00 AM	119.229		5/1/2006 11:15:21 PM	115.455
	4/28/2006 3:15:00 AM	119.086		5/2/2006 1:15:21 AM	115.432
	4/28/2006 5:15:00 AM	118.945		5/2/2006 3:15:21 AM	115.408
	4/28/2006 7:15:00 AM	118.807		5/2/2006 5:15:21 AM	115.383

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
3-90			**3-90**		
TROLL			TROLL		
	5/2/2006 7:15:21 AM	115.353		5/6/2006 5:15:21 AM	114.7
	5/2/2006 9:15:21 AM	115.324		5/6/2006 7:15:21 AM	114.672
	5/2/2006 11:15:21 AM	115.292		5/6/2006 9:15:21 AM	114.647
	5/2/2006 1:15:21 PM	115.262		5/6/2006 11:15:21 AM	114.621
	5/2/2006 3:15:21 PM	115.225		5/6/2006 1:15:21 PM	114.591
	5/2/2006 5:15:21 PM	115.196		5/6/2006 3:15:21 PM	114.566
	5/2/2006 7:15:21 PM	115.587		5/6/2006 5:15:21 PM	114.541
	5/2/2006 9:15:21 PM	115.637		5/6/2006 7:15:21 PM	114.512
	5/2/2006 11:15:21 PM	115.632		5/6/2006 9:15:21 PM	114.488
	5/3/2006 1:15:21 AM	115.623		5/6/2006 11:15:21 PM	114.457
	5/3/2006 3:15:21 AM	115.605		5/7/2006 1:15:21 AM	114.431
	5/3/2006 5:15:21 AM	115.59		5/7/2006 3:15:21 AM	114.401
	5/3/2006 7:15:21 AM	115.569		5/7/2006 5:15:21 AM	114.374
	5/3/2006 9:15:21 AM	115.553		5/7/2006 7:15:21 AM	114.349
	5/3/2006 11:15:21 AM	115.536		5/7/2006 9:15:21 AM	114.324
	5/3/2006 1:15:21 PM	115.516		5/7/2006 11:15:21 AM	114.295
	5/3/2006 3:15:21 PM	115.497		5/7/2006 1:15:21 PM	114.272
	5/3/2006 5:15:21 PM	115.476		5/7/2006 3:15:21 PM	114.247
	5/3/2006 7:15:21 PM	115.459		5/7/2006 5:15:21 PM	114.218
	5/3/2006 9:15:21 PM	115.435		5/7/2006 7:15:21 PM	114.188
	5/3/2006 11:15:21 PM	115.409		5/7/2006 9:15:21 PM	114.173
	5/4/2006 1:15:21 AM	115.388		5/7/2006 11:15:21 PM	114.148
	5/4/2006 3:15:21 AM	115.366		5/8/2006 1:15:21 AM	114.129
	5/4/2006 5:15:21 AM	115.341		5/8/2006 3:15:21 AM	114.103
	5/4/2006 7:15:21 AM	115.315		5/8/2006 5:15:21 AM	114.078
	5/4/2006 9:15:21 AM	115.291		5/8/2006 7:15:21 AM	114.05
	5/4/2006 11:15:21 AM	115.264		5/8/2006 9:15:21 AM	114.023
	5/4/2006 1:15:21 PM	115.239		5/8/2006 11:02:06 AM	114.004
	5/4/2006 3:15:21 PM	115.219		5/8/2006 11:02:06 AM	114.001
	5/4/2006 5:15:21 PM	115.185		5/8/2006 11:02:06 AM	113.997
	5/4/2006 7:15:21 PM	115.163		5/8/2006 11:02:07 AM	113.997
	5/4/2006 9:15:21 PM	115.138		5/8/2006 11:02:07 AM	113.996
	5/4/2006 11:15:21 PM	115.111		5/8/2006 11:02:07 AM	113.998
	5/5/2006 1:15:21 AM	115.081		5/8/2006 11:02:07 AM	113.995
	5/5/2006 3:15:21 AM	115.053		5/8/2006 11:02:08 AM	113.996
	5/5/2006 5:15:21 AM	115.027		5/8/2006 11:02:08 AM	113.999
	5/5/2006 7:15:21 AM	115.002		5/8/2006 11:02:08 AM	113.998
	5/5/2006 9:15:21 AM	114.972		5/8/2006 11:02:08 AM	113.999
	5/5/2006 11:15:21 AM	114.951		5/8/2006 11:02:09 AM	113.992
	5/5/2006 1:15:21 PM	114.925		5/8/2006 11:02:09 AM	113.998
	5/5/2006 3:15:21 PM	114.896		5/8/2006 11:02:09 AM	113.996
	5/5/2006 5:15:21 PM	114.869		5/8/2006 11:02:09 AM	113.996
	5/5/2006 7:15:21 PM	114.837		5/8/2006 11:02:10 AM	113.996
	5/5/2006 9:15:21 PM	114.814		5/8/2006 11:02:10 AM	113.997
	5/5/2006 11:15:21 PM	114.784		5/8/2006 11:02:10 AM	113.999
	5/6/2006 1:15:21 AM	114.756		5/8/2006 11:02:10 AM	113.996
	5/6/2006 3:15:21 AM	114.726		5/8/2006 11:02:11 AM	113.996

Well	Date and Time	GWE (ft)
3-90		
TROLL		
	5/8/2006 11:02:11 AM	113.998
	5/8/2006 11:02:11 AM	113.998
	5/8/2006 11:02:11 AM	113.997
	5/8/2006 11:02:12 AM	113.997
	5/8/2006 11:02:12 AM	113.996
	5/8/2006 11:02:12 AM	113.998
	5/8/2006 11:02:13 AM	113.997
	5/8/2006 11:02:13 AM	113.996
	5/8/2006 11:02:13 AM	113.996
	5/8/2006 11:02:14 AM	113.995
	5/8/2006 11:02:14 AM	113.995
	5/8/2006 11:02:15 AM	113.996
	5/8/2006 11:02:15 AM	113.999
	5/8/2006 11:02:16 AM	113.996
	5/8/2006 11:02:17 AM	113.997
	5/8/2006 11:02:17 AM	113.997
	5/8/2006 11:02:18 AM	113.999
	5/8/2006 11:02:19 AM	113.999
	5/8/2006 11:02:19 AM	113.996
	5/8/2006 11:02:19 AM	113.997
	5/8/2006 11:02:20 AM	114.001
	5/8/2006 11:02:20 AM	113.995
	5/8/2006 11:02:20 AM	113.996
	5/8/2006 11:02:20 AM	114.003
	5/8/2006 11:02:21 AM	113.999
	5/8/2006 11:02:21 AM	113.999
	5/8/2006 11:02:21 AM	113.998
	5/8/2006 11:02:21 AM	114
	5/8/2006 11:02:22 AM	113.998
	5/8/2006 11:02:22 AM	114
	5/8/2006 11:02:22 AM	113.997
	5/8/2006 11:02:22 AM	114.002
	5/8/2006 11:02:23 AM	114.001
	5/8/2006 11:02:23 AM	114.004
	5/8/2006 11:02:23 AM	113.997
	5/8/2006 11:02:23 AM	113.994
	5/8/2006 11:02:24 AM	114.003
	5/8/2006 11:02:24 AM	113.997
	5/8/2006 11:02:24 AM	113.998
	5/8/2006 11:02:24 AM	114.002
	5/8/2006 11:02:25 AM	113.994
	5/8/2006 11:02:25 AM	114.001
	5/8/2006 11:02:25 AM	113.993
	5/8/2006 11:02:26 AM	113.996
	5/8/2006 11:02:26 AM	113.996
	5/8/2006 11:02:26 AM	113.996
	5/8/2006 11:02:27 AM	113.994

Well	Date and Time	GWE (ft)
3-90		
TROLL		
	5/8/2006 11:02:27 AM	113.994
	5/8/2006 11:02:28 AM	113.997
	5/8/2006 11:02:28 AM	113.997
	5/8/2006 11:02:29 AM	113.999
	5/8/2006 11:02:29 AM	113.995
	5/8/2006 11:02:30 AM	113.996
	5/8/2006 11:02:30 AM	113.997
	5/8/2006 11:02:31 AM	114.001
	5/8/2006 11:02:32 AM	113.998
	5/8/2006 11:02:33 AM	113.998
	5/8/2006 11:02:33 AM	113.999
	5/8/2006 11:02:34 AM	113.997
	5/8/2006 11:02:35 AM	113.998
	5/8/2006 11:02:36 AM	113.995
	5/8/2006 11:02:37 AM	113.997
	5/8/2006 11:02:38 AM	113.996
	5/8/2006 11:02:39 AM	113.998
	5/8/2006 11:02:40 AM	113.999
	5/8/2006 11:02:42 AM	113.997
	5/8/2006 11:02:43 AM	113.993
	5/8/2006 11:02:44 AM	114
TROLL-rec		
	5/8/2006 1:00:00 PM	113.978
	5/8/2006 1:00:00 PM	113.974
	5/8/2006 1:00:01 PM	113.975
	5/8/2006 1:00:01 PM	113.976
	5/8/2006 1:00:01 PM	113.977
	5/8/2006 1:00:01 PM	113.975
	5/8/2006 1:00:02 PM	113.975
	5/8/2006 1:00:02 PM	113.977
	5/8/2006 1:00:02 PM	113.973
	5/8/2006 1:00:02 PM	113.972
	5/8/2006 1:00:03 PM	113.976
	5/8/2006 1:00:03 PM	113.976
	5/8/2006 1:00:03 PM	113.971
	5/8/2006 1:00:03 PM	113.974
	5/8/2006 1:00:04 PM	113.975
	5/8/2006 1:00:04 PM	113.978
	5/8/2006 1:00:04 PM	113.973
	5/8/2006 1:00:04 PM	113.975
	5/8/2006 1:00:05 PM	113.975
	5/8/2006 1:00:05 PM	113.973
	5/8/2006 1:00:05 PM	113.976
	5/8/2006 1:00:05 PM	113.974
	5/8/2006 1:00:06 PM	113.977
	5/8/2006 1:00:06 PM	113.973
	5/8/2006 1:00:06 PM	113.976

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
3-90			**3-90**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:06 PM	113.974		5/8/2006 1:01:35 PM	113.975
	5/8/2006 1:00:07 PM	113.977		5/8/2006 1:01:41 PM	113.973
	5/8/2006 1:00:07 PM	113.973		5/8/2006 1:01:47 PM	113.973
	5/8/2006 1:00:08 PM	113.975		5/8/2006 1:01:53 PM	113.975
	5/8/2006 1:00:08 PM	113.975		5/8/2006 1:01:59 PM	113.973
	5/8/2006 1:00:08 PM	113.974		5/8/2006 1:02:07 PM	113.971
	5/8/2006 1:00:09 PM	113.974		5/8/2006 1:02:14 PM	113.972
	5/8/2006 1:00:09 PM	113.974		5/8/2006 1:02:22 PM	113.973
	5/8/2006 1:00:10 PM	113.974		5/8/2006 1:02:31 PM	113.97
	5/8/2006 1:00:11 PM	113.977		5/8/2006 1:02:40 PM	113.973
	5/8/2006 1:00:11 PM	113.976		5/8/2006 1:02:49 PM	113.975
	5/8/2006 1:00:12 PM	113.973		5/8/2006 1:02:59 PM	113.976
	5/8/2006 1:00:13 PM	113.975		5/8/2006 1:03:10 PM	113.974
	5/8/2006 1:00:13 PM	113.975		5/8/2006 1:03:21 PM	113.974
	5/8/2006 1:00:14 PM	113.974		5/8/2006 1:03:33 PM	113.973
	5/8/2006 1:00:15 PM	113.973		5/8/2006 1:03:46 PM	113.976
	5/8/2006 1:00:16 PM	113.973		5/8/2006 1:03:59 PM	113.974
	5/8/2006 1:00:17 PM	113.974		5/8/2006 1:04:13 PM	113.971
	5/8/2006 1:00:18 PM	113.976		5/8/2006 1:04:28 PM	113.974
	5/8/2006 1:00:19 PM	113.974		5/8/2006 1:04:44 PM	113.97
	5/8/2006 1:00:20 PM	113.975		5/8/2006 1:05:01 PM	113.973
	5/8/2006 1:00:21 PM	113.975		5/8/2006 1:05:19 PM	113.972
	5/8/2006 1:00:23 PM	113.976		5/8/2006 1:05:37 PM	113.974
	5/8/2006 1:00:24 PM	113.978		5/8/2006 1:05:58 PM	113.973
	5/8/2006 1:00:25 PM	113.976		5/8/2006 1:06:19 PM	113.973
	5/8/2006 1:00:27 PM	113.976		5/8/2006 1:06:41 PM	113.974
	5/8/2006 1:00:28 PM	113.974		5/8/2006 1:07:05 PM	113.974
	5/8/2006 1:00:30 PM	113.976		5/8/2006 1:07:30 PM	113.972
	5/8/2006 1:00:32 PM	113.972		5/8/2006 1:07:56 PM	113.975
	5/8/2006 1:00:34 PM	113.973		5/8/2006 1:08:25 PM	113.973
	5/8/2006 1:00:36 PM	113.975		5/8/2006 1:08:55 PM	113.973
	5/8/2006 1:00:38 PM	113.975		5/8/2006 1:09:26 PM	113.972
	5/8/2006 1:00:40 PM	113.974		5/8/2006 1:10:00 PM	113.976
	5/8/2006 1:00:42 PM	113.974		5/8/2006 1:10:36 PM	113.975
	5/8/2006 1:00:45 PM	113.977		5/8/2006 1:11:12 PM	113.974
	5/8/2006 1:00:48 PM	113.974		5/8/2006 1:11:54 PM	113.974
	5/8/2006 1:00:50 PM	113.974		5/8/2006 1:12:36 PM	113.974
	5/8/2006 1:00:53 PM	113.977		5/8/2006 1:13:18 PM	113.974
	5/8/2006 1:00:57 PM	113.978		5/8/2006 1:14:06 PM	113.973
	5/8/2006 1:01:00 PM	113.976		5/8/2006 1:15:00 PM	113.973
	5/8/2006 1:01:04 PM	113.974		5/8/2006 1:15:48 PM	113.971
	5/8/2006 1:01:07 PM	113.975		5/8/2006 1:16:48 PM	113.971
	5/8/2006 1:01:11 PM	113.975		5/8/2006 1:17:48 PM	113.969
	5/8/2006 1:01:16 PM	113.975		5/8/2006 1:18:48 PM	113.971
	5/8/2006 1:01:20 PM	113.975		5/8/2006 1:19:54 PM	113.971
	5/8/2006 1:01:25 PM	113.979		5/8/2006 1:21:06 PM	113.972
	5/8/2006 1:01:30 PM	113.977		5/8/2006 1:22:24 PM	114.531

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
3-90			**3-90**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:23:42 PM	115.426		5/8/2006 6:55:00 PM	117.488
	5/8/2006 1:25:06 PM	115.515		5/8/2006 7:16:00 PM	117.554
	5/8/2006 1:26:36 PM	115.586		5/8/2006 7:38:00 PM	117.622
	5/8/2006 1:28:12 PM	115.639		5/8/2006 8:02:00 PM	117.689
	5/8/2006 1:29:48 PM	115.684		5/8/2006 8:27:00 PM	117.757
	5/8/2006 1:31:36 PM	115.73		5/8/2006 8:53:00 PM	117.823
	5/8/2006 1:33:30 PM	115.769		5/8/2006 9:21:00 PM	117.896
	5/8/2006 1:35:30 PM	115.811		5/8/2006 9:51:00 PM	117.969
	5/8/2006 1:37:36 PM	115.843		5/8/2006 10:22:00 PM	118.045
	5/8/2006 1:39:48 PM	115.876		5/8/2006 10:56:00 PM	118.118
	5/8/2006 1:42:12 PM	115.913		5/8/2006 11:31:00 PM	118.196
	5/8/2006 1:44:42 PM	115.946		5/9/2006 12:08:00 AM	118.273
	5/8/2006 1:47:18 PM	115.977		5/9/2006 12:48:00 AM	118.351
	5/8/2006 1:50:06 PM	116.008		5/9/2006 1:30:00 AM	118.436
	5/8/2006 1:53:06 PM	116.043		5/9/2006 2:14:00 AM	118.514
	5/8/2006 1:56:12 PM	116.077		5/9/2006 3:01:00 AM	118.593
	5/8/2006 1:59:36 PM	116.107		5/9/2006 3:51:00 AM	118.681
	5/8/2006 2:03:06 PM	116.139		5/9/2006 4:44:00 AM	118.764
	5/8/2006 2:06:48 PM	116.169		5/9/2006 5:40:00 AM	118.847
	5/8/2006 2:10:48 PM	116.204		5/9/2006 6:40:00 AM	118.936
	5/8/2006 2:15:00 PM	116.237		5/9/2006 7:40:00 AM	119.019
	5/8/2006 2:19:24 PM	116.269		5/9/2006 8:50:00 AM	119.115
	5/8/2006 2:24:06 PM	116.303		5/9/2006 10:00:00 AM	119.206
	5/8/2006 2:29:06 PM	116.338		5/9/2006 11:10:00 AM	119.294
	5/8/2006 2:34:24 PM	116.373		5/9/2006 12:30:00 PM	119.386
	5/8/2006 2:40:00 PM	116.411		5/9/2006 2:00:00 PM	119.489
	5/8/2006 2:46:00 PM	116.446		5/9/2006 3:20:00 PM	119.575
	5/8/2006 2:52:00 PM	116.483		5/9/2006 5:00:00 PM	119.682
	5/8/2006 2:59:00 PM	116.523		5/9/2006 6:40:00 PM	119.772
	5/8/2006 3:06:00 PM	116.564		5/9/2006 8:20:00 PM	119.861
	5/8/2006 3:13:00 PM	116.601		5/9/2006 10:10:00 PM	119.964
	5/8/2006 3:21:00 PM	116.645		5/10/2006 12:10:00 AM	120.077
	5/8/2006 3:30:00 PM	116.688		5/10/2006 2:10:00 AM	120.18
	5/8/2006 3:38:00 PM	116.73		5/10/2006 4:10:00 AM	120.277
	5/8/2006 3:48:00 PM	116.775		5/10/2006 6:10:00 AM	120.386
	5/8/2006 3:58:00 PM	116.822		5/10/2006 8:10:00 AM	120.453
	5/8/2006 4:08:00 PM	116.869		5/10/2006 10:10:00 AM	120.541
	5/8/2006 4:19:00 PM	116.917		5/10/2006 12:10:00 PM	120.626
	5/8/2006 4:31:00 PM	116.97		5/10/2006 2:10:00 PM	120.706
	5/8/2006 4:44:00 PM	117.025		5/10/2006 4:10:00 PM	120.785
	5/8/2006 4:57:00 PM	117.076		5/10/2006 6:10:00 PM	120.864
	5/8/2006 5:11:00 PM	117.132		5/10/2006 8:10:00 PM	120.936
	5/8/2006 5:26:00 PM	117.185		5/10/2006 10:10:00 PM	121.007
	5/8/2006 5:42:00 PM	117.244		5/11/2006 12:10:00 AM	121.078
	5/8/2006 5:58:00 PM	117.303		5/11/2006 2:10:00 AM	121.148
	5/8/2006 6:16:00 PM	117.361		5/11/2006 4:10:00 AM	121.212
	5/8/2006 6:35:00 PM	117.429		5/11/2006 6:10:00 AM	121.275

Well	Date and Time	GWE (ft)
3-90		
TROLL-rec		
	5/11/2006 8:10:00 AM	121.337
	5/11/2006 10:10:00 AM	121.401
	5/11/2006 12:10:00 PM	121.46
	5/11/2006 2:10:00 PM	121.522
	5/11/2006 4:10:00 PM	121.576
	5/11/2006 6:10:00 PM	121.634
	5/11/2006 8:10:00 PM	121.689
	5/11/2006 10:10:00 PM	121.745
	5/12/2006 12:10:00 AM	121.797
	5/12/2006 2:10:00 AM	121.855
	5/12/2006 4:10:00 AM	121.905
	5/12/2006 6:10:00 AM	121.949
	5/12/2006 8:10:00 AM	121.998
	5/12/2006 10:10:00 AM	122.043
	5/12/2006 12:10:00 PM	122.093
	5/12/2006 2:10:00 PM	122.14
	5/12/2006 4:10:00 PM	122.182
	5/12/2006 6:10:00 PM	122.226
	5/12/2006 8:10:00 PM	122.265
	5/12/2006 10:10:00 PM	122.307
	5/13/2006 12:10:00 AM	122.357
	5/13/2006 2:10:00 AM	122.398
	5/13/2006 4:10:00 AM	122.44
	5/13/2006 6:10:00 AM	122.476
	5/13/2006 8:10:00 AM	122.518
	5/13/2006 10:10:00 AM	122.55
	5/13/2006 12:10:00 PM	122.587
	5/13/2006 2:10:00 PM	122.626
	5/13/2006 4:10:00 PM	122.668
	5/13/2006 6:10:00 PM	122.705
	5/13/2006 8:10:00 PM	122.757
	5/13/2006 10:10:00 PM	122.803
	5/14/2006 12:10:00 AM	122.85
	5/14/2006 2:10:00 AM	122.896
	5/14/2006 4:10:00 AM	122.946
	5/14/2006 6:10:00 AM	122.983
	5/14/2006 8:10:00 AM	123.025
	5/14/2006 10:10:00 AM	123.061
	5/14/2006 12:10:00 PM	123.112
	5/14/2006 2:10:00 PM	123.158
	5/14/2006 4:10:00 PM	123.21
	5/14/2006 6:10:00 PM	123.254
	5/14/2006 8:10:00 PM	123.308
	5/14/2006 10:10:00 PM	123.352
	5/15/2006 12:10:00 AM	123.405
	5/15/2006 2:10:00 AM	123.445
	5/15/2006 4:10:00 AM	123.495
3-90		
TROLL-rec		
	5/15/2006 6:10:00 AM	123.538
	5/15/2006 8:10:00 AM	123.577
	5/15/2006 10:10:00 AM	123.616
	5/15/2006 12:10:00 PM	123.658
	5/15/2006 2:10:00 PM	123.703
	5/15/2006 4:10:00 PM	123.741
	5/15/2006 6:10:00 PM	123.782
	5/15/2006 8:10:00 PM	123.817
	5/15/2006 10:10:00 PM	123.852
	5/16/2006 12:10:00 AM	123.886
	5/16/2006 2:10:00 AM	123.931
	5/16/2006 4:10:00 AM	123.963
	5/16/2006 6:10:00 AM	124.007
	5/16/2006 8:10:00 AM	124.044
	5/16/2006 10:10:00 AM	124.074
	5/16/2006 12:10:00 PM	124.11
	5/16/2006 2:10:00 PM	124.147
	5/16/2006 4:10:00 PM	124.181
	5/16/2006 6:10:00 PM	124.208
	5/16/2006 8:10:00 PM	124.233
	5/16/2006 10:10:00 PM	124.261
	5/17/2006 12:10:00 AM	124.294
	5/17/2006 2:10:00 AM	124.322
	5/17/2006 4:10:00 AM	124.353
	5/17/2006 6:10:00 AM	124.383
	5/17/2006 8:10:00 AM	124.412
	5/17/2006 10:10:00 AM	124.443
5-90		
Manual		
	4/14/2006 12:47:00 PM	128.31
	4/21/2006 11:45:00 AM	128.45
	4/25/2006 11:20:00 AM	128.07
	4/26/2006 9:45:00 AM	128.1
	4/27/2006 5:49:00 PM	123.18
	4/28/2006 11:14:00 AM	121.79
	4/28/2006 2:20:00 PM	121.7
	4/30/2006 9:34:00 AM	119.5
	4/30/2006 4:38:00 PM	119.31
	5/1/2006 12:48:00 PM	118.66
	5/3/2006 8:38:00 AM	118.27
	5/4/2006 3:00:00 PM	117.92
	5/5/2006 9:56:00 AM	117.74
	5/5/2006 3:25:00 PM	117.58
	5/9/2006 10:38:00 AM	119.67
TROLL		
	4/26/2006 12:05:00 PM	128.1

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
5-90			**5-90**		
TROLL			TROLL		
	4/26/2006 12:05:00 PM	128.1		4/26/2006 12:05:24 PM	128.09
	4/26/2006 12:05:00 PM	128.096		4/26/2006 12:05:25 PM	128.089
	4/26/2006 12:05:01 PM	128.096		4/26/2006 12:05:27 PM	128.086
	4/26/2006 12:05:01 PM	128.095		4/26/2006 12:05:28 PM	128.082
	4/26/2006 12:05:01 PM	128.101		4/26/2006 12:05:30 PM	128.085
	4/26/2006 12:05:01 PM	128.1		4/26/2006 12:05:32 PM	128.072
	4/26/2006 12:05:02 PM	128.108		4/26/2006 12:05:34 PM	128.074
	4/26/2006 12:05:02 PM	128.099		4/26/2006 12:05:36 PM	128.056
	4/26/2006 12:05:02 PM	128.098		4/26/2006 12:05:38 PM	128.047
	4/26/2006 12:05:02 PM	128.104		4/26/2006 12:05:40 PM	128.036
	4/26/2006 12:05:03 PM	128.097		4/26/2006 12:05:42 PM	128.022
	4/26/2006 12:05:03 PM	128.094		4/26/2006 12:05:45 PM	128.007
	4/26/2006 12:05:03 PM	128.095		4/26/2006 12:05:48 PM	127.991
	4/26/2006 12:05:03 PM	128.095		4/26/2006 12:05:50 PM	127.975
	4/26/2006 12:05:04 PM	128.099		4/26/2006 12:05:53 PM	127.954
	4/26/2006 12:05:04 PM	128.092		4/26/2006 12:05:57 PM	127.936
	4/26/2006 12:05:04 PM	128.102		4/26/2006 12:06:00 PM	127.913
	4/26/2006 12:05:04 PM	128.093		4/26/2006 12:06:04 PM	127.894
	4/26/2006 12:05:05 PM	128.093		4/26/2006 12:06:07 PM	127.874
	4/26/2006 12:05:05 PM	128.098		4/26/2006 12:06:11 PM	127.855
	4/26/2006 12:05:05 PM	128.097		4/26/2006 12:06:16 PM	127.835
	4/26/2006 12:05:05 PM	128.091		4/26/2006 12:06:20 PM	127.819
	4/26/2006 12:05:06 PM	128.091		4/26/2006 12:06:25 PM	127.799
	4/26/2006 12:05:06 PM	128.091		4/26/2006 12:06:30 PM	127.782
	4/26/2006 12:05:06 PM	128.099		4/26/2006 12:06:35 PM	127.767
	4/26/2006 12:05:07 PM	128.098		4/26/2006 12:06:41 PM	127.754
	4/26/2006 12:05:07 PM	128.1		4/26/2006 12:06:47 PM	127.738
	4/26/2006 12:05:08 PM	128.102		4/26/2006 12:06:53 PM	127.721
	4/26/2006 12:05:08 PM	128.1		4/26/2006 12:06:59 PM	127.718
	4/26/2006 12:05:08 PM	128.1		4/26/2006 12:07:07 PM	127.698
	4/26/2006 12:05:09 PM	128.102		4/26/2006 12:07:14 PM	127.696
	4/26/2006 12:05:09 PM	128.095		4/26/2006 12:07:22 PM	127.688
	4/26/2006 12:05:10 PM	128.096		4/26/2006 12:07:31 PM	127.68
	4/26/2006 12:05:11 PM	128.095		4/26/2006 12:07:40 PM	127.673
	4/26/2006 12:05:11 PM	128.095		4/26/2006 12:07:49 PM	127.664
	4/26/2006 12:05:12 PM	128.096		4/26/2006 12:07:59 PM	127.654
	4/26/2006 12:05:13 PM	128.097		4/26/2006 12:08:10 PM	127.649
	4/26/2006 12:05:13 PM	128.098		4/26/2006 12:08:21 PM	127.64
	4/26/2006 12:05:14 PM	128.099		4/26/2006 12:08:33 PM	127.634
	4/26/2006 12:05:15 PM	128.098		4/26/2006 12:08:46 PM	127.626
	4/26/2006 12:05:16 PM	128.099		4/26/2006 12:08:59 PM	127.611
	4/26/2006 12:05:17 PM	128.1		4/26/2006 12:09:13 PM	127.611
	4/26/2006 12:05:18 PM	128.099		4/26/2006 12:09:28 PM	127.604
	4/26/2006 12:05:19 PM	128.101		4/26/2006 12:09:44 PM	127.597
	4/26/2006 12:05:20 PM	128.101		4/26/2006 12:10:01 PM	127.58
	4/26/2006 12:05:21 PM	128.093		4/26/2006 12:10:19 PM	127.579
	4/26/2006 12:05:23 PM	128.1		4/26/2006 12:10:37 PM	127.572

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
5-90			**5-90**		
TROLL			TROLL		
	4/26/2006 12:10:58 PM	127.564		4/26/2006 1:34:06 PM	126.795
	4/26/2006 12:11:19 PM	127.556		4/26/2006 1:39:24 PM	126.759
	4/26/2006 12:11:41 PM	127.549		4/26/2006 1:45:00 PM	126.731
	4/26/2006 12:12:05 PM	127.541		4/26/2006 1:51:00 PM	126.701
	4/26/2006 12:12:30 PM	127.53		4/26/2006 1:57:00 PM	126.67
	4/26/2006 12:12:56 PM	127.52		4/26/2006 2:04:00 PM	126.637
	4/26/2006 12:13:25 PM	127.51		4/26/2006 2:11:00 PM	126.604
	4/26/2006 12:13:55 PM	127.502		4/26/2006 2:18:00 PM	126.571
	4/26/2006 12:14:26 PM	127.491		4/26/2006 2:26:00 PM	126.535
	4/26/2006 12:15:00 PM	127.481		4/26/2006 2:35:00 PM	126.495
	4/26/2006 12:15:36 PM	127.471		4/26/2006 2:43:00 PM	126.459
	4/26/2006 12:16:12 PM	127.462		4/26/2006 2:53:00 PM	126.417
	4/26/2006 12:16:54 PM	127.45		4/26/2006 3:03:00 PM	126.379
	4/26/2006 12:17:36 PM	127.439		4/26/2006 3:13:00 PM	126.336
	4/26/2006 12:18:18 PM	127.427		4/26/2006 3:24:00 PM	126.295
	4/26/2006 12:19:06 PM	127.414		4/26/2006 3:36:00 PM	126.25
	4/26/2006 12:20:00 PM	127.401		4/26/2006 3:49:00 PM	126.202
	4/26/2006 12:20:48 PM	127.391		4/26/2006 4:02:00 PM	126.156
	4/26/2006 12:21:48 PM	127.373		4/26/2006 4:16:00 PM	126.103
	4/26/2006 12:22:48 PM	127.361		4/26/2006 4:31:00 PM	126.052
	4/26/2006 12:23:48 PM	127.348		4/26/2006 4:47:00 PM	125.999
	4/26/2006 12:24:54 PM	127.334		4/26/2006 5:03:00 PM	125.948
	4/26/2006 12:26:06 PM	127.318		4/26/2006 5:21:00 PM	125.889
	4/26/2006 12:27:24 PM	127.301		4/26/2006 5:40:00 PM	125.83
	4/26/2006 12:28:42 PM	127.285		4/26/2006 6:00:00 PM	125.772
	4/26/2006 12:30:06 PM	127.269		4/26/2006 6:21:00 PM	125.711
	4/26/2006 12:31:36 PM	127.254		4/26/2006 6:43:00 PM	125.649
	4/26/2006 12:33:12 PM	127.234		4/26/2006 7:07:00 PM	125.579
	4/26/2006 12:34:48 PM	127.218		4/26/2006 7:32:00 PM	125.511
	4/26/2006 12:36:36 PM	127.199		4/26/2006 7:58:00 PM	125.447
	4/26/2006 12:38:30 PM	127.18		4/26/2006 8:26:00 PM	125.367
	4/26/2006 12:40:30 PM	127.161		4/26/2006 8:56:00 PM	125.302
	4/26/2006 12:42:36 PM	127.139		4/26/2006 9:27:00 PM	125.228
	4/26/2006 12:44:48 PM	127.119		4/26/2006 10:01:00 PM	125.148
	4/26/2006 12:47:12 PM	127.097		4/26/2006 10:36:00 PM	125.07
	4/26/2006 12:49:42 PM	127.075		4/26/2006 11:13:00 PM	124.989
	4/26/2006 12:52:18 PM	127.052		4/26/2006 11:53:00 PM	124.901
	4/26/2006 12:55:06 PM	127.029		4/27/2006 12:35:00 AM	124.813
	4/26/2006 12:58:06 PM	127.004		4/27/2006 1:19:00 AM	124.725
	4/26/2006 1:01:12 PM	126.979		4/27/2006 2:06:00 AM	124.634
	4/26/2006 1:04:36 PM	126.958		4/27/2006 2:56:00 AM	124.538
	4/26/2006 1:08:06 PM	126.936		4/27/2006 3:49:00 AM	124.44
	4/26/2006 1:11:48 PM	126.911		4/27/2006 4:45:00 AM	124.334
	4/26/2006 1:15:48 PM	126.89		4/27/2006 5:45:00 AM	124.237
	4/26/2006 1:20:00 PM	126.866		4/27/2006 6:45:00 AM	124.134
	4/26/2006 1:24:24 PM	126.842		4/27/2006 7:55:00 AM	124.019
	4/26/2006 1:29:06 PM	126.816		4/27/2006 9:05:00 AM	123.909

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
5-90			**5-90**		
TROLL			TROLL		
	4/27/2006 10:15:00 AM	123.803		5/1/2006 5:15:25 AM	118.899
	4/27/2006 11:35:00 AM	123.68		5/1/2006 7:15:25 AM	118.833
	4/27/2006 1:05:00 PM	123.576		5/1/2006 9:15:25 AM	118.774
	4/27/2006 2:25:00 PM	123.457		5/1/2006 11:15:25 AM	118.704
	4/27/2006 4:05:00 PM	123.315		5/1/2006 1:15:25 PM	118.641
	4/27/2006 5:45:00 PM	123.169		5/1/2006 3:15:25 PM	118.681
	4/27/2006 7:25:00 PM	123.023		5/1/2006 5:15:25 PM	118.68
	4/27/2006 9:15:00 PM	122.873		5/1/2006 7:15:25 PM	118.657
	4/27/2006 11:15:00 PM	122.717		5/1/2006 9:15:25 PM	118.633
	4/28/2006 1:15:00 AM	122.568		5/1/2006 11:15:25 PM	118.609
	4/28/2006 3:15:00 AM	122.424		5/2/2006 1:15:25 AM	118.586
	4/28/2006 5:15:00 AM	122.278		5/2/2006 3:15:25 AM	118.557
	4/28/2006 7:15:00 AM	122.15		5/2/2006 5:15:25 AM	118.529
	4/28/2006 9:15:00 AM	122.018		5/2/2006 7:15:25 AM	118.498
	4/28/2006 11:15:25 AM	121.886		5/2/2006 9:15:25 AM	118.459
	4/28/2006 1:15:25 PM	121.762		5/2/2006 11:15:25 AM	118.434
	4/28/2006 3:15:25 PM	121.642		5/2/2006 1:15:25 PM	118.397
	4/28/2006 5:15:25 PM	121.535		5/2/2006 3:15:25 PM	118.365
	4/28/2006 7:15:25 PM	121.4		5/2/2006 5:15:25 PM	118.331
	4/28/2006 9:15:25 PM	121.282		5/2/2006 7:15:25 PM	118.342
	4/28/2006 11:15:25 PM	121.168		5/2/2006 9:15:25 PM	118.362
	4/29/2006 1:15:25 AM	121.055		5/2/2006 11:15:25 PM	118.357
	4/29/2006 3:15:25 AM	120.954		5/3/2006 1:15:25 AM	118.345
	4/29/2006 5:15:25 AM	120.84		5/3/2006 3:15:25 AM	118.329
	4/29/2006 7:15:25 AM	120.729		5/3/2006 5:15:25 AM	118.306
	4/29/2006 9:15:25 AM	120.629		5/3/2006 7:15:25 AM	118.293
	4/29/2006 11:15:25 AM	120.533		5/3/2006 9:15:25 AM	118.268
	4/29/2006 1:15:25 PM	120.436		5/3/2006 11:15:25 AM	118.248
	4/29/2006 3:15:25 PM	120.341		5/3/2006 1:15:25 PM	118.232
	4/29/2006 5:15:25 PM	120.247		5/3/2006 3:15:25 PM	118.212
	4/29/2006 7:15:25 PM	120.15		5/3/2006 5:15:25 PM	118.191
	4/29/2006 9:15:25 PM	120.054		5/3/2006 7:15:25 PM	118.167
	4/29/2006 11:15:25 PM	119.969		5/3/2006 9:15:25 PM	118.14
	4/30/2006 1:15:25 AM	119.878		5/3/2006 11:15:25 PM	118.116
	4/30/2006 3:15:25 AM	119.783		5/4/2006 1:15:25 AM	118.094
	4/30/2006 5:15:25 AM	119.7		5/4/2006 3:15:25 AM	118.069
	4/30/2006 7:15:25 AM	119.608		5/4/2006 5:15:25 AM	118.044
	4/30/2006 9:15:25 AM	119.525		5/4/2006 7:15:25 AM	118.015
	4/30/2006 11:15:25 AM	119.451		5/4/2006 9:15:25 AM	117.991
	4/30/2006 1:15:25 PM	119.406		5/4/2006 11:15:25 AM	117.966
	4/30/2006 3:15:25 PM	119.353		5/4/2006 1:15:25 PM	117.94
	4/30/2006 5:15:25 PM	119.289		5/4/2006 3:15:25 PM	117.915
	4/30/2006 7:15:25 PM	119.226		5/4/2006 5:15:25 PM	117.887
	4/30/2006 9:15:25 PM	119.161		5/4/2006 7:15:25 PM	117.862
	4/30/2006 11:15:25 PM	119.097		5/4/2006 9:15:25 PM	117.837
	5/1/2006 1:15:25 AM	119.03		5/4/2006 11:15:25 PM	117.808
	5/1/2006 3:15:25 AM	118.967		5/5/2006 1:15:25 AM	117.78

Well	Date and Time	GWE (ft)
5-90		
TROLL		
	5/5/2006 3:15:25 AM	117.751
	5/5/2006 5:15:25 AM	117.723
	5/5/2006 7:15:25 AM	117.694
	5/5/2006 9:15:25 AM	117.669
	5/5/2006 11:15:25 AM	117.64
	5/5/2006 1:15:25 PM	117.605
	5/5/2006 3:15:25 PM	117.588
	5/5/2006 5:15:25 PM	117.553
	5/5/2006 7:15:25 PM	117.527
	5/5/2006 9:15:25 PM	117.498
	5/5/2006 11:15:25 PM	117.467
	5/6/2006 1:15:25 AM	117.436
	5/6/2006 3:15:25 AM	117.416
	5/6/2006 5:15:25 AM	117.382
	5/6/2006 7:15:25 AM	117.353
	5/6/2006 9:15:25 AM	117.326
	5/6/2006 11:15:25 AM	117.297
	5/6/2006 1:15:25 PM	117.268
	5/6/2006 3:15:25 PM	117.245
	5/6/2006 5:15:25 PM	117.21
	5/6/2006 7:15:25 PM	117.181
	5/6/2006 9:15:25 PM	117.154
	5/6/2006 11:15:25 PM	117.13
	5/7/2006 1:15:25 AM	117.094
	5/7/2006 3:15:25 AM	117.068
	5/7/2006 5:15:25 AM	117.038
	5/7/2006 7:15:25 AM	117.01
	5/7/2006 9:15:25 AM	116.981
	5/7/2006 11:15:25 AM	116.956
	5/7/2006 1:15:25 PM	116.924
	5/7/2006 3:15:25 PM	116.902
	5/7/2006 5:15:25 PM	116.872
	5/7/2006 7:15:25 PM	116.844
	5/7/2006 9:15:25 PM	116.817
	5/7/2006 11:15:25 PM	116.79
	5/8/2006 1:15:25 AM	116.762
	5/8/2006 3:15:25 AM	116.736
	5/8/2006 5:15:25 AM	116.707
	5/8/2006 7:15:25 AM	116.679
	5/8/2006 9:15:25 AM	116.651
	5/8/2006 11:15:25 AM	116.631
TROLL-rec		
	5/8/2006 1:00:00 PM	116.606
	5/8/2006 1:00:00 PM	116.605
	5/8/2006 1:00:00 PM	116.602
	5/8/2006 1:00:01 PM	116.604
	5/8/2006 1:00:01 PM	116.605

Well	Date and Time	GWE (ft)
5-90		
TROLL-rec		
	5/8/2006 1:00:01 PM	116.604
	5/8/2006 1:00:01 PM	116.599
	5/8/2006 1:00:02 PM	116.603
	5/8/2006 1:00:02 PM	116.602
	5/8/2006 1:00:02 PM	116.602
	5/8/2006 1:00:02 PM	116.601
	5/8/2006 1:00:03 PM	116.608
	5/8/2006 1:00:03 PM	116.6
	5/8/2006 1:00:03 PM	116.6
	5/8/2006 1:00:03 PM	116.6
	5/8/2006 1:00:04 PM	116.603
	5/8/2006 1:00:04 PM	116.599
	5/8/2006 1:00:04 PM	116.598
	5/8/2006 1:00:04 PM	116.597
	5/8/2006 1:00:05 PM	116.603
	5/8/2006 1:00:05 PM	116.597
	5/8/2006 1:00:05 PM	116.601
	5/8/2006 1:00:05 PM	116.601
	5/8/2006 1:00:06 PM	116.602
	5/8/2006 1:00:06 PM	116.602
	5/8/2006 1:00:06 PM	116.603
	5/8/2006 1:00:07 PM	116.604
	5/8/2006 1:00:07 PM	116.603
	5/8/2006 1:00:08 PM	116.605
	5/8/2006 1:00:08 PM	116.598
	5/8/2006 1:00:08 PM	116.6
	5/8/2006 1:00:09 PM	116.606
	5/8/2006 1:00:09 PM	116.6
	5/8/2006 1:00:10 PM	116.6
	5/8/2006 1:00:11 PM	116.602
	5/8/2006 1:00:11 PM	116.602
	5/8/2006 1:00:12 PM	116.601
	5/8/2006 1:00:13 PM	116.597
	5/8/2006 1:00:13 PM	116.603
	5/8/2006 1:00:14 PM	116.604
	5/8/2006 1:00:15 PM	116.599
	5/8/2006 1:00:16 PM	116.605
	5/8/2006 1:00:17 PM	116.605
	5/8/2006 1:00:18 PM	116.599
	5/8/2006 1:00:19 PM	116.606
	5/8/2006 1:00:20 PM	116.605
	5/8/2006 1:00:21 PM	116.607
	5/8/2006 1:00:23 PM	116.6
	5/8/2006 1:00:24 PM	116.601
	5/8/2006 1:00:25 PM	116.601
	5/8/2006 1:00:27 PM	116.602
	5/8/2006 1:00:28 PM	116.601

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
5-90			**5-90**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:30 PM	116.602		5/8/2006 1:07:30 PM	116.606
	5/8/2006 1:00:32 PM	116.603		5/8/2006 1:07:56 PM	116.597
	5/8/2006 1:00:34 PM	116.604		5/8/2006 1:08:25 PM	116.599
	5/8/2006 1:00:36 PM	116.604		5/8/2006 1:08:55 PM	116.604
	5/8/2006 1:00:38 PM	116.602		5/8/2006 1:09:26 PM	116.602
	5/8/2006 1:00:40 PM	116.603		5/8/2006 1:10:00 PM	116.604
	5/8/2006 1:00:42 PM	116.603		5/8/2006 1:10:36 PM	116.6
	5/8/2006 1:00:45 PM	116.604		5/8/2006 1:11:12 PM	116.599
	5/8/2006 1:00:48 PM	116.603		5/8/2006 1:11:54 PM	116.598
	5/8/2006 1:00:50 PM	116.604		5/8/2006 1:12:36 PM	116.604
	5/8/2006 1:00:53 PM	116.604		5/8/2006 1:13:18 PM	116.602
	5/8/2006 1:00:57 PM	116.604		5/8/2006 1:14:06 PM	116.597
	5/8/2006 1:01:00 PM	116.605		5/8/2006 1:15:00 PM	116.604
	5/8/2006 1:01:04 PM	116.598		5/8/2006 1:15:48 PM	116.603
	5/8/2006 1:01:07 PM	116.604		5/8/2006 1:16:48 PM	116.603
	5/8/2006 1:01:11 PM	116.605		5/8/2006 1:17:48 PM	116.599
	5/8/2006 1:01:16 PM	116.605		5/8/2006 1:18:48 PM	116.599
	5/8/2006 1:01:20 PM	116.605		5/8/2006 1:19:54 PM	116.6
	5/8/2006 1:01:25 PM	116.604		5/8/2006 1:21:06 PM	116.597
	5/8/2006 1:01:30 PM	116.603		5/8/2006 1:22:24 PM	116.605
	5/8/2006 1:01:35 PM	116.598		5/8/2006 1:23:42 PM	116.75
	5/8/2006 1:01:41 PM	116.604		5/8/2006 1:25:06 PM	116.782
	5/8/2006 1:01:47 PM	116.604		5/8/2006 1:26:36 PM	116.803
	5/8/2006 1:01:53 PM	116.603		5/8/2006 1:28:12 PM	116.822
	5/8/2006 1:01:59 PM	116.604		5/8/2006 1:29:48 PM	116.837
	5/8/2006 1:02:07 PM	116.603		5/8/2006 1:31:36 PM	116.857
	5/8/2006 1:02:14 PM	116.597		5/8/2006 1:33:30 PM	116.873
	5/8/2006 1:02:22 PM	116.605		5/8/2006 1:35:30 PM	116.883
	5/8/2006 1:02:31 PM	116.606		5/8/2006 1:37:36 PM	116.904
	5/8/2006 1:02:40 PM	116.603		5/8/2006 1:39:48 PM	116.916
	5/8/2006 1:02:49 PM	116.603		5/8/2006 1:42:12 PM	116.933
	5/8/2006 1:02:59 PM	116.604		5/8/2006 1:44:42 PM	116.95
	5/8/2006 1:03:10 PM	116.603		5/8/2006 1:47:18 PM	116.965
	5/8/2006 1:03:21 PM	116.604		5/8/2006 1:50:06 PM	116.982
	5/8/2006 1:03:33 PM	116.604		5/8/2006 1:53:06 PM	117.001
	5/8/2006 1:03:46 PM	116.605		5/8/2006 1:56:12 PM	117.017
	5/8/2006 1:03:59 PM	116.604		5/8/2006 1:59:36 PM	117.036
	5/8/2006 1:04:13 PM	116.604		5/8/2006 2:03:06 PM	117.047
	5/8/2006 1:04:28 PM	116.606		5/8/2006 2:06:48 PM	117.072
	5/8/2006 1:04:44 PM	116.6		5/8/2006 2:10:48 PM	117.094
	5/8/2006 1:05:01 PM	116.604		5/8/2006 2:15:00 PM	117.116
	5/8/2006 1:05:19 PM	116.604		5/8/2006 2:19:24 PM	117.136
	5/8/2006 1:05:37 PM	116.605		5/8/2006 2:24:06 PM	117.158
	5/8/2006 1:05:58 PM	116.605		5/8/2006 2:29:06 PM	117.179
	5/8/2006 1:06:19 PM	116.599		5/8/2006 2:34:24 PM	117.203
	5/8/2006 1:06:41 PM	116.604		5/8/2006 2:40:00 PM	117.224
	5/8/2006 1:07:05 PM	116.606		5/8/2006 2:46:00 PM	117.254

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
5-90			**5-90**		
TROLL-rec			TROLL-rec		
	5/8/2006 2:52:00 PM	117.277		5/9/2006 5:00:00 PM	120.093
	5/8/2006 2:59:00 PM	117.303		5/9/2006 6:40:00 PM	120.19
	5/8/2006 3:06:00 PM	117.336		5/9/2006 8:20:00 PM	120.278
	5/8/2006 3:13:00 PM	117.363		5/9/2006 10:10:00 PM	120.383
	5/8/2006 3:21:00 PM	117.389		5/10/2006 12:10:00 AM	120.486
	5/8/2006 3:30:00 PM	117.421		5/10/2006 2:10:00 AM	120.59
	5/8/2006 3:38:00 PM	117.451		5/10/2006 4:10:00 AM	120.685
	5/8/2006 3:48:00 PM	117.484		5/10/2006 6:10:00 AM	120.776
	5/8/2006 3:58:00 PM	117.521		5/10/2006 8:10:00 AM	120.858
	5/8/2006 4:08:00 PM	117.556		5/10/2006 10:10:00 AM	120.951
	5/8/2006 4:19:00 PM	117.592		5/10/2006 12:10:00 PM	121.035
	5/8/2006 4:31:00 PM	117.633		5/10/2006 2:10:00 PM	121.116
	5/8/2006 4:44:00 PM	117.67		5/10/2006 4:10:00 PM	121.196
	5/8/2006 4:57:00 PM	117.716		5/10/2006 6:10:00 PM	121.275
	5/8/2006 5:11:00 PM	117.753		5/10/2006 8:10:00 PM	121.348
	5/8/2006 5:26:00 PM	117.798		5/10/2006 10:10:00 PM	121.42
	5/8/2006 5:42:00 PM	117.846		5/11/2006 12:10:00 AM	121.492
	5/8/2006 5:58:00 PM	117.892		5/11/2006 2:10:00 AM	121.563
	5/8/2006 6:16:00 PM	117.947		5/11/2006 4:10:00 AM	121.63
	5/8/2006 6:35:00 PM	117.996		5/11/2006 6:10:00 AM	121.695
	5/8/2006 6:55:00 PM	118.049		5/11/2006 8:10:00 AM	121.759
	5/8/2006 7:16:00 PM	118.103		5/11/2006 10:10:00 AM	121.818
	5/8/2006 7:38:00 PM	118.157		5/11/2006 12:10:00 PM	121.881
	5/8/2006 8:02:00 PM	118.216		5/11/2006 2:10:00 PM	121.943
	5/8/2006 8:27:00 PM	118.275		5/11/2006 4:10:00 PM	122.004
	5/8/2006 8:53:00 PM	118.333		5/11/2006 6:10:00 PM	122.058
	5/8/2006 9:21:00 PM	118.398		5/11/2006 8:10:00 PM	122.115
	5/8/2006 9:51:00 PM	118.465		5/11/2006 10:10:00 PM	122.169
	5/8/2006 10:22:00 PM	118.531		5/12/2006 12:10:00 AM	122.224
	5/8/2006 10:56:00 PM	118.6		5/12/2006 2:10:00 AM	122.28
	5/8/2006 11:31:00 PM	118.671		5/12/2006 4:10:00 AM	122.331
	5/9/2006 12:08:00 AM	118.74		5/12/2006 6:10:00 AM	122.382
	5/9/2006 12:48:00 AM	118.809		5/12/2006 8:10:00 AM	122.423
	5/9/2006 1:30:00 AM	118.888		5/12/2006 10:10:00 AM	122.478
	5/9/2006 2:14:00 AM	118.964		5/12/2006 12:10:00 PM	122.524
	5/9/2006 3:01:00 AM	119.04		5/12/2006 2:10:00 PM	122.572
	5/9/2006 3:51:00 AM	119.121		5/12/2006 4:10:00 PM	122.618
	5/9/2006 4:44:00 AM	119.198		5/12/2006 6:10:00 PM	122.657
	5/9/2006 5:40:00 AM	119.282		5/12/2006 8:10:00 PM	122.707
	5/9/2006 6:40:00 AM	119.362		5/12/2006 10:10:00 PM	122.749
	5/9/2006 7:40:00 AM	119.449		5/13/2006 12:10:00 AM	122.794
	5/9/2006 8:50:00 AM	119.538		5/13/2006 2:10:00 AM	122.836
	5/9/2006 10:00:00 AM	119.626		5/13/2006 4:10:00 AM	122.873
	5/9/2006 11:10:00 AM	119.712		5/13/2006 6:10:00 AM	122.914
	5/9/2006 12:30:00 PM	119.802		5/13/2006 8:10:00 AM	122.956
	5/9/2006 2:00:00 PM	119.903		5/13/2006 10:10:00 AM	122.991
	5/9/2006 3:20:00 PM	119.99		5/13/2006 12:10:00 PM	123.032

Well	Date and Time	GWE (ft)
5-90		
TROLL-rec		
	5/13/2006 2:10:00 PM	123.068
	5/13/2006 4:10:00 PM	123.102
	5/13/2006 6:10:00 PM	123.142
	5/13/2006 8:10:00 PM	123.191
	5/13/2006 10:10:00 PM	123.241
	5/14/2006 12:10:00 AM	123.284
	5/14/2006 2:10:00 AM	123.334
	5/14/2006 4:10:00 AM	123.371
	5/14/2006 6:10:00 AM	123.417
	5/14/2006 8:10:00 AM	123.452
	5/14/2006 10:10:00 AM	123.498
	5/14/2006 12:10:00 PM	123.539
	5/14/2006 2:10:00 PM	123.586
	5/14/2006 4:10:00 PM	123.636
	5/14/2006 6:10:00 PM	123.686
	5/14/2006 8:10:00 PM	123.734
	5/14/2006 10:10:00 PM	123.78
	5/15/2006 12:10:00 AM	123.827
	5/15/2006 2:10:00 AM	123.873
	5/15/2006 4:10:00 AM	123.916
	5/15/2006 6:10:00 AM	123.956
	5/15/2006 8:10:00 AM	123.999
	5/15/2006 10:10:00 AM	124.035
	5/15/2006 12:10:00 PM	124.076
7-90		
Manual		
	4/14/2006 2:30:00 PM	120.36
	4/21/2006 11:10:00 AM	120.21
	4/25/2006 11:30:00 AM	120.32
	4/26/2006 9:33:00 AM	120.3
	4/27/2006 12:10:00 PM	120.23
	4/28/2006 12:21:00 PM	120.09
	4/28/2006 3:40:00 PM	120.08
	4/29/2006 11:05:00 AM	119.99
	4/30/2006 10:47:00 AM	119.85
	5/1/2006 9:40:00 AM	119.72
	5/3/2006 8:08:00 AM	119.48
	5/4/2006 10:55:00 AM	119.43
	5/5/2006 11:24:00 AM	119.35
	5/6/2006 12:06:00 PM	119.26
	5/7/2006 11:03:00 AM	119.18
	5/8/2006 9:30:00 AM	119.08
	5/9/2006 12:32:00 PM	119.02
8-90		
Manual		
	4/14/2006 1:05:00 PM	127.58
8-90		
Manual		
	4/21/2006 8:00:00 AM	128.05
	4/25/2006 10:30:00 AM	127.41
	4/26/2006 9:00:00 AM	127.43
	4/28/2006 11:38:00 AM	124.58
	4/28/2006 3:15:00 PM	124.36
	4/30/2006 9:50:00 AM	122.83
	4/30/2006 4:15:00 PM	122.65
	5/1/2006 7:39:00 AM	122.24
	5/1/2006 12:30:00 PM	121.08
	5/4/2006 12:50:00 PM	121
	5/5/2006 10:11:00 AM	120.73
	5/8/2006 2:17:00 PM	119.91
	5/9/2006 10:53:00 AM	120.91
TROLL		
	4/26/2006 12:05:00 PM	127.43
	4/26/2006 12:05:00 PM	127.435
	4/26/2006 12:05:01 PM	127.433
	4/26/2006 12:05:01 PM	127.432
	4/26/2006 12:05:01 PM	127.43
	4/26/2006 12:05:01 PM	127.429
	4/26/2006 12:05:02 PM	127.435
	4/26/2006 12:05:02 PM	127.433
	4/26/2006 12:05:02 PM	127.433
	4/26/2006 12:05:02 PM	127.431
	4/26/2006 12:05:03 PM	127.427
	4/26/2006 12:05:03 PM	127.431
	4/26/2006 12:05:03 PM	127.43
	4/26/2006 12:05:03 PM	127.43
	4/26/2006 12:05:04 PM	127.435
	4/26/2006 12:05:04 PM	127.433
	4/26/2006 12:05:04 PM	127.429
	4/26/2006 12:05:04 PM	127.434
	4/26/2006 12:05:05 PM	127.427
	4/26/2006 12:05:05 PM	127.433
	4/26/2006 12:05:05 PM	127.433
	4/26/2006 12:05:05 PM	127.426
	4/26/2006 12:05:06 PM	127.427
	4/26/2006 12:05:06 PM	127.428
	4/26/2006 12:05:06 PM	127.427
	4/26/2006 12:05:06 PM	127.432
	4/26/2006 12:05:07 PM	127.427
	4/26/2006 12:05:07 PM	127.429
	4/26/2006 12:05:08 PM	127.427
	4/26/2006 12:05:08 PM	127.428
	4/26/2006 12:05:08 PM	127.434
	4/26/2006 12:05:09 PM	127.429
	4/26/2006 12:05:09 PM	127.43

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
8-90			**8-90**		
TROLL			TROLL		
	4/26/2006 12:05:10 PM	127.43		4/26/2006 12:07:31 PM	127.431
	4/26/2006 12:05:11 PM	127.431		4/26/2006 12:07:40 PM	127.43
	4/26/2006 12:05:11 PM	127.431		4/26/2006 12:07:49 PM	127.431
	4/26/2006 12:05:12 PM	127.433		4/26/2006 12:07:59 PM	127.429
	4/26/2006 12:05:13 PM	127.433		4/26/2006 12:08:10 PM	127.43
	4/26/2006 12:05:13 PM	127.432		4/26/2006 12:08:21 PM	127.43
	4/26/2006 12:05:14 PM	127.433		4/26/2006 12:08:33 PM	127.429
	4/26/2006 12:05:15 PM	127.43		4/26/2006 12:08:46 PM	127.43
	4/26/2006 12:05:16 PM	127.435		4/26/2006 12:08:59 PM	127.434
	4/26/2006 12:05:17 PM	127.429		4/26/2006 12:09:13 PM	127.429
	4/26/2006 12:05:18 PM	127.431		4/26/2006 12:09:28 PM	127.428
	4/26/2006 12:05:19 PM	127.432		4/26/2006 12:09:44 PM	127.433
	4/26/2006 12:05:20 PM	127.431		4/26/2006 12:10:01 PM	127.43
	4/26/2006 12:05:21 PM	127.428		4/26/2006 12:10:19 PM	127.428
	4/26/2006 12:05:23 PM	127.437		4/26/2006 12:10:37 PM	127.427
	4/26/2006 12:05:24 PM	127.433		4/26/2006 12:10:58 PM	127.427
	4/26/2006 12:05:25 PM	127.433		4/26/2006 12:11:19 PM	127.43
	4/26/2006 12:05:27 PM	127.432		4/26/2006 12:11:41 PM	127.426
	4/26/2006 12:05:28 PM	127.432		4/26/2006 12:12:05 PM	127.433
	4/26/2006 12:05:30 PM	127.433		4/26/2006 12:12:30 PM	127.425
	4/26/2006 12:05:32 PM	127.434		4/26/2006 12:12:56 PM	127.43
	4/26/2006 12:05:34 PM	127.435		4/26/2006 12:13:25 PM	127.425
	4/26/2006 12:05:36 PM	127.433		4/26/2006 12:13:55 PM	127.429
	4/26/2006 12:05:38 PM	127.428		4/26/2006 12:14:26 PM	127.429
	4/26/2006 12:05:40 PM	127.436		4/26/2006 12:15:00 PM	127.423
	4/26/2006 12:05:42 PM	127.431		4/26/2006 12:15:36 PM	127.422
	4/26/2006 12:05:45 PM	127.43		4/26/2006 12:16:12 PM	127.427
	4/26/2006 12:05:48 PM	127.431		4/26/2006 12:16:54 PM	127.42
	4/26/2006 12:05:50 PM	127.435		4/26/2006 12:17:36 PM	127.42
	4/26/2006 12:05:53 PM	127.431		4/26/2006 12:18:18 PM	127.42
	4/26/2006 12:05:57 PM	127.43		4/26/2006 12:19:06 PM	127.422
	4/26/2006 12:06:00 PM	127.431		4/26/2006 12:20:00 PM	127.418
	4/26/2006 12:06:04 PM	127.432		4/26/2006 12:20:48 PM	127.416
	4/26/2006 12:06:07 PM	127.434		4/26/2006 12:21:48 PM	127.415
	4/26/2006 12:06:11 PM	127.432		4/26/2006 12:22:48 PM	127.42
	4/26/2006 12:06:16 PM	127.435		4/26/2006 12:23:48 PM	127.413
	4/26/2006 12:06:20 PM	127.43		4/26/2006 12:24:54 PM	127.411
	4/26/2006 12:06:25 PM	127.431		4/26/2006 12:26:06 PM	127.408
	4/26/2006 12:06:30 PM	127.43		4/26/2006 12:27:24 PM	127.407
	4/26/2006 12:06:35 PM	127.437		4/26/2006 12:28:42 PM	127.406
	4/26/2006 12:06:41 PM	127.436		4/26/2006 12:30:06 PM	127.405
	4/26/2006 12:06:47 PM	127.436		4/26/2006 12:31:36 PM	127.407
	4/26/2006 12:06:53 PM	127.431		4/26/2006 12:33:12 PM	127.398
	4/26/2006 12:06:59 PM	127.43		4/26/2006 12:34:48 PM	127.401
	4/26/2006 12:07:07 PM	127.43		4/26/2006 12:36:36 PM	127.392
	4/26/2006 12:07:14 PM	127.43		4/26/2006 12:38:30 PM	127.388
	4/26/2006 12:07:22 PM	127.431		4/26/2006 12:40:30 PM	127.385

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
8-90			**8-90**		
TROLL			TROLL		
	4/26/2006 12:42:36 PM	127.377		4/26/2006 9:27:00 PM	126.522
	4/26/2006 12:44:48 PM	127.374		4/26/2006 10:01:00 PM	126.481
	4/26/2006 12:47:12 PM	127.368		4/26/2006 10:36:00 PM	126.438
	4/26/2006 12:49:42 PM	127.361		4/26/2006 11:13:00 PM	126.395
	4/26/2006 12:52:18 PM	127.352		4/26/2006 11:53:00 PM	126.353
	4/26/2006 12:55:06 PM	127.343		4/27/2006 12:35:00 AM	126.308
	4/26/2006 12:58:06 PM	127.333		4/27/2006 1:19:00 AM	126.268
	4/26/2006 1:01:12 PM	127.326		4/27/2006 2:06:00 AM	126.214
	4/26/2006 1:04:36 PM	127.319		4/27/2006 2:56:00 AM	126.161
	4/26/2006 1:08:06 PM	127.31		4/27/2006 3:49:00 AM	126.104
	4/26/2006 1:11:48 PM	127.294		4/27/2006 4:45:00 AM	126.046
	4/26/2006 1:15:48 PM	127.283		4/27/2006 5:45:00 AM	125.996
	4/26/2006 1:20:00 PM	127.273		4/27/2006 6:45:00 AM	125.934
	4/26/2006 1:24:24 PM	127.26		4/27/2006 7:55:00 AM	125.861
	4/26/2006 1:29:06 PM	127.249		4/27/2006 9:05:00 AM	125.792
	4/26/2006 1:34:06 PM	127.236		4/27/2006 10:15:00 AM	125.721
	4/26/2006 1:39:24 PM	127.229		4/27/2006 11:35:00 AM	125.645
	4/26/2006 1:45:00 PM	127.213		4/27/2006 1:05:00 PM	125.563
	4/26/2006 1:51:00 PM	127.2		4/27/2006 2:25:00 PM	125.503
	4/26/2006 1:57:00 PM	127.188		4/27/2006 4:05:00 PM	125.414
	4/26/2006 2:04:00 PM	127.173		4/27/2006 5:45:00 PM	125.333
	4/26/2006 2:11:00 PM	127.16		4/27/2006 7:25:00 PM	125.25
	4/26/2006 2:18:00 PM	127.148		4/27/2006 9:15:00 PM	125.159
	4/26/2006 2:26:00 PM	127.133		4/27/2006 11:15:00 PM	125.062
	4/26/2006 2:35:00 PM	127.116		4/28/2006 1:15:00 AM	124.965
	4/26/2006 2:43:00 PM	127.102		4/28/2006 3:15:00 AM	124.876
	4/26/2006 2:53:00 PM	127.087		4/28/2006 5:15:00 AM	124.781
	4/26/2006 3:03:00 PM	127.068		4/28/2006 7:15:00 AM	124.691
	4/26/2006 3:13:00 PM	127.05		4/28/2006 9:15:00 AM	124.605
	4/26/2006 3:24:00 PM	127.032		4/28/2006 11:15:00 AM	124.517
	4/26/2006 3:36:00 PM	127.015		4/28/2006 1:15:21 PM	124.385
	4/26/2006 3:49:00 PM	126.993		4/28/2006 3:15:21 PM	124.305
	4/26/2006 4:02:00 PM	126.972		4/28/2006 5:15:21 PM	124.225
	4/26/2006 4:16:00 PM	126.952		4/28/2006 7:15:21 PM	124.146
	4/26/2006 4:31:00 PM	126.93		4/28/2006 9:15:21 PM	124.071
	4/26/2006 4:47:00 PM	126.904		4/28/2006 11:15:21 PM	123.994
	4/26/2006 5:03:00 PM	126.881		4/29/2006 1:15:21 AM	123.917
	4/26/2006 5:21:00 PM	126.854		4/29/2006 3:15:21 AM	123.842
	4/26/2006 5:40:00 PM	126.827		4/29/2006 5:15:21 AM	123.767
	4/26/2006 6:00:00 PM	126.799		4/29/2006 7:15:21 AM	123.692
	4/26/2006 6:21:00 PM	126.771		4/29/2006 9:15:21 AM	123.62
	4/26/2006 6:43:00 PM	126.74		4/29/2006 11:15:21 AM	123.549
	4/26/2006 7:07:00 PM	126.711		4/29/2006 1:15:21 PM	123.479
	4/26/2006 7:32:00 PM	126.673		4/29/2006 3:15:21 PM	123.408
	4/26/2006 7:58:00 PM	126.639		4/29/2006 5:15:21 PM	123.339
	4/26/2006 8:26:00 PM	126.601		4/29/2006 7:15:21 PM	123.271
	4/26/2006 8:56:00 PM	126.567		4/29/2006 9:15:21 PM	123.204

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
8-90			**8-90**		
TROLL			TROLL		
	4/29/2006 11:15:21 PM	123.138		5/3/2006 9:15:21 PM	121.171
	4/30/2006 1:15:21 AM	123.073		5/3/2006 11:15:21 PM	121.147
	4/30/2006 3:15:21 AM	123.009		5/4/2006 1:15:21 AM	121.12
	4/30/2006 5:15:21 AM	122.95		5/4/2006 3:15:21 AM	121.096
	4/30/2006 7:15:21 AM	122.885		5/4/2006 5:15:21 AM	121.07
	4/30/2006 9:15:21 AM	122.82		5/4/2006 7:15:21 AM	121.045
	4/30/2006 11:15:21 AM	122.749		5/4/2006 9:15:21 AM	121.019
	4/30/2006 1:15:21 PM	122.684		5/4/2006 11:15:21 AM	120.995
	4/30/2006 3:15:21 PM	122.629		5/4/2006 1:15:21 PM	120.972
	4/30/2006 5:15:21 PM	122.568		5/4/2006 3:15:21 PM	120.948
	4/30/2006 7:15:21 PM	122.509		5/4/2006 5:15:21 PM	120.919
	4/30/2006 9:15:21 PM	122.454		5/4/2006 7:15:21 PM	120.899
	4/30/2006 11:15:21 PM	122.393		5/4/2006 9:15:21 PM	120.87
	5/1/2006 1:15:21 AM	122.34		5/4/2006 11:15:21 PM	120.848
	5/1/2006 3:15:21 AM	122.285		5/5/2006 1:15:21 AM	120.824
	5/1/2006 5:15:21 AM	122.231		5/5/2006 3:15:21 AM	120.794
	5/1/2006 7:15:21 AM	122.175		5/5/2006 5:15:21 AM	120.773
	5/1/2006 9:15:21 AM	122.122		5/5/2006 7:15:21 AM	120.745
	5/1/2006 11:15:21 AM	122.07		5/5/2006 9:15:21 AM	120.721
	5/1/2006 1:15:21 PM	122.012		5/5/2006 11:15:21 AM	120.701
	5/1/2006 3:15:21 PM	121.969		5/5/2006 1:15:21 PM	120.672
	5/1/2006 5:15:21 PM	121.932		5/5/2006 3:15:21 PM	120.651
	5/1/2006 7:15:21 PM	121.898		5/5/2006 5:15:21 PM	120.625
	5/1/2006 9:15:21 PM	121.865		5/5/2006 7:15:21 PM	120.597
	5/1/2006 11:15:21 PM	121.83		5/5/2006 9:15:21 PM	120.574
	5/2/2006 1:15:21 AM	121.796		5/5/2006 11:15:21 PM	120.551
	5/2/2006 3:15:21 AM	121.762		5/6/2006 1:15:21 AM	120.526
	5/2/2006 5:15:21 AM	121.726		5/6/2006 3:15:21 AM	120.501
	5/2/2006 7:15:21 AM	121.69		5/6/2006 5:15:21 AM	120.476
	5/2/2006 9:15:21 AM	121.66		5/6/2006 7:15:21 AM	120.447
	5/2/2006 11:15:21 AM	121.627		5/6/2006 9:15:21 AM	120.424
	5/2/2006 1:15:21 PM	121.594		5/6/2006 11:15:21 AM	120.401
	5/2/2006 3:15:21 PM	121.561		5/6/2006 1:15:21 PM	120.378
	5/2/2006 5:15:21 PM	121.529		5/6/2006 3:15:21 PM	120.352
	5/2/2006 7:15:21 PM	121.5		5/6/2006 5:15:21 PM	120.324
	5/2/2006 9:15:21 PM	121.468		5/6/2006 7:15:21 PM	120.3
	5/2/2006 11:15:21 PM	121.445		5/6/2006 9:15:21 PM	120.278
	5/3/2006 1:15:21 AM	121.418		5/6/2006 11:15:21 PM	120.253
	5/3/2006 3:15:21 AM	121.393		5/7/2006 1:15:21 AM	120.229
	5/3/2006 5:15:21 AM	121.369		5/7/2006 3:15:21 AM	120.206
	5/3/2006 7:15:21 AM	121.344		5/7/2006 5:15:21 AM	120.182
	5/3/2006 9:15:21 AM	121.319		5/7/2006 7:15:21 AM	120.153
	5/3/2006 11:15:21 AM	121.297		5/7/2006 9:15:21 AM	120.129
	5/3/2006 1:15:21 PM	121.269		5/7/2006 11:15:21 AM	120.108
	5/3/2006 3:15:21 PM	121.247		5/7/2006 1:15:21 PM	120.084
	5/3/2006 5:15:21 PM	121.221		5/7/2006 3:15:21 PM	120.056
	5/3/2006 7:15:21 PM	121.197		5/7/2006 5:15:21 PM	120.035

Well	Date and Time	GWE (ft)
8-90		
TROLL		
	5/7/2006 7:15:21 PM	120.012
	5/7/2006 9:15:21 PM	119.988
	5/7/2006 11:15:21 PM	119.963
	5/8/2006 1:15:21 AM	119.94
	5/8/2006 3:15:21 AM	119.918
	5/8/2006 5:15:21 AM	119.894
	5/8/2006 7:15:21 AM	119.867
	5/8/2006 9:15:21 AM	119.848
	5/8/2006 11:15:21 AM	119.823
TROLL-rec		
	5/8/2006 1:00:00 PM	119.988
	5/8/2006 1:00:00 PM	119.985
	5/8/2006 1:00:01 PM	119.988
	5/8/2006 1:00:01 PM	119.985
	5/8/2006 1:00:01 PM	119.983
	5/8/2006 1:00:01 PM	119.985
	5/8/2006 1:00:02 PM	119.984
	5/8/2006 1:00:02 PM	119.984
	5/8/2006 1:00:02 PM	119.985
	5/8/2006 1:00:02 PM	119.983
	5/8/2006 1:00:03 PM	119.982
	5/8/2006 1:00:03 PM	119.987
	5/8/2006 1:00:03 PM	119.987
	5/8/2006 1:00:03 PM	119.985
	5/8/2006 1:00:04 PM	119.984
	5/8/2006 1:00:04 PM	119.985
	5/8/2006 1:00:04 PM	119.985
	5/8/2006 1:00:04 PM	119.983
	5/8/2006 1:00:05 PM	119.981
	5/8/2006 1:00:05 PM	119.982
	5/8/2006 1:00:05 PM	119.984
	5/8/2006 1:00:05 PM	119.983
	5/8/2006 1:00:06 PM	119.982
	5/8/2006 1:00:06 PM	119.982
	5/8/2006 1:00:06 PM	119.983
	5/8/2006 1:00:06 PM	119.979
	5/8/2006 1:00:07 PM	119.982
	5/8/2006 1:00:07 PM	119.983
	5/8/2006 1:00:08 PM	119.983
	5/8/2006 1:00:08 PM	119.984
	5/8/2006 1:00:08 PM	119.985
	5/8/2006 1:00:09 PM	119.981
	5/8/2006 1:00:09 PM	119.986
	5/8/2006 1:00:10 PM	119.983
	5/8/2006 1:00:11 PM	119.982
	5/8/2006 1:00:11 PM	119.982
	5/8/2006 1:00:12 PM	119.982

Well	Date and Time	GWE (ft)
8-90		
TROLL-rec		
	5/8/2006 1:00:13 PM	119.984
	5/8/2006 1:00:13 PM	119.983
	5/8/2006 1:00:14 PM	119.983
	5/8/2006 1:00:15 PM	119.984
	5/8/2006 1:00:16 PM	119.985
	5/8/2006 1:00:17 PM	119.985
	5/8/2006 1:00:18 PM	119.985
	5/8/2006 1:00:19 PM	119.983
	5/8/2006 1:00:20 PM	119.983
	5/8/2006 1:00:21 PM	119.986
	5/8/2006 1:00:23 PM	119.986
	5/8/2006 1:00:24 PM	119.985
	5/8/2006 1:00:25 PM	119.984
	5/8/2006 1:00:27 PM	119.988
	5/8/2006 1:00:28 PM	119.988
	5/8/2006 1:00:30 PM	119.986
	5/8/2006 1:00:32 PM	119.984
	5/8/2006 1:00:34 PM	119.987
	5/8/2006 1:00:36 PM	119.984
	5/8/2006 1:00:38 PM	119.985
	5/8/2006 1:00:40 PM	119.988
	5/8/2006 1:00:42 PM	119.988
	5/8/2006 1:00:45 PM	119.985
	5/8/2006 1:00:48 PM	119.988
	5/8/2006 1:00:50 PM	119.985
	5/8/2006 1:00:53 PM	119.984
	5/8/2006 1:00:57 PM	119.985
	5/8/2006 1:01:00 PM	119.985
	5/8/2006 1:01:04 PM	119.985
	5/8/2006 1:01:07 PM	119.984
	5/8/2006 1:01:11 PM	119.983
	5/8/2006 1:01:16 PM	119.985
	5/8/2006 1:01:20 PM	119.986
	5/8/2006 1:01:25 PM	119.984
	5/8/2006 1:01:30 PM	119.982
	5/8/2006 1:01:35 PM	119.985
	5/8/2006 1:01:41 PM	119.983
	5/8/2006 1:01:47 PM	119.982
	5/8/2006 1:01:53 PM	119.985
	5/8/2006 1:01:59 PM	119.981
	5/8/2006 1:02:07 PM	119.983
	5/8/2006 1:02:14 PM	119.983
	5/8/2006 1:02:22 PM	119.985
	5/8/2006 1:02:31 PM	119.984
	5/8/2006 1:02:40 PM	119.984
	5/8/2006 1:02:49 PM	119.985
	5/8/2006 1:02:59 PM	119.983

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
8-90			**8-90**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:03:10 PM	119.979		5/8/2006 1:47:18 PM	119.955
	5/8/2006 1:03:21 PM	119.979		5/8/2006 1:50:06 PM	119.956
	5/8/2006 1:03:33 PM	119.983		5/8/2006 2:19:24 PM	120.101
	5/8/2006 1:03:46 PM	119.98		5/8/2006 2:24:06 PM	120.099
	5/8/2006 1:03:59 PM	119.978		5/8/2006 2:29:06 PM	120.105
	5/8/2006 1:04:13 PM	119.983		5/8/2006 2:34:24 PM	120.115
	5/8/2006 1:04:28 PM	119.982		5/8/2006 2:40:00 PM	120.125
	5/8/2006 1:04:44 PM	119.981		5/8/2006 2:46:00 PM	120.132
	5/8/2006 1:05:01 PM	119.982		5/8/2006 2:52:00 PM	120.142
	5/8/2006 1:05:19 PM	119.977		5/8/2006 2:59:00 PM	120.15
	5/8/2006 1:05:37 PM	119.98		5/8/2006 3:06:00 PM	120.159
	5/8/2006 1:05:58 PM	119.98		5/8/2006 3:13:00 PM	120.167
	5/8/2006 1:06:19 PM	119.977		5/8/2006 3:21:00 PM	120.177
	5/8/2006 1:06:41 PM	119.979		5/8/2006 3:30:00 PM	120.186
	5/8/2006 1:07:05 PM	119.979		5/8/2006 3:38:00 PM	120.195
	5/8/2006 1:07:30 PM	119.978		5/8/2006 3:48:00 PM	120.204
	5/8/2006 1:07:56 PM	119.978		5/8/2006 3:58:00 PM	120.213
	5/8/2006 1:08:25 PM	119.976		5/8/2006 4:08:00 PM	120.224
	5/8/2006 1:08:55 PM	119.977		5/8/2006 4:19:00 PM	120.237
	5/8/2006 1:09:26 PM	119.976		5/8/2006 4:31:00 PM	120.249
	5/8/2006 1:10:00 PM	119.972		5/8/2006 4:44:00 PM	120.261
	5/8/2006 1:10:36 PM	119.975		5/8/2006 4:57:00 PM	120.275
	5/8/2006 1:11:12 PM	119.973		5/8/2006 5:11:00 PM	120.29
	5/8/2006 1:11:54 PM	119.973		5/8/2006 5:26:00 PM	120.303
	5/8/2006 1:12:36 PM	119.969		5/8/2006 5:42:00 PM	120.319
	5/8/2006 1:13:18 PM	119.972		5/8/2006 5:58:00 PM	120.334
	5/8/2006 1:14:06 PM	119.967		5/8/2006 6:16:00 PM	120.351
	5/8/2006 1:15:00 PM	119.969		5/8/2006 6:35:00 PM	120.369
	5/8/2006 1:15:48 PM	119.965		5/8/2006 6:55:00 PM	120.391
	5/8/2006 1:16:48 PM	119.965		5/8/2006 7:16:00 PM	120.409
	5/8/2006 1:17:48 PM	119.968		5/8/2006 7:38:00 PM	120.427
	5/8/2006 1:18:48 PM	119.965		5/8/2006 8:02:00 PM	120.453
	5/8/2006 1:19:54 PM	119.96		5/8/2006 8:27:00 PM	120.476
	5/8/2006 1:21:06 PM	119.959		5/8/2006 8:53:00 PM	120.501
	5/8/2006 1:22:24 PM	119.958		5/8/2006 9:21:00 PM	120.524
	5/8/2006 1:23:42 PM	119.96		5/8/2006 9:51:00 PM	120.555
	5/8/2006 1:25:06 PM	119.959		5/8/2006 10:22:00 PM	120.578
	5/8/2006 1:26:36 PM	119.959		5/8/2006 10:56:00 PM	120.611
	5/8/2006 1:28:12 PM	119.956		5/8/2006 11:31:00 PM	120.639
	5/8/2006 1:29:48 PM	119.956		5/9/2006 12:08:00 AM	120.675
	5/8/2006 1:31:36 PM	119.951		5/9/2006 12:48:00 AM	120.706
	5/8/2006 1:33:30 PM	119.948		5/9/2006 1:30:00 AM	120.743
	5/8/2006 1:35:30 PM	119.952		5/9/2006 2:14:00 AM	120.774
	5/8/2006 1:37:36 PM	119.95		5/9/2006 3:01:00 AM	120.815
	5/8/2006 1:39:48 PM	119.945		5/9/2006 3:51:00 AM	120.851
	5/8/2006 1:42:12 PM	119.946		5/9/2006 4:44:00 AM	120.894
	5/8/2006 1:44:42 PM	119.947		5/9/2006 5:40:00 AM	120.934

Well	Date and Time	GWE (ft)
8-90		
TROLL-rec		
	5/9/2006 6:40:00 AM	120.977
	5/9/2006 7:40:00 AM	121.023
	5/9/2006 8:50:00 AM	121.074
	5/9/2006 10:00:00 AM	121.121
	5/9/2006 11:10:00 AM	121.161
	5/9/2006 12:30:00 PM	121.223
	5/9/2006 2:00:00 PM	121.279
	5/9/2006 3:20:00 PM	121.329
	5/9/2006 5:00:00 PM	121.392
	5/9/2006 6:40:00 PM	121.449
	5/9/2006 8:20:00 PM	121.509
	5/9/2006 10:10:00 PM	121.574
	5/10/2006 12:10:00 AM	121.644
	5/10/2006 2:10:00 AM	121.708
	5/10/2006 4:10:00 AM	121.77
	5/10/2006 6:10:00 AM	121.832
	5/10/2006 8:10:00 AM	121.891
	5/10/2006 10:10:00 AM	121.949
	5/10/2006 12:10:00 PM	122.009
	5/10/2006 2:10:00 PM	122.062
	5/10/2006 4:10:00 PM	122.117
	5/10/2006 6:10:00 PM	122.175
	5/10/2006 8:10:00 PM	122.227
	5/10/2006 10:10:00 PM	122.273
	5/11/2006 12:10:00 AM	122.326
	5/11/2006 2:10:00 AM	122.376
	5/11/2006 4:10:00 AM	122.424
	5/11/2006 6:10:00 AM	122.466
	5/11/2006 8:10:00 AM	122.515
	5/11/2006 10:10:00 AM	122.559
	5/11/2006 12:10:00 PM	122.601
	5/11/2006 2:10:00 PM	122.649
	5/11/2006 4:10:00 PM	122.686
	5/11/2006 6:10:00 PM	122.734
	5/11/2006 8:10:00 PM	122.77
	5/11/2006 10:10:00 PM	122.814
	5/12/2006 12:10:00 AM	122.851
	5/12/2006 2:10:00 AM	122.892
	5/12/2006 4:10:00 AM	122.934
	5/12/2006 6:10:00 AM	122.968
	5/12/2006 8:10:00 AM	123.008
	5/12/2006 10:10:00 AM	123.046
	5/12/2006 12:10:00 PM	123.076
	5/12/2006 2:10:00 PM	123.117
	5/12/2006 4:10:00 PM	123.153
	5/12/2006 6:10:00 PM	123.188
	5/12/2006 8:10:00 PM	123.219
8-90		
TROLL-rec		
	5/12/2006 10:10:00 PM	123.253
	5/13/2006 12:10:00 AM	123.287
	5/13/2006 2:10:00 AM	123.318
	5/13/2006 4:10:00 AM	123.351
	5/13/2006 6:10:00 AM	123.386
	5/13/2006 8:10:00 AM	123.415
	5/13/2006 10:10:00 AM	123.444
	5/13/2006 12:10:00 PM	123.482
	5/13/2006 2:10:00 PM	123.509
	5/13/2006 4:10:00 PM	123.547
	5/13/2006 6:10:00 PM	123.576
	5/13/2006 8:10:00 PM	123.613
	5/13/2006 10:10:00 PM	123.65
	5/14/2006 12:10:00 AM	123.684
	5/14/2006 2:10:00 AM	123.714
	5/14/2006 4:10:00 AM	123.752
	5/14/2006 6:10:00 AM	123.785
	5/14/2006 8:10:00 AM	123.818
	5/14/2006 10:10:00 AM	123.848
	5/14/2006 12:10:00 PM	123.885
	5/14/2006 2:10:00 PM	123.918
	5/14/2006 4:10:00 PM	123.954
	5/14/2006 6:10:00 PM	123.989
	5/14/2006 8:10:00 PM	124.023
	5/14/2006 10:10:00 PM	124.056
	5/15/2006 12:10:00 AM	124.09
	5/15/2006 2:10:00 AM	124.124
	5/15/2006 4:10:00 AM	124.158
	5/15/2006 6:10:00 AM	124.191
	5/15/2006 8:10:00 AM	124.224
	5/15/2006 10:10:00 AM	124.257
	5/15/2006 12:10:00 PM	124.287
	5/15/2006 2:10:00 PM	124.324
MW-12		
Manual		
	4/14/2006 2:48:00 PM	118.46
	4/21/2006 11:30:00 AM	117.98
	4/25/2006 10:30:00 AM	119.03
	4/26/2006 9:53:00 AM	118.92
	4/27/2006 12:20:00 PM	118.8
	4/27/2006 4:50:00 PM	118.74
	4/28/2006 12:42:00 PM	118.6
	4/28/2006 4:05:00 PM	118.59
	4/29/2006 11:13:00 AM	118.47
	4/30/2006 11:14:00 AM	118.32
	5/1/2006 10:08:00 AM	118.27

Well	Date and Time	GWE (ft)
MW-12		
Manual		
	5/2/2006 11:10:00 AM	118.29
	5/3/2006 8:28:00 AM	118.92
	5/4/2006 11:20:00 AM	119.12
	5/5/2006 12:16:00 PM	118.78
	5/5/2006 4:15:00 PM	119
	5/7/2006 11:21:00 AM	118.56
	5/8/2006 9:43:00 AM	118.4
	5/9/2006 1:00:00 PM	118.31
MW-1R		
Manual		
	4/14/2006 1:40:00 PM	133.69
	4/21/2006 10:30:00 AM	133.55
	4/25/2006 12:35:00 PM	133.52
	4/26/2006 9:14:00 AM	133.49
	4/27/2006 11:25:00 AM	133.1
	4/27/2006 5:05:00 PM	132.96
	4/28/2006 11:57:00 AM	132.42
	4/28/2006 3:53:00 PM	132.34
	4/29/2006 11:30:00 AM	131.77
	4/30/2006 10:29:00 AM	131.15
	5/1/2006 9:17:00 AM	130.58
	5/2/2006 10:50:00 AM	130.01
	5/3/2006 8:01:00 AM	129.59
	5/4/2006 11:40:00 AM	129.14
	5/5/2006 11:35:00 AM	128.76
	5/6/2006 11:27:00 AM	128.41
	5/7/2006 10:55:00 AM	128.1
	5/8/2006 9:37:00 AM	127.78
	5/9/2006 12:21:00 PM	127.57
MW-7		
Manual		
	4/14/2006 2:14:00 PM	136.86
	4/21/2006 11:00:00 AM	136.5
	4/25/2006 12:00:00 PM	136.66
	4/26/2006 9:26:00 AM	136.51
	4/28/2006 12:10:00 PM	136.06
	4/28/2006 3:27:00 PM	136.03
	4/29/2006 11:25:00 AM	135.97
	4/30/2006 10:40:00 AM	135.76
	5/1/2006 9:24:00 AM	135.66
	5/4/2006 11:50:00 AM	135.43
	5/5/2006 11:45:00 AM	135.36
TROLL		
	4/26/2006 12:05:00 PM	136.51
	4/26/2006 12:05:00 PM	136.51
	4/26/2006 12:05:01 PM	136.51

Well	Date and Time	GWE (ft)
MW-7		
TROLL		
	4/26/2006 12:05:01 PM	136.51
	4/26/2006 12:05:01 PM	136.511
	4/26/2006 12:05:01 PM	136.51
	4/26/2006 12:05:02 PM	136.511
	4/26/2006 12:05:02 PM	136.509
	4/26/2006 12:05:02 PM	136.509
	4/26/2006 12:05:02 PM	136.508
	4/26/2006 12:05:03 PM	136.509
	4/26/2006 12:05:03 PM	136.508
	4/26/2006 12:05:03 PM	136.508
	4/26/2006 12:05:03 PM	136.509
	4/26/2006 12:05:04 PM	136.509
	4/26/2006 12:05:04 PM	136.509
	4/26/2006 12:05:04 PM	136.511
	4/26/2006 12:05:04 PM	136.508
	4/26/2006 12:05:05 PM	136.509
	4/26/2006 12:05:05 PM	136.509
	4/26/2006 12:05:05 PM	136.509
	4/26/2006 12:05:05 PM	136.509
	4/26/2006 12:05:06 PM	136.51
	4/26/2006 12:05:06 PM	136.508
	4/26/2006 12:05:06 PM	136.51
	4/26/2006 12:05:06 PM	136.51
	4/26/2006 12:05:07 PM	136.509
	4/26/2006 12:05:07 PM	136.51
	4/26/2006 12:05:08 PM	136.508
	4/26/2006 12:05:08 PM	136.509
	4/26/2006 12:05:08 PM	136.508
	4/26/2006 12:05:09 PM	136.51
	4/26/2006 12:05:09 PM	136.508
	4/26/2006 12:05:10 PM	136.511
	4/26/2006 12:05:11 PM	136.509
	4/26/2006 12:05:11 PM	136.511
	4/26/2006 12:05:12 PM	136.51
	4/26/2006 12:05:13 PM	136.509
	4/26/2006 12:05:13 PM	136.51
	4/26/2006 12:05:14 PM	136.51
	4/26/2006 12:05:15 PM	136.51
	4/26/2006 12:05:16 PM	136.511
	4/26/2006 12:05:17 PM	136.511
	4/26/2006 12:05:18 PM	136.51
	4/26/2006 12:05:19 PM	136.511
	4/26/2006 12:05:20 PM	136.509
	4/26/2006 12:05:21 PM	136.509
	4/26/2006 12:05:23 PM	136.512
	4/26/2006 12:05:24 PM	136.512
	4/26/2006 12:05:25 PM	136.513

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
MW-7			**MW-7**		
TROLL			TROLL		
	4/26/2006 12:05:27 PM	136.511		4/26/2006 12:11:41 PM	136.512
	4/26/2006 12:05:28 PM	136.513		4/26/2006 12:12:05 PM	136.511
	4/26/2006 12:05:30 PM	136.51		4/26/2006 12:12:30 PM	136.513
	4/26/2006 12:05:32 PM	136.51		4/26/2006 12:12:56 PM	136.513
	4/26/2006 12:05:34 PM	136.51		4/26/2006 12:13:25 PM	136.514
	4/26/2006 12:05:36 PM	136.512		4/26/2006 12:13:55 PM	136.513
	4/26/2006 12:05:38 PM	136.511		4/26/2006 12:14:26 PM	136.513
	4/26/2006 12:05:40 PM	136.511		4/26/2006 12:15:00 PM	136.514
	4/26/2006 12:05:42 PM	136.511		4/26/2006 12:15:36 PM	136.512
	4/26/2006 12:05:45 PM	136.511		4/26/2006 12:16:12 PM	136.514
	4/26/2006 12:05:48 PM	136.511		4/26/2006 12:16:54 PM	136.514
	4/26/2006 12:05:50 PM	136.511		4/26/2006 12:17:36 PM	136.515
	4/26/2006 12:05:53 PM	136.512		4/26/2006 12:18:18 PM	136.513
	4/26/2006 12:05:57 PM	136.511		4/26/2006 12:19:06 PM	136.514
	4/26/2006 12:06:00 PM	136.511		4/26/2006 12:20:00 PM	136.513
	4/26/2006 12:06:04 PM	136.512		4/26/2006 12:20:48 PM	136.514
	4/26/2006 12:06:07 PM	136.512		4/26/2006 12:21:48 PM	136.514
	4/26/2006 12:06:11 PM	136.512		4/26/2006 12:22:48 PM	136.514
	4/26/2006 12:06:16 PM	136.512		4/26/2006 12:23:48 PM	136.516
	4/26/2006 12:06:20 PM	136.512		4/26/2006 12:24:54 PM	136.516
	4/26/2006 12:06:25 PM	136.51		4/26/2006 12:26:06 PM	136.515
	4/26/2006 12:06:30 PM	136.512		4/26/2006 12:27:24 PM	136.515
	4/26/2006 12:06:35 PM	136.512		4/26/2006 12:28:42 PM	136.515
	4/26/2006 12:06:41 PM	136.511		4/26/2006 12:30:06 PM	136.514
	4/26/2006 12:06:47 PM	136.512		4/26/2006 12:31:36 PM	136.517
	4/26/2006 12:06:53 PM	136.513		4/26/2006 12:33:12 PM	136.515
	4/26/2006 12:06:59 PM	136.512		4/26/2006 12:34:48 PM	136.517
	4/26/2006 12:07:07 PM	136.511		4/26/2006 12:36:36 PM	136.515
	4/26/2006 12:07:14 PM	136.512		4/26/2006 12:38:30 PM	136.517
	4/26/2006 12:07:22 PM	136.512		4/26/2006 12:40:30 PM	136.518
	4/26/2006 12:07:31 PM	136.513		4/26/2006 12:42:36 PM	136.518
	4/26/2006 12:07:40 PM	136.512		4/26/2006 12:44:48 PM	136.515
	4/26/2006 12:07:49 PM	136.513		4/26/2006 12:47:12 PM	136.52
	4/26/2006 12:07:59 PM	136.512		4/26/2006 12:49:42 PM	136.519
	4/26/2006 12:08:10 PM	136.512		4/26/2006 12:52:18 PM	136.519
	4/26/2006 12:08:21 PM	136.512		4/26/2006 12:55:06 PM	136.521
	4/26/2006 12:08:33 PM	136.512		4/26/2006 12:58:06 PM	136.522
	4/26/2006 12:08:46 PM	136.513		4/26/2006 1:01:12 PM	136.522
	4/26/2006 12:08:59 PM	136.512		4/26/2006 1:04:36 PM	136.521
	4/26/2006 12:09:13 PM	136.513		4/26/2006 1:08:06 PM	136.523
	4/26/2006 12:09:28 PM	136.513		4/26/2006 1:11:48 PM	136.523
	4/26/2006 12:09:44 PM	136.514		4/26/2006 1:15:48 PM	136.526
	4/26/2006 12:10:01 PM	136.512		4/26/2006 1:20:00 PM	136.526
	4/26/2006 12:10:19 PM	136.513		4/26/2006 1:24:24 PM	136.527
	4/26/2006 12:10:37 PM	136.511		4/26/2006 1:29:06 PM	136.528
	4/26/2006 12:10:58 PM	136.513		4/26/2006 1:34:06 PM	136.531
	4/26/2006 12:11:19 PM	136.514		4/26/2006 1:39:24 PM	136.532

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
MW-7			**MW-7**		
TROLL			TROLL		
	4/26/2006 1:45:00 PM	136.532		4/27/2006 1:05:00 PM	136.4
	4/26/2006 1:51:00 PM	136.535		4/27/2006 2:25:00 PM	136.405
	4/26/2006 1:57:00 PM	136.533		4/27/2006 4:05:00 PM	136.391
	4/26/2006 2:04:00 PM	136.539		4/27/2006 5:45:00 PM	136.364
	4/26/2006 2:11:00 PM	136.534		4/27/2006 7:25:00 PM	136.333
	4/26/2006 2:18:00 PM	136.541		4/27/2006 9:15:00 PM	136.29
	4/26/2006 2:26:00 PM	136.542		4/27/2006 11:15:00 PM	136.247
	4/26/2006 2:35:00 PM	136.545		4/28/2006 1:15:00 AM	136.207
	4/26/2006 2:43:00 PM	136.549		4/28/2006 3:15:00 AM	136.178
	4/26/2006 2:53:00 PM	136.55		4/28/2006 5:15:00 AM	136.142
	4/26/2006 3:03:00 PM	136.554		4/28/2006 7:15:00 AM	136.101
	4/26/2006 3:13:00 PM	136.556		4/28/2006 9:15:00 AM	136.068
	4/26/2006 3:24:00 PM	136.558		4/28/2006 11:15:00 AM	136.048
	4/26/2006 3:36:00 PM	136.561		4/28/2006 1:15:22 PM	136.039
	4/26/2006 3:49:00 PM	136.565		4/28/2006 3:15:22 PM	136.035
	4/26/2006 4:02:00 PM	136.569		4/28/2006 5:15:22 PM	136.035
	4/26/2006 4:16:00 PM	136.573		4/28/2006 7:15:22 PM	136.015
	4/26/2006 4:31:00 PM	136.576		4/28/2006 9:15:22 PM	135.981
	4/26/2006 4:47:00 PM	136.578		4/28/2006 11:15:22 PM	135.952
	4/26/2006 5:03:00 PM	136.583		4/29/2006 1:15:22 AM	135.93
	4/26/2006 5:21:00 PM	136.583		4/29/2006 3:15:22 AM	135.917
	4/26/2006 5:40:00 PM	136.585		4/29/2006 5:15:22 AM	135.902
	4/26/2006 6:00:00 PM	136.585		4/29/2006 7:15:22 AM	135.879
	4/26/2006 6:21:00 PM	136.586		4/29/2006 9:15:22 AM	135.855
	4/26/2006 6:43:00 PM	136.588		4/29/2006 11:15:22 AM	135.842
	4/26/2006 7:07:00 PM	136.587		4/29/2006 1:15:22 PM	135.845
	4/26/2006 7:32:00 PM	136.586		4/29/2006 3:15:22 PM	135.851
	4/26/2006 7:58:00 PM	136.581		4/29/2006 5:15:22 PM	135.853
	4/26/2006 8:26:00 PM	136.576		4/29/2006 7:15:22 PM	135.847
	4/26/2006 8:56:00 PM	136.567		4/29/2006 9:15:22 PM	135.826
	4/26/2006 9:27:00 PM	136.558		4/29/2006 11:15:22 PM	135.811
	4/26/2006 10:01:00 PM	136.548		4/30/2006 1:15:22 AM	135.798
	4/26/2006 10:36:00 PM	136.537		4/30/2006 3:15:22 AM	135.804
	4/26/2006 11:13:00 PM	136.531		4/30/2006 5:15:22 AM	135.796
	4/26/2006 11:53:00 PM	136.527		4/30/2006 7:15:22 AM	135.777
	4/27/2006 12:35:00 AM	136.521		4/30/2006 9:15:22 AM	135.76
	4/27/2006 1:19:00 AM	136.513		4/30/2006 11:15:22 AM	135.749
	4/27/2006 2:06:00 AM	136.508		4/30/2006 1:15:22 PM	135.743
	4/27/2006 2:56:00 AM	136.505		4/30/2006 3:15:22 PM	135.746
	4/27/2006 3:49:00 AM	136.5		4/30/2006 5:15:22 PM	135.748
	4/27/2006 4:45:00 AM	136.493		4/30/2006 7:15:22 PM	135.745
	4/27/2006 5:45:00 AM	136.484		4/30/2006 9:15:22 PM	135.731
	4/27/2006 6:45:00 AM	136.468		4/30/2006 11:15:22 PM	135.715
	4/27/2006 7:55:00 AM	136.446		5/1/2006 1:15:22 AM	135.702
	4/27/2006 9:05:00 AM	136.429		5/1/2006 3:15:22 AM	135.689
	4/27/2006 10:15:00 AM	136.415		5/1/2006 5:15:22 AM	135.676
	4/27/2006 11:35:00 AM	136.402		5/1/2006 7:15:22 AM	135.664

Well	Date and Time	GWE (ft)
MW-7		
TROLL		
	5/1/2006 9:15:22 AM	135.653
	5/1/2006 11:15:22 AM	135.648
	5/1/2006 1:15:22 PM	135.647
	5/1/2006 3:15:22 PM	135.655
	5/1/2006 5:15:22 PM	135.653
	5/1/2006 7:15:22 PM	135.648
	5/1/2006 9:15:22 PM	135.648
	5/1/2006 11:15:22 PM	135.651
	5/2/2006 1:15:22 AM	135.663
	5/2/2006 3:15:22 AM	135.68
	5/2/2006 5:15:22 AM	135.7
	5/2/2006 7:15:22 AM	135.704
	5/2/2006 9:15:22 AM	135.714
	5/2/2006 11:15:22 AM	135.714
	5/2/2006 1:15:22 PM	135.709
	5/2/2006 3:15:22 PM	135.7
	5/2/2006 5:15:22 PM	135.692
	5/2/2006 7:15:22 PM	135.678
	5/2/2006 9:15:22 PM	135.661
	5/2/2006 11:15:22 PM	135.655
	5/3/2006 1:15:22 AM	135.643
	5/3/2006 3:15:22 AM	135.633
	5/3/2006 5:15:22 AM	135.616
	5/3/2006 7:15:22 AM	135.598
	5/3/2006 9:15:22 AM	135.579
	5/3/2006 11:15:22 AM	135.562
	5/3/2006 1:15:22 PM	135.551
	5/3/2006 3:15:22 PM	135.54
	5/3/2006 5:15:22 PM	135.528
	5/3/2006 7:15:22 PM	135.511
	5/3/2006 9:15:22 PM	135.491
	5/3/2006 11:15:22 PM	135.476
	5/4/2006 1:15:22 AM	135.473
	5/4/2006 3:15:22 AM	135.479
	5/4/2006 5:15:22 AM	135.474
	5/4/2006 7:15:22 AM	135.458
	5/4/2006 9:15:22 AM	135.432
	5/4/2006 11:15:22 AM	135.425
	5/4/2006 1:15:22 PM	135.432
	5/4/2006 3:15:22 PM	135.443
	5/4/2006 5:15:22 PM	135.449
	5/4/2006 7:15:22 PM	135.442
	5/4/2006 9:15:22 PM	135.427
	5/4/2006 11:15:22 PM	135.414
	5/5/2006 1:15:22 AM	135.415
	5/5/2006 3:15:22 AM	135.416
	5/5/2006 5:15:22 AM	135.402
MW-7		
TROLL		
	5/5/2006 7:15:22 AM	135.381
	5/5/2006 9:15:22 AM	135.362
	5/5/2006 11:15:22 AM	135.354
	5/5/2006 1:15:22 PM	135.355
	5/5/2006 3:15:22 PM	135.358
	5/5/2006 5:15:22 PM	135.353
	5/5/2006 7:15:22 PM	135.338
	5/5/2006 9:15:22 PM	135.308
	5/5/2006 11:15:22 PM	135.285
	5/6/2006 1:15:22 AM	135.27
	5/6/2006 3:15:22 AM	135.262
	5/6/2006 5:15:22 AM	135.251
	5/6/2006 7:15:22 AM	135.238
	5/6/2006 9:15:22 AM	135.227
	5/6/2006 11:15:22 AM	135.225
	5/6/2006 1:15:22 PM	135.224
	5/6/2006 3:15:22 PM	135.215
	5/6/2006 5:15:22 PM	135.207
	5/6/2006 7:15:22 PM	135.194
	5/6/2006 9:15:22 PM	135.152
	5/6/2006 11:15:22 PM	135.11
	5/7/2006 1:15:22 AM	135.079
	5/7/2006 3:15:22 AM	135.06
	5/7/2006 5:15:22 AM	135.042
	5/7/2006 7:15:22 AM	135.01
	5/7/2006 9:15:22 AM	134.989
	5/7/2006 11:15:22 AM	134.98
	5/7/2006 1:15:22 PM	134.985
	5/7/2006 3:15:22 PM	134.999
	5/7/2006 5:15:22 PM	135.004
	5/7/2006 7:15:22 PM	134.995
	5/7/2006 9:15:22 PM	134.971
	5/7/2006 11:15:22 PM	134.954
	5/8/2006 1:15:22 AM	134.949
	5/8/2006 3:15:22 AM	134.949
	5/8/2006 5:15:22 AM	134.939
	5/8/2006 7:15:22 AM	134.918
	5/8/2006 9:15:22 AM	134.906
	5/8/2006 11:15:22 AM	134.907
TROLL-rec		
	5/8/2006 1:00:00 PM	134.915
	5/8/2006 1:00:00 PM	134.916
	5/8/2006 1:00:01 PM	134.913
	5/8/2006 1:00:01 PM	134.915
	5/8/2006 1:00:01 PM	134.913
	5/8/2006 1:00:01 PM	134.914
	5/8/2006 1:00:02 PM	134.912

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
MW-7			**MW-7**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:02 PM	134.917		5/8/2006 1:00:34 PM	134.914
	5/8/2006 1:00:02 PM	134.913		5/8/2006 1:00:36 PM	134.914
	5/8/2006 1:00:02 PM	134.914		5/8/2006 1:00:38 PM	134.915
	5/8/2006 1:00:03 PM	134.911		5/8/2006 1:00:40 PM	134.913
	5/8/2006 1:00:03 PM	134.913		5/8/2006 1:00:42 PM	134.912
	5/8/2006 1:00:03 PM	134.912		5/8/2006 1:00:45 PM	134.915
	5/8/2006 1:00:03 PM	134.911		5/8/2006 1:00:48 PM	134.913
	5/8/2006 1:00:04 PM	134.912		5/8/2006 1:00:50 PM	134.914
	5/8/2006 1:00:04 PM	134.91		5/8/2006 1:00:53 PM	134.913
	5/8/2006 1:00:04 PM	134.909		5/8/2006 1:00:57 PM	134.914
	5/8/2006 1:00:04 PM	134.911		5/8/2006 1:01:00 PM	134.914
	5/8/2006 1:00:05 PM	134.913		5/8/2006 1:01:04 PM	134.917
	5/8/2006 1:00:05 PM	134.912		5/8/2006 1:01:07 PM	134.914
	5/8/2006 1:00:05 PM	134.912		5/8/2006 1:01:11 PM	134.914
	5/8/2006 1:00:05 PM	134.911		5/8/2006 1:01:16 PM	134.915
	5/8/2006 1:00:06 PM	134.913		5/8/2006 1:01:20 PM	134.915
	5/8/2006 1:00:06 PM	134.911		5/8/2006 1:01:25 PM	134.914
	5/8/2006 1:00:06 PM	134.913		5/8/2006 1:01:30 PM	134.915
	5/8/2006 1:00:06 PM	134.912		5/8/2006 1:01:35 PM	134.915
	5/8/2006 1:00:07 PM	134.911		5/8/2006 1:01:41 PM	134.915
	5/8/2006 1:00:07 PM	134.911		5/8/2006 1:01:47 PM	134.915
	5/8/2006 1:00:08 PM	134.911		5/8/2006 1:01:53 PM	134.914
	5/8/2006 1:00:08 PM	134.91		5/8/2006 1:01:59 PM	134.915
	5/8/2006 1:00:08 PM	134.913		5/8/2006 1:02:07 PM	134.916
	5/8/2006 1:00:09 PM	134.911		5/8/2006 1:02:14 PM	134.914
	5/8/2006 1:00:09 PM	134.912		5/8/2006 1:02:22 PM	134.915
	5/8/2006 1:00:10 PM	134.912		5/8/2006 1:02:31 PM	134.916
	5/8/2006 1:00:11 PM	134.912		5/8/2006 1:02:40 PM	134.912
	5/8/2006 1:00:11 PM	134.912		5/8/2006 1:02:49 PM	134.916
	5/8/2006 1:00:12 PM	134.913		5/8/2006 1:02:59 PM	134.915
	5/8/2006 1:00:13 PM	134.914		5/8/2006 1:03:10 PM	134.916
	5/8/2006 1:00:13 PM	134.913		5/8/2006 1:03:21 PM	134.915
	5/8/2006 1:00:14 PM	134.916		5/8/2006 1:03:33 PM	134.916
	5/8/2006 1:00:15 PM	134.914		5/8/2006 1:03:46 PM	134.915
	5/8/2006 1:00:16 PM	134.914		5/8/2006 1:03:59 PM	134.915
	5/8/2006 1:00:17 PM	134.912		5/8/2006 1:04:13 PM	134.917
	5/8/2006 1:00:18 PM	134.913		5/8/2006 1:04:28 PM	134.915
	5/8/2006 1:00:19 PM	134.914		5/8/2006 1:04:44 PM	134.92
	5/8/2006 1:00:20 PM	134.914		5/8/2006 1:05:01 PM	134.916
	5/8/2006 1:00:21 PM	134.914		5/8/2006 1:05:19 PM	134.916
	5/8/2006 1:00:23 PM	134.915		5/8/2006 1:05:37 PM	134.916
	5/8/2006 1:00:24 PM	134.913		5/8/2006 1:05:58 PM	134.914
	5/8/2006 1:00:25 PM	134.913		5/8/2006 1:06:19 PM	134.916
	5/8/2006 1:00:27 PM	134.914		5/8/2006 1:06:41 PM	134.916
	5/8/2006 1:00:28 PM	134.915		5/8/2006 1:07:05 PM	134.912
	5/8/2006 1:00:30 PM	134.913		5/8/2006 1:07:30 PM	134.914
	5/8/2006 1:00:32 PM	134.914		5/8/2006 1:07:56 PM	134.915

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
MW-7			**MW-7**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:08:25 PM	134.915		5/8/2006 3:06:00 PM	134.93
	5/8/2006 1:08:55 PM	134.915		5/8/2006 3:13:00 PM	134.931
	5/8/2006 1:09:26 PM	134.916		5/8/2006 3:21:00 PM	134.931
	5/8/2006 1:10:00 PM	134.911		5/8/2006 3:30:00 PM	134.935
	5/8/2006 1:10:36 PM	134.915		5/8/2006 3:38:00 PM	134.934
	5/8/2006 1:11:12 PM	134.916		5/8/2006 3:48:00 PM	134.937
	5/8/2006 1:11:54 PM	134.916		5/8/2006 3:58:00 PM	134.937
	5/8/2006 1:12:36 PM	134.914		5/8/2006 4:08:00 PM	134.939
	5/8/2006 1:13:18 PM	134.915		5/8/2006 4:19:00 PM	134.94
	5/8/2006 1:14:06 PM	134.916		5/8/2006 4:31:00 PM	134.942
	5/8/2006 1:15:00 PM	134.917		5/8/2006 4:44:00 PM	134.945
	5/8/2006 1:15:48 PM	134.916		5/8/2006 4:57:00 PM	134.944
	5/8/2006 1:16:48 PM	134.917		5/8/2006 5:11:00 PM	134.945
	5/8/2006 1:17:48 PM	134.917		5/8/2006 5:26:00 PM	134.946
	5/8/2006 1:18:48 PM	134.917		5/8/2006 5:42:00 PM	134.945
	5/8/2006 1:19:54 PM	134.918		5/8/2006 5:58:00 PM	134.947
	5/8/2006 1:21:06 PM	134.918		5/8/2006 6:16:00 PM	134.946
	5/8/2006 1:22:24 PM	134.916		5/8/2006 6:35:00 PM	134.946
	5/8/2006 1:23:42 PM	134.916		5/8/2006 6:55:00 PM	134.943
	5/8/2006 1:25:06 PM	134.918		5/8/2006 7:16:00 PM	134.94
	5/8/2006 1:26:36 PM	134.916		5/8/2006 7:38:00 PM	134.938
	5/8/2006 1:28:12 PM	134.918		5/8/2006 8:02:00 PM	134.939
	5/8/2006 1:29:48 PM	134.918		5/8/2006 8:27:00 PM	134.938
	5/8/2006 1:31:36 PM	134.918		5/8/2006 8:53:00 PM	134.94
	5/8/2006 1:33:30 PM	134.918		5/8/2006 9:21:00 PM	134.941
	5/8/2006 1:35:30 PM	134.92		5/8/2006 9:51:00 PM	134.939
	5/8/2006 1:37:36 PM	134.92		5/8/2006 10:22:00 PM	134.942
	5/8/2006 1:39:48 PM	134.92		5/8/2006 10:56:00 PM	134.945
	5/8/2006 1:42:12 PM	134.921		5/8/2006 11:31:00 PM	134.948
	5/8/2006 1:44:42 PM	134.919		5/9/2006 12:08:00 AM	134.955
	5/8/2006 1:47:18 PM	134.92		5/9/2006 12:48:00 AM	134.959
	5/8/2006 1:50:06 PM	134.921		5/9/2006 1:30:00 AM	134.965
	5/8/2006 1:53:06 PM	134.92		5/9/2006 2:14:00 AM	134.97
	5/8/2006 1:56:12 PM	134.923		5/9/2006 3:01:00 AM	134.978
	5/8/2006 1:59:36 PM	134.923		5/9/2006 3:51:00 AM	134.983
	5/8/2006 2:03:06 PM	134.921		5/9/2006 4:44:00 AM	134.985
	5/8/2006 2:06:48 PM	134.922		5/9/2006 5:40:00 AM	134.985
	5/8/2006 2:10:48 PM	134.923		5/9/2006 6:40:00 AM	134.982
	5/8/2006 2:15:00 PM	134.924		5/9/2006 7:40:00 AM	134.988
	5/8/2006 2:19:24 PM	134.925		5/9/2006 8:50:00 AM	134.995
	5/8/2006 2:24:06 PM	134.925		5/9/2006 10:00:00 AM	134.999
	5/8/2006 2:29:06 PM	134.924		5/9/2006 11:10:00 AM	135.007
	5/8/2006 2:34:24 PM	134.928		5/9/2006 12:30:00 PM	135.031
	5/8/2006 2:40:00 PM	134.928		5/9/2006 2:00:00 PM	135.045
	5/8/2006 2:46:00 PM	134.928		5/9/2006 3:20:00 PM	135.065
	5/8/2006 2:52:00 PM	134.929		5/9/2006 5:00:00 PM	135.088
	5/8/2006 2:59:00 PM	134.93		5/9/2006 6:40:00 PM	135.105

Well	Date and Time	GWE (ft)
MW-7		
TROLL-rec		
	5/9/2006 8:20:00 PM	135.105
	5/9/2006 10:10:00 PM	135.103
	5/10/2006 12:10:00 AM	135.109
	5/10/2006 2:10:00 AM	135.121
	5/10/2006 4:10:00 AM	135.131
	5/10/2006 6:10:00 AM	135.13
	5/10/2006 8:10:00 AM	135.113
	5/10/2006 10:10:00 AM	135.107
	5/10/2006 12:10:00 PM	135.102
	5/10/2006 2:10:00 PM	135.105
	5/10/2006 4:10:00 PM	135.115
	5/10/2006 6:10:00 PM	135.117
	5/10/2006 8:10:00 PM	135.119
	5/10/2006 10:10:00 PM	135.123
	5/11/2006 12:10:00 AM	135.127
	5/11/2006 2:10:00 AM	135.139
	5/11/2006 4:10:00 AM	135.15
	5/11/2006 6:10:00 AM	135.147
	5/11/2006 8:10:00 AM	135.145
	5/11/2006 10:10:00 AM	135.139
	5/11/2006 12:10:00 PM	135.136
	5/11/2006 2:10:00 PM	135.149
	5/11/2006 4:10:00 PM	135.166
	5/11/2006 6:10:00 PM	135.175
	5/11/2006 8:10:00 PM	135.176
	5/11/2006 10:10:00 PM	135.176
	5/12/2006 12:10:00 AM	135.184
	5/12/2006 2:10:00 AM	135.199
	5/12/2006 4:10:00 AM	135.223
	5/12/2006 6:10:00 AM	135.228
	5/12/2006 8:10:00 AM	135.225
	5/12/2006 10:10:00 AM	135.223
	5/12/2006 12:10:00 PM	135.22
	5/12/2006 2:10:00 PM	135.23
	5/12/2006 4:10:00 PM	135.243
	5/12/2006 6:10:00 PM	135.249
	5/12/2006 8:10:00 PM	135.253
	5/12/2006 10:10:00 PM	135.254
	5/13/2006 12:10:00 AM	135.267
	5/13/2006 2:10:00 AM	135.278
	5/13/2006 4:10:00 AM	135.295
	5/13/2006 6:10:00 AM	135.291
	5/13/2006 8:10:00 AM	135.289
	5/13/2006 10:10:00 AM	135.277
	5/13/2006 12:10:00 PM	135.268
	5/13/2006 2:10:00 PM	135.27
	5/13/2006 4:10:00 PM	135.301
MW-7		
TROLL-rec		
	5/13/2006 6:10:00 PM	135.312
	5/13/2006 8:10:00 PM	135.308
	5/13/2006 10:10:00 PM	135.317
	5/14/2006 12:10:00 AM	135.334
	5/14/2006 2:10:00 AM	135.355
	5/14/2006 4:10:00 AM	135.381
	5/14/2006 6:10:00 AM	135.405
	5/14/2006 8:10:00 AM	135.419
	5/14/2006 10:10:00 AM	135.433
	5/14/2006 12:10:00 PM	135.433
	5/14/2006 2:10:00 PM	135.454
	5/14/2006 4:10:00 PM	135.479
	5/14/2006 6:10:00 PM	135.495
	5/14/2006 8:10:00 PM	135.513
	5/14/2006 10:10:00 PM	135.528
	5/15/2006 12:10:00 AM	135.545
	5/15/2006 2:10:00 AM	135.565
	5/15/2006 4:10:00 AM	135.592
	5/15/2006 6:10:00 AM	135.618
	5/15/2006 8:10:00 AM	135.639
	5/15/2006 10:10:00 AM	135.659
	5/15/2006 12:10:00 PM	135.68
MW-8R		
Manual		
	4/14/2006 2:43:00 PM	120.08
	4/21/2006 11:20:00 AM	120.16
	4/25/2006 10:30:00 AM	120.28
	4/26/2006 9:47:00 AM	120.25
	4/27/2006 12:25:00 PM	120.19
	4/27/2006 5:10:00 PM	120.17
	4/28/2006 12:35:00 PM	120.11
	4/28/2006 3:54:00 PM	120.11
	4/29/2006 11:15:00 AM	120.01
	4/30/2006 11:05:00 AM	119.92
	5/1/2006 10:00:00 AM	119.82
	5/2/2006 10:55:00 AM	119.75
	5/3/2006 8:20:00 AM	119.75
	5/4/2006 11:25:00 AM	119.69
	5/5/2006 11:11:00 AM	119.62
	5/6/2006 12:20:00 PM	119.53
	5/7/2006 11:25:00 AM	119.46
	5/8/2006 9:45:00 AM	119.36
	5/9/2006 1:04:00 PM	119.31
PZ-1		
Manual		
	4/21/2006 11:21:00 AM	131.91

Well	Date and Time	GWE (ft)
PZ-1		
Manual		
	4/25/2006 12:01:00 PM	132.12
	4/26/2006 9:46:00 AM	132.1
	4/26/2006 9:46:00 AM	132.1
	4/26/2006 10:25:00 AM	132.04
	4/26/2006 10:25:00 AM	132.04
	4/26/2006 1:57:00 PM	132.04
	4/26/2006 3:40:00 PM	132.1
	4/27/2006 10:30:00 AM	132.1
	4/27/2006 5:36:00 PM	132.08
	4/28/2006 11:39:00 AM	132.07
	4/28/2006 4:20:00 PM	132.07
	4/29/2006 1:20:00 PM	132.05
	4/30/2006 10:14:00 AM	132.04
	4/30/2006 4:04:00 PM	132.03
	5/1/2006 7:54:00 AM	132.02
	5/1/2006 12:58:00 PM	132.02
	5/2/2006 8:05:00 AM	132.02
	5/2/2006 2:30:00 PM	132.05
	5/3/2006 8:32:00 AM	132.11
	5/4/2006 3:03:00 PM	132.12
	5/5/2006 10:38:00 AM	132.11
	5/6/2006 10:56:00 AM	132.09
	5/7/2006 10:12:00 AM	132.05
	5/8/2006 8:50:00 AM	132.05
	5/8/2006 3:22:00 PM	132.04
	5/9/2006 11:20:00 AM	132.03
	5/10/2006 4:20:00 PM	132.13
	5/11/2006 9:30:00 AM	132.15
	5/12/2006 8:45:00 AM	132.15
PZ-10		
Manual		
	4/21/2006 10:40:00 AM	119.66
	4/25/2006 10:50:00 AM	119.75
	4/26/2006 9:37:00 AM	119.78
	4/26/2006 3:50:00 PM	119.71
	4/27/2006 10:15:00 AM	119.77
	4/27/2006 5:07:00 PM	119.77
	4/28/2006 10:58:00 AM	119.76
	4/28/2006 4:00:00 PM	119.74
	4/29/2006 12:55:00 PM	119.71
	4/30/2006 10:47:00 AM	119.71
	5/1/2006 8:20:00 AM	119.69
	5/2/2006 9:00:00 AM	119.65
	5/2/2006 3:00:00 PM	119.62
	5/3/2006 8:19:00 AM	119.6
	5/4/2006 1:15:00 PM	119.57
PZ-10		
Manual		
	5/5/2006 10:31:00 AM	119.57
	5/5/2006 3:00:00 PM	119.57
	5/6/2006 10:20:00 AM	119.56
	5/7/2006 10:33:00 AM	119.55
	5/8/2006 8:59:00 AM	119.54
	5/8/2006 3:09:00 PM	119.54
	5/9/2006 11:10:00 AM	119.52
	5/10/2006 4:10:00 PM	119.54
	5/11/2006 9:10:00 AM	119.52
	5/12/2006 8:20:00 AM	119.52
PZ-11		
Manual		
	4/25/2006 11:15:00 AM	127.64
	4/26/2006 9:53:00 AM	127.68
	4/26/2006 10:05:00 AM	127.56
	4/26/2006 2:00:00 PM	126.68
	4/26/2006 3:40:00 PM	126.26
	4/27/2006 10:35:00 AM	124.87
	4/27/2006 5:41:00 PM	124.87
	4/28/2006 2:45:00 PM	124.87
	4/30/2006 9:41:00 AM	124.87
	5/1/2006 7:45:00 AM	124.87
	5/2/2006 8:10:00 AM	124.87
	5/2/2006 2:25:00 PM	124.87
	5/3/2006 8:35:00 AM	124.87
	5/4/2006 1:20:00 PM	124.87
	5/5/2006 10:38:00 AM	124.87
	5/5/2006 3:19:00 PM	124.87
	5/6/2006 11:00:00 AM	124.87
	5/7/2006 10:09:00 AM	124.87
	5/8/2006 3:30:00 PM	124.87
	5/9/2006 10:45:00 AM	124.87
	5/10/2006 4:25:00 PM	124.87
	5/11/2006 9:35:00 AM	124.87
	5/12/2006 8:40:00 AM	124.87
PZ-2		
Manual		
	4/21/2006 9:30:00 AM	122.51
	4/25/2006 11:55:00 AM	121.7
	4/26/2006 9:05:00 AM	122.71
	4/26/2006 3:29:00 PM	122.69
	4/27/2006 9:45:00 AM	122.59
	4/27/2006 4:50:00 PM	122.59
	4/28/2006 10:42:00 AM	122.48
	4/28/2006 4:05:00 PM	122.5
	4/29/2006 12:40:00 PM	122.38

Well	Date and Time	GWE (ft)
PZ-2		
Manual		
	4/30/2006 9:59:00 AM	122.2
	4/30/2006 4:18:00 PM	122.21
	5/1/2006 8:05:00 AM	122.08
	5/1/2006 12:23:00 PM	122.07
	5/2/2006 8:49:00 AM	121.93
	5/2/2006 2:45:00 PM	121.96
	5/3/2006 8:06:00 AM	121.93
	5/4/2006 7:30:00 AM	121.72
	5/5/2006 10:16:00 AM	121.02
	5/5/2006 2:47:00 PM	120.95
	5/6/2006 10:36:00 AM	120.68
	5/7/2006 10:30:00 AM	120.36
	5/8/2006 8:38:00 AM	120.05
	5/8/2006 3:02:00 PM	120.01
	5/9/2006 10:58:00 AM	120.84
	5/10/2006 4:35:00 PM	121.87
	5/11/2006 8:47:00 AM	121.9
	5/12/2006 8:05:00 AM	121.93
PZ-3		
Manual		
	4/21/2006 11:20:00 AM	120.11
	4/25/2006 11:07:00 AM	120.2
	4/26/2006 9:37:00 AM	120.17
	4/27/2006 12:00:00 PM	120.13
	4/27/2006 4:30:00 PM	120.13
	4/28/2006 12:24:00 PM	120.09
	4/28/2006 3:43:00 PM	120.08
	4/29/2006 10:45:00 AM	120.02
	4/30/2006 10:51:00 AM	119.96
	5/1/2006 9:43:00 AM	119.9
	5/3/2006 8:12:00 AM	119.98
	5/4/2006 10:45:00 AM	120.02
	5/5/2006 11:40:00 AM	119.97
	5/7/2006 11:05:00 AM	119.78
	5/8/2006 9:20:00 AM	119.66
	5/9/2006 12:35:00 PM	119.58
	5/10/2006 4:58:00 PM	119.84
	5/11/2006 9:47:00 AM	119.83
	5/12/2006 9:00:00 AM	119.8
PZ-4		
Manual		
	4/21/2006 11:46:00 AM	128.98
	4/25/2006 11:30:00 AM	129.43
	4/26/2006 9:35:00 AM	129.38
	4/26/2006 2:04:00 PM	129.42
	4/26/2006 3:20:00 PM	129.5
PZ-4		
Manual		
	4/27/2006 10:30:00 AM	129.45
	4/27/2006 5:50:00 PM	129.43
	4/28/2006 2:30:00 PM	129.29
	4/29/2006 1:45:00 PM	129.14
	4/30/2006 4:40:00 PM	129.03
	5/1/2006 7:36:00 AM	128.96
	5/1/2006 12:52:00 PM	128.95
	5/2/2006 9:45:00 AM	128.93
	5/2/2006 2:20:00 PM	128.91
	5/3/2006 8:40:00 AM	129.08
	5/4/2006 1:30:00 PM	129.22
	5/5/2006 9:54:00 AM	129.17
	5/5/2006 3:28:00 PM	129.15
	5/6/2006 11:12:00 AM	129.08
	5/7/2006 10:06:00 AM	128.92
	5/8/2006 8:40:00 AM	128.82
	5/8/2006 3:29:00 PM	128.83
	5/9/2006 10:35:00 AM	128.79
	5/10/2006 4:06:00 PM	129.08
	5/11/2006 9:25:00 AM	129.09
	5/12/2006 8:35:00 AM	129.06
PZ-5		
Manual		
	4/21/2006 11:15:00 AM	115.56
	4/25/2006 11:20:00 AM	115.97
	4/26/2006 9:49:00 AM	115.91
	4/27/2006 12:30:00 PM	115.82
	4/27/2006 5:10:00 PM	115.81
	4/28/2006 12:38:00 PM	115.79
	4/28/2006 3:58:00 PM	115.75
	4/29/2006 11:44:00 AM	115.64
	4/30/2006 11:08:00 AM	115.6
	5/1/2006 10:03:00 AM	115.6
	5/2/2006 10:57:00 AM	115.66
	5/3/2006 8:22:00 AM	115.8
	5/4/2006 11:30:00 AM	115.88
	5/5/2006 11:09:00 AM	115.9
	5/6/2006 12:22:00 PM	115.81
	5/7/2006 11:28:00 AM	115.74
	5/8/2006 9:42:00 AM	115.71
	5/9/2006 1:11:00 PM	115.68
	5/10/2006 4:45:00 PM	116.08
	5/11/2006 10:13:00 AM	116.01
	5/12/2006 9:13:00 AM	116.39
PZ-6		
Manual		

Well	Date and Time	GWE (ft)
PZ-6		
Manual		
	4/21/2006 12:00:00 PM	137.02
	4/25/2006 11:45:00 AM	137.39
	4/26/2006 10:16:00 AM	137.42
	4/27/2006 12:50:00 PM	137.42
	4/27/2006 5:45:00 PM	137.42
	4/28/2006 12:57:00 PM	137.4
	4/28/2006 4:22:00 PM	137.41
	4/29/2006 12:00:00 PM	137.4
	4/30/2006 11:00:00 AM	137.39
	5/1/2006 9:02:00 AM	137.37
	5/2/2006 9:15:00 AM	137.38
	5/2/2006 3:30:00 PM	137.4
	5/3/2006 8:49:00 AM	137.51
	5/4/2006 12:30:00 PM	137.6
	5/5/2006 12:21:00 PM	137.63
	5/6/2006 3:00:00 PM	137.63
	5/7/2006 11:50:00 AM	137.63
	5/8/2006 10:00:00 AM	137.62
	5/9/2006 1:20:00 PM	137.58
	5/10/2006 5:20:00 PM	137.74
	5/11/2006 10:20:00 AM	137.77
	5/12/2006 9:25:00 AM	137.76
PZ-7		
Manual		
	4/21/2006 10:00:00 AM	125.04
	4/25/2006 10:40:00 AM	125.45
	4/26/2006 9:19:00 AM	125.43
	4/26/2006 3:36:00 PM	125.03
	4/27/2006 10:00:00 AM	124.1
	4/27/2006 4:59:00 PM	123.73
	4/28/2006 10:47:00 AM	123.43
	4/28/2006 3:45:00 PM	123.43
	4/29/2006	123.43
	4/30/2006 10:26:00 AM	123.43
	5/1/2006 8:10:00 AM	123.43
	5/2/2006 9:00:00 AM	123.43
	5/2/2006 2:50:00 PM	123.43
	5/3/2006 8:10:00 AM	123.43
	5/4/2006 7:40:00 AM	123.43
	5/5/2006 10:20:00 AM	123.43
	5/5/2006 2:50:00 PM	123.43
	5/7/2006 10:25:00 AM	123.43
	5/8/2006 8:40:00 AM	123.43
	5/9/2006 11:03:00 AM	123.43
	5/10/2006 4:31:00 PM	123.43
	5/11/2006 8:50:00 AM	123.43
PZ-7		
Manual		
	5/12/2006 8:10:00 AM	123.43
PZ-8		
Manual		
	4/21/2006 10:15:00 AM	122.54
	4/25/2006 10:43:00 AM	122.71
	4/26/2006 9:30:00 AM	122.68
	4/26/2006 3:41:00 PM	122.72
	4/27/2006 10:10:00 AM	122.63
	4/27/2006 5:01:00 PM	122.6
	4/28/2006 10:49:00 AM	122.55
	4/28/2006 3:50:00 PM	122.54
	4/29/2006 1:00:00 PM	122.45
	4/30/2006 10:29:00 AM	122.38
	5/1/2006 8:26:00 AM	122.26
	5/2/2006 9:05:00 AM	122.21
	5/2/2006 2:55:00 PM	122.2
	5/3/2006 8:25:00 AM	122.22
	5/4/2006 7:45:00 AM	122.15
	5/5/2006 10:23:00 AM	122.08
	5/5/2006 2:55:00 PM	122.05
	5/6/2006 10:31:00 AM	121.98
	5/7/2006 10:28:00 AM	121.89
	5/8/2006 8:50:00 AM	121.82
	5/8/2006 3:06:00 PM	121.81
	5/9/2006 11:05:00 AM	121.76
	5/10/2006 4:15:00 PM	121.93
	5/11/2006 8:55:00 AM	121.92
	5/12/2006 8:15:00 AM	121.94
PZ-9		
Manual		
	4/14/2006 11:03:00 AM	122.92
	4/21/2006 9:40:00 AM	122.92
	4/25/2006 10:32:00 AM	123.01
	4/26/2006 9:11:00 AM	123.02
	4/26/2006 3:21:00 PM	122.88
	4/27/2006 9:50:00 AM	122.9
	4/27/2006 4:53:00 PM	122.86
	4/28/2006 10:36:00 AM	122.79
	4/28/2006 4:11:00 PM	122.77
	4/29/2006 12:43:00 PM	122.62
	4/30/2006 9:54:00 AM	122.43
	4/30/2006 4:20:00 PM	122.38
	5/1/2006 8:02:00 AM	121.99
	5/1/2006 12:26:00 PM	122.04
	5/2/2006 8:42:00 AM	121.93
	5/2/2006 2:40:00 PM	121.91

Well	Date and Time	GWE (ft)
PZ-9		
Manual		
	5/3/2006 8:01:00 AM	121.88
	5/4/2006 7:20:00 AM	121.69
	5/5/2006 10:13:00 AM	121.16
	5/5/2006 2:43:00 PM	121.11
	5/6/2006 10:40:00 AM	120.81
	5/7/2006 10:16:00 AM	120.58
	5/8/2006 8:40:00 AM	120.29
	5/8/2006 3:18:00 PM	120.27
	5/9/2006 10:55:00 AM	122.59
	5/10/2006 4:50:00 PM	121.8
	5/11/2006 8:45:00 AM	121.9
	5/12/2006 8:00:00 AM	122.18
SEA-10		
Manual		
	4/14/2006 1:25:00 PM	128.04
	4/21/2006 10:00:00 AM	127.84
	4/25/2006 12:45:00 PM	127.89
	4/26/2006 9:04:00 AM	127.87
	4/28/2006 11:45:00 AM	126.37
	4/28/2006 3:20:00 PM	126.16
	4/30/2006 10:20:00 AM	124.84
	5/1/2006 9:10:00 AM	124.2
	5/4/2006 12:20:00 PM	122.73
	5/5/2006 10:59:00 AM	122.4
	5/9/2006 12:06:00 PM	121.59
TROLL		
	4/26/2006 12:05:00 PM	127.87
	4/26/2006 12:05:00 PM	127.87
	4/26/2006 12:05:00 PM	127.871
	4/26/2006 12:05:01 PM	127.874
	4/26/2006 12:05:01 PM	127.873
	4/26/2006 12:05:01 PM	127.874
	4/26/2006 12:05:01 PM	127.873
	4/26/2006 12:05:02 PM	127.874
	4/26/2006 12:05:02 PM	127.875
	4/26/2006 12:05:02 PM	127.871
	4/26/2006 12:05:02 PM	127.872
	4/26/2006 12:05:03 PM	127.87
	4/26/2006 12:05:03 PM	127.871
	4/26/2006 12:05:03 PM	127.869
	4/26/2006 12:05:03 PM	127.869
	4/26/2006 12:05:04 PM	127.869
	4/26/2006 12:05:04 PM	127.869
	4/26/2006 12:05:04 PM	127.87
	4/26/2006 12:05:04 PM	127.872
	4/26/2006 12:05:05 PM	127.87
SEA-10		
TROLL		
	4/26/2006 12:05:05 PM	127.87
	4/26/2006 12:05:05 PM	127.871
	4/26/2006 12:05:05 PM	127.871
	4/26/2006 12:05:06 PM	127.871
	4/26/2006 12:05:06 PM	127.87
	4/26/2006 12:05:06 PM	127.87
	4/26/2006 12:05:07 PM	127.87
	4/26/2006 12:05:07 PM	127.871
	4/26/2006 12:05:08 PM	127.87
	4/26/2006 12:05:08 PM	127.869
	4/26/2006 12:05:08 PM	127.868
	4/26/2006 12:05:09 PM	127.869
	4/26/2006 12:05:09 PM	127.87
	4/26/2006 12:05:10 PM	127.869
	4/26/2006 12:05:11 PM	127.867
	4/26/2006 12:05:11 PM	127.869
	4/26/2006 12:05:12 PM	127.872
	4/26/2006 12:05:13 PM	127.862
	4/26/2006 12:05:13 PM	127.869
	4/26/2006 12:05:14 PM	127.861
	4/26/2006 12:05:15 PM	127.876
	4/26/2006 12:05:16 PM	127.877
	4/26/2006 12:05:17 PM	127.868
	4/26/2006 12:05:18 PM	127.867
	4/26/2006 12:05:19 PM	127.872
	4/26/2006 12:05:20 PM	127.87
	4/26/2006 12:05:21 PM	127.87
	4/26/2006 12:05:23 PM	127.87
	4/26/2006 12:05:24 PM	127.872
	4/26/2006 12:05:25 PM	127.871
	4/26/2006 12:05:27 PM	127.873
	4/26/2006 12:05:28 PM	127.898
	4/26/2006 12:05:30 PM	127.906
	4/26/2006 12:05:32 PM	127.885
	4/26/2006 12:05:34 PM	127.899
	4/26/2006 12:05:36 PM	127.899
	4/26/2006 12:05:38 PM	127.914
	4/26/2006 12:05:40 PM	127.869
	4/26/2006 12:05:42 PM	127.883
	4/26/2006 12:05:45 PM	127.884
	4/26/2006 12:05:48 PM	127.881
	4/26/2006 12:05:50 PM	127.879
	4/26/2006 12:05:53 PM	127.878
	4/26/2006 12:05:57 PM	127.876
	4/26/2006 12:06:00 PM	127.874
	4/26/2006 12:06:04 PM	127.843
	4/26/2006 12:06:07 PM	127.852

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-10			**SEA-10**		
TROLL			TROLL		
	4/26/2006 12:06:11 PM	127.855		4/26/2006 12:22:48 PM	127.879
	4/26/2006 12:06:16 PM	127.86		4/26/2006 12:23:48 PM	127.874
	4/26/2006 12:06:20 PM	127.863		4/26/2006 12:24:54 PM	127.87
	4/26/2006 12:06:25 PM	127.865		4/26/2006 12:26:06 PM	127.867
	4/26/2006 12:06:30 PM	127.878		4/26/2006 12:27:24 PM	127.86
	4/26/2006 12:06:35 PM	127.862		4/26/2006 12:28:42 PM	127.867
	4/26/2006 12:06:41 PM	127.863		4/26/2006 12:30:06 PM	127.861
	4/26/2006 12:06:47 PM	127.861		4/26/2006 12:31:36 PM	127.868
	4/26/2006 12:06:53 PM	127.865		4/26/2006 12:33:12 PM	127.868
	4/26/2006 12:06:59 PM	127.871		4/26/2006 12:34:48 PM	127.871
	4/26/2006 12:07:07 PM	127.88		4/26/2006 12:36:36 PM	127.869
	4/26/2006 12:07:14 PM	127.86		4/26/2006 12:38:30 PM	127.868
	4/26/2006 12:07:22 PM	127.859		4/26/2006 12:40:30 PM	127.834
	4/26/2006 12:07:31 PM	127.871		4/26/2006 12:42:36 PM	127.87
	4/26/2006 12:07:40 PM	127.863		4/26/2006 12:44:48 PM	127.871
	4/26/2006 12:07:49 PM	127.866		4/26/2006 12:47:12 PM	127.867
	4/26/2006 12:07:59 PM	127.877		4/26/2006 12:49:42 PM	127.869
	4/26/2006 12:08:10 PM	127.866		4/26/2006 12:52:18 PM	127.869
	4/26/2006 12:08:21 PM	127.864		4/26/2006 12:55:06 PM	127.868
	4/26/2006 12:08:33 PM	127.872		4/26/2006 12:58:06 PM	127.87
	4/26/2006 12:08:46 PM	127.867		4/26/2006 1:01:12 PM	127.862
	4/26/2006 12:08:59 PM	127.882		4/26/2006 1:04:36 PM	127.869
	4/26/2006 12:09:13 PM	127.868		4/26/2006 1:08:06 PM	127.867
	4/26/2006 12:09:28 PM	127.879		4/26/2006 1:11:48 PM	127.867
	4/26/2006 12:09:44 PM	127.866		4/26/2006 1:15:48 PM	127.865
	4/26/2006 12:10:01 PM	127.865		4/26/2006 1:20:00 PM	127.866
	4/26/2006 12:10:19 PM	127.868		4/26/2006 1:24:24 PM	127.861
	4/26/2006 12:10:37 PM	127.873		4/26/2006 1:29:06 PM	127.86
	4/26/2006 12:10:58 PM	127.872		4/26/2006 1:34:06 PM	127.862
	4/26/2006 12:11:19 PM	127.871		4/26/2006 1:39:24 PM	127.861
	4/26/2006 12:11:41 PM	127.867		4/26/2006 1:45:00 PM	127.86
	4/26/2006 12:12:05 PM	127.883		4/26/2006 1:51:00 PM	127.859
	4/26/2006 12:12:30 PM	127.873		4/26/2006 1:57:00 PM	127.853
	4/26/2006 12:12:56 PM	127.878		4/26/2006 2:04:00 PM	127.859
	4/26/2006 12:13:25 PM	127.873		4/26/2006 2:11:00 PM	127.855
	4/26/2006 12:13:55 PM	127.876		4/26/2006 2:18:00 PM	127.855
	4/26/2006 12:14:26 PM	127.871		4/26/2006 2:26:00 PM	127.854
	4/26/2006 12:15:00 PM	127.868		4/26/2006 2:35:00 PM	127.851
	4/26/2006 12:15:36 PM	127.871		4/26/2006 2:43:00 PM	127.851
	4/26/2006 12:16:12 PM	127.866		4/26/2006 2:53:00 PM	127.847
	4/26/2006 12:16:54 PM	127.878		4/26/2006 3:03:00 PM	127.847
	4/26/2006 12:17:36 PM	127.874		4/26/2006 3:13:00 PM	127.847
	4/26/2006 12:18:18 PM	127.868		4/26/2006 3:24:00 PM	127.84
	4/26/2006 12:19:06 PM	127.862		4/26/2006 3:36:00 PM	127.843
	4/26/2006 12:20:00 PM	127.868		4/26/2006 3:49:00 PM	127.838
	4/26/2006 12:20:48 PM	127.87		4/26/2006 4:02:00 PM	127.834
	4/26/2006 12:21:48 PM	127.869		4/26/2006 4:16:00 PM	127.833

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-10			**SEA-10**		
TROLL			TROLL		
	4/26/2006 4:31:00 PM	127.83		4/28/2006 9:15:21 PM	126.046
	4/26/2006 4:47:00 PM	127.827		4/28/2006 11:15:21 PM	125.979
	4/26/2006 5:03:00 PM	127.824		4/29/2006 1:15:21 AM	125.912
	4/26/2006 5:21:00 PM	127.82		4/29/2006 3:15:21 AM	125.842
	4/26/2006 5:40:00 PM	127.818		4/29/2006 5:15:21 AM	125.775
	4/26/2006 6:00:00 PM	127.81		4/29/2006 7:15:21 AM	125.705
	4/26/2006 6:21:00 PM	127.806		4/29/2006 9:15:21 AM	125.64
	4/26/2006 6:43:00 PM	127.799		4/29/2006 11:15:21 AM	125.576
	4/26/2006 7:07:00 PM	127.788		4/29/2006 1:15:21 PM	125.509
	4/26/2006 7:32:00 PM	127.782		4/29/2006 3:15:21 PM	125.449
	4/26/2006 7:58:00 PM	127.771		4/29/2006 5:15:21 PM	125.385
	4/26/2006 8:26:00 PM	127.76		4/29/2006 7:15:21 PM	125.32
	4/26/2006 8:56:00 PM	127.75		4/29/2006 9:15:21 PM	125.259
	4/26/2006 9:27:00 PM	127.734		4/29/2006 11:15:21 PM	125.196
	4/26/2006 10:01:00 PM	127.722		4/30/2006 1:15:21 AM	125.136
	4/26/2006 10:36:00 PM	127.709		4/30/2006 3:15:21 AM	125.076
	4/26/2006 11:13:00 PM	127.694		4/30/2006 5:15:21 AM	125.012
	4/26/2006 11:53:00 PM	127.675		4/30/2006 7:15:21 AM	124.952
	4/27/2006 12:35:00 AM	127.654		4/30/2006 9:15:21 AM	124.892
	4/27/2006 1:19:00 AM	127.634		4/30/2006 11:15:21 AM	124.834
	4/27/2006 2:06:00 AM	127.611		4/30/2006 1:15:21 PM	124.778
	4/27/2006 2:56:00 AM	127.585		4/30/2006 3:15:21 PM	124.719
	4/27/2006 3:49:00 AM	127.561		4/30/2006 5:15:21 PM	124.661
	4/27/2006 4:45:00 AM	127.53		4/30/2006 7:15:21 PM	124.604
	4/27/2006 5:45:00 AM	127.494		4/30/2006 9:15:21 PM	124.548
	4/27/2006 6:45:00 AM	127.457		4/30/2006 11:15:21 PM	124.487
	4/27/2006 7:55:00 AM	127.418		5/1/2006 1:15:21 AM	124.43
	4/27/2006 9:05:00 AM	127.378		5/1/2006 3:15:21 AM	124.375
	4/27/2006 10:15:00 AM	127.336		5/1/2006 5:15:21 AM	124.323
	4/27/2006 11:35:00 AM	127.29		5/1/2006 7:15:21 AM	124.266
	4/27/2006 1:05:00 PM	127.238		5/1/2006 9:15:21 AM	124.21
	4/27/2006 2:25:00 PM	127.19		5/1/2006 11:15:21 AM	124.159
	4/27/2006 4:05:00 PM	127.128		5/1/2006 1:15:21 PM	124.109
	4/27/2006 5:45:00 PM	127.063		5/1/2006 3:15:21 PM	124.057
	4/27/2006 7:25:00 PM	126.994		5/1/2006 5:15:21 PM	124.005
	4/27/2006 9:15:00 PM	126.921		5/1/2006 7:15:21 PM	123.957
	4/27/2006 11:15:00 PM	126.845		5/1/2006 9:15:21 PM	123.908
	4/28/2006 1:15:00 AM	126.769		5/1/2006 11:15:21 PM	123.865
	4/28/2006 3:15:00 AM	126.691		5/2/2006 1:15:21 AM	123.82
	4/28/2006 5:15:00 AM	126.612		5/2/2006 3:15:21 AM	123.775
	4/28/2006 7:15:00 AM	126.537		5/2/2006 5:15:21 AM	123.732
	4/28/2006 9:15:00 AM	126.462		5/2/2006 7:15:21 AM	123.688
	4/28/2006 11:15:00 AM	126.389		5/2/2006 9:15:21 AM	123.645
	4/28/2006 1:15:21 PM	126.324		5/2/2006 11:15:21 AM	123.604
	4/28/2006 3:15:21 PM	126.254		5/2/2006 1:15:21 PM	123.562
	4/28/2006 5:15:21 PM	126.187		5/2/2006 3:15:21 PM	123.522
	4/28/2006 7:15:21 PM	126.116		5/2/2006 5:15:21 PM	123.482

Well	Date and Time	GWE (ft)
SEA-10		
TROLL		
	5/2/2006 7:15:21 PM	123.441
	5/2/2006 9:15:21 PM	123.403
	5/2/2006 11:15:21 PM	123.362
	5/3/2006 1:15:21 AM	123.326
	5/3/2006 3:15:21 AM	123.287
	5/3/2006 5:15:21 AM	123.251
	5/3/2006 7:15:21 AM	123.213
	5/3/2006 9:15:21 AM	123.178
	5/3/2006 11:15:21 AM	123.142
	5/3/2006 1:15:21 PM	123.106
	5/3/2006 3:15:21 PM	123.066
	5/3/2006 5:15:21 PM	123.032
	5/3/2006 7:15:21 PM	123
	5/3/2006 9:15:21 PM	122.965
	5/3/2006 11:15:21 PM	122.935
	5/4/2006 1:15:21 AM	122.905
	5/4/2006 3:15:21 AM	122.876
	5/4/2006 5:15:21 AM	122.845
	5/4/2006 7:15:21 AM	122.81
	5/4/2006 9:15:21 AM	122.783
	5/4/2006 11:15:21 AM	122.753
	5/4/2006 1:15:21 PM	122.723
	5/4/2006 3:15:21 PM	122.693
	5/4/2006 5:15:21 PM	122.663
	5/4/2006 7:15:21 PM	122.633
	5/4/2006 9:15:21 PM	122.606
	5/4/2006 11:15:21 PM	122.577
	5/5/2006 1:15:21 AM	122.553
	5/5/2006 3:15:21 AM	122.524
	5/5/2006 5:15:21 AM	122.495
	5/5/2006 7:15:21 AM	122.465
	5/5/2006 9:15:21 AM	122.437
	5/5/2006 11:15:21 AM	122.41
	5/5/2006 1:15:21 PM	122.381
	5/5/2006 3:15:21 PM	122.357
	5/5/2006 5:15:21 PM	122.329
	5/5/2006 7:15:21 PM	122.301
	5/5/2006 9:15:21 PM	122.271
	5/5/2006 11:15:21 PM	122.245
	5/6/2006 1:15:21 AM	122.218
	5/6/2006 3:15:21 AM	122.191
	5/6/2006 5:15:21 AM	122.164
	5/6/2006 7:15:21 AM	122.135
	5/6/2006 9:15:21 AM	122.111
	5/6/2006 11:15:21 AM	122.084
	5/6/2006 1:15:21 PM	122.056
	5/6/2006 3:15:21 PM	122.031
SEA-10		
TROLL		
	5/6/2006 5:15:21 PM	122.005
	5/6/2006 7:15:21 PM	121.976
	5/6/2006 9:15:21 PM	121.948
	5/6/2006 11:15:21 PM	121.922
	5/7/2006 1:15:21 AM	121.892
	5/7/2006 3:15:21 AM	121.864
	5/7/2006 5:15:21 AM	121.838
	5/7/2006 7:15:21 AM	121.805
	5/7/2006 9:15:21 AM	121.78
	5/7/2006 11:15:21 AM	121.754
	5/7/2006 1:15:21 PM	121.73
	5/7/2006 3:15:21 PM	121.707
	5/7/2006 5:15:21 PM	121.683
	5/7/2006 7:15:21 PM	121.656
	5/7/2006 9:15:21 PM	121.629
	5/7/2006 11:15:21 PM	121.604
	5/8/2006 1:15:21 AM	121.581
	5/8/2006 3:15:21 AM	121.557
	5/8/2006 5:15:21 AM	121.529
	5/8/2006 7:15:21 AM	121.504
	5/8/2006 9:15:21 AM	121.479
	5/8/2006 11:15:21 AM	121.456
TROLL-rec		
	5/8/2006 1:00:00 PM	121.461
	5/8/2006 1:00:00 PM	121.459
	5/8/2006 1:00:00 PM	121.461
	5/8/2006 1:00:01 PM	121.461
	5/8/2006 1:00:01 PM	121.46
	5/8/2006 1:00:01 PM	121.461
	5/8/2006 1:00:01 PM	121.459
	5/8/2006 1:00:02 PM	121.46
	5/8/2006 1:00:02 PM	121.461
	5/8/2006 1:00:02 PM	121.461
	5/8/2006 1:00:02 PM	121.46
	5/8/2006 1:00:03 PM	121.46
	5/8/2006 1:00:03 PM	121.458
	5/8/2006 1:00:03 PM	121.459
	5/8/2006 1:00:03 PM	121.459
	5/8/2006 1:00:04 PM	121.459
	5/8/2006 1:00:04 PM	121.46
	5/8/2006 1:00:04 PM	121.46
	5/8/2006 1:00:04 PM	121.459
	5/8/2006 1:00:05 PM	121.459
	5/8/2006 1:00:05 PM	121.46
	5/8/2006 1:00:05 PM	121.461
	5/8/2006 1:00:05 PM	121.459
	5/8/2006 1:00:06 PM	121.459

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-10			**SEA-10**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:06 PM	121.459		5/8/2006 1:01:30 PM	121.459
	5/8/2006 1:00:06 PM	121.46		5/8/2006 1:01:35 PM	121.461
	5/8/2006 1:00:07 PM	121.461		5/8/2006 1:01:41 PM	121.46
	5/8/2006 1:00:07 PM	121.46		5/8/2006 1:01:47 PM	121.461
	5/8/2006 1:00:08 PM	121.461		5/8/2006 1:01:53 PM	121.461
	5/8/2006 1:00:08 PM	121.461		5/8/2006 1:01:59 PM	121.46
	5/8/2006 1:00:08 PM	121.46		5/8/2006 1:02:07 PM	121.461
	5/8/2006 1:00:09 PM	121.462		5/8/2006 1:02:14 PM	121.46
	5/8/2006 1:00:09 PM	121.46		5/8/2006 1:02:22 PM	121.461
	5/8/2006 1:00:10 PM	121.462		5/8/2006 1:02:31 PM	121.46
	5/8/2006 1:00:11 PM	121.459		5/8/2006 1:02:40 PM	121.462
	5/8/2006 1:00:11 PM	121.461		5/8/2006 1:02:49 PM	121.462
	5/8/2006 1:00:12 PM	121.462		5/8/2006 1:02:59 PM	121.462
	5/8/2006 1:00:13 PM	121.461		5/8/2006 1:03:10 PM	121.461
	5/8/2006 1:00:13 PM	121.461		5/8/2006 1:03:21 PM	121.461
	5/8/2006 1:00:14 PM	121.462		5/8/2006 1:03:33 PM	121.461
	5/8/2006 1:00:15 PM	121.462		5/8/2006 1:03:46 PM	121.462
	5/8/2006 1:00:16 PM	121.461		5/8/2006 1:03:59 PM	121.461
	5/8/2006 1:00:17 PM	121.46		5/8/2006 1:04:13 PM	121.46
	5/8/2006 1:00:18 PM	121.461		5/8/2006 1:04:28 PM	121.46
	5/8/2006 1:00:19 PM	121.461		5/8/2006 1:04:44 PM	121.461
	5/8/2006 1:00:20 PM	121.461		5/8/2006 1:05:01 PM	121.461
	5/8/2006 1:00:21 PM	121.461		5/8/2006 1:05:19 PM	121.461
	5/8/2006 1:00:23 PM	121.461		5/8/2006 1:05:37 PM	121.463
	5/8/2006 1:00:24 PM	121.461		5/8/2006 1:05:58 PM	121.462
	5/8/2006 1:00:25 PM	121.462		5/8/2006 1:06:19 PM	121.461
	5/8/2006 1:00:27 PM	121.462		5/8/2006 1:06:41 PM	121.461
	5/8/2006 1:00:28 PM	121.461		5/8/2006 1:07:05 PM	121.461
	5/8/2006 1:00:30 PM	121.46		5/8/2006 1:07:30 PM	121.46
	5/8/2006 1:00:32 PM	121.46		5/8/2006 1:07:56 PM	121.46
	5/8/2006 1:00:34 PM	121.461		5/8/2006 1:08:25 PM	121.46
	5/8/2006 1:00:36 PM	121.462		5/8/2006 1:08:55 PM	121.46
	5/8/2006 1:00:38 PM	121.462		5/8/2006 1:09:26 PM	121.458
	5/8/2006 1:00:40 PM	121.462		5/8/2006 1:10:00 PM	121.459
	5/8/2006 1:00:42 PM	121.462		5/8/2006 1:10:36 PM	121.459
	5/8/2006 1:00:45 PM	121.461		5/8/2006 1:11:12 PM	121.46
	5/8/2006 1:00:48 PM	121.462		5/8/2006 1:11:54 PM	121.459
	5/8/2006 1:00:50 PM	121.461		5/8/2006 1:12:36 PM	121.458
	5/8/2006 1:00:53 PM	121.461		5/8/2006 1:13:18 PM	121.458
	5/8/2006 1:00:57 PM	121.463		5/8/2006 1:14:06 PM	121.457
	5/8/2006 1:01:00 PM	121.462		5/8/2006 1:15:00 PM	121.459
	5/8/2006 1:01:04 PM	121.462		5/8/2006 1:15:48 PM	121.458
	5/8/2006 1:01:07 PM	121.462		5/8/2006 1:16:48 PM	121.458
	5/8/2006 1:01:11 PM	121.46		5/8/2006 1:17:48 PM	121.459
	5/8/2006 1:01:16 PM	121.46		5/8/2006 1:18:48 PM	121.459
	5/8/2006 1:01:20 PM	121.46		5/8/2006 1:19:54 PM	121.46
	5/8/2006 1:01:25 PM	121.461		5/8/2006 1:21:06 PM	121.46

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-10			**SEA-10**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:22:24 PM	121.457		5/8/2006 6:35:00 PM	121.424
	5/8/2006 1:23:42 PM	121.458		5/8/2006 6:55:00 PM	121.42
	5/8/2006 1:25:06 PM	121.459		5/8/2006 7:16:00 PM	121.421
	5/8/2006 1:26:36 PM	121.458		5/8/2006 7:38:00 PM	121.42
	5/8/2006 1:28:12 PM	121.456		5/8/2006 8:02:00 PM	121.422
	5/8/2006 1:29:48 PM	121.459		5/8/2006 8:27:00 PM	121.421
	5/8/2006 1:31:36 PM	121.457		5/8/2006 8:53:00 PM	121.423
	5/8/2006 1:33:30 PM	121.456		5/8/2006 9:21:00 PM	121.422
	5/8/2006 1:35:30 PM	121.457		5/8/2006 9:51:00 PM	121.425
	5/8/2006 1:37:36 PM	121.457		5/8/2006 10:22:00 PM	121.428
	5/8/2006 1:39:48 PM	121.456		5/8/2006 10:56:00 PM	121.432
	5/8/2006 1:42:12 PM	121.455		5/8/2006 11:31:00 PM	121.439
	5/8/2006 1:44:42 PM	121.454		5/9/2006 12:08:00 AM	121.445
	5/8/2006 1:47:18 PM	121.454		5/9/2006 12:48:00 AM	121.452
	5/8/2006 1:50:06 PM	121.46		5/9/2006 1:30:00 AM	121.463
	5/8/2006 1:53:06 PM	121.455		5/9/2006 2:14:00 AM	121.472
	5/8/2006 1:56:12 PM	121.448		5/9/2006 3:01:00 AM	121.483
	5/8/2006 1:59:36 PM	121.451		5/9/2006 3:51:00 AM	121.494
	5/8/2006 2:03:06 PM	121.453		5/9/2006 4:44:00 AM	121.505
	5/8/2006 2:06:48 PM	121.451		5/9/2006 5:40:00 AM	121.517
	5/8/2006 2:10:48 PM	121.45		5/9/2006 6:40:00 AM	121.532
	5/8/2006 2:15:00 PM	121.448		5/9/2006 7:40:00 AM	121.548
	5/8/2006 2:19:24 PM	121.447		5/9/2006 8:50:00 AM	121.563
	5/8/2006 2:24:06 PM	121.449		5/9/2006 10:00:00 AM	121.58
	5/8/2006 2:29:06 PM	121.449		5/9/2006 11:10:00 AM	121.601
	5/8/2006 2:34:24 PM	121.448		5/9/2006 12:30:00 PM	121.614
	5/8/2006 2:40:00 PM	121.444		5/9/2006 2:00:00 PM	121.641
	5/8/2006 2:46:00 PM	121.446		5/9/2006 3:20:00 PM	121.664
	5/8/2006 2:52:00 PM	121.445		5/9/2006 5:00:00 PM	121.692
	5/8/2006 2:59:00 PM	121.443		5/9/2006 6:40:00 PM	121.719
	5/8/2006 3:06:00 PM	121.44		5/9/2006 8:20:00 PM	121.746
	5/8/2006 3:13:00 PM	121.441		5/9/2006 10:10:00 PM	121.778
	5/8/2006 3:21:00 PM	121.44		5/10/2006 12:10:00 AM	121.815
	5/8/2006 3:30:00 PM	121.438		5/10/2006 2:10:00 AM	121.847
	5/8/2006 3:38:00 PM	121.439		5/10/2006 4:10:00 AM	121.885
	5/8/2006 3:48:00 PM	121.436		5/10/2006 6:10:00 AM	121.922
	5/8/2006 3:58:00 PM	121.436		5/10/2006 8:10:00 AM	121.959
	5/8/2006 4:08:00 PM	121.436		5/10/2006 10:10:00 AM	121.997
	5/8/2006 4:19:00 PM	121.434		5/10/2006 12:10:00 PM	122.034
	5/8/2006 4:31:00 PM	121.432		5/10/2006 2:10:00 PM	122.072
	5/8/2006 4:44:00 PM	121.431		5/10/2006 4:10:00 PM	122.109
	5/8/2006 4:57:00 PM	121.429		5/10/2006 6:10:00 PM	122.149
	5/8/2006 5:11:00 PM	121.428		5/10/2006 8:10:00 PM	122.188
	5/8/2006 5:26:00 PM	121.426		5/10/2006 10:10:00 PM	122.227
	5/8/2006 5:42:00 PM	121.427		5/11/2006 12:10:00 AM	122.268
	5/8/2006 5:58:00 PM	121.426		5/11/2006 2:10:00 AM	122.305
	5/8/2006 6:16:00 PM	121.424		5/11/2006 4:10:00 AM	122.344

Well	Date and Time	GWE (ft)
SEA-10		
TROLL-rec		
	5/11/2006 6:10:00 AM	122.384
	5/11/2006 8:10:00 AM	122.42
	5/11/2006 10:10:00 AM	122.455
	5/11/2006 12:10:00 PM	122.494
	5/11/2006 2:10:00 PM	122.534
	5/11/2006 4:10:00 PM	122.572
	5/11/2006 6:10:00 PM	122.608
	5/11/2006 8:10:00 PM	122.647
	5/11/2006 10:10:00 PM	122.682
	5/12/2006 12:10:00 AM	122.72
	5/12/2006 2:10:00 AM	122.76
	5/12/2006 4:10:00 AM	122.794
	5/12/2006 6:10:00 AM	122.83
	5/12/2006 8:10:00 AM	122.865
	5/12/2006 10:10:00 AM	122.899
	5/12/2006 12:10:00 PM	122.934
	5/12/2006 2:10:00 PM	122.968
	5/12/2006 4:10:00 PM	123
	5/12/2006 6:10:00 PM	123.035
	5/12/2006 8:10:00 PM	123.068
	5/12/2006 10:10:00 PM	123.098
	5/13/2006 12:10:00 AM	123.134
	5/13/2006 2:10:00 AM	123.167
	5/13/2006 4:10:00 AM	123.199
	5/13/2006 6:10:00 AM	123.227
	5/13/2006 8:10:00 AM	123.259
	5/13/2006 10:10:00 AM	123.287
	5/13/2006 12:10:00 PM	123.319
	5/13/2006 2:10:00 PM	123.346
	5/13/2006 4:10:00 PM	123.375
	5/13/2006 6:10:00 PM	123.407
	5/13/2006 8:10:00 PM	123.438
	5/13/2006 10:10:00 PM	123.469
	5/14/2006 12:10:00 AM	123.502
	5/14/2006 2:10:00 AM	123.536
	5/14/2006 4:10:00 AM	123.568
	5/14/2006 6:10:00 AM	123.597
	5/14/2006 8:10:00 AM	123.627
	5/14/2006 10:10:00 AM	123.657
	5/14/2006 12:10:00 PM	123.695
	5/14/2006 2:10:00 PM	123.719
	5/14/2006 4:10:00 PM	123.751
	5/14/2006 6:10:00 PM	123.782
	5/14/2006 8:10:00 PM	123.815
	5/14/2006 10:10:00 PM	123.847
	5/15/2006 12:10:00 AM	123.879
	5/15/2006 2:10:00 AM	123.91
SEA-10		
TROLL-rec		
	5/15/2006 4:10:00 AM	123.944
	5/15/2006 6:10:00 AM	123.974
	5/15/2006 8:10:00 AM	124.005
	5/15/2006 10:10:00 AM	124.038
	5/15/2006 12:10:00 PM	124.073
	5/15/2006 2:10:00 PM	124.107
SEA-11		
Manual		
	4/14/2006 3:00:00 PM	129.71
	4/21/2006 10:15:00 AM	129.52
	4/25/2006 12:40:00 PM	129.56
	4/26/2006 9:07:00 AM	129.51
	4/27/2006 11:20:00 AM	129.46
	4/27/2006 5:20:00 PM	129.42
	4/28/2006 11:52:00 AM	129.26
	4/28/2006 3:23:00 PM	129.25
	4/29/2006 11:50:00 AM	129.09
	4/30/2006 10:25:00 AM	128.85
	5/1/2006 9:14:00 AM	128.62
	5/2/2006 11:20:00 AM	128.36
	5/3/2006 7:57:00 AM	128.1
	5/4/2006 12:15:00 PM	127.82
	5/5/2006 11:02:00 AM	127.53
	5/6/2006 12:41:00 PM	127.25
	5/7/2006 10:48:00 AM	127.02
	5/8/2006 9:55:00 AM	126.78
	5/9/2006 12:10:00 PM	126.6
SEA-12		
Manual		
	4/14/2006 2:10:00 PM	127
	4/21/2006 10:50:00 AM	127.09
	4/25/2006 12:30:00 PM	127.01
	4/26/2006 9:23:00 AM	127.01
	4/27/2006 11:45:00 AM	126.97
	4/27/2006 5:00:00 PM	126.94
	4/28/2006 12:05:00 PM	126.85
	4/28/2006 3:31:00 PM	126.84
	4/29/2006 11:15:00 AM	126.75
	4/30/2006 10:35:00 AM	126.63
	5/1/2006 9:22:00 AM	126.5
	5/2/2006 10:45:00 AM	126.25
	5/3/2006 8:05:00 AM	126.25
	5/4/2006 11:45:00 AM	126.06
	5/5/2006 11:45:00 AM	125.9
	5/6/2006 11:30:00 AM	125.75
	5/7/2006 11:00:00 AM	125.59

Well	Date and Time	GWE (ft)
SEA-12		
Manual		
	5/8/2006 9:30:00 AM	125.45
SEA-13		
Manual		
	4/14/2006 1:45:00 PM	133.09
	4/21/2006 10:40:00 AM	133.1
	4/25/2006 12:30:00 PM	132.89
	4/26/2006 9:20:00 AM	132.88
	4/28/2006 12:01:00 PM	129.97
	4/28/2006 3:34:00 PM	129.81
	4/29/2006 4:00:00 PM	128.75
	4/30/2006 10:32:00 AM	128.1
	5/1/2006 9:20:00 AM	127.42
	5/4/2006 12:00:00 PM	126.07
	5/5/2006 11:40:00 AM	125.71
TROLL		
	4/26/2006 12:05:00 PM	132.88
	4/26/2006 12:05:00 PM	132.884
	4/26/2006 12:05:00 PM	132.883
	4/26/2006 12:05:01 PM	132.88
	4/26/2006 12:05:01 PM	132.878
	4/26/2006 12:05:01 PM	132.879
	4/26/2006 12:05:01 PM	132.878
	4/26/2006 12:05:02 PM	132.877
	4/26/2006 12:05:02 PM	132.883
	4/26/2006 12:05:02 PM	132.878
	4/26/2006 12:05:02 PM	132.883
	4/26/2006 12:05:03 PM	132.881
	4/26/2006 12:05:03 PM	132.88
	4/26/2006 12:05:03 PM	132.879
	4/26/2006 12:05:03 PM	132.878
	4/26/2006 12:05:04 PM	132.881
	4/26/2006 12:05:04 PM	132.881
	4/26/2006 12:05:04 PM	132.881
	4/26/2006 12:05:04 PM	132.872
	4/26/2006 12:05:05 PM	132.881
	4/26/2006 12:05:05 PM	132.876
	4/26/2006 12:05:05 PM	132.881
	4/26/2006 12:05:05 PM	132.877
	4/26/2006 12:05:06 PM	132.874
	4/26/2006 12:05:06 PM	132.877
	4/26/2006 12:05:06 PM	132.877
	4/26/2006 12:05:07 PM	132.877
	4/26/2006 12:05:07 PM	132.88
	4/26/2006 12:05:08 PM	132.879
	4/26/2006 12:05:08 PM	132.879
	4/26/2006 12:05:08 PM	132.877

Well	Date and Time	GWE (ft)
SEA-13		
TROLL		
	4/26/2006 12:05:09 PM	132.874
	4/26/2006 12:05:09 PM	132.88
	4/26/2006 12:05:10 PM	132.88
	4/26/2006 12:05:11 PM	132.875
	4/26/2006 12:05:11 PM	132.877
	4/26/2006 12:05:12 PM	132.882
	4/26/2006 12:05:13 PM	132.876
	4/26/2006 12:05:13 PM	132.884
	4/26/2006 12:05:14 PM	132.883
	4/26/2006 12:05:15 PM	132.879
	4/26/2006 12:05:16 PM	132.876
	4/26/2006 12:05:17 PM	132.878
	4/26/2006 12:05:18 PM	132.878
	4/26/2006 12:05:19 PM	132.881
	4/26/2006 12:05:20 PM	132.88
	4/26/2006 12:05:21 PM	132.882
	4/26/2006 12:05:23 PM	132.88
	4/26/2006 12:05:24 PM	132.875
	4/26/2006 12:05:25 PM	132.883
	4/26/2006 12:05:27 PM	132.883
	4/26/2006 12:05:28 PM	132.877
	4/26/2006 12:05:30 PM	132.883
	4/26/2006 12:05:32 PM	132.882
	4/26/2006 12:05:34 PM	132.882
	4/26/2006 12:05:36 PM	132.878
	4/26/2006 12:05:38 PM	132.878
	4/26/2006 12:05:40 PM	132.882
	4/26/2006 12:05:42 PM	132.879
	4/26/2006 12:05:45 PM	132.877
	4/26/2006 12:05:48 PM	132.883
	4/26/2006 12:05:50 PM	132.881
	4/26/2006 12:05:53 PM	132.875
	4/26/2006 12:05:57 PM	132.876
	4/26/2006 12:06:00 PM	132.875
	4/26/2006 12:06:04 PM	132.875
	4/26/2006 12:06:07 PM	132.874
	4/26/2006 12:06:11 PM	132.876
	4/26/2006 12:06:16 PM	132.874
	4/26/2006 12:06:20 PM	132.877
	4/26/2006 12:06:25 PM	132.873
	4/26/2006 12:06:30 PM	132.874
	4/26/2006 12:06:35 PM	132.875
	4/26/2006 12:06:41 PM	132.868
	4/26/2006 12:06:47 PM	132.874
	4/26/2006 12:06:53 PM	132.875
	4/26/2006 12:06:59 PM	132.872
	4/26/2006 12:07:07 PM	132.872

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-13			**SEA-13**		
TROLL			TROLL		
	4/26/2006 12:07:14 PM	132.87		4/26/2006 12:38:30 PM	132.794
	4/26/2006 12:07:22 PM	132.87		4/26/2006 12:40:30 PM	132.793
	4/26/2006 12:07:31 PM	132.874		4/26/2006 12:42:36 PM	132.792
	4/26/2006 12:07:40 PM	132.868		4/26/2006 12:44:48 PM	132.789
	4/26/2006 12:07:49 PM	132.869		4/26/2006 12:47:12 PM	132.788
	4/26/2006 12:07:59 PM	132.867		4/26/2006 12:49:42 PM	132.781
	4/26/2006 12:08:10 PM	132.868		4/26/2006 12:52:18 PM	132.776
	4/26/2006 12:08:21 PM	132.866		4/26/2006 12:55:06 PM	132.775
	4/26/2006 12:08:33 PM	132.86		4/26/2006 12:58:06 PM	132.773
	4/26/2006 12:08:46 PM	132.857		4/26/2006 1:01:12 PM	132.771
	4/26/2006 12:08:59 PM	132.861		4/26/2006 1:04:36 PM	132.77
	4/26/2006 12:09:13 PM	132.861		4/26/2006 1:08:06 PM	132.759
	4/26/2006 12:09:28 PM	132.854		4/26/2006 1:11:48 PM	132.757
	4/26/2006 12:09:44 PM	132.858		4/26/2006 1:15:48 PM	132.748
	4/26/2006 12:10:01 PM	132.857		4/26/2006 1:20:00 PM	132.751
	4/26/2006 12:10:19 PM	132.858		4/26/2006 1:24:24 PM	132.745
	4/26/2006 12:10:37 PM	132.856		4/26/2006 1:29:06 PM	132.739
	4/26/2006 12:10:58 PM	132.856		4/26/2006 1:34:06 PM	132.733
	4/26/2006 12:11:19 PM	132.849		4/26/2006 1:39:24 PM	132.724
	4/26/2006 12:11:41 PM	132.853		4/26/2006 1:45:00 PM	132.721
	4/26/2006 12:12:05 PM	132.847		4/26/2006 1:51:00 PM	132.709
	4/26/2006 12:12:30 PM	132.851		4/26/2006 1:57:00 PM	132.709
	4/26/2006 12:12:56 PM	132.848		4/26/2006 2:04:00 PM	132.7
	4/26/2006 12:13:25 PM	132.847		4/26/2006 2:11:00 PM	132.691
	4/26/2006 12:13:55 PM	132.846		4/26/2006 2:18:00 PM	132.684
	4/26/2006 12:14:26 PM	132.841		4/26/2006 2:26:00 PM	132.675
	4/26/2006 12:15:00 PM	132.839		4/26/2006 2:35:00 PM	132.662
	4/26/2006 12:15:36 PM	132.836		4/26/2006 2:43:00 PM	132.656
	4/26/2006 12:16:12 PM	132.836		4/26/2006 2:53:00 PM	132.64
	4/26/2006 12:16:54 PM	132.838		4/26/2006 3:03:00 PM	132.637
	4/26/2006 12:17:36 PM	132.833		4/26/2006 3:13:00 PM	132.616
	4/26/2006 12:18:18 PM	132.835		4/26/2006 3:24:00 PM	132.605
	4/26/2006 12:19:06 PM	132.83		4/26/2006 3:36:00 PM	132.588
	4/26/2006 12:20:00 PM	132.824		4/26/2006 3:49:00 PM	132.573
	4/26/2006 12:20:48 PM	132.826		4/26/2006 4:02:00 PM	132.559
	4/26/2006 12:21:48 PM	132.824		4/26/2006 4:16:00 PM	132.533
	4/26/2006 12:22:48 PM	132.82		4/26/2006 4:31:00 PM	132.513
	4/26/2006 12:23:48 PM	132.819		4/26/2006 4:47:00 PM	132.501
	4/26/2006 12:24:54 PM	132.811		4/26/2006 5:03:00 PM	132.475
	4/26/2006 12:26:06 PM	132.815		4/26/2006 5:21:00 PM	132.456
	4/26/2006 12:27:24 PM	132.808		4/26/2006 5:40:00 PM	132.43
	4/26/2006 12:28:42 PM	132.805		4/26/2006 6:00:00 PM	132.408
	4/26/2006 12:30:06 PM	132.798		4/26/2006 6:21:00 PM	132.38
	4/26/2006 12:31:36 PM	132.797		4/26/2006 6:43:00 PM	132.347
	4/26/2006 12:33:12 PM	132.797		4/26/2006 7:07:00 PM	132.316
	4/26/2006 12:34:48 PM	132.794		4/26/2006 7:32:00 PM	132.282
	4/26/2006 12:36:36 PM	132.799		4/26/2006 7:58:00 PM	132.25

Well	Date and Time	GWE (ft)
SEA-13		
TROLL		
	5/3/2006 5:15:21 PM	126.326
	5/3/2006 7:15:21 PM	126.294
	5/3/2006 9:15:21 PM	126.268
	5/3/2006 11:15:21 PM	126.242
	5/4/2006 1:15:21 AM	126.214
	5/4/2006 3:15:21 AM	126.186
	5/4/2006 5:15:21 AM	126.152
	5/4/2006 7:15:21 AM	126.111
	5/4/2006 9:15:21 AM	126.096
	5/4/2006 11:15:21 AM	126.066
	5/4/2006 1:15:21 PM	126.046
	5/4/2006 3:15:21 PM	126.01
	5/4/2006 5:15:21 PM	125.977
	5/4/2006 7:15:21 PM	125.943
	5/4/2006 9:15:21 PM	125.916
	5/4/2006 11:15:21 PM	125.894
	5/5/2006 1:15:21 AM	125.864
	5/5/2006 3:15:21 AM	125.829
	5/5/2006 5:15:21 AM	125.799
	5/5/2006 7:15:21 AM	125.766
	5/5/2006 9:15:21 AM	125.744
	5/5/2006 11:15:21 AM	125.718
	5/5/2006 1:15:21 PM	125.698
	5/5/2006 3:15:21 PM	125.66
	5/5/2006 5:15:21 PM	125.629
	5/5/2006 7:15:21 PM	125.597
	5/5/2006 9:15:21 PM	125.568
	5/5/2006 11:15:21 PM	125.543
	5/6/2006 1:15:21 AM	125.518
	5/6/2006 3:15:21 AM	125.491
	5/6/2006 5:15:21 AM	125.456
	5/6/2006 7:15:21 AM	125.426
	5/6/2006 9:15:21 AM	125.406
	5/6/2006 11:15:21 AM	125.377
	5/6/2006 1:15:21 PM	125.339
	5/6/2006 3:15:21 PM	125.317
	5/6/2006 5:15:21 PM	125.284
	5/6/2006 7:15:21 PM	125.242
	5/6/2006 9:15:21 PM	125.218
	5/6/2006 11:15:21 PM	125.192
	5/7/2006 1:15:21 AM	125.168
	5/7/2006 3:15:21 AM	125.14
	5/7/2006 5:15:21 AM	125.108
	5/7/2006 7:15:21 AM	125.075
	5/7/2006 9:15:21 AM	125.054
	5/7/2006 11:15:21 AM	125.031
	5/7/2006 1:15:21 PM	125.005

Well	Date and Time	GWE (ft)
SEA-13		
TROLL		
	5/7/2006 3:15:21 PM	124.98
	5/7/2006 5:15:21 PM	124.944
	5/7/2006 7:15:21 PM	124.912
	5/7/2006 9:15:21 PM	124.887
	5/7/2006 11:15:21 PM	124.862
	5/8/2006 1:15:21 AM	124.836
	5/8/2006 3:15:21 AM	124.81
	5/8/2006 5:15:21 AM	124.769
	5/8/2006 7:15:21 AM	124.75
	5/8/2006 9:15:21 AM	124.726
	5/8/2006 11:15:21 AM	124.702
TROLL-rec		
	5/8/2006 1:00:00 PM	124.681
	5/8/2006 1:00:00 PM	124.679
	5/8/2006 1:00:01 PM	124.679
	5/8/2006 1:00:01 PM	124.682
	5/8/2006 1:00:01 PM	124.68
	5/8/2006 1:00:01 PM	124.679
	5/8/2006 1:00:02 PM	124.68
	5/8/2006 1:00:02 PM	124.674
	5/8/2006 1:00:02 PM	124.681
	5/8/2006 1:00:02 PM	124.677
	5/8/2006 1:00:03 PM	124.677
	5/8/2006 1:00:03 PM	124.68
	5/8/2006 1:00:03 PM	124.679
	5/8/2006 1:00:03 PM	124.676
	5/8/2006 1:00:04 PM	124.678
	5/8/2006 1:00:04 PM	124.676
	5/8/2006 1:00:04 PM	124.675
	5/8/2006 1:00:04 PM	124.679
	5/8/2006 1:00:05 PM	124.678
	5/8/2006 1:00:05 PM	124.68
	5/8/2006 1:00:05 PM	124.678
	5/8/2006 1:00:05 PM	124.677
	5/8/2006 1:00:06 PM	124.679
	5/8/2006 1:00:06 PM	124.678
	5/8/2006 1:00:06 PM	124.676
	5/8/2006 1:00:06 PM	124.677
	5/8/2006 1:00:07 PM	124.681
	5/8/2006 1:00:07 PM	124.68
	5/8/2006 1:00:08 PM	124.679
	5/8/2006 1:00:08 PM	124.68
	5/8/2006 1:00:08 PM	124.678
	5/8/2006 1:00:09 PM	124.68
	5/8/2006 1:00:09 PM	124.675
	5/8/2006 1:00:10 PM	124.679
	5/8/2006 1:00:11 PM	124.677

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-13			**SEA-13**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:11 PM	124.681		5/8/2006 1:02:49 PM	124.68
	5/8/2006 1:00:13 PM	124.679		5/8/2006 1:02:59 PM	124.679
	5/8/2006 1:00:13 PM	124.677		5/8/2006 1:03:10 PM	124.682
	5/8/2006 1:00:13 PM	124.681		5/8/2006 1:03:21 PM	124.681
	5/8/2006 1:00:14 PM	124.682		5/8/2006 1:03:33 PM	124.681
	5/8/2006 1:00:15 PM	124.679		5/8/2006 1:03:46 PM	124.679
	5/8/2006 1:00:16 PM	124.68		5/8/2006 1:03:59 PM	124.679
	5/8/2006 1:00:17 PM	124.68		5/8/2006 1:04:13 PM	124.682
	5/8/2006 1:00:18 PM	124.681		5/8/2006 1:04:28 PM	124.682
	5/8/2006 1:00:19 PM	124.681		5/8/2006 1:04:44 PM	124.68
	5/8/2006 1:00:20 PM	124.681		5/8/2006 1:05:01 PM	124.677
	5/8/2006 1:00:21 PM	124.68		5/8/2006 1:05:19 PM	124.681
	5/8/2006 1:00:23 PM	124.679		5/8/2006 1:05:37 PM	124.683
	5/8/2006 1:00:24 PM	124.681		5/8/2006 1:05:58 PM	124.68
	5/8/2006 1:00:25 PM	124.678		5/8/2006 1:06:19 PM	124.68
	5/8/2006 1:00:27 PM	124.68		5/8/2006 1:06:41 PM	124.681
	5/8/2006 1:00:28 PM	124.681		5/8/2006 1:07:05 PM	124.681
	5/8/2006 1:00:30 PM	124.68		5/8/2006 1:07:30 PM	124.679
	5/8/2006 1:00:32 PM	124.681		5/8/2006 1:07:56 PM	124.678
	5/8/2006 1:00:34 PM	124.678		5/8/2006 1:08:25 PM	124.677
	5/8/2006 1:00:36 PM	124.683		5/8/2006 1:08:55 PM	124.679
	5/8/2006 1:00:38 PM	124.68		5/8/2006 1:09:26 PM	124.678
	5/8/2006 1:00:40 PM	124.682		5/8/2006 1:10:00 PM	124.678
	5/8/2006 1:00:42 PM	124.679		5/8/2006 1:10:36 PM	124.678
	5/8/2006 1:00:45 PM	124.682		5/8/2006 1:11:12 PM	124.674
	5/8/2006 1:00:48 PM	124.679		5/8/2006 1:11:54 PM	124.677
	5/8/2006 1:00:50 PM	124.679		5/8/2006 1:12:36 PM	124.676
	5/8/2006 1:00:53 PM	124.68		5/8/2006 1:13:18 PM	124.676
	5/8/2006 1:00:57 PM	124.679		5/8/2006 1:14:06 PM	124.675
	5/8/2006 1:01:00 PM	124.682		5/8/2006 1:15:00 PM	124.677
	5/8/2006 1:01:04 PM	124.679		5/8/2006 1:15:48 PM	124.676
	5/8/2006 1:01:07 PM	124.683		5/8/2006 1:16:48 PM	124.676
	5/8/2006 1:01:11 PM	124.68		5/8/2006 1:17:48 PM	124.676
	5/8/2006 1:01:16 PM	124.68		5/8/2006 1:18:48 PM	124.672
	5/8/2006 1:01:20 PM	124.682		5/8/2006 1:19:54 PM	124.675
	5/8/2006 1:01:25 PM	124.682		5/8/2006 1:21:06 PM	124.677
	5/8/2006 1:01:30 PM	124.681		5/8/2006 1:22:24 PM	124.677
	5/8/2006 1:01:35 PM	124.681		5/8/2006 1:23:42 PM	124.678
	5/8/2006 1:01:41 PM	124.681		5/8/2006 1:25:06 PM	124.678
	5/8/2006 1:01:47 PM	124.678		5/8/2006 1:26:36 PM	124.68
	5/8/2006 1:01:53 PM	124.681		5/8/2006 1:28:12 PM	124.68
	5/8/2006 1:01:59 PM	124.679		5/8/2006 1:29:48 PM	124.681
	5/8/2006 1:02:07 PM	124.677		5/8/2006 1:31:36 PM	124.682
	5/8/2006 1:02:14 PM	124.679		5/8/2006 1:33:30 PM	124.68
	5/8/2006 1:02:22 PM	124.681		5/8/2006 1:35:30 PM	124.683
	5/8/2006 1:02:31 PM	124.679		5/8/2006 1:37:36 PM	124.682
	5/8/2006 1:02:40 PM	124.68		5/8/2006 1:39:48 PM	124.685

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-13			**SEA-13**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:42:12 PM	124.685		5/8/2006 11:31:00 PM	124.97
	5/8/2006 1:44:42 PM	124.686		5/9/2006 12:08:00 AM	124.989
	5/8/2006 1:47:18 PM	124.685		5/9/2006 12:48:00 AM	125.013
	5/8/2006 1:50:06 PM	124.684		5/9/2006 1:30:00 AM	125.037
	5/8/2006 1:53:06 PM	124.686		5/9/2006 2:14:00 AM	125.056
	5/8/2006 1:56:12 PM	124.688		5/9/2006 3:01:00 AM	125.082
	5/8/2006 1:59:36 PM	124.69		5/9/2006 3:51:00 AM	125.113
	5/8/2006 2:03:06 PM	124.689		5/9/2006 4:44:00 AM	125.136
	5/8/2006 2:06:48 PM	124.688		5/9/2006 5:40:00 AM	125.169
	5/8/2006 2:10:48 PM	124.694		5/9/2006 6:40:00 AM	125.205
	5/8/2006 2:15:00 PM	124.693		5/9/2006 7:40:00 AM	125.241
	5/8/2006 2:19:24 PM	124.695		5/9/2006 8:50:00 AM	125.279
	5/8/2006 2:24:06 PM	124.7		5/9/2006 10:00:00 AM	125.32
	5/8/2006 2:29:06 PM	124.699		5/9/2006 11:10:00 AM	125.366
	5/8/2006 2:34:24 PM	124.7		5/9/2006 12:30:00 PM	125.408
	5/8/2006 2:40:00 PM	124.703		5/9/2006 2:00:00 PM	125.458
	5/8/2006 2:46:00 PM	124.709		5/9/2006 3:20:00 PM	125.509
	5/8/2006 2:52:00 PM	124.71		5/9/2006 5:00:00 PM	125.563
	5/8/2006 2:59:00 PM	124.708		5/9/2006 6:40:00 PM	125.614
	5/8/2006 3:06:00 PM	124.711		5/9/2006 8:20:00 PM	125.673
	5/8/2006 3:13:00 PM	124.714		5/9/2006 10:10:00 PM	125.725
	5/8/2006 3:21:00 PM	124.717		5/10/2006 12:10:00 AM	125.795
	5/8/2006 3:30:00 PM	124.725		5/10/2006 2:10:00 AM	125.849
	5/8/2006 3:38:00 PM	124.729		5/10/2006 4:10:00 AM	125.914
	5/8/2006 3:48:00 PM	124.724		5/10/2006 6:10:00 AM	125.973
	5/8/2006 3:58:00 PM	124.736		5/10/2006 8:10:00 AM	126.036
	5/8/2006 4:08:00 PM	124.74		5/10/2006 10:10:00 AM	126.101
	5/8/2006 4:19:00 PM	124.741		5/10/2006 12:10:00 PM	126.153
	5/8/2006 4:31:00 PM	124.745		5/10/2006 2:10:00 PM	126.216
	5/8/2006 4:44:00 PM	124.75		5/10/2006 4:10:00 PM	126.267
	5/8/2006 4:57:00 PM	124.757		5/10/2006 6:10:00 PM	126.328
	5/8/2006 5:11:00 PM	124.766		5/10/2006 8:10:00 PM	126.378
	5/8/2006 5:26:00 PM	124.771		5/10/2006 10:10:00 PM	126.441
	5/8/2006 5:42:00 PM	124.776		5/11/2006 12:10:00 AM	126.493
	5/8/2006 5:58:00 PM	124.789		5/11/2006 2:10:00 AM	126.543
	5/8/2006 6:16:00 PM	124.795		5/11/2006 4:10:00 AM	126.59
	5/8/2006 6:35:00 PM	124.801		5/11/2006 6:10:00 AM	126.644
	5/8/2006 6:55:00 PM	124.81		5/11/2006 8:10:00 AM	126.69
	5/8/2006 7:16:00 PM	124.823		5/11/2006 10:10:00 AM	126.729
	5/8/2006 7:38:00 PM	124.834		5/11/2006 12:10:00 PM	126.788
	5/8/2006 8:02:00 PM	124.853		5/11/2006 2:10:00 PM	126.843
	5/8/2006 8:27:00 PM	124.869		5/11/2006 4:10:00 PM	126.884
	5/8/2006 8:53:00 PM	124.881		5/11/2006 6:10:00 PM	126.928
	5/8/2006 9:21:00 PM	124.895		5/11/2006 8:10:00 PM	126.976
	5/8/2006 9:51:00 PM	124.912		5/11/2006 10:10:00 PM	127.016
	5/8/2006 10:22:00 PM	124.931		5/12/2006 12:10:00 AM	127.065
	5/8/2006 10:56:00 PM	124.95		5/12/2006 2:10:00 AM	127.119

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-13			**SEA-13**		
TROLL			TROLL		
	4/26/2006 8:26:00 PM	132.214		4/29/2006 7:15:21 PM	128.638
	4/26/2006 8:56:00 PM	132.179		4/29/2006 9:15:21 PM	128.563
	4/26/2006 9:27:00 PM	132.137		4/29/2006 11:15:21 PM	128.49
	4/26/2006 10:01:00 PM	132.099		4/30/2006 1:15:21 AM	128.42
	4/26/2006 10:36:00 PM	132.063		4/30/2006 3:15:21 AM	128.342
	4/26/2006 11:13:00 PM	132.019		4/30/2006 5:15:21 AM	128.265
	4/26/2006 11:53:00 PM	131.97		4/30/2006 7:15:21 AM	128.199
	4/27/2006 12:35:00 AM	131.923		4/30/2006 9:15:21 AM	128.134
	4/27/2006 1:19:00 AM	131.869		4/30/2006 11:15:21 AM	128.063
	4/27/2006 2:06:00 AM	131.818		4/30/2006 1:15:21 PM	127.997
	4/27/2006 2:56:00 AM	131.762		4/30/2006 3:15:21 PM	127.938
	4/27/2006 3:49:00 AM	131.706		4/30/2006 5:15:21 PM	127.88
	4/27/2006 4:45:00 AM	131.64		4/30/2006 7:15:21 PM	127.813
	4/27/2006 5:45:00 AM	131.568		4/30/2006 9:15:21 PM	127.758
	4/27/2006 6:45:00 AM	131.507		4/30/2006 11:15:21 PM	127.697
	4/27/2006 7:55:00 AM	131.434		5/1/2006 1:15:21 AM	127.644
	4/27/2006 9:05:00 AM	131.372		5/1/2006 3:15:21 AM	127.58
	4/27/2006 10:15:00 AM	131.299		5/1/2006 5:15:21 AM	127.532
	4/27/2006 11:35:00 AM	131.223		5/1/2006 7:15:21 AM	127.472
	4/27/2006 1:05:00 PM	131.144		5/1/2006 9:15:21 AM	127.416
	4/27/2006 2:25:00 PM	131.065		5/1/2006 11:15:21 AM	127.364
	4/27/2006 4:05:00 PM	130.972		5/1/2006 1:15:21 PM	127.311
	4/27/2006 5:45:00 PM	130.878		5/1/2006 3:15:21 PM	127.257
	4/27/2006 7:25:00 PM	130.786		5/1/2006 5:15:21 PM	127.207
	4/27/2006 9:15:00 PM	130.679		5/1/2006 7:15:21 PM	127.166
	4/27/2006 11:15:00 PM	130.578		5/1/2006 9:15:21 PM	127.119
	4/28/2006 1:15:00 AM	130.474		5/1/2006 11:15:21 PM	127.087
	4/28/2006 3:15:00 AM	130.367		5/2/2006 1:15:21 AM	127.045
	4/28/2006 5:15:00 AM	130.267		5/2/2006 3:15:21 AM	126.998
	4/28/2006 7:15:00 AM	130.174		5/2/2006 5:15:21 AM	126.961
	4/28/2006 9:15:00 AM	130.077		5/2/2006 7:15:21 AM	126.924
	4/28/2006 11:15:00 AM	129.989		5/2/2006 9:15:21 AM	126.871
	4/28/2006 1:15:21 PM	129.899		5/2/2006 11:15:21 AM	126.84
	4/28/2006 3:15:21 PM	129.799		5/2/2006 1:15:21 PM	126.802
	4/28/2006 5:15:21 PM	129.711		5/2/2006 3:15:21 PM	126.757
	4/28/2006 7:15:21 PM	129.615		5/2/2006 5:15:21 PM	126.721
	4/28/2006 9:15:21 PM	129.528		5/2/2006 7:15:21 PM	126.682
	4/28/2006 11:15:21 PM	129.445		5/2/2006 9:15:21 PM	126.651
	4/29/2006 1:15:21 AM	129.358		5/2/2006 11:15:21 PM	126.611
	4/29/2006 3:15:21 AM	129.274		5/3/2006 1:15:21 AM	126.581
	4/29/2006 5:15:21 AM	129.186		5/3/2006 3:15:21 AM	126.551
	4/29/2006 7:15:21 AM	129.105		5/3/2006 5:15:21 AM	126.514
	4/29/2006 9:15:21 AM	129.028		5/3/2006 7:15:21 AM	126.48
	4/29/2006 11:15:21 AM	128.954		5/3/2006 9:15:21 AM	126.455
	4/29/2006 1:15:21 PM	128.869		5/3/2006 11:15:21 AM	126.422
	4/29/2006 3:15:21 PM	128.802		5/3/2006 1:15:21 PM	126.387
	4/29/2006 5:15:21 PM	128.714		5/3/2006 3:15:21 PM	126.36

Well	Date and Time	GWE (ft)
SEA-13		
TROLL-rec		
	5/12/2006 4:10:00 AM	127.145
	5/12/2006 6:10:00 AM	127.185
	5/12/2006 8:10:00 AM	127.228
	5/12/2006 10:10:00 AM	127.271
	5/12/2006 12:10:00 PM	127.313
	5/12/2006 2:10:00 PM	127.356
	5/12/2006 4:10:00 PM	127.388
	5/12/2006 6:10:00 PM	127.427
	5/12/2006 8:10:00 PM	127.462
	5/12/2006 10:10:00 PM	127.494
	5/13/2006 12:10:00 AM	127.533
	5/13/2006 2:10:00 AM	127.572
	5/13/2006 4:10:00 AM	127.61
	5/13/2006 6:10:00 AM	127.637
	5/13/2006 8:10:00 AM	127.675
	5/13/2006 10:10:00 AM	127.704
	5/13/2006 12:10:00 PM	127.746
	5/13/2006 2:10:00 PM	127.773
	5/13/2006 4:10:00 PM	127.811
	5/13/2006 6:10:00 PM	127.846
	5/13/2006 8:10:00 PM	127.887
	5/13/2006 10:10:00 PM	127.926
	5/14/2006 12:10:00 AM	127.954
	5/14/2006 2:10:00 AM	127.99
	5/14/2006 4:10:00 AM	128.026
	5/14/2006 6:10:00 AM	128.053
	5/14/2006 8:10:00 AM	128.086
	5/14/2006 10:10:00 AM	128.116
	5/14/2006 12:10:00 PM	128.172
	5/14/2006 2:10:00 PM	128.192
	5/14/2006 4:10:00 PM	128.233
	5/14/2006 6:10:00 PM	128.271
	5/14/2006 8:10:00 PM	128.304
	5/14/2006 10:10:00 PM	128.341
	5/15/2006 12:10:00 AM	128.37
	5/15/2006 2:10:00 AM	128.41
	5/15/2006 4:10:00 AM	128.442
	5/15/2006 6:10:00 AM	128.48
	5/15/2006 8:10:00 AM	128.517
	5/15/2006 10:10:00 AM	128.554
	5/15/2006 12:10:00 PM	128.599
SEA-14		
Manual		
	4/14/2006 1:58:00 PM	127.09
	4/21/2006 9:00:00 AM	127.09
	4/25/2006 11:30:00 AM	126.98

Well	Date and Time	GWE (ft)
SEA-14		
Manual		
	4/26/2006 9:30:00 AM	127.12
	4/28/2006 12:16:00 PM	126.99
	4/28/2006 3:37:00 PM	126.98
	4/30/2006 10:44:00 AM	126.77
	5/1/2006 9:28:00 AM	126.63
	5/8/2006 12:10:00 PM	125.67
TROLL		
	4/26/2006 12:05:00 PM	127.12
	4/26/2006 12:05:00 PM	127.119
	4/26/2006 12:05:00 PM	127.117
	4/26/2006 12:05:01 PM	127.118
	4/26/2006 12:05:01 PM	127.118
	4/26/2006 12:05:01 PM	127.117
	4/26/2006 12:05:01 PM	127.118
	4/26/2006 12:05:02 PM	127.118
	4/26/2006 12:05:02 PM	127.119
	4/26/2006 12:05:02 PM	127.119
	4/26/2006 12:05:02 PM	127.117
	4/26/2006 12:05:03 PM	127.118
	4/26/2006 12:05:03 PM	127.115
	4/26/2006 12:05:03 PM	127.118
	4/26/2006 12:05:03 PM	127.117
	4/26/2006 12:05:04 PM	127.117
	4/26/2006 12:05:04 PM	127.117
	4/26/2006 12:05:04 PM	127.116
	4/26/2006 12:05:04 PM	127.116
	4/26/2006 12:05:05 PM	127.117
	4/26/2006 12:05:05 PM	127.116
	4/26/2006 12:05:05 PM	127.117
	4/26/2006 12:05:05 PM	127.117
	4/26/2006 12:05:06 PM	127.118
	4/26/2006 12:05:06 PM	127.116
	4/26/2006 12:05:06 PM	127.117
	4/26/2006 12:05:07 PM	127.116
	4/26/2006 12:05:07 PM	127.117
	4/26/2006 12:05:08 PM	127.117
	4/26/2006 12:05:08 PM	127.117
	4/26/2006 12:05:08 PM	127.118
	4/26/2006 12:05:09 PM	127.119
	4/26/2006 12:05:09 PM	127.118
	4/26/2006 12:05:10 PM	127.118
	4/26/2006 12:05:11 PM	127.118
	4/26/2006 12:05:11 PM	127.118
	4/26/2006 12:05:12 PM	127.118
	4/26/2006 12:05:13 PM	127.119
	4/26/2006 12:05:13 PM	127.12
	4/26/2006 12:05:14 PM	127.118

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-14			**SEA-14**		
TROLL			TROLL		
	4/26/2006 12:05:15 PM	127.119		4/26/2006 12:08:46 PM	127.118
	4/26/2006 12:05:16 PM	127.119		4/26/2006 12:08:59 PM	127.118
	4/26/2006 12:05:17 PM	127.118		4/26/2006 12:09:13 PM	127.119
	4/26/2006 12:05:18 PM	127.119		4/26/2006 12:09:28 PM	127.119
	4/26/2006 12:05:19 PM	127.119		4/26/2006 12:09:44 PM	127.119
	4/26/2006 12:05:20 PM	127.119		4/26/2006 12:10:01 PM	127.119
	4/26/2006 12:05:21 PM	127.119		4/26/2006 12:10:19 PM	127.119
	4/26/2006 12:05:23 PM	127.118		4/26/2006 12:10:37 PM	127.119
	4/26/2006 12:05:24 PM	127.12		4/26/2006 12:10:58 PM	127.119
	4/26/2006 12:05:25 PM	127.119		4/26/2006 12:11:19 PM	127.119
	4/26/2006 12:05:27 PM	127.12		4/26/2006 12:11:41 PM	127.12
	4/26/2006 12:05:28 PM	127.117		4/26/2006 12:12:05 PM	127.119
	4/26/2006 12:05:30 PM	127.119		4/26/2006 12:12:30 PM	127.12
	4/26/2006 12:05:32 PM	127.12		4/26/2006 12:12:56 PM	127.119
	4/26/2006 12:05:34 PM	127.12		4/26/2006 12:13:25 PM	127.118
	4/26/2006 12:05:36 PM	127.12		4/26/2006 12:13:55 PM	127.12
	4/26/2006 12:05:38 PM	127.12		4/26/2006 12:14:26 PM	127.12
	4/26/2006 12:05:40 PM	127.12		4/26/2006 12:15:00 PM	127.119
	4/26/2006 12:05:42 PM	127.117		4/26/2006 12:15:36 PM	127.119
	4/26/2006 12:05:45 PM	127.119		4/26/2006 12:16:12 PM	127.119
	4/26/2006 12:05:48 PM	127.117		4/26/2006 12:16:54 PM	127.12
	4/26/2006 12:05:50 PM	127.12		4/26/2006 12:17:36 PM	127.12
	4/26/2006 12:05:53 PM	127.119		4/26/2006 12:18:18 PM	127.119
	4/26/2006 12:05:57 PM	127.119		4/26/2006 12:19:06 PM	127.118
	4/26/2006 12:06:00 PM	127.119		4/26/2006 12:20:00 PM	127.119
	4/26/2006 12:06:04 PM	127.119		4/26/2006 12:20:48 PM	127.119
	4/26/2006 12:06:07 PM	127.118		4/26/2006 12:21:48 PM	127.12
	4/26/2006 12:06:11 PM	127.119		4/26/2006 12:22:48 PM	127.118
	4/26/2006 12:06:16 PM	127.118		4/26/2006 12:23:48 PM	127.117
	4/26/2006 12:06:20 PM	127.119		4/26/2006 12:24:54 PM	127.119
	4/26/2006 12:06:25 PM	127.119		4/26/2006 12:26:06 PM	127.12
	4/26/2006 12:06:30 PM	127.119		4/26/2006 12:27:24 PM	127.119
	4/26/2006 12:06:35 PM	127.12		4/26/2006 12:28:42 PM	127.117
	4/26/2006 12:06:41 PM	127.12		4/26/2006 12:30:06 PM	127.118
	4/26/2006 12:06:47 PM	127.118		4/26/2006 12:31:36 PM	127.119
	4/26/2006 12:06:53 PM	127.12		4/26/2006 12:33:12 PM	127.118
	4/26/2006 12:06:59 PM	127.119		4/26/2006 12:34:48 PM	127.118
	4/26/2006 12:07:07 PM	127.12		4/26/2006 12:36:36 PM	127.119
	4/26/2006 12:07:14 PM	127.12		4/26/2006 12:38:30 PM	127.12
	4/26/2006 12:07:22 PM	127.12		4/26/2006 12:40:30 PM	127.117
	4/26/2006 12:07:31 PM	127.118		4/26/2006 12:42:36 PM	127.118
	4/26/2006 12:07:40 PM	127.119		4/26/2006 12:44:48 PM	127.119
	4/26/2006 12:07:49 PM	127.119		4/26/2006 12:47:12 PM	127.119
	4/26/2006 12:07:59 PM	127.12		4/26/2006 12:49:42 PM	127.118
	4/26/2006 12:08:10 PM	127.12		4/26/2006 12:52:18 PM	127.118
	4/26/2006 12:08:21 PM	127.119		4/26/2006 12:55:06 PM	127.118
	4/26/2006 12:08:33 PM	127.118		4/26/2006 12:58:06 PM	127.117

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-14			**SEA-14**		
TROLL			TROLL		
	4/26/2006 1:01:12 PM	127.119		4/27/2006 2:06:00 AM	127.102
	4/26/2006 1:04:36 PM	127.119		4/27/2006 2:56:00 AM	127.1
	4/26/2006 1:08:06 PM	127.118		4/27/2006 3:49:00 AM	127.099
	4/26/2006 1:11:48 PM	127.12		4/27/2006 4:45:00 AM	127.099
	4/26/2006 1:15:48 PM	127.119		4/27/2006 5:45:00 AM	127.095
	4/26/2006 1:20:00 PM	127.12		4/27/2006 6:45:00 AM	127.093
	4/26/2006 1:24:24 PM	127.12		4/27/2006 7:55:00 AM	127.091
	4/26/2006 1:29:06 PM	127.12		4/27/2006 9:05:00 AM	127.087
	4/26/2006 1:34:06 PM	127.118		4/27/2006 10:15:00 AM	127.087
	4/26/2006 1:39:24 PM	127.119		4/27/2006 11:35:00 AM	127.083
	4/26/2006 1:45:00 PM	127.118		4/27/2006 1:05:00 PM	127.079
	4/26/2006 1:51:00 PM	127.118		4/27/2006 2:25:00 PM	127.077
	4/26/2006 1:57:00 PM	127.117		4/27/2006 4:05:00 PM	127.071
	4/26/2006 2:04:00 PM	127.118		4/27/2006 5:45:00 PM	127.067
	4/26/2006 2:11:00 PM	127.118		4/27/2006 7:25:00 PM	127.062
	4/26/2006 2:18:00 PM	127.119		4/27/2006 9:15:00 PM	127.056
	4/26/2006 2:26:00 PM	127.119		4/27/2006 11:15:00 PM	127.05
	4/26/2006 2:35:00 PM	127.118		4/28/2006 1:15:00 AM	127.044
	4/26/2006 2:43:00 PM	127.117		4/28/2006 3:15:00 AM	127.037
	4/26/2006 2:53:00 PM	127.117		4/28/2006 5:15:00 AM	127.03
	4/26/2006 3:03:00 PM	127.116		4/28/2006 7:15:00 AM	127.022
	4/26/2006 3:13:00 PM	127.117		4/28/2006 9:15:00 AM	127.016
	4/26/2006 3:24:00 PM	127.117		4/28/2006 11:15:00 AM	127.008
	4/26/2006 3:36:00 PM	127.117		4/28/2006 1:15:21 PM	127.003
	4/26/2006 3:49:00 PM	127.116		4/28/2006 3:15:21 PM	126.994
	4/26/2006 4:02:00 PM	127.117		4/28/2006 5:15:21 PM	126.987
	4/26/2006 4:16:00 PM	127.116		4/28/2006 7:15:21 PM	126.981
	4/26/2006 4:31:00 PM	127.116		4/28/2006 9:15:21 PM	126.971
	4/26/2006 4:47:00 PM	127.115		4/28/2006 11:15:21 PM	126.963
	4/26/2006 5:03:00 PM	127.114		4/29/2006 1:15:21 AM	126.955
	4/26/2006 5:21:00 PM	127.115		4/29/2006 3:15:21 AM	126.945
	4/26/2006 5:40:00 PM	127.116		4/29/2006 5:15:21 AM	126.937
	4/26/2006 6:00:00 PM	127.116		4/29/2006 7:15:21 AM	126.927
	4/26/2006 6:21:00 PM	127.115		4/29/2006 9:15:21 AM	126.918
	4/26/2006 6:43:00 PM	127.114		4/29/2006 11:15:21 AM	126.908
	4/26/2006 7:07:00 PM	127.113		4/29/2006 1:15:21 PM	126.898
	4/26/2006 7:32:00 PM	127.113		4/29/2006 3:15:21 PM	126.889
	4/26/2006 7:58:00 PM	127.112		4/29/2006 5:15:21 PM	126.879
	4/26/2006 8:26:00 PM	127.112		4/29/2006 7:15:21 PM	126.87
	4/26/2006 8:56:00 PM	127.109		4/29/2006 9:15:21 PM	126.859
	4/26/2006 9:27:00 PM	127.111		4/29/2006 11:15:21 PM	126.849
	4/26/2006 10:01:00 PM	127.11		4/30/2006 1:15:21 AM	126.837
	4/26/2006 10:36:00 PM	127.109		4/30/2006 3:15:21 AM	126.827
	4/26/2006 11:13:00 PM	127.107		4/30/2006 5:15:21 AM	126.817
	4/26/2006 11:53:00 PM	127.106		4/30/2006 7:15:21 AM	126.804
	4/27/2006 12:35:00 AM	127.104		4/30/2006 9:15:21 AM	126.794
	4/27/2006 1:19:00 AM	127.104		4/30/2006 11:15:21 AM	126.779

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-14			**SEA-14**		
TROLL			TROLL		
	4/30/2006 1:15:21 PM	126.77		5/4/2006 11:15:21 AM	126.203
	4/30/2006 3:15:21 PM	126.758		5/4/2006 1:15:21 PM	126.19
	4/30/2006 5:15:21 PM	126.747		5/4/2006 3:15:21 PM	126.179
	4/30/2006 7:15:21 PM	126.735		5/4/2006 5:15:21 PM	126.17
	4/30/2006 9:15:21 PM	126.724		5/4/2006 7:15:21 PM	126.159
	4/30/2006 11:15:21 PM	126.712		5/4/2006 9:15:21 PM	126.147
	5/1/2006 1:15:21 AM	126.7		5/4/2006 11:15:21 PM	126.136
	5/1/2006 3:15:21 AM	126.689		5/5/2006 1:15:21 AM	126.124
	5/1/2006 5:15:21 AM	126.677		5/5/2006 3:15:21 AM	126.113
	5/1/2006 7:15:21 AM	126.665		5/5/2006 5:15:21 AM	126.102
	5/1/2006 9:15:21 AM	126.653		5/5/2006 7:15:21 AM	126.09
	5/1/2006 11:15:21 AM	126.64		5/5/2006 9:15:21 AM	126.079
	5/1/2006 1:15:21 PM	126.627		5/5/2006 11:15:21 AM	126.069
	5/1/2006 3:15:21 PM	126.616		5/5/2006 1:15:21 PM	126.055
	5/1/2006 5:15:21 PM	126.604		5/5/2006 3:15:21 PM	126.046
	5/1/2006 7:15:21 PM	126.592		5/5/2006 5:15:21 PM	126.037
	5/1/2006 9:15:21 PM	126.579		5/5/2006 7:15:21 PM	126.027
	5/1/2006 11:15:21 PM	126.568		5/5/2006 9:15:21 PM	126.016
	5/2/2006 1:15:21 AM	126.555		5/5/2006 11:15:21 PM	126.005
	5/2/2006 3:15:21 AM	126.543		5/6/2006 1:15:21 AM	125.992
	5/2/2006 5:15:21 AM	126.53		5/6/2006 3:15:21 AM	125.981
	5/2/2006 7:15:21 AM	126.519		5/6/2006 5:15:21 AM	125.971
	5/2/2006 9:15:21 AM	126.506		5/6/2006 7:15:21 AM	125.959
	5/2/2006 11:15:21 AM	126.493		5/6/2006 9:15:21 AM	125.948
	5/2/2006 1:15:21 PM	126.482		5/6/2006 11:15:21 AM	125.94
	5/2/2006 3:15:21 PM	126.468		5/6/2006 1:15:21 PM	125.929
	5/2/2006 5:15:21 PM	126.457		5/6/2006 3:15:21 PM	125.917
	5/2/2006 7:15:21 PM	126.445		5/6/2006 5:15:21 PM	125.907
	5/2/2006 9:15:21 PM	126.432		5/6/2006 7:15:21 PM	125.897
	5/2/2006 11:15:21 PM	126.42		5/6/2006 9:15:21 PM	125.885
	5/3/2006 1:15:21 AM	126.406		5/6/2006 11:15:21 PM	125.875
	5/3/2006 3:15:21 AM	126.394		5/7/2006 1:15:21 AM	125.864
	5/3/2006 5:15:21 AM	126.383		5/7/2006 3:15:21 AM	125.853
	5/3/2006 7:15:21 AM	126.371		5/7/2006 5:15:21 AM	125.843
	5/3/2006 9:15:21 AM	126.357		5/7/2006 7:15:21 AM	125.829
	5/3/2006 11:15:21 AM	126.346		5/7/2006 9:15:21 AM	125.82
	5/3/2006 1:15:21 PM	126.334		5/7/2006 11:15:21 AM	125.811
	5/3/2006 3:15:21 PM	126.322		5/7/2006 1:15:21 PM	125.8
	5/3/2006 5:15:21 PM	126.309		5/7/2006 3:15:21 PM	125.788
	5/3/2006 7:15:21 PM	126.297		5/7/2006 5:15:21 PM	125.778
	5/3/2006 9:15:21 PM	126.285		5/7/2006 7:15:21 PM	125.767
	5/3/2006 11:15:21 PM	126.273		5/7/2006 9:15:21 PM	125.757
	5/4/2006 1:15:21 AM	126.262		5/7/2006 11:15:21 PM	125.745
	5/4/2006 3:15:21 AM	126.249		5/8/2006 1:15:21 AM	125.735
	5/4/2006 5:15:21 AM	126.237		5/8/2006 3:15:21 AM	125.722
	5/4/2006 7:15:21 AM	126.226		5/8/2006 5:15:21 AM	125.714
	5/4/2006 9:15:21 AM	126.214		5/8/2006 7:15:21 AM	125.703

Well	Date and Time	GWE (ft)
SEA-14		
TROLL		
	5/8/2006 9:15:21 AM	125.692
	5/8/2006 11:15:21 AM	125.681
TROLL-rec		
	5/8/2006 1:00:00 PM	125.669
	5/8/2006 1:00:00 PM	125.668
	5/8/2006 1:00:00 PM	125.669
	5/8/2006 1:00:01 PM	125.668
	5/8/2006 1:00:01 PM	125.666
	5/8/2006 1:00:01 PM	125.667
	5/8/2006 1:00:01 PM	125.668
	5/8/2006 1:00:02 PM	125.664
	5/8/2006 1:00:02 PM	125.664
	5/8/2006 1:00:02 PM	125.668
	5/8/2006 1:00:02 PM	125.664
	5/8/2006 1:00:03 PM	125.667
	5/8/2006 1:00:03 PM	125.665
	5/8/2006 1:00:03 PM	125.664
	5/8/2006 1:00:03 PM	125.666
	5/8/2006 1:00:04 PM	125.666
	5/8/2006 1:00:04 PM	125.664
	5/8/2006 1:00:04 PM	125.666
	5/8/2006 1:00:04 PM	125.665
	5/8/2006 1:00:05 PM	125.665
	5/8/2006 1:00:05 PM	125.666
	5/8/2006 1:00:05 PM	125.667
	5/8/2006 1:00:05 PM	125.668
	5/8/2006 1:00:06 PM	125.666
	5/8/2006 1:00:06 PM	125.664
	5/8/2006 1:00:06 PM	125.667
	5/8/2006 1:00:07 PM	125.666
	5/8/2006 1:00:07 PM	125.665
	5/8/2006 1:00:08 PM	125.667
	5/8/2006 1:00:08 PM	125.666
	5/8/2006 1:00:08 PM	125.667
	5/8/2006 1:00:09 PM	125.668
	5/8/2006 1:00:09 PM	125.667
	5/8/2006 1:00:10 PM	125.667
	5/8/2006 1:00:11 PM	125.666
	5/8/2006 1:00:11 PM	125.666
	5/8/2006 1:00:12 PM	125.668
	5/8/2006 1:00:13 PM	125.667
	5/8/2006 1:00:13 PM	125.666
	5/8/2006 1:00:14 PM	125.667
	5/8/2006 1:00:15 PM	125.668
	5/8/2006 1:00:16 PM	125.667
	5/8/2006 1:00:17 PM	125.667
	5/8/2006 1:00:18 PM	125.666

Well	Date and Time	GWE (ft)
SEA-14		
TROLL-rec		
	5/8/2006 1:00:19 PM	125.668
	5/8/2006 1:00:20 PM	125.669
	5/8/2006 1:00:21 PM	125.667
	5/8/2006 1:00:23 PM	125.669
	5/8/2006 1:00:24 PM	125.668
	5/8/2006 1:00:25 PM	125.668
	5/8/2006 1:00:27 PM	125.67
	5/8/2006 1:00:28 PM	125.669
	5/8/2006 1:00:30 PM	125.67
	5/8/2006 1:00:32 PM	125.669
	5/8/2006 1:00:34 PM	125.669
	5/8/2006 1:00:36 PM	125.67
	5/8/2006 1:00:38 PM	125.669
	5/8/2006 1:00:40 PM	125.669
	5/8/2006 1:00:42 PM	125.669
	5/8/2006 1:00:45 PM	125.67
	5/8/2006 1:00:48 PM	125.67
	5/8/2006 1:00:50 PM	125.67
	5/8/2006 1:00:53 PM	125.668
	5/8/2006 1:00:57 PM	125.67
	5/8/2006 1:01:00 PM	125.67
	5/8/2006 1:01:04 PM	125.669
	5/8/2006 1:01:07 PM	125.671
	5/8/2006 1:01:11 PM	125.67
	5/8/2006 1:01:16 PM	125.671
	5/8/2006 1:01:20 PM	125.67
	5/8/2006 1:01:25 PM	125.67
	5/8/2006 1:01:30 PM	125.669
	5/8/2006 1:01:35 PM	125.669
	5/8/2006 1:01:41 PM	125.668
	5/8/2006 1:01:47 PM	125.668
	5/8/2006 1:01:53 PM	125.668
	5/8/2006 1:01:59 PM	125.67
	5/8/2006 1:02:07 PM	125.669
	5/8/2006 1:02:14 PM	125.668
	5/8/2006 1:02:22 PM	125.669
	5/8/2006 1:02:31 PM	125.67
	5/8/2006 1:02:40 PM	125.671
	5/8/2006 1:02:49 PM	125.67
	5/8/2006 1:02:59 PM	125.671
	5/8/2006 1:03:10 PM	125.67
	5/8/2006 1:03:21 PM	125.671
	5/8/2006 1:03:33 PM	125.67
	5/8/2006 1:03:46 PM	125.669
	5/8/2006 1:03:59 PM	125.671
	5/8/2006 1:04:13 PM	125.669
	5/8/2006 1:04:28 PM	125.668

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-14			**SEA-14**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:04:44 PM	125.67		5/8/2006 2:10:48 PM	125.663
	5/8/2006 1:05:01 PM	125.67		5/8/2006 2:15:00 PM	125.661
	5/8/2006 1:05:19 PM	125.669		5/8/2006 2:19:24 PM	125.663
	5/8/2006 1:05:37 PM	125.667		5/8/2006 2:24:06 PM	125.662
	5/8/2006 1:05:58 PM	125.668		5/8/2006 2:29:06 PM	125.661
	5/8/2006 1:06:19 PM	125.668		5/8/2006 2:34:24 PM	125.66
	5/8/2006 1:06:41 PM	125.668		5/8/2006 2:40:00 PM	125.659
	5/8/2006 1:07:05 PM	125.666		5/8/2006 2:46:00 PM	125.659
	5/8/2006 1:07:30 PM	125.666		5/8/2006 2:52:00 PM	125.66
	5/8/2006 1:07:56 PM	125.669		5/8/2006 2:59:00 PM	125.659
	5/8/2006 1:08:25 PM	125.668		5/8/2006 3:06:00 PM	125.659
	5/8/2006 1:08:55 PM	125.668		5/8/2006 3:13:00 PM	125.659
	5/8/2006 1:09:26 PM	125.668		5/8/2006 3:21:00 PM	125.658
	5/8/2006 1:10:00 PM	125.667		5/8/2006 3:30:00 PM	125.657
	5/8/2006 1:10:36 PM	125.666		5/8/2006 3:38:00 PM	125.657
	5/8/2006 1:11:12 PM	125.667		5/8/2006 3:48:00 PM	125.655
	5/8/2006 1:11:54 PM	125.669		5/8/2006 3:58:00 PM	125.653
	5/8/2006 1:12:36 PM	125.667		5/8/2006 4:08:00 PM	125.654
	5/8/2006 1:13:18 PM	125.667		5/8/2006 4:19:00 PM	125.651
	5/8/2006 1:14:06 PM	125.667		5/8/2006 4:31:00 PM	125.654
	5/8/2006 1:15:00 PM	125.666		5/8/2006 4:44:00 PM	125.649
	5/8/2006 1:15:48 PM	125.667		5/8/2006 4:57:00 PM	125.649
	5/8/2006 1:16:48 PM	125.667		5/8/2006 5:11:00 PM	125.646
	5/8/2006 1:17:48 PM	125.667		5/8/2006 5:26:00 PM	125.648
	5/8/2006 1:18:48 PM	125.667		5/8/2006 5:42:00 PM	125.647
	5/8/2006 1:19:54 PM	125.666		5/8/2006 5:58:00 PM	125.644
	5/8/2006 1:21:06 PM	125.665		5/8/2006 6:16:00 PM	125.642
	5/8/2006 1:22:24 PM	125.665		5/8/2006 6:35:00 PM	125.64
	5/8/2006 1:23:42 PM	125.665		5/8/2006 6:55:00 PM	125.638
	5/8/2006 1:25:06 PM	125.666		5/8/2006 7:16:00 PM	125.638
	5/8/2006 1:26:36 PM	125.667		5/8/2006 7:38:00 PM	125.636
	5/8/2006 1:28:12 PM	125.668		5/8/2006 8:02:00 PM	125.635
	5/8/2006 1:29:48 PM	125.667		5/8/2006 8:27:00 PM	125.634
	5/8/2006 1:31:36 PM	125.665		5/8/2006 8:53:00 PM	125.632
	5/8/2006 1:33:30 PM	125.665		5/8/2006 9:21:00 PM	125.629
	5/8/2006 1:35:30 PM	125.667		5/8/2006 9:51:00 PM	125.624
	5/8/2006 1:37:36 PM	125.664		5/8/2006 10:22:00 PM	125.625
	5/8/2006 1:39:48 PM	125.665		5/8/2006 10:56:00 PM	125.621
	5/8/2006 1:42:12 PM	125.666		5/8/2006 11:31:00 PM	125.619
	5/8/2006 1:44:42 PM	125.664		5/9/2006 12:08:00 AM	125.615
	5/8/2006 1:47:18 PM	125.666		5/9/2006 12:48:00 AM	125.611
	5/8/2006 1:50:06 PM	125.665		5/9/2006 1:30:00 AM	125.61
	5/8/2006 1:53:06 PM	125.665		5/9/2006 2:14:00 AM	125.605
	5/8/2006 1:56:12 PM	125.666		5/9/2006 3:01:00 AM	125.602
	5/8/2006 1:59:36 PM	125.666		5/9/2006 3:51:00 AM	125.598
	5/8/2006 2:03:06 PM	125.665		5/9/2006 4:44:00 AM	125.594
	5/8/2006 2:06:48 PM	125.664		5/9/2006 5:40:00 AM	125.591

Well	Date and Time	GWE (ft)
SEA-14		
TROLL-rec		
	5/9/2006 6:40:00 AM	125.585
	5/9/2006 7:40:00 AM	125.58
	5/9/2006 8:50:00 AM	125.575
	5/9/2006 10:00:00 AM	125.572
	5/9/2006 11:10:00 AM	125.566
	5/9/2006 12:30:00 PM	125.56
	5/9/2006 2:00:00 PM	125.555
	5/9/2006 3:20:00 PM	125.548
	5/9/2006 5:00:00 PM	125.543
	5/9/2006 6:40:00 PM	125.535
	5/9/2006 8:20:00 PM	125.532
	5/9/2006 10:10:00 PM	125.523
	5/10/2006 12:10:00 AM	125.515
	5/10/2006 2:10:00 AM	125.51
	5/10/2006 4:10:00 AM	125.503
	5/10/2006 6:10:00 AM	125.499
	5/10/2006 8:10:00 AM	125.49
	5/10/2006 10:10:00 AM	125.486
	5/10/2006 12:10:00 PM	125.48
	5/10/2006 2:10:00 PM	125.478
	5/10/2006 4:10:00 PM	125.471
	5/10/2006 6:10:00 PM	125.466
	5/10/2006 8:10:00 PM	125.462
	5/10/2006 10:10:00 PM	125.458
	5/11/2006 12:10:00 AM	125.456
	5/11/2006 2:10:00 AM	125.451
	5/11/2006 4:10:00 AM	125.449
	5/11/2006 6:10:00 AM	125.447
	5/11/2006 8:10:00 AM	125.443
	5/11/2006 10:10:00 AM	125.44
	5/11/2006 12:10:00 PM	125.436
	5/11/2006 2:10:00 PM	125.436
	5/11/2006 4:10:00 PM	125.434
	5/11/2006 6:10:00 PM	125.434
	5/11/2006 8:10:00 PM	125.433
	5/11/2006 10:10:00 PM	125.43
	5/12/2006 12:10:00 AM	125.43
	5/12/2006 2:10:00 AM	125.428
	5/12/2006 4:10:00 AM	125.427
	5/12/2006 6:10:00 AM	125.426
	5/12/2006 8:10:00 AM	125.426
	5/12/2006 10:10:00 AM	125.425
	5/12/2006 12:10:00 PM	125.426
	5/12/2006 2:10:00 PM	125.425
	5/12/2006 4:10:00 PM	125.425
	5/12/2006 6:10:00 PM	125.426
	5/12/2006 8:10:00 PM	125.426

Well	Date and Time	GWE (ft)
SEA-14		
TROLL-rec		
	5/12/2006 10:10:00 PM	125.427
	5/13/2006 12:10:00 AM	125.426
	5/13/2006 2:10:00 AM	125.427
	5/13/2006 4:10:00 AM	125.429
	5/13/2006 6:10:00 AM	125.429
	5/13/2006 8:10:00 AM	125.43
	5/13/2006 10:10:00 AM	125.432
	5/13/2006 12:10:00 PM	125.434
	5/13/2006 2:10:00 PM	125.436
	5/13/2006 4:10:00 PM	125.439
	5/13/2006 6:10:00 PM	125.442
	5/13/2006 8:10:00 PM	125.445
	5/13/2006 10:10:00 PM	125.451
	5/14/2006 12:10:00 AM	125.458
	5/14/2006 2:10:00 AM	125.463
	5/14/2006 4:10:00 AM	125.47
	5/14/2006 6:10:00 AM	125.477
	5/14/2006 8:10:00 AM	125.486
	5/14/2006 10:10:00 AM	125.495
	5/14/2006 12:10:00 PM	125.506
	5/14/2006 2:10:00 PM	125.517
	5/14/2006 4:10:00 PM	125.528
	5/14/2006 6:10:00 PM	125.545
	5/14/2006 8:10:00 PM	125.567
	5/14/2006 10:10:00 PM	125.591
	5/15/2006 12:10:00 AM	125.615
	5/15/2006 2:10:00 AM	125.639
	5/15/2006 4:10:00 AM	125.666
	5/15/2006 6:10:00 AM	125.694
	5/15/2006 8:10:00 AM	125.721
	5/15/2006 10:10:00 AM	125.749
	5/15/2006 12:10:00 PM	125.778
SEA-15		
Manual		
	4/14/2006 2:35:00 PM	117.68
	4/21/2006 11:40:00 AM	117.48
	4/25/2006 11:30:00 AM	117.74
	4/26/2006 9:55:00 AM	117.7
	4/27/2006 12:15:00 PM	117.67
	4/27/2006 4:45:00 PM	117.64
	4/28/2006 12:47:00 PM	117.59
	4/28/2006 4:09:00 PM	117.59
	4/29/2006 11:10:00 AM	117.55
	4/30/2006 11:18:00 AM	117.49
	5/1/2006 10:10:00 AM	117.44
	5/3/2006 8:30:00 AM	117.56

Well	Date and Time	GWE (ft)
SEA-15		
Manual		
	5/4/2006 11:15:00 AM	117.57
	5/5/2006 11:18:00 AM	117.52
	5/6/2006 12:12:00 PM	117.45
	5/7/2006 11:19:00 AM	117.39
	5/8/2006 9:40:00 AM	117.35
	5/9/2006 12:49:00 PM	117.32
SEA-16		
Manual		
	4/14/2006 1:16:00 PM	131.74
	4/21/2006 11:50:00 AM	131.9
	4/25/2006 12:50:00 PM	131.32
	4/26/2006 10:23:00 AM	131.5
	4/27/2006 12:40:00 PM	131.26
	4/27/2006 5:30:00 PM	131.18
	4/28/2006 1:07:00 AM	130.74
	4/28/2006 4:35:00 PM	130.7
	4/29/2006 12:10:00 PM	130.34
	4/30/2006 11:10:00 AM	130.05
	5/1/2006 8:53:00 AM	129.71
	5/4/2006 12:45:00 PM	129.03
	5/5/2006 12:35:00 PM	128.82
	5/7/2006 12:00:00 PM	128.33
	5/9/2006 1:26:00 PM	128.24
TROLL		
	4/26/2006 12:05:00 PM	131.5
	4/26/2006 12:05:00 PM	131.499
	4/26/2006 12:05:00 PM	131.5
	4/26/2006 12:05:01 PM	131.5
	4/26/2006 12:05:01 PM	131.498
	4/26/2006 12:05:01 PM	131.497
	4/26/2006 12:05:01 PM	131.498
	4/26/2006 12:05:02 PM	131.497
	4/26/2006 12:05:02 PM	131.498
	4/26/2006 12:05:02 PM	131.498
	4/26/2006 12:05:02 PM	131.498
	4/26/2006 12:05:03 PM	131.499
	4/26/2006 12:05:03 PM	131.498
	4/26/2006 12:05:03 PM	131.498
	4/26/2006 12:05:03 PM	131.498
	4/26/2006 12:05:04 PM	131.498
	4/26/2006 12:05:04 PM	131.497
	4/26/2006 12:05:04 PM	131.497
	4/26/2006 12:05:04 PM	131.496
	4/26/2006 12:05:05 PM	131.496
	4/26/2006 12:05:05 PM	131.498
	4/26/2006 12:05:05 PM	131.497
SEA-16		
TROLL		
	4/26/2006 12:05:05 PM	131.496
	4/26/2006 12:05:06 PM	131.496
	4/26/2006 12:05:06 PM	131.497
	4/26/2006 12:05:06 PM	131.497
	4/26/2006 12:05:07 PM	131.496
	4/26/2006 12:05:07 PM	131.497
	4/26/2006 12:05:08 PM	131.497
	4/26/2006 12:05:08 PM	131.496
	4/26/2006 12:05:08 PM	131.498
	4/26/2006 12:05:09 PM	131.498
	4/26/2006 12:05:09 PM	131.497
	4/26/2006 12:05:10 PM	131.498
	4/26/2006 12:05:11 PM	131.497
	4/26/2006 12:05:11 PM	131.498
	4/26/2006 12:05:12 PM	131.499
	4/26/2006 12:05:13 PM	131.497
	4/26/2006 12:05:13 PM	131.5
	4/26/2006 12:05:14 PM	131.5
	4/26/2006 12:05:15 PM	131.499
	4/26/2006 12:05:16 PM	131.5
	4/26/2006 12:05:17 PM	131.498
	4/26/2006 12:05:18 PM	131.499
	4/26/2006 12:05:19 PM	131.498
	4/26/2006 12:05:20 PM	131.5
	4/26/2006 12:05:21 PM	131.499
	4/26/2006 12:05:23 PM	131.498
	4/26/2006 12:05:24 PM	131.5
	4/26/2006 12:05:25 PM	131.498
	4/26/2006 12:05:27 PM	131.5
	4/26/2006 12:05:28 PM	131.5
	4/26/2006 12:05:30 PM	131.499
	4/26/2006 12:05:32 PM	131.499
	4/26/2006 12:05:34 PM	131.5
	4/26/2006 12:05:36 PM	131.5
	4/26/2006 12:05:38 PM	131.499
	4/26/2006 12:05:40 PM	131.499
	4/26/2006 12:05:42 PM	131.499
	4/26/2006 12:05:45 PM	131.5
	4/26/2006 12:05:48 PM	131.501
	4/26/2006 12:05:50 PM	131.499
	4/26/2006 12:05:53 PM	131.499
	4/26/2006 12:05:57 PM	131.5
	4/26/2006 12:06:00 PM	131.499
	4/26/2006 12:06:04 PM	131.5
	4/26/2006 12:06:07 PM	131.499
	4/26/2006 12:06:11 PM	131.5
	4/26/2006 12:06:16 PM	131.5

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-16			**SEA-16**		
TROLL			TROLL		
	4/26/2006 12:06:20 PM	131.501		4/26/2006 12:24:54 PM	131.504
	4/26/2006 12:06:25 PM	131.499		4/26/2006 12:26:06 PM	131.504
	4/26/2006 12:06:30 PM	131.5		4/26/2006 12:27:24 PM	131.505
	4/26/2006 12:06:35 PM	131.498		4/26/2006 12:28:42 PM	131.506
	4/26/2006 12:06:41 PM	131.499		4/26/2006 12:30:06 PM	131.507
	4/26/2006 12:06:47 PM	131.499		4/26/2006 12:31:36 PM	131.506
	4/26/2006 12:06:53 PM	131.499		4/26/2006 12:33:12 PM	131.507
	4/26/2006 12:06:59 PM	131.5		4/26/2006 12:34:48 PM	131.505
	4/26/2006 12:07:07 PM	131.498		4/26/2006 12:36:36 PM	131.506
	4/26/2006 12:07:14 PM	131.5		4/26/2006 12:38:30 PM	131.506
	4/26/2006 12:07:22 PM	131.5		4/26/2006 12:40:30 PM	131.506
	4/26/2006 12:07:31 PM	131.5		4/26/2006 12:42:36 PM	131.508
	4/26/2006 12:07:40 PM	131.499		4/26/2006 12:44:48 PM	131.507
	4/26/2006 12:07:49 PM	131.5		4/26/2006 12:47:12 PM	131.508
	4/26/2006 12:07:59 PM	131.499		4/26/2006 12:49:42 PM	131.508
	4/26/2006 12:08:10 PM	131.498		4/26/2006 12:52:18 PM	131.508
	4/26/2006 12:08:21 PM	131.5		4/26/2006 12:55:06 PM	131.511
	4/26/2006 12:08:33 PM	131.501		4/26/2006 12:58:06 PM	131.509
	4/26/2006 12:08:46 PM	131.5		4/26/2006 1:01:12 PM	131.509
	4/26/2006 12:08:59 PM	131.499		4/26/2006 1:04:36 PM	131.509
	4/26/2006 12:09:13 PM	131.501		4/26/2006 1:08:06 PM	131.51
	4/26/2006 12:09:28 PM	131.499		4/26/2006 1:11:48 PM	131.511
	4/26/2006 12:09:44 PM	131.501		4/26/2006 1:15:48 PM	131.511
	4/26/2006 12:10:01 PM	131.501		4/26/2006 1:20:00 PM	131.512
	4/26/2006 12:10:19 PM	131.5		4/26/2006 1:24:24 PM	131.511
	4/26/2006 12:10:37 PM	131.499		4/26/2006 1:29:06 PM	131.514
	4/26/2006 12:10:58 PM	131.499		4/26/2006 1:34:06 PM	131.513
	4/26/2006 12:11:19 PM	131.501		4/26/2006 1:39:24 PM	131.514
	4/26/2006 12:11:41 PM	131.5		4/26/2006 1:45:00 PM	131.514
	4/26/2006 12:12:05 PM	131.501		4/26/2006 1:51:00 PM	131.514
	4/26/2006 12:12:30 PM	131.501		4/26/2006 1:57:00 PM	131.513
	4/26/2006 12:12:56 PM	131.502		4/26/2006 2:04:00 PM	131.515
	4/26/2006 12:13:25 PM	131.5		4/26/2006 2:11:00 PM	131.516
	4/26/2006 12:13:55 PM	131.502		4/26/2006 2:18:00 PM	131.518
	4/26/2006 12:14:26 PM	131.501		4/26/2006 2:26:00 PM	131.514
	4/26/2006 12:15:00 PM	131.502		4/26/2006 2:35:00 PM	131.516
	4/26/2006 12:15:36 PM	131.501		4/26/2006 2:43:00 PM	131.517
	4/26/2006 12:16:12 PM	131.503		4/26/2006 2:53:00 PM	131.518
	4/26/2006 12:16:54 PM	131.503		4/26/2006 3:03:00 PM	131.517
	4/26/2006 12:17:36 PM	131.503		4/26/2006 3:13:00 PM	131.518
	4/26/2006 12:18:18 PM	131.504		4/26/2006 3:24:00 PM	131.519
	4/26/2006 12:19:06 PM	131.502		4/26/2006 3:36:00 PM	131.518
	4/26/2006 12:20:00 PM	131.504		4/26/2006 3:49:00 PM	131.519
	4/26/2006 12:20:48 PM	131.502		4/26/2006 4:02:00 PM	131.52
	4/26/2006 12:21:48 PM	131.503		4/26/2006 4:16:00 PM	131.52
	4/26/2006 12:22:48 PM	131.503		4/26/2006 4:31:00 PM	131.52
	4/26/2006 12:23:48 PM	131.502		4/26/2006 4:47:00 PM	131.52

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-16			**SEA-16**		
TROLL			TROLL		
	4/26/2006 5:03:00 PM	131.519		4/29/2006 1:15:21 AM	130.546
	4/26/2006 5:21:00 PM	131.517		4/29/2006 3:15:21 AM	130.515
	4/26/2006 5:40:00 PM	131.517		4/29/2006 5:15:21 AM	130.484
	4/26/2006 6:00:00 PM	131.513		4/29/2006 7:15:21 AM	130.442
	4/26/2006 6:21:00 PM	131.51		4/29/2006 9:15:21 AM	130.405
	4/26/2006 6:43:00 PM	131.506		4/29/2006 11:15:21 AM	130.371
	4/26/2006 7:07:00 PM	131.502		4/29/2006 1:15:21 PM	130.359
	4/26/2006 7:32:00 PM	131.497		4/29/2006 3:15:21 PM	130.342
	4/26/2006 7:58:00 PM	131.489		4/29/2006 5:15:21 PM	130.325
	4/26/2006 8:26:00 PM	131.477		4/29/2006 7:15:21 PM	130.295
	4/26/2006 8:56:00 PM	131.467		4/29/2006 9:15:21 PM	130.256
	4/26/2006 9:27:00 PM	131.455		4/29/2006 11:15:21 PM	130.223
	4/26/2006 10:01:00 PM	131.441		4/30/2006 1:15:21 AM	130.19
	4/26/2006 10:36:00 PM	131.428		4/30/2006 3:15:21 AM	130.179
	4/26/2006 11:13:00 PM	131.42		4/30/2006 5:15:21 AM	130.149
	4/26/2006 11:53:00 PM	131.413		4/30/2006 7:15:21 AM	130.111
	4/27/2006 12:35:00 AM	131.405		4/30/2006 9:15:21 AM	130.073
	4/27/2006 1:19:00 AM	131.396		4/30/2006 11:15:21 AM	130.043
	4/27/2006 2:06:00 AM	131.386		4/30/2006 1:15:21 PM	130.021
	4/27/2006 2:56:00 AM	131.379		4/30/2006 3:15:21 PM	130.002
	4/27/2006 3:49:00 AM	131.367		4/30/2006 5:15:21 PM	129.984
	4/27/2006 4:45:00 AM	131.356		4/30/2006 7:15:21 PM	129.96
	4/27/2006 5:45:00 AM	131.343		4/30/2006 9:15:21 PM	129.928
	4/27/2006 6:45:00 AM	131.321		4/30/2006 11:15:21 PM	129.898
	4/27/2006 7:55:00 AM	131.296		5/1/2006 1:15:21 AM	129.864
	4/27/2006 9:05:00 AM	131.272		5/1/2006 3:15:21 AM	129.836
	4/27/2006 10:15:00 AM	131.255		5/1/2006 5:15:21 AM	129.804
	4/27/2006 11:35:00 AM	131.237		5/1/2006 7:15:21 AM	129.773
	4/27/2006 1:05:00 PM	131.229		5/1/2006 9:15:21 AM	129.743
	4/27/2006 2:25:00 PM	131.223		5/1/2006 11:15:21 AM	129.719
	4/27/2006 4:05:00 PM	131.2		5/1/2006 1:15:21 PM	129.7
	4/27/2006 5:45:00 PM	131.162		5/1/2006 3:15:21 PM	129.689
	4/27/2006 7:25:00 PM	131.107		5/1/2006 5:15:21 PM	129.666
	4/27/2006 9:15:00 PM	131.077		5/1/2006 7:15:21 PM	129.645
	4/27/2006 11:15:00 PM	131.024		5/1/2006 9:15:21 PM	129.628
	4/28/2006 1:15:00 AM	130.98		5/1/2006 11:15:21 PM	129.613
	4/28/2006 3:15:00 AM	130.941		5/2/2006 1:15:21 AM	129.605
	4/28/2006 5:15:00 AM	130.897		5/2/2006 3:15:21 AM	129.601
	4/28/2006 7:15:00 AM	130.846		5/2/2006 5:15:21 AM	129.597
	4/28/2006 9:15:00 AM	130.803		5/2/2006 7:15:21 AM	129.578
	4/28/2006 11:15:00 AM	130.768		5/2/2006 9:15:21 AM	129.568
	4/28/2006 1:15:21 PM	130.755		5/2/2006 11:15:21 AM	129.547
	4/28/2006 3:15:21 PM	130.732		5/2/2006 1:15:21 PM	129.526
	4/28/2006 5:15:21 PM	130.713		5/2/2006 3:15:21 PM	129.511
	4/28/2006 7:15:21 PM	130.674		5/2/2006 5:15:21 PM	129.492
	4/28/2006 9:15:21 PM	130.622		5/2/2006 7:15:21 PM	129.465
	4/28/2006 11:15:21 PM	130.581		5/2/2006 9:15:21 PM	129.439

Well	Date and Time	GWE (ft)
SEA-16		
TROLL		
	5/2/2006 11:15:21 PM	129.51
	5/3/2006 1:15:21 AM	129.534
	5/3/2006 3:15:21 AM	129.393
	5/3/2006 5:15:21 AM	129.366
	5/3/2006 7:15:21 AM	129.342
	5/3/2006 9:15:21 AM	129.321
	5/3/2006 11:15:21 AM	129.294
	5/3/2006 1:15:21 PM	129.276
	5/3/2006 3:15:21 PM	129.262
	5/3/2006 5:15:21 PM	129.244
	5/3/2006 7:15:21 PM	129.217
	5/3/2006 9:15:21 PM	129.189
	5/3/2006 11:15:21 PM	129.168
	5/4/2006 1:15:21 AM	129.157
	5/4/2006 3:15:21 AM	129.152
	5/4/2006 5:15:21 AM	129.137
	5/4/2006 7:15:21 AM	129.113
	5/4/2006 9:15:21 AM	129.083
	5/4/2006 11:15:21 AM	129.072
	5/4/2006 1:15:21 PM	129.077
	5/4/2006 3:15:21 PM	129.071
	5/4/2006 5:15:21 PM	129.06
	5/4/2006 7:15:21 PM	129.039
	5/4/2006 9:15:21 PM	129.015
	5/4/2006 11:15:21 PM	128.994
	5/5/2006 1:15:21 AM	128.987
	5/5/2006 3:15:21 AM	128.976
	5/5/2006 5:15:21 AM	128.953
	5/5/2006 7:15:21 AM	128.927
	5/5/2006 9:15:21 AM	128.899
	5/5/2006 11:15:21 AM	128.885
	5/5/2006 1:15:21 PM	128.879
	5/5/2006 3:15:21 PM	128.871
	5/5/2006 5:15:21 PM	128.857
	5/5/2006 7:15:21 PM	128.832
	5/5/2006 9:15:21 PM	128.796
	5/5/2006 11:15:21 PM	128.772
	5/6/2006 1:15:21 AM	128.751
	5/6/2006 3:15:21 AM	128.736
	5/6/2006 5:15:21 AM	128.718
	5/6/2006 7:15:21 AM	128.697
	5/6/2006 9:15:21 AM	128.677
	5/6/2006 11:15:21 AM	128.67
	5/6/2006 1:15:21 PM	128.656
	5/6/2006 3:15:21 PM	128.64
	5/6/2006 5:15:21 PM	128.623
	5/6/2006 7:15:21 PM	128.604

Well	Date and Time	GWE (ft)
SEA-16		
TROLL		
	5/6/2006 9:15:21 PM	128.555
	5/6/2006 11:15:21 PM	128.515
	5/7/2006 1:15:21 AM	128.485
	5/7/2006 3:15:21 AM	128.464
	5/7/2006 5:15:21 AM	128.442
	5/7/2006 7:15:21 AM	128.408
	5/7/2006 9:15:21 AM	128.381
	5/7/2006 11:15:21 AM	128.368
	5/7/2006 1:15:21 PM	128.37
	5/7/2006 3:15:21 PM	128.369
	5/7/2006 5:15:21 PM	128.361
	5/7/2006 7:15:21 PM	128.343
	5/7/2006 9:15:21 PM	128.311
	5/7/2006 11:15:21 PM	128.288
	5/8/2006 1:15:21 AM	128.276
	5/8/2006 3:15:21 AM	128.266
	5/8/2006 5:15:21 AM	128.248
	5/8/2006 7:15:21 AM	128.217
	5/8/2006 9:15:21 AM	128.199
	5/8/2006 11:15:21 AM	128.191
TROLL-rec		
	5/8/2006 1:00:00 PM	128.11
	5/8/2006 1:00:00 PM	128.108
	5/8/2006 1:00:00 PM	128.108
	5/8/2006 1:00:01 PM	128.109
	5/8/2006 1:00:01 PM	128.109
	5/8/2006 1:00:01 PM	128.107
	5/8/2006 1:00:01 PM	128.107
	5/8/2006 1:00:02 PM	128.109
	5/8/2006 1:00:02 PM	128.107
	5/8/2006 1:00:02 PM	128.109
	5/8/2006 1:00:02 PM	128.107
	5/8/2006 1:00:03 PM	128.107
	5/8/2006 1:00:03 PM	128.106
	5/8/2006 1:00:03 PM	128.108
	5/8/2006 1:00:03 PM	128.107
	5/8/2006 1:00:04 PM	128.106
	5/8/2006 1:00:04 PM	128.106
	5/8/2006 1:00:04 PM	128.107
	5/8/2006 1:00:04 PM	128.107
	5/8/2006 1:00:05 PM	128.106
	5/8/2006 1:00:05 PM	128.107
	5/8/2006 1:00:05 PM	128.107
	5/8/2006 1:00:05 PM	128.106
	5/8/2006 1:00:06 PM	128.107
	5/8/2006 1:00:06 PM	128.106
	5/8/2006 1:00:06 PM	128.106

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-16			**SEA-16**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:07 PM	128.106		5/8/2006 1:01:41 PM	128.11
	5/8/2006 1:00:07 PM	128.106		5/8/2006 1:01:47 PM	128.11
	5/8/2006 1:00:08 PM	128.107		5/8/2006 1:01:53 PM	128.109
	5/8/2006 1:00:08 PM	128.108		5/8/2006 1:01:59 PM	128.111
	5/8/2006 1:00:08 PM	128.108		5/8/2006 1:02:07 PM	128.109
	5/8/2006 1:00:09 PM	128.107		5/8/2006 1:02:14 PM	128.11
	5/8/2006 1:00:09 PM	128.106		5/8/2006 1:02:22 PM	128.11
	5/8/2006 1:00:10 PM	128.107		5/8/2006 1:02:31 PM	128.109
	5/8/2006 1:00:11 PM	128.107		5/8/2006 1:02:40 PM	128.109
	5/8/2006 1:00:11 PM	128.108		5/8/2006 1:02:49 PM	128.109
	5/8/2006 1:00:12 PM	128.108		5/8/2006 1:02:59 PM	128.11
	5/8/2006 1:00:13 PM	128.107		5/8/2006 1:03:10 PM	128.109
	5/8/2006 1:00:13 PM	128.108		5/8/2006 1:03:21 PM	128.11
	5/8/2006 1:00:14 PM	128.108		5/8/2006 1:03:33 PM	128.111
	5/8/2006 1:00:15 PM	128.108		5/8/2006 1:03:46 PM	128.11
	5/8/2006 1:00:16 PM	128.107		5/8/2006 1:03:59 PM	128.109
	5/8/2006 1:00:17 PM	128.107		5/8/2006 1:04:13 PM	128.109
	5/8/2006 1:00:18 PM	128.108		5/8/2006 1:04:28 PM	128.109
	5/8/2006 1:00:19 PM	128.108		5/8/2006 1:04:44 PM	128.109
	5/8/2006 1:00:20 PM	128.108		5/8/2006 1:05:01 PM	128.109
	5/8/2006 1:00:21 PM	128.108		5/8/2006 1:05:19 PM	128.108
	5/8/2006 1:00:23 PM	128.108		5/8/2006 1:05:37 PM	128.109
	5/8/2006 1:00:24 PM	128.109		5/8/2006 1:05:58 PM	128.109
	5/8/2006 1:00:25 PM	128.108		5/8/2006 1:06:19 PM	128.11
	5/8/2006 1:00:27 PM	128.109		5/8/2006 1:06:41 PM	128.11
	5/8/2006 1:00:28 PM	128.109		5/8/2006 1:07:05 PM	128.11
	5/8/2006 1:00:30 PM	128.109		5/8/2006 1:07:30 PM	128.108
	5/8/2006 1:00:32 PM	128.109		5/8/2006 1:07:56 PM	128.109
	5/8/2006 1:00:34 PM	128.109		5/8/2006 1:08:25 PM	128.109
	5/8/2006 1:00:36 PM	128.11		5/8/2006 1:08:55 PM	128.109
	5/8/2006 1:00:38 PM	128.109		5/8/2006 1:09:26 PM	128.108
	5/8/2006 1:00:40 PM	128.11		5/8/2006 1:10:00 PM	128.109
	5/8/2006 1:00:42 PM	128.11		5/8/2006 1:10:36 PM	128.109
	5/8/2006 1:00:45 PM	128.109		5/8/2006 1:11:12 PM	128.109
	5/8/2006 1:00:48 PM	128.109		5/8/2006 1:11:54 PM	128.111
	5/8/2006 1:00:50 PM	128.109		5/8/2006 1:12:36 PM	128.109
	5/8/2006 1:00:53 PM	128.108		5/8/2006 1:13:18 PM	128.109
	5/8/2006 1:00:57 PM	128.11		5/8/2006 1:14:06 PM	128.109
	5/8/2006 1:01:00 PM	128.11		5/8/2006 1:15:00 PM	128.108
	5/8/2006 1:01:04 PM	128.11		5/8/2006 1:15:48 PM	128.108
	5/8/2006 1:01:07 PM	128.109		5/8/2006 1:16:48 PM	128.11
	5/8/2006 1:01:11 PM	128.109		5/8/2006 1:17:48 PM	128.109
	5/8/2006 1:01:16 PM	128.109		5/8/2006 1:18:48 PM	128.11
	5/8/2006 1:01:20 PM	128.108		5/8/2006 1:19:54 PM	128.109
	5/8/2006 1:01:25 PM	128.109		5/8/2006 1:21:06 PM	128.109
	5/8/2006 1:01:30 PM	128.108		5/8/2006 1:22:24 PM	128.108
	5/8/2006 1:01:35 PM	128.108		5/8/2006 1:23:42 PM	128.108

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-16			**SEA-16**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:25:06 PM	128.108		5/8/2006 7:16:00 PM	128.132
	5/8/2006 1:26:36 PM	128.109		5/8/2006 7:38:00 PM	128.131
	5/8/2006 1:28:12 PM	128.108		5/8/2006 8:02:00 PM	128.129
	5/8/2006 1:29:48 PM	128.109		5/8/2006 8:27:00 PM	128.131
	5/8/2006 1:31:36 PM	128.11		5/8/2006 8:53:00 PM	128.132
	5/8/2006 1:33:30 PM	128.108		5/8/2006 9:21:00 PM	128.134
	5/8/2006 1:35:30 PM	128.108		5/8/2006 9:51:00 PM	128.137
	5/8/2006 1:37:36 PM	128.108		5/8/2006 10:22:00 PM	128.139
	5/8/2006 1:39:48 PM	128.109		5/8/2006 10:56:00 PM	128.141
	5/8/2006 1:42:12 PM	128.109		5/8/2006 11:31:00 PM	128.146
	5/8/2006 1:44:42 PM	128.108		5/9/2006 12:08:00 AM	128.151
	5/8/2006 1:47:18 PM	128.109		5/9/2006 12:48:00 AM	128.157
	5/8/2006 1:50:06 PM	128.108		5/9/2006 1:30:00 AM	128.161
	5/8/2006 1:53:06 PM	128.109		5/9/2006 2:14:00 AM	128.17
	5/8/2006 1:56:12 PM	128.109		5/9/2006 3:01:00 AM	128.176
	5/8/2006 1:59:36 PM	128.11		5/9/2006 3:51:00 AM	128.181
	5/8/2006 2:03:06 PM	128.11		5/9/2006 4:44:00 AM	128.184
	5/8/2006 2:06:48 PM	128.109		5/9/2006 5:40:00 AM	128.183
	5/8/2006 2:10:48 PM	128.11		5/9/2006 6:40:00 AM	128.183
	5/8/2006 2:15:00 PM	128.11		5/9/2006 7:40:00 AM	128.189
	5/8/2006 2:19:24 PM	128.111		5/9/2006 8:50:00 AM	128.194
	5/8/2006 2:24:06 PM	128.111		5/9/2006 10:00:00 AM	128.205
	5/8/2006 2:29:06 PM	128.112		5/9/2006 11:10:00 AM	128.212
	5/8/2006 2:34:24 PM	128.113		5/9/2006 12:30:00 PM	128.231
	5/8/2006 2:40:00 PM	128.113		5/9/2006 2:00:00 PM	128.229
	5/8/2006 2:46:00 PM	128.115		5/9/2006 3:20:00 PM	129.221
	5/8/2006 2:52:00 PM	128.114		5/9/2006 5:00:00 PM	129.035
	5/8/2006 2:59:00 PM	128.116		5/9/2006 6:40:00 PM	128.896
	5/8/2006 3:06:00 PM	128.118		5/9/2006 8:20:00 PM	128.349
	5/8/2006 3:13:00 PM	128.118		5/9/2006 10:10:00 PM	128.318
	5/8/2006 3:21:00 PM	128.12		5/10/2006 12:10:00 AM	128.333
	5/8/2006 3:30:00 PM	128.121		5/10/2006 2:10:00 AM	128.349
	5/8/2006 3:38:00 PM	128.123		5/10/2006 4:10:00 AM	128.367
	5/8/2006 3:48:00 PM	128.125		5/10/2006 6:10:00 AM	128.408
	5/8/2006 3:58:00 PM	128.126		5/10/2006 8:10:00 AM	128.376
	5/8/2006 4:08:00 PM	128.128		5/10/2006 10:10:00 AM	128.378
	5/8/2006 4:19:00 PM	128.129		5/10/2006 12:10:00 PM	128.387
	5/8/2006 4:31:00 PM	128.131		5/10/2006 2:10:00 PM	128.399
	5/8/2006 4:44:00 PM	128.133		5/10/2006 4:10:00 PM	128.419
	5/8/2006 4:57:00 PM	128.133		5/10/2006 6:10:00 PM	128.431
	5/8/2006 5:11:00 PM	128.135		5/10/2006 8:10:00 PM	128.444
	5/8/2006 5:26:00 PM	128.137		5/10/2006 10:10:00 PM	128.457
	5/8/2006 5:42:00 PM	128.136		5/11/2006 12:10:00 AM	128.47
	5/8/2006 5:58:00 PM	128.137		5/11/2006 2:10:00 AM	128.49
	5/8/2006 6:16:00 PM	128.137		5/11/2006 4:10:00 AM	128.509
	5/8/2006 6:35:00 PM	128.135		5/11/2006 6:10:00 AM	128.511
	5/8/2006 6:55:00 PM	128.135		5/11/2006 8:10:00 AM	128.519

Well	Date and Time	GWE (ft)
SEA-16		
TROLL-rec		
	5/11/2006 10:10:00 AM	128.527
	5/11/2006 12:10:00 PM	128.533
	5/11/2006 2:10:00 PM	128.555
	5/11/2006 4:10:00 PM	128.58
	5/11/2006 6:10:00 PM	128.595
	5/11/2006 8:10:00 PM	128.604
	5/11/2006 10:10:00 PM	128.612
	5/12/2006 12:10:00 AM	128.628
	5/12/2006 2:10:00 AM	128.648
	5/12/2006 4:10:00 AM	128.679
	5/12/2006 6:10:00 AM	128.689
	5/12/2006 8:10:00 AM	128.693
	5/12/2006 10:10:00 AM	128.699
	5/12/2006 12:10:00 PM	128.707
	5/12/2006 2:10:00 PM	128.725
	5/12/2006 4:10:00 PM	128.745
	5/12/2006 6:10:00 PM	128.759
	5/12/2006 8:10:00 PM	128.768
	5/12/2006 10:10:00 PM	129.049
	5/13/2006 12:10:00 AM	128.904
	5/13/2006 2:10:00 AM	128.824
	5/13/2006 4:10:00 AM	128.91
	5/13/2006 6:10:00 AM	129.139
	5/13/2006 8:10:00 AM	129.327
	5/13/2006 10:10:00 AM	128.936
	5/13/2006 12:10:00 PM	128.869
	5/13/2006 2:10:00 PM	129.183
	5/13/2006 4:10:00 PM	129.381
	5/13/2006 6:10:00 PM	129.404
	5/13/2006 8:10:00 PM	129.131
	5/13/2006 10:10:00 PM	128.966
	5/14/2006 12:10:00 AM	128.981
	5/14/2006 2:10:00 AM	129.004
	5/14/2006 4:10:00 AM	129.051
	5/14/2006 6:10:00 AM	129.089
	5/14/2006 8:10:00 AM	129.207
	5/14/2006 10:10:00 AM	129.302
	5/14/2006 12:10:00 PM	129.168
	5/14/2006 2:10:00 PM	129.193
	5/14/2006 4:10:00 PM	129.201
	5/14/2006 6:10:00 PM	129.177
	5/14/2006 8:10:00 PM	129.19
	5/14/2006 10:10:00 PM	129.206
	5/15/2006 12:10:00 AM	129.228
	5/15/2006 2:10:00 AM	129.25
	5/15/2006 4:10:00 AM	129.279
	5/15/2006 6:10:00 AM	129.306
SEA-16		
TROLL-rec		
	5/15/2006 8:10:00 AM	129.39
	5/15/2006 10:10:00 AM	129.348
	5/15/2006 12:10:00 PM	129.366
	5/15/2006 2:10:00 PM	129.394
	5/15/2006 4:10:00 PM	129.443
	5/15/2006 6:10:00 PM	129.467
	5/15/2006 8:10:00 PM	129.488
	5/15/2006 10:10:00 PM	129.497
	5/16/2006 12:10:00 AM	129.523
	5/16/2006 2:10:00 AM	129.556
	5/16/2006 4:10:00 AM	129.585
	5/16/2006 6:10:00 AM	129.646
	5/16/2006 8:10:00 AM	129.674
	5/16/2006 10:10:00 AM	129.691
	5/16/2006 12:10:00 PM	129.779
	5/16/2006 2:10:00 PM	129.741
	5/16/2006 4:10:00 PM	129.778
	5/16/2006 6:10:00 PM	129.817
	5/16/2006 8:10:00 PM	129.785
	5/16/2006 10:10:00 PM	129.778
	5/17/2006 12:10:00 AM	129.788
	5/17/2006 2:10:00 AM	129.8
	5/17/2006 4:10:00 AM	129.812
	5/17/2006 6:10:00 AM	129.822
	5/17/2006 8:10:00 AM	129.835
	5/17/2006 10:10:00 AM	129.844
SEA-17		
Manual		
	4/14/2006 12:17:00 PM	127.9
	4/21/2006 11:43:00 AM	127.92
	4/25/2006 11:37:00 AM	127.68
	4/26/2006 10:00:00 AM	127.69
	4/27/2006 5:46:00 PM	119.66
	4/28/2006 11:19:00 AM	118.38
	4/28/2006 2:16:00 PM	118.19
	4/29/2006 1:31:00 PM	117.2
	4/30/2006 9:36:00 AM	115.97
	4/30/2006 4:40:00 PM	116.32
	5/1/2006 7:42:00 AM	115.84
	5/1/2006 12:43:00 PM	115.69
	5/3/2006 7:43:00 AM	115.78
	5/4/2006 1:45:00 PM	115.43
	5/5/2006 3:23:00 PM	115.07
	5/6/2006 2:00:00 PM	114.75
	5/9/2006 10:41:00 AM	119.17
TROLL		

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-17			**SEA-17**		
TROLL			TROLL		
	4/26/2006 12:05:00 PM	127.69		4/26/2006 12:05:23 PM	127.685
	4/26/2006 12:05:00 PM	127.689		4/26/2006 12:05:24 PM	127.685
	4/26/2006 12:05:00 PM	127.687		4/26/2006 12:05:25 PM	127.687
	4/26/2006 12:05:01 PM	127.686		4/26/2006 12:05:27 PM	127.686
	4/26/2006 12:05:01 PM	127.683		4/26/2006 12:05:28 PM	127.687
	4/26/2006 12:05:01 PM	127.689		4/26/2006 12:05:30 PM	127.685
	4/26/2006 12:05:01 PM	127.689		4/26/2006 12:05:32 PM	127.306
	4/26/2006 12:05:02 PM	127.69		4/26/2006 12:05:34 PM	127.32
	4/26/2006 12:05:02 PM	127.687		4/26/2006 12:05:36 PM	127.038
	4/26/2006 12:05:02 PM	127.686		4/26/2006 12:05:38 PM	126.736
	4/26/2006 12:05:02 PM	127.685		4/26/2006 12:05:40 PM	126.442
	4/26/2006 12:05:03 PM	127.685		4/26/2006 12:05:42 PM	126.129
	4/26/2006 12:05:03 PM	127.684		4/26/2006 12:05:45 PM	125.831
	4/26/2006 12:05:03 PM	127.685		4/26/2006 12:05:48 PM	125.556
	4/26/2006 12:05:03 PM	127.691		4/26/2006 12:05:50 PM	125.303
	4/26/2006 12:05:04 PM	127.691		4/26/2006 12:05:53 PM	125.077
	4/26/2006 12:05:04 PM	127.682		4/26/2006 12:05:57 PM	124.873
	4/26/2006 12:05:04 PM	127.689		4/26/2006 12:06:00 PM	124.702
	4/26/2006 12:05:04 PM	127.689		4/26/2006 12:06:04 PM	124.561
	4/26/2006 12:05:05 PM	127.69		4/26/2006 12:06:07 PM	124.456
	4/26/2006 12:05:05 PM	127.689		4/26/2006 12:06:11 PM	124.351
	4/26/2006 12:05:05 PM	127.681		4/26/2006 12:06:16 PM	124.271
	4/26/2006 12:05:05 PM	127.686		4/26/2006 12:06:20 PM	124.216
	4/26/2006 12:05:06 PM	127.681		4/26/2006 12:06:25 PM	124.164
	4/26/2006 12:05:06 PM	127.68		4/26/2006 12:06:30 PM	124.115
	4/26/2006 12:05:06 PM	127.687		4/26/2006 12:06:35 PM	124.093
	4/26/2006 12:05:07 PM	127.682		4/26/2006 12:06:41 PM	124.06
	4/26/2006 12:05:07 PM	127.688		4/26/2006 12:06:47 PM	124.044
	4/26/2006 12:05:08 PM	127.683		4/26/2006 12:06:53 PM	124.029
	4/26/2006 12:05:08 PM	127.681		4/26/2006 12:06:59 PM	124.02
	4/26/2006 12:05:08 PM	127.684		4/26/2006 12:07:07 PM	124.007
	4/26/2006 12:05:09 PM	127.684		4/26/2006 12:07:14 PM	123.999
	4/26/2006 12:05:09 PM	127.691		4/26/2006 12:07:22 PM	123.994
	4/26/2006 12:05:10 PM	127.686		4/26/2006 12:07:31 PM	123.986
	4/26/2006 12:05:11 PM	127.685		4/26/2006 12:07:40 PM	123.971
	4/26/2006 12:05:11 PM	127.686		4/26/2006 12:07:49 PM	123.963
	4/26/2006 12:05:12 PM	127.689		4/26/2006 12:07:59 PM	123.954
	4/26/2006 12:05:13 PM	127.694		4/26/2006 12:08:10 PM	123.958
	4/26/2006 12:05:13 PM	127.687		4/26/2006 12:08:21 PM	123.958
	4/26/2006 12:05:14 PM	127.687		4/26/2006 12:08:33 PM	123.955
	4/26/2006 12:05:15 PM	127.69		4/26/2006 12:08:46 PM	123.959
	4/26/2006 12:05:16 PM	127.69		4/26/2006 12:08:59 PM	123.967
	4/26/2006 12:05:17 PM	127.691		4/26/2006 12:09:13 PM	123.975
	4/26/2006 12:05:18 PM	127.689		4/26/2006 12:09:28 PM	123.973
	4/26/2006 12:05:19 PM	127.683		4/26/2006 12:09:44 PM	123.96
	4/26/2006 12:05:20 PM	127.692		4/26/2006 12:10:01 PM	123.947
	4/26/2006 12:05:21 PM	127.685		4/26/2006 12:10:19 PM	123.939

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-17			**SEA-17**		
TROLL			TROLL		
	4/26/2006 12:10:37 PM	123.932		4/26/2006 1:29:06 PM	123.412
	4/26/2006 12:10:58 PM	123.931		4/26/2006 1:34:06 PM	123.393
	4/26/2006 12:11:19 PM	123.932		4/26/2006 1:39:24 PM	123.376
	4/26/2006 12:11:41 PM	123.93		4/26/2006 1:45:00 PM	123.34
	4/26/2006 12:12:05 PM	123.926		4/26/2006 1:51:00 PM	123.321
	4/26/2006 12:12:30 PM	123.918		4/26/2006 1:57:00 PM	123.299
	4/26/2006 12:12:56 PM	123.916		4/26/2006 2:04:00 PM	123.275
	4/26/2006 12:13:25 PM	123.931		4/26/2006 2:11:00 PM	123.244
	4/26/2006 12:13:55 PM	123.932		4/26/2006 2:18:00 PM	123.217
	4/26/2006 12:14:26 PM	123.931		4/26/2006 2:26:00 PM	123.182
	4/26/2006 12:15:00 PM	123.93		4/26/2006 2:35:00 PM	123.148
	4/26/2006 12:15:36 PM	123.917		4/26/2006 2:43:00 PM	123.124
	4/26/2006 12:16:12 PM	123.913		4/26/2006 2:53:00 PM	123.085
	4/26/2006 12:16:54 PM	123.912		4/26/2006 3:03:00 PM	123.049
	4/26/2006 12:17:36 PM	123.902		4/26/2006 3:13:00 PM	123.012
	4/26/2006 12:18:18 PM	123.9		4/26/2006 3:24:00 PM	122.975
	4/26/2006 12:19:06 PM	123.902		4/26/2006 3:36:00 PM	122.934
	4/26/2006 12:20:00 PM	123.883		4/26/2006 3:49:00 PM	122.887
	4/26/2006 12:20:48 PM	123.861		4/26/2006 4:02:00 PM	122.849
	4/26/2006 12:21:48 PM	123.849		4/26/2006 4:16:00 PM	122.799
	4/26/2006 12:22:48 PM	123.836		4/26/2006 4:31:00 PM	122.768
	4/26/2006 12:23:48 PM	123.829		4/26/2006 4:47:00 PM	122.721
	4/26/2006 12:24:54 PM	123.823		4/26/2006 5:03:00 PM	122.675
	4/26/2006 12:26:06 PM	123.808		4/26/2006 5:21:00 PM	122.618
	4/26/2006 12:27:24 PM	123.807		4/26/2006 5:40:00 PM	122.557
	4/26/2006 12:28:42 PM	123.788		4/26/2006 6:00:00 PM	122.486
	4/26/2006 12:30:06 PM	123.778		4/26/2006 6:21:00 PM	122.429
	4/26/2006 12:31:36 PM	123.772		4/26/2006 6:43:00 PM	122.379
	4/26/2006 12:33:12 PM	123.744		4/26/2006 7:07:00 PM	122.311
	4/26/2006 12:34:48 PM	123.733		4/26/2006 7:32:00 PM	122.258
	4/26/2006 12:36:36 PM	123.72		4/26/2006 7:58:00 PM	122.193
	4/26/2006 12:38:30 PM	123.703		4/26/2006 8:26:00 PM	122.123
	4/26/2006 12:40:30 PM	123.688		4/26/2006 8:56:00 PM	122.055
	4/26/2006 12:42:36 PM	123.675		4/26/2006 9:27:00 PM	121.984
	4/26/2006 12:44:48 PM	123.657		4/26/2006 10:01:00 PM	121.918
	4/26/2006 12:47:12 PM	123.637		4/26/2006 10:36:00 PM	121.832
	4/26/2006 12:49:42 PM	123.621		4/26/2006 11:13:00 PM	121.76
	4/26/2006 12:52:18 PM	123.605		4/26/2006 11:53:00 PM	121.665
	4/26/2006 12:55:06 PM	123.585		4/27/2006 12:35:00 AM	121.578
	4/26/2006 12:58:06 PM	123.565		4/27/2006 1:19:00 AM	121.495
	4/26/2006 1:01:12 PM	123.547		4/27/2006 2:06:00 AM	121.419
	4/26/2006 1:04:36 PM	123.533		4/27/2006 2:56:00 AM	121.319
	4/26/2006 1:08:06 PM	123.506		4/27/2006 3:49:00 AM	121.233
	4/26/2006 1:11:48 PM	123.492		4/27/2006 4:45:00 AM	121.136
	4/26/2006 1:15:48 PM	123.476		4/27/2006 5:45:00 AM	121.039
	4/26/2006 1:20:00 PM	123.456		4/27/2006 6:45:00 AM	120.928
	4/26/2006 1:24:24 PM	123.444		4/27/2006 7:55:00 AM	120.816

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-17			**SEA-17**		
TROLL			TROLL		
	4/27/2006 9:05:00 AM	120.708		5/1/2006 3:15:26 AM	116.018
	4/27/2006 10:15:00 AM	120.606		5/1/2006 5:15:26 AM	115.956
	4/27/2006 11:35:00 AM	120.484		5/1/2006 7:15:26 AM	115.898
	4/27/2006 1:05:00 PM	120.369		5/1/2006 9:15:26 AM	115.828
	4/27/2006 2:25:00 PM	120.263		5/1/2006 11:15:26 AM	115.761
	4/27/2006 4:05:00 PM	120.131		5/1/2006 1:15:26 PM	115.703
	4/27/2006 5:45:00 PM	119.68		5/1/2006 3:15:26 PM	116.231
	4/27/2006 7:25:00 PM	119.532		5/1/2006 5:15:26 PM	116.224
	4/27/2006 9:15:00 PM	119.373		5/1/2006 7:15:26 PM	116.2
	4/27/2006 11:15:00 PM	119.227		5/1/2006 9:15:26 PM	116.173
	4/28/2006 1:15:00 AM	119.078		5/1/2006 11:15:26 PM	116.154
	4/28/2006 3:15:00 AM	118.955		5/2/2006 1:15:26 AM	116.122
	4/28/2006 5:15:00 AM	118.808		5/2/2006 3:15:26 AM	116.093
	4/28/2006 7:15:00 AM	118.668		5/2/2006 5:15:26 AM	116.066
	4/28/2006 9:15:00 AM	118.538		5/2/2006 7:15:26 AM	116.034
	4/28/2006 11:15:00 AM	118.414		5/2/2006 9:15:26 AM	115.996
	4/28/2006 1:15:26 PM	118.292		5/2/2006 11:15:26 AM	115.958
	4/28/2006 3:15:26 PM	118.17		5/2/2006 1:15:26 PM	115.926
	4/28/2006 5:15:26 PM	118.05		5/2/2006 3:15:26 PM	115.887
	4/28/2006 7:15:26 PM	117.869		5/2/2006 5:15:26 PM	115.855
	4/28/2006 9:15:26 PM	117.764		5/2/2006 7:15:26 PM	115.967
	4/28/2006 11:15:26 PM	117.65		5/2/2006 9:15:26 PM	115.925
	4/29/2006 1:15:26 AM	117.539		5/2/2006 11:15:26 PM	115.907
	4/29/2006 3:15:26 AM	117.43		5/3/2006 1:15:26 AM	115.891
	4/29/2006 5:15:26 AM	117.326		5/3/2006 3:15:26 AM	115.871
	4/29/2006 7:15:26 AM	117.228		5/3/2006 5:15:26 AM	115.852
	4/29/2006 9:15:26 AM	117.136		5/3/2006 7:15:26 AM	115.828
	4/29/2006 11:15:26 AM	117.036		5/3/2006 9:15:26 AM	115.806
	4/29/2006 1:15:26 PM	116.943		5/3/2006 11:15:26 AM	115.782
	4/29/2006 3:15:26 PM	116.846		5/3/2006 1:15:26 PM	115.765
	4/29/2006 5:15:26 PM	116.75		5/3/2006 3:15:26 PM	115.743
	4/29/2006 7:15:26 PM	116.656		5/3/2006 5:15:26 PM	115.717
	4/29/2006 9:15:26 PM	116.559		5/3/2006 7:15:26 PM	115.698
	4/29/2006 11:15:26 PM	116.474		5/3/2006 9:15:26 PM	115.674
	4/30/2006 1:15:26 AM	116.347		5/3/2006 11:15:26 PM	115.656
	4/30/2006 3:15:26 AM	116.271		5/4/2006 1:15:26 AM	115.628
	4/30/2006 5:15:26 AM	116.178		5/4/2006 3:15:26 AM	115.604
	4/30/2006 7:15:26 AM	116.099		5/4/2006 5:15:26 AM	115.575
	4/30/2006 9:15:26 AM	116.019		5/4/2006 7:15:26 AM	115.552
	4/30/2006 11:15:26 AM	115.957		5/4/2006 9:15:26 AM	115.525
	4/30/2006 1:15:26 PM	116.425		5/4/2006 11:15:26 AM	115.502
	4/30/2006 3:15:26 PM	116.38		5/4/2006 1:15:26 PM	115.471
	4/30/2006 5:15:26 PM	116.336		5/4/2006 3:15:26 PM	115.452
	4/30/2006 7:15:26 PM	116.279		5/4/2006 5:15:26 PM	115.42
	4/30/2006 9:15:26 PM	116.213		5/4/2006 7:15:26 PM	115.398
	4/30/2006 11:15:26 PM	116.15		5/4/2006 9:15:26 PM	115.368
	5/1/2006 1:15:26 AM	116.08		5/4/2006 11:15:26 PM	115.337

Well	Date and Time	GWE (ft)
SEA-17		
TROLL		
	5/5/2006 1:15:26 AM	115.313
	5/5/2006 3:15:26 AM	115.278
	5/5/2006 5:15:26 AM	115.255
	5/5/2006 7:15:26 AM	115.228
	5/5/2006 9:15:26 AM	115.195
	5/5/2006 11:15:26 AM	115.171
	5/5/2006 1:15:26 PM	115.145
	5/5/2006 3:15:26 PM	115.115
	5/5/2006 5:15:26 PM	115.083
	5/5/2006 7:15:26 PM	115.058
	5/5/2006 9:15:26 PM	115.026
	5/5/2006 11:15:26 PM	114.996
	5/6/2006 1:15:26 AM	114.964
	5/6/2006 3:15:26 AM	114.937
	5/6/2006 5:15:26 AM	114.908
	5/6/2006 7:15:26 AM	114.884
	5/6/2006 9:15:26 AM	114.852
	5/6/2006 11:15:26 AM	114.824
	5/6/2006 1:15:26 PM	114.792
	5/6/2006 3:15:26 PM	114.765
	5/6/2006 5:15:26 PM	114.735
	5/6/2006 7:15:26 PM	114.709
	5/6/2006 9:15:26 PM	114.682
	5/6/2006 11:15:26 PM	114.643
	5/7/2006 1:15:26 AM	114.616
	5/7/2006 3:15:26 AM	114.591
	5/7/2006 5:15:26 AM	114.56
	5/7/2006 7:15:26 AM	114.531
	5/7/2006 9:15:26 AM	114.505
	5/7/2006 11:15:26 AM	114.479
	5/7/2006 1:15:26 PM	114.454
	5/7/2006 3:15:26 PM	114.425
	5/7/2006 5:15:26 PM	114.4
	5/7/2006 7:15:26 PM	114.37
	5/7/2006 9:15:26 PM	114.339
	5/7/2006 11:15:26 PM	114.31
	5/8/2006 1:15:26 AM	114.288
	5/8/2006 3:15:26 AM	114.253
	5/8/2006 5:15:26 AM	114.225
	5/8/2006 7:15:26 AM	114.201
	5/8/2006 9:15:26 AM	114.173
	5/8/2006 11:15:26 AM	114.151
TROLL-rec		
	5/8/2006 1:00:00 PM	114.127
	5/8/2006 1:00:00 PM	114.134
	5/8/2006 1:00:00 PM	114.128
	5/8/2006 1:00:01 PM	114.125

Well	Date and Time	GWE (ft)
SEA-17		
TROLL-rec		
	5/8/2006 1:00:01 PM	114.125
	5/8/2006 1:00:01 PM	114.125
	5/8/2006 1:00:01 PM	114.126
	5/8/2006 1:00:02 PM	114.127
	5/8/2006 1:00:02 PM	114.125
	5/8/2006 1:00:02 PM	114.13
	5/8/2006 1:00:02 PM	114.129
	5/8/2006 1:00:03 PM	114.124
	5/8/2006 1:00:03 PM	114.126
	5/8/2006 1:00:03 PM	114.129
	5/8/2006 1:00:03 PM	114.123
	5/8/2006 1:00:04 PM	114.129
	5/8/2006 1:00:04 PM	114.124
	5/8/2006 1:00:04 PM	114.126
	5/8/2006 1:00:04 PM	114.125
	5/8/2006 1:00:05 PM	114.123
	5/8/2006 1:00:05 PM	114.125
	5/8/2006 1:00:05 PM	114.127
	5/8/2006 1:00:05 PM	114.12
	5/8/2006 1:00:06 PM	114.124
	5/8/2006 1:00:06 PM	114.124
	5/8/2006 1:00:06 PM	114.127
	5/8/2006 1:00:07 PM	114.126
	5/8/2006 1:00:07 PM	114.128
	5/8/2006 1:00:08 PM	114.127
	5/8/2006 1:00:08 PM	114.128
	5/8/2006 1:00:08 PM	114.128
	5/8/2006 1:00:09 PM	114.123
	5/8/2006 1:00:09 PM	114.128
	5/8/2006 1:00:10 PM	114.13
	5/8/2006 1:00:11 PM	114.129
	5/8/2006 1:00:11 PM	114.127
	5/8/2006 1:00:12 PM	114.13
	5/8/2006 1:00:13 PM	114.129
	5/8/2006 1:00:13 PM	114.125
	5/8/2006 1:00:14 PM	114.124
	5/8/2006 1:00:15 PM	114.128
	5/8/2006 1:00:16 PM	114.129
	5/8/2006 1:00:17 PM	114.126
	5/8/2006 1:00:18 PM	114.127
	5/8/2006 1:00:19 PM	114.127
	5/8/2006 1:00:20 PM	114.128
	5/8/2006 1:00:21 PM	114.129
	5/8/2006 1:00:23 PM	114.126
	5/8/2006 1:00:24 PM	114.13
	5/8/2006 1:00:25 PM	114.127
	5/8/2006 1:00:27 PM	114.128

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-17			**SEA-17**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:28 PM	114.132		5/8/2006 1:07:05 PM	114.127
	5/8/2006 1:00:30 PM	114.13		5/8/2006 1:07:30 PM	114.125
	5/8/2006 1:00:32 PM	114.129		5/8/2006 1:07:56 PM	114.126
	5/8/2006 1:00:34 PM	114.13		5/8/2006 1:08:25 PM	114.127
	5/8/2006 1:00:36 PM	114.123		5/8/2006 1:08:55 PM	114.127
	5/8/2006 1:00:38 PM	114.127		5/8/2006 1:09:26 PM	114.128
	5/8/2006 1:00:40 PM	114.13		5/8/2006 1:10:00 PM	114.126
	5/8/2006 1:00:42 PM	114.131		5/8/2006 1:10:36 PM	114.13
	5/8/2006 1:00:45 PM	114.13		5/8/2006 1:11:12 PM	114.128
	5/8/2006 1:00:48 PM	114.128		5/8/2006 1:11:54 PM	114.123
	5/8/2006 1:00:50 PM	114.125		5/8/2006 1:12:36 PM	114.128
	5/8/2006 1:00:53 PM	114.128		5/8/2006 1:13:18 PM	114.125
	5/8/2006 1:00:57 PM	114.13		5/8/2006 1:14:06 PM	114.125
	5/8/2006 1:01:00 PM	114.126		5/8/2006 1:15:00 PM	114.124
	5/8/2006 1:01:04 PM	114.128		5/8/2006 1:15:48 PM	114.125
	5/8/2006 1:01:07 PM	114.132		5/8/2006 1:16:48 PM	114.124
	5/8/2006 1:01:11 PM	114.128		5/8/2006 1:17:48 PM	114.128
	5/8/2006 1:01:16 PM	114.128		5/8/2006 1:18:48 PM	114.123
	5/8/2006 1:01:20 PM	114.133		5/8/2006 1:19:54 PM	114.125
	5/8/2006 1:01:25 PM	114.126		5/8/2006 1:21:06 PM	114.13
	5/8/2006 1:01:30 PM	114.128		5/8/2006 1:22:24 PM	114.419
	5/8/2006 1:01:35 PM	114.132		5/8/2006 1:23:42 PM	116.569
	5/8/2006 1:01:41 PM	114.132		5/8/2006 1:25:06 PM	116.638
	5/8/2006 1:01:47 PM	114.125		5/8/2006 1:26:36 PM	116.667
	5/8/2006 1:01:53 PM	114.13		5/8/2006 1:28:12 PM	116.693
	5/8/2006 1:01:59 PM	114.125		5/8/2006 1:29:48 PM	116.709
	5/8/2006 1:02:07 PM	114.124		5/8/2006 1:31:36 PM	116.73
	5/8/2006 1:02:14 PM	114.126		5/8/2006 1:33:30 PM	116.747
	5/8/2006 1:02:22 PM	114.125		5/8/2006 1:35:30 PM	116.766
	5/8/2006 1:02:31 PM	114.123		5/8/2006 1:37:36 PM	116.782
	5/8/2006 1:02:40 PM	114.127		5/8/2006 1:39:48 PM	116.798
	5/8/2006 1:02:49 PM	114.128		5/8/2006 1:42:12 PM	116.813
	5/8/2006 1:02:59 PM	114.126		5/8/2006 1:44:42 PM	116.832
	5/8/2006 1:03:10 PM	114.126		5/8/2006 1:47:18 PM	116.846
	5/8/2006 1:03:21 PM	114.128		5/8/2006 1:50:06 PM	116.862
	5/8/2006 1:03:33 PM	114.125		5/8/2006 1:53:06 PM	116.879
	5/8/2006 1:03:46 PM	114.128		5/8/2006 1:56:12 PM	116.899
	5/8/2006 1:03:59 PM	114.13		5/8/2006 1:59:36 PM	116.913
	5/8/2006 1:04:13 PM	114.123		5/8/2006 2:03:06 PM	116.933
	5/8/2006 1:04:28 PM	114.127		5/8/2006 2:06:48 PM	116.947
	5/8/2006 1:04:44 PM	114.127		5/8/2006 2:10:48 PM	116.971
	5/8/2006 1:05:01 PM	114.128		5/8/2006 2:15:00 PM	117.045
	5/8/2006 1:05:19 PM	114.129		5/8/2006 2:19:24 PM	117.011
	5/8/2006 1:05:37 PM	114.126		5/8/2006 2:24:06 PM	117.022
	5/8/2006 1:05:58 PM	114.127		5/8/2006 2:29:06 PM	117.044
	5/8/2006 1:06:19 PM	114.128		5/8/2006 2:34:24 PM	117.058
	5/8/2006 1:06:41 PM	114.131		5/8/2006 2:40:00 PM	117.084

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-17			**SEA-17**		
TROLL-rec			TROLL-rec		
	5/8/2006 2:46:00 PM	117.106		5/9/2006 3:20:00 PM	119.5
	5/8/2006 2:52:00 PM	117.128		5/9/2006 5:00:00 PM	119.593
	5/8/2006 2:59:00 PM	117.145		5/9/2006 6:40:00 PM	119.692
	5/8/2006 3:06:00 PM	117.172		5/9/2006 8:20:00 PM	119.78
	5/8/2006 3:13:00 PM	117.195		5/9/2006 10:10:00 PM	119.878
	5/8/2006 3:21:00 PM	117.222		5/10/2006 12:10:00 AM	119.981
	5/8/2006 3:30:00 PM	117.25		5/10/2006 2:10:00 AM	120.076
	5/8/2006 3:38:00 PM	117.272		5/10/2006 4:10:00 AM	120.166
	5/8/2006 3:48:00 PM	117.297		5/10/2006 6:10:00 AM	120.262
	5/8/2006 3:58:00 PM	117.329		5/10/2006 8:10:00 AM	120.35
	5/8/2006 4:08:00 PM	117.357		5/10/2006 10:10:00 AM	120.437
	5/8/2006 4:19:00 PM	117.393		5/10/2006 12:10:00 PM	120.516
	5/8/2006 4:31:00 PM	117.419		5/10/2006 2:10:00 PM	120.599
	5/8/2006 4:44:00 PM	117.457		5/10/2006 4:10:00 PM	120.678
	5/8/2006 4:57:00 PM	117.488		5/10/2006 6:10:00 PM	120.754
	5/8/2006 5:11:00 PM	117.522		5/10/2006 8:10:00 PM	120.83
	5/8/2006 5:26:00 PM	117.56		5/10/2006 10:10:00 PM	120.904
	5/8/2006 5:42:00 PM	117.598		5/11/2006 12:10:00 AM	120.972
	5/8/2006 5:58:00 PM	117.636		5/11/2006 2:10:00 AM	121.043
	5/8/2006 6:16:00 PM	117.677		5/11/2006 4:10:00 AM	121.11
	5/8/2006 6:35:00 PM	117.715		5/11/2006 6:10:00 AM	121.174
	5/8/2006 6:55:00 PM	117.763		5/11/2006 8:10:00 AM	121.237
	5/8/2006 7:16:00 PM	117.805		5/11/2006 10:10:00 AM	121.298
	5/8/2006 7:38:00 PM	117.85		5/11/2006 12:10:00 PM	121.364
	5/8/2006 8:02:00 PM	117.901		5/11/2006 2:10:00 PM	121.426
	5/8/2006 8:27:00 PM	117.951		5/11/2006 4:10:00 PM	121.483
	5/8/2006 8:53:00 PM	118.002		5/11/2006 6:10:00 PM	121.542
	5/8/2006 9:21:00 PM	118.049		5/11/2006 8:10:00 PM	121.59
	5/8/2006 9:51:00 PM	118.112		5/11/2006 10:10:00 PM	121.646
	5/8/2006 10:22:00 PM	118.165		5/12/2006 12:10:00 AM	121.701
	5/8/2006 10:56:00 PM	118.223		5/12/2006 2:10:00 AM	121.756
	5/8/2006 11:31:00 PM	118.286		5/12/2006 4:10:00 AM	121.808
	5/9/2006 12:08:00 AM	118.348		5/12/2006 6:10:00 AM	121.856
	5/9/2006 12:48:00 AM	118.414		5/12/2006 8:10:00 AM	121.908
	5/9/2006 1:30:00 AM	118.48		5/12/2006 10:10:00 AM	121.96
	5/9/2006 2:14:00 AM	118.547		5/12/2006 12:10:00 PM	122.003
	5/9/2006 3:01:00 AM	118.615		5/12/2006 2:10:00 PM	122.052
	5/9/2006 3:51:00 AM	118.691		5/12/2006 4:10:00 PM	122.097
	5/9/2006 4:44:00 AM	118.758		5/12/2006 6:10:00 PM	122.149
	5/9/2006 5:40:00 AM	118.833		5/12/2006 8:10:00 PM	122.185
	5/9/2006 6:40:00 AM	118.914		5/12/2006 10:10:00 PM	122.227
	5/9/2006 7:40:00 AM	118.99		5/13/2006 12:10:00 AM	122.273
	5/9/2006 8:50:00 AM	119.075		5/13/2006 2:10:00 AM	122.316
	5/9/2006 10:00:00 AM	119.158		5/13/2006 4:10:00 AM	122.366
	5/9/2006 11:10:00 AM	119.231		5/13/2006 6:10:00 AM	122.395
	5/9/2006 12:30:00 PM	119.32		5/13/2006 8:10:00 AM	122.435
	5/9/2006 2:00:00 PM	119.418		5/13/2006 10:10:00 AM	122.478

Well	Date and Time	GWE (ft)
SEA-17		
TROLL-rec		
	5/13/2006 12:10:00 PM	122.512
	5/13/2006 2:10:00 PM	122.551
	5/13/2006 4:10:00 PM	122.59
	5/13/2006 6:10:00 PM	122.633
	5/13/2006 8:10:00 PM	122.671
	5/13/2006 10:10:00 PM	122.714
	5/14/2006 12:10:00 AM	122.764
	5/14/2006 2:10:00 AM	122.802
	5/14/2006 4:10:00 AM	122.846
	5/14/2006 6:10:00 AM	122.882
	5/14/2006 8:10:00 AM	122.924
	5/14/2006 10:10:00 AM	122.961
	5/14/2006 12:10:00 PM	123.008
	5/14/2006 2:10:00 PM	123.045
	5/14/2006 4:10:00 PM	123.091
	5/14/2006 6:10:00 PM	123.137
	5/14/2006 8:10:00 PM	123.18
	5/14/2006 10:10:00 PM	123.226
	5/15/2006 12:10:00 AM	123.274
	5/15/2006 2:10:00 AM	123.322
	5/15/2006 4:10:00 AM	123.361
	5/15/2006 6:10:00 AM	123.401
	5/15/2006 8:10:00 AM	123.441
	5/15/2006 10:10:00 AM	123.484
	5/15/2006 12:10:00 PM	123.528
SEA-18		
Manual		
	4/14/2006 12:28:00 PM	127.82
	4/21/2006 11:55:00 AM	127.6
	4/25/2006 11:45:00 AM	127.65
	4/26/2006 10:20:00 AM	127.64
	4/28/2006 11:36:00 AM	124.48
	4/28/2006 2:40:00 PM	124.35
	4/30/2006 9:46:00 AM	122.65
	4/30/2006 4:12:00 PM	122.44
	5/1/2006 7:57:00 AM	121.95
	5/1/2006 12:33:00 PM	121.81
	5/4/2006 2:00:00 PM	120.61
	5/5/2006 10:04:00 AM	120.34
	5/9/2006 10:50:00 AM	120.41
TROLL		
	4/26/2006 12:05:00 PM	127.64
	4/26/2006 12:05:00 PM	127.637
	4/26/2006 12:05:01 PM	127.641
	4/26/2006 12:05:01 PM	127.64
	4/26/2006 12:05:01 PM	127.639

Well	Date and Time	GWE (ft)
SEA-18		
TROLL		
	4/26/2006 12:05:01 PM	127.637
	4/26/2006 12:05:02 PM	127.637
	4/26/2006 12:05:02 PM	127.636
	4/26/2006 12:05:02 PM	127.641
	4/26/2006 12:05:02 PM	127.64
	4/26/2006 12:05:03 PM	127.638
	4/26/2006 12:05:03 PM	127.639
	4/26/2006 12:05:03 PM	127.638
	4/26/2006 12:05:03 PM	127.638
	4/26/2006 12:05:04 PM	127.637
	4/26/2006 12:05:04 PM	127.638
	4/26/2006 12:05:04 PM	127.637
	4/26/2006 12:05:04 PM	127.635
	4/26/2006 12:05:05 PM	127.637
	4/26/2006 12:05:05 PM	127.637
	4/26/2006 12:05:05 PM	127.635
	4/26/2006 12:05:05 PM	127.636
	4/26/2006 12:05:06 PM	127.635
	4/26/2006 12:05:06 PM	127.635
	4/26/2006 12:05:06 PM	127.635
	4/26/2006 12:05:06 PM	127.633
	4/26/2006 12:05:07 PM	127.634
	4/26/2006 12:05:07 PM	127.636
	4/26/2006 12:05:08 PM	127.635
	4/26/2006 12:05:08 PM	127.636
	4/26/2006 12:05:08 PM	127.638
	4/26/2006 12:05:09 PM	127.638
	4/26/2006 12:05:09 PM	127.637
	4/26/2006 12:05:10 PM	127.638
	4/26/2006 12:05:11 PM	127.64
	4/26/2006 12:05:11 PM	127.638
	4/26/2006 12:05:12 PM	127.639
	4/26/2006 12:05:13 PM	127.635
	4/26/2006 12:05:13 PM	127.635
	4/26/2006 12:05:14 PM	127.638
	4/26/2006 12:05:15 PM	127.637
	4/26/2006 12:05:16 PM	127.636
	4/26/2006 12:05:17 PM	127.637
	4/26/2006 12:05:18 PM	127.638
	4/26/2006 12:05:19 PM	127.639
	4/26/2006 12:05:20 PM	127.639
	4/26/2006 12:05:21 PM	127.638
	4/26/2006 12:05:23 PM	127.64
	4/26/2006 12:05:24 PM	127.639
	4/26/2006 12:05:25 PM	127.64
	4/26/2006 12:05:27 PM	127.641
	4/26/2006 12:05:28 PM	127.639

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-18			**SEA-18**		
TROLL			TROLL		
	4/26/2006 12:05:30 PM	127.637		4/26/2006 12:12:30 PM	127.627
	4/26/2006 12:05:32 PM	127.637		4/26/2006 12:12:56 PM	127.625
	4/26/2006 12:05:34 PM	127.642		4/26/2006 12:13:25 PM	127.623
	4/26/2006 12:05:36 PM	127.641		4/26/2006 12:13:55 PM	127.622
	4/26/2006 12:05:38 PM	127.637		4/26/2006 12:14:26 PM	127.621
	4/26/2006 12:05:40 PM	127.638		4/26/2006 12:15:00 PM	127.619
	4/26/2006 12:05:42 PM	127.638		4/26/2006 12:15:36 PM	127.617
	4/26/2006 12:05:45 PM	127.638		4/26/2006 12:16:12 PM	127.616
	4/26/2006 12:05:48 PM	127.638		4/26/2006 12:16:54 PM	127.614
	4/26/2006 12:05:50 PM	127.638		4/26/2006 12:17:36 PM	127.612
	4/26/2006 12:05:53 PM	127.638		4/26/2006 12:18:18 PM	127.609
	4/26/2006 12:05:57 PM	127.638		4/26/2006 12:19:06 PM	127.609
	4/26/2006 12:06:00 PM	127.638		4/26/2006 12:20:00 PM	127.605
	4/26/2006 12:06:04 PM	127.639		4/26/2006 12:20:48 PM	127.603
	4/26/2006 12:06:07 PM	127.643		4/26/2006 12:21:48 PM	127.6
	4/26/2006 12:06:11 PM	127.639		4/26/2006 12:22:48 PM	127.597
	4/26/2006 12:06:16 PM	127.639		4/26/2006 12:23:48 PM	127.593
	4/26/2006 12:06:20 PM	127.64		4/26/2006 12:24:54 PM	127.59
	4/26/2006 12:06:25 PM	127.638		4/26/2006 12:26:06 PM	127.585
	4/26/2006 12:06:30 PM	127.638		4/26/2006 12:27:24 PM	127.582
	4/26/2006 12:06:35 PM	127.639		4/26/2006 12:28:42 PM	127.578
	4/26/2006 12:06:41 PM	127.639		4/26/2006 12:30:06 PM	127.573
	4/26/2006 12:06:47 PM	127.639		4/26/2006 12:31:36 PM	127.567
	4/26/2006 12:06:53 PM	127.638		4/26/2006 12:33:12 PM	127.564
	4/26/2006 12:06:59 PM	127.64		4/26/2006 12:34:48 PM	127.559
	4/26/2006 12:07:07 PM	127.637		4/26/2006 12:36:36 PM	127.554
	4/26/2006 12:07:14 PM	127.638		4/26/2006 12:38:30 PM	127.548
	4/26/2006 12:07:22 PM	127.638		4/26/2006 12:40:30 PM	127.542
	4/26/2006 12:07:31 PM	127.638		4/26/2006 12:42:36 PM	127.536
	4/26/2006 12:07:40 PM	127.637		4/26/2006 12:44:48 PM	127.529
	4/26/2006 12:07:49 PM	127.637		4/26/2006 12:47:12 PM	127.524
	4/26/2006 12:07:59 PM	127.636		4/26/2006 12:49:42 PM	127.515
	4/26/2006 12:08:10 PM	127.635		4/26/2006 12:52:18 PM	127.508
	4/26/2006 12:08:21 PM	127.636		4/26/2006 12:55:06 PM	127.496
	4/26/2006 12:08:33 PM	127.635		4/26/2006 12:58:06 PM	127.493
	4/26/2006 12:08:46 PM	127.635		4/26/2006 1:01:12 PM	127.486
	4/26/2006 12:08:59 PM	127.635		4/26/2006 1:04:36 PM	127.477
	4/26/2006 12:09:13 PM	127.635		4/26/2006 1:08:06 PM	127.469
	4/26/2006 12:09:28 PM	127.634		4/26/2006 1:11:48 PM	127.461
	4/26/2006 12:09:44 PM	127.633		4/26/2006 1:15:48 PM	127.454
	4/26/2006 12:10:01 PM	127.637		4/26/2006 1:20:00 PM	127.443
	4/26/2006 12:10:19 PM	127.632		4/26/2006 1:24:24 PM	127.435
	4/26/2006 12:10:37 PM	127.631		4/26/2006 1:29:06 PM	127.426
	4/26/2006 12:10:58 PM	127.63		4/26/2006 1:34:06 PM	127.415
	4/26/2006 12:11:19 PM	127.629		4/26/2006 1:39:24 PM	127.405
	4/26/2006 12:11:41 PM	127.629		4/26/2006 1:45:00 PM	127.396
	4/26/2006 12:12:05 PM	127.628		4/26/2006 1:51:00 PM	127.378

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-18			**SEA-18**		
TROLL			TROLL		
	4/26/2006 1:57:00 PM	127.375		4/27/2006 4:05:00 PM	125.467
	4/26/2006 2:04:00 PM	127.363		4/27/2006 5:45:00 PM	125.374
	4/26/2006 2:11:00 PM	127.35		4/27/2006 7:25:00 PM	125.282
	4/26/2006 2:18:00 PM	127.339		4/27/2006 9:15:00 PM	125.184
	4/26/2006 2:26:00 PM	127.325		4/27/2006 11:15:00 PM	125.076
	4/26/2006 2:35:00 PM	127.312		4/28/2006 1:15:00 AM	124.972
	4/26/2006 2:43:00 PM	127.298		4/28/2006 3:15:00 AM	124.869
	4/26/2006 2:53:00 PM	127.282		4/28/2006 5:15:00 AM	124.769
	4/26/2006 3:03:00 PM	127.265		4/28/2006 7:15:00 AM	124.67
	4/26/2006 3:13:00 PM	127.249		4/28/2006 9:15:00 AM	124.574
	4/26/2006 3:24:00 PM	127.233		4/28/2006 11:15:00 AM	124.483
	4/26/2006 3:36:00 PM	127.214		4/28/2006 1:15:00 PM	124.391
	4/26/2006 3:49:00 PM	127.194		4/28/2006 3:15:00 PM	124.296
	4/26/2006 4:02:00 PM	127.172		4/28/2006 5:15:00 PM	124.207
	4/26/2006 4:16:00 PM	127.151		4/28/2006 7:15:00 PM	124.12
	4/26/2006 4:31:00 PM	127.128		4/28/2006 9:15:00 PM	124.033
	4/26/2006 4:47:00 PM	127.104		4/28/2006 11:15:00 PM	123.946
	4/26/2006 5:03:00 PM	127.078		4/29/2006 1:15:00 AM	123.861
	4/26/2006 5:21:00 PM	127.053		4/29/2006 3:15:00 AM	123.777
	4/26/2006 5:40:00 PM	127.029		4/29/2006 5:15:00 AM	123.694
	4/26/2006 6:00:00 PM	126.993		4/29/2006 7:15:00 AM	123.613
	4/26/2006 6:21:00 PM	126.963		4/29/2006 9:15:00 AM	123.531
	4/26/2006 6:43:00 PM	126.932		4/29/2006 11:15:00 AM	123.452
	4/26/2006 7:07:00 PM	126.9		4/29/2006 1:15:00 PM	123.373
	4/26/2006 7:32:00 PM	126.86		4/29/2006 3:15:00 PM	123.297
	4/26/2006 7:58:00 PM	126.824		4/29/2006 5:15:00 PM	123.22
	4/26/2006 8:26:00 PM	126.784		4/29/2006 7:15:00 PM	123.145
	4/26/2006 8:56:00 PM	126.744		4/29/2006 9:15:00 PM	123.071
	4/26/2006 9:27:00 PM	126.701		4/29/2006 11:15:00 PM	122.998
	4/26/2006 10:01:00 PM	126.656		4/30/2006 1:15:00 AM	122.925
	4/26/2006 10:36:00 PM	126.61		4/30/2006 3:15:00 AM	122.853
	4/26/2006 11:13:00 PM	126.56		4/30/2006 5:15:00 AM	122.783
	4/26/2006 11:53:00 PM	126.506		4/30/2006 7:15:00 AM	122.714
	4/27/2006 12:35:00 AM	126.459		4/30/2006 9:15:00 AM	122.646
	4/27/2006 1:19:00 AM	126.404		4/30/2006 11:15:00 AM	122.578
	4/27/2006 2:06:00 AM	126.347		4/30/2006 1:15:00 PM	122.511
	4/27/2006 2:56:00 AM	126.288		4/30/2006 3:15:00 PM	122.444
	4/27/2006 3:49:00 AM	126.226		4/30/2006 5:15:00 PM	122.383
	4/27/2006 4:45:00 AM	126.161		4/30/2006 7:15:00 PM	122.318
	4/27/2006 5:45:00 AM	126.094		4/30/2006 9:15:00 PM	122.254
	4/27/2006 6:45:00 AM	126.027		4/30/2006 11:15:00 PM	122.19
	4/27/2006 7:55:00 AM	125.952		5/1/2006 1:15:00 AM	122.132
	4/27/2006 9:05:00 AM	125.876		5/1/2006 3:15:00 AM	122.071
	4/27/2006 10:15:00 AM	125.804		5/1/2006 5:15:00 AM	122.006
	4/27/2006 11:35:00 AM	125.723		5/1/2006 7:15:00 AM	121.952
	4/27/2006 1:05:00 PM	125.637		5/1/2006 9:15:00 AM	121.893
	4/27/2006 2:25:00 PM	125.566		5/1/2006 11:15:00 AM	121.835

Well	Date and Time	GWE (ft)
SEA-18		
TROLL		
	5/1/2006 1:15:00 PM	121.78
	5/1/2006 3:15:00 PM	121.734
	5/1/2006 5:15:00 PM	121.688
	5/1/2006 7:15:00 PM	121.647
	5/1/2006 9:15:00 PM	121.606
	5/1/2006 11:15:00 PM	121.565
	5/2/2006 1:15:00 AM	121.526
	5/2/2006 3:15:00 AM	121.483
	5/2/2006 5:15:00 AM	121.449
	5/2/2006 7:15:00 AM	121.411
	5/2/2006 9:15:00 AM	121.373
	5/2/2006 11:15:00 AM	121.335
	5/2/2006 1:15:00 PM	121.297
	5/2/2006 3:15:00 PM	121.26
	5/2/2006 5:15:00 PM	121.223
	5/2/2006 7:15:00 PM	121.19
	5/2/2006 9:15:00 PM	121.162
	5/2/2006 11:15:00 PM	121.134
	5/3/2006 1:15:00 AM	121.106
	5/3/2006 3:15:00 AM	121.078
	5/3/2006 5:15:00 AM	121.05
	5/3/2006 7:15:00 AM	121.02
	5/3/2006 9:15:00 AM	120.995
	5/3/2006 11:15:00 AM	120.966
	5/3/2006 1:15:00 PM	120.939
	5/3/2006 3:15:00 PM	120.912
	5/3/2006 5:15:00 PM	120.885
	5/3/2006 7:15:00 PM	120.858
	5/3/2006 9:15:00 PM	120.83
	5/3/2006 11:15:00 PM	120.803
	5/4/2006 1:15:00 AM	120.776
	5/4/2006 3:15:00 AM	120.75
	5/4/2006 5:15:00 AM	120.722
	5/4/2006 7:15:00 AM	120.694
	5/4/2006 9:15:00 AM	120.668
	5/4/2006 11:15:00 AM	120.64
	5/4/2006 1:15:00 PM	120.614
	5/4/2006 3:15:00 PM	120.593
	5/4/2006 5:15:00 PM	120.565
	5/4/2006 7:15:00 PM	120.538
	5/4/2006 9:15:00 PM	120.51
	5/4/2006 11:15:00 PM	120.483
	5/5/2006 1:15:00 AM	120.457
	5/5/2006 3:15:00 AM	120.43
	5/5/2006 5:15:00 AM	120.401
	5/5/2006 7:15:00 AM	120.375
	5/5/2006 9:15:00 AM	120.349

Well	Date and Time	GWE (ft)
SEA-18		
TROLL		
	5/5/2006 11:15:00 AM	120.319
	5/5/2006 1:15:00 PM	120.293
	5/5/2006 3:15:00 PM	120.266
	5/5/2006 5:15:00 PM	120.24
	5/5/2006 7:15:00 PM	120.212
	5/5/2006 9:15:00 PM	120.185
	5/5/2006 11:15:00 PM	120.159
	5/6/2006 1:15:00 AM	120.132
	5/6/2006 3:15:00 AM	120.109
	5/6/2006 5:15:00 AM	120.078
	5/6/2006 7:15:00 AM	120.05
	5/6/2006 9:15:00 AM	120.026
	5/6/2006 11:15:00 AM	119.997
	5/6/2006 1:15:00 PM	119.97
	5/6/2006 3:15:00 PM	119.944
	5/6/2006 5:15:00 PM	119.918
	5/6/2006 7:15:00 PM	119.891
	5/6/2006 9:15:00 PM	119.865
	5/6/2006 11:15:00 PM	119.837
	5/7/2006 1:15:00 AM	119.812
	5/7/2006 3:15:00 AM	119.786
	5/7/2006 5:15:00 AM	119.759
	5/7/2006 7:15:00 AM	119.731
	5/7/2006 9:15:00 AM	119.706
	5/7/2006 11:15:00 AM	119.681
	5/7/2006 1:15:00 PM	119.654
	5/7/2006 3:15:00 PM	119.629
	5/7/2006 5:15:00 PM	119.602
	5/7/2006 7:15:00 PM	119.578
	5/7/2006 9:15:00 PM	119.551
	5/7/2006 11:15:00 PM	119.526
	5/8/2006 1:15:00 AM	119.501
	5/8/2006 3:15:00 AM	119.476
	5/8/2006 5:15:00 AM	119.448
	5/8/2006 7:15:00 AM	119.425
	5/8/2006 9:15:00 AM	119.399
	5/8/2006 11:15:00 AM	119.373
TROLL-rec		
	5/8/2006 1:00:00 PM	119.356
	5/8/2006 1:00:00 PM	119.354
	5/8/2006 1:00:01 PM	119.352
	5/8/2006 1:00:01 PM	119.355
	5/8/2006 1:00:01 PM	119.351
	5/8/2006 1:00:01 PM	119.354
	5/8/2006 1:00:02 PM	119.353
	5/8/2006 1:00:02 PM	119.353
	5/8/2006 1:00:02 PM	119.352

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-18			**SEA-18**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:02 PM	119.352		5/8/2006 1:00:38 PM	119.354
	5/8/2006 1:00:03 PM	119.351		5/8/2006 1:00:40 PM	119.354
	5/8/2006 1:00:03 PM	119.349		5/8/2006 1:00:42 PM	119.354
	5/8/2006 1:00:03 PM	119.355		5/8/2006 1:00:45 PM	119.355
	5/8/2006 1:00:03 PM	119.354		5/8/2006 1:00:48 PM	119.355
	5/8/2006 1:00:04 PM	119.354		5/8/2006 1:00:50 PM	119.354
	5/8/2006 1:00:04 PM	119.352		5/8/2006 1:00:53 PM	119.355
	5/8/2006 1:00:04 PM	119.35		5/8/2006 1:00:57 PM	119.359
	5/8/2006 1:00:04 PM	119.352		5/8/2006 1:01:00 PM	119.353
	5/8/2006 1:00:05 PM	119.35		5/8/2006 1:01:04 PM	119.355
	5/8/2006 1:00:05 PM	119.35		5/8/2006 1:01:07 PM	119.355
	5/8/2006 1:00:05 PM	119.348		5/8/2006 1:01:11 PM	119.355
	5/8/2006 1:00:05 PM	119.352		5/8/2006 1:01:16 PM	119.355
	5/8/2006 1:00:06 PM	119.351		5/8/2006 1:01:20 PM	119.355
	5/8/2006 1:00:06 PM	119.352		5/8/2006 1:01:25 PM	119.354
	5/8/2006 1:00:06 PM	119.351		5/8/2006 1:01:30 PM	119.354
	5/8/2006 1:00:06 PM	119.352		5/8/2006 1:01:35 PM	119.351
	5/8/2006 1:00:07 PM	119.349		5/8/2006 1:01:41 PM	119.356
	5/8/2006 1:00:07 PM	119.352		5/8/2006 1:01:47 PM	119.354
	5/8/2006 1:00:08 PM	119.352		5/8/2006 1:01:53 PM	119.354
	5/8/2006 1:00:08 PM	119.349		5/8/2006 1:01:59 PM	119.355
	5/8/2006 1:00:08 PM	119.353		5/8/2006 1:02:07 PM	119.355
	5/8/2006 1:00:09 PM	119.354		5/8/2006 1:02:14 PM	119.354
	5/8/2006 1:00:09 PM	119.355		5/8/2006 1:02:22 PM	119.355
	5/8/2006 1:00:10 PM	119.35		5/8/2006 1:02:31 PM	119.354
	5/8/2006 1:00:11 PM	119.351		5/8/2006 1:02:40 PM	119.355
	5/8/2006 1:00:11 PM	119.352		5/8/2006 1:02:49 PM	119.353
	5/8/2006 1:00:13 PM	119.353		5/8/2006 1:02:59 PM	119.353
	5/8/2006 1:00:13 PM	119.355		5/8/2006 1:03:10 PM	119.354
	5/8/2006 1:00:13 PM	119.351		5/8/2006 1:03:21 PM	119.355
	5/8/2006 1:00:14 PM	119.353		5/8/2006 1:03:33 PM	119.355
	5/8/2006 1:00:15 PM	119.353		5/8/2006 1:03:46 PM	119.354
	5/8/2006 1:00:16 PM	119.354		5/8/2006 1:03:59 PM	119.355
	5/8/2006 1:00:17 PM	119.354		5/8/2006 1:04:13 PM	119.354
	5/8/2006 1:00:18 PM	119.354		5/8/2006 1:04:28 PM	119.354
	5/8/2006 1:00:19 PM	119.353		5/8/2006 1:04:44 PM	119.354
	5/8/2006 1:00:20 PM	119.352		5/8/2006 1:05:01 PM	119.354
	5/8/2006 1:00:21 PM	119.357		5/8/2006 1:05:19 PM	119.354
	5/8/2006 1:00:23 PM	119.356		5/8/2006 1:05:37 PM	119.354
	5/8/2006 1:00:24 PM	119.352		5/8/2006 1:05:58 PM	119.355
	5/8/2006 1:00:25 PM	119.355		5/8/2006 1:06:19 PM	119.354
	5/8/2006 1:00:27 PM	119.354		5/8/2006 1:06:41 PM	119.354
	5/8/2006 1:00:28 PM	119.353		5/8/2006 1:07:05 PM	119.354
	5/8/2006 1:00:30 PM	119.353		5/8/2006 1:07:30 PM	119.353
	5/8/2006 1:00:32 PM	119.355		5/8/2006 1:07:56 PM	119.354
	5/8/2006 1:00:34 PM	119.357		5/8/2006 1:08:25 PM	119.353
	5/8/2006 1:00:36 PM	119.353		5/8/2006 1:08:55 PM	119.352

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-18			**SEA-18**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:09:26 PM	119.353		5/8/2006 3:21:00 PM	119.464
	5/8/2006 1:10:00 PM	119.35		5/8/2006 3:30:00 PM	119.475
	5/8/2006 1:10:36 PM	119.353		5/8/2006 3:38:00 PM	119.482
	5/8/2006 1:11:12 PM	119.354		5/8/2006 3:48:00 PM	119.488
	5/8/2006 1:11:54 PM	119.351		5/8/2006 3:58:00 PM	119.5
	5/8/2006 1:12:36 PM	119.353		5/8/2006 4:08:00 PM	119.509
	5/8/2006 1:13:18 PM	119.353		5/8/2006 4:19:00 PM	119.519
	5/8/2006 1:14:06 PM	119.351		5/8/2006 4:31:00 PM	119.53
	5/8/2006 1:15:00 PM	119.351		5/8/2006 4:44:00 PM	119.543
	5/8/2006 1:15:48 PM	119.352		5/8/2006 4:57:00 PM	119.554
	5/8/2006 1:16:48 PM	119.351		5/8/2006 5:11:00 PM	119.562
	5/8/2006 1:17:48 PM	119.351		5/8/2006 5:26:00 PM	119.581
	5/8/2006 1:18:48 PM	119.352		5/8/2006 5:42:00 PM	119.595
	5/8/2006 1:19:54 PM	119.35		5/8/2006 5:58:00 PM	119.609
	5/8/2006 1:21:06 PM	119.35		5/8/2006 6:16:00 PM	119.626
	5/8/2006 1:22:24 PM	119.351		5/8/2006 6:35:00 PM	119.644
	5/8/2006 1:23:42 PM	119.351		5/8/2006 6:55:00 PM	119.66
	5/8/2006 1:25:06 PM	119.352		5/8/2006 7:16:00 PM	119.679
	5/8/2006 1:26:36 PM	119.354		5/8/2006 7:38:00 PM	119.696
	5/8/2006 1:28:12 PM	119.354		5/8/2006 8:02:00 PM	119.721
	5/8/2006 1:29:48 PM	119.356		5/8/2006 8:27:00 PM	119.744
	5/8/2006 1:31:36 PM	119.358		5/8/2006 8:53:00 PM	119.767
	5/8/2006 1:33:30 PM	119.355		5/8/2006 9:21:00 PM	119.79
	5/8/2006 1:35:30 PM	119.362		5/8/2006 9:51:00 PM	119.815
	5/8/2006 1:37:36 PM	119.363		5/8/2006 10:22:00 PM	119.843
	5/8/2006 1:39:48 PM	119.366		5/8/2006 10:56:00 PM	119.873
	5/8/2006 1:42:12 PM	119.368		5/8/2006 11:31:00 PM	119.902
	5/8/2006 1:44:42 PM	119.371		5/9/2006 12:08:00 AM	119.933
	5/8/2006 1:47:18 PM	119.374		5/9/2006 12:48:00 AM	119.967
	5/8/2006 1:50:06 PM	119.376		5/9/2006 1:30:00 AM	120.001
	5/8/2006 1:53:06 PM	119.38		5/9/2006 2:14:00 AM	120.037
	5/8/2006 1:56:12 PM	119.382		5/9/2006 3:01:00 AM	120.075
	5/8/2006 1:59:36 PM	119.386		5/9/2006 3:51:00 AM	120.114
	5/8/2006 2:03:06 PM	119.39		5/9/2006 4:44:00 AM	120.155
	5/8/2006 2:06:48 PM	119.393		5/9/2006 5:40:00 AM	120.198
	5/8/2006 2:10:48 PM	119.399		5/9/2006 6:40:00 AM	120.244
	5/8/2006 2:15:00 PM	119.4		5/9/2006 7:40:00 AM	120.289
	5/8/2006 2:19:24 PM	119.404		5/9/2006 8:50:00 AM	120.341
	5/8/2006 2:24:06 PM	119.406		5/9/2006 10:00:00 AM	120.39
	5/8/2006 2:29:06 PM	119.415		5/9/2006 11:10:00 AM	120.453
	5/8/2006 2:34:24 PM	119.419		5/9/2006 12:30:00 PM	120.51
	5/8/2006 2:40:00 PM	119.426		5/9/2006 2:00:00 PM	120.572
	5/8/2006 2:46:00 PM	119.43		5/9/2006 3:20:00 PM	120.625
	5/8/2006 2:52:00 PM	119.435		5/9/2006 5:00:00 PM	120.691
	5/8/2006 2:59:00 PM	119.444		5/9/2006 6:40:00 PM	120.756
	5/8/2006 3:06:00 PM	119.451		5/9/2006 8:20:00 PM	120.818
	5/8/2006 3:13:00 PM	119.453		5/9/2006 10:10:00 PM	120.885

Well	Date and Time	GWE (ft)
SEA-18		
TROLL-rec		
	5/10/2006 12:10:00 AM	120.958
	5/10/2006 2:10:00 AM	121.025
	5/10/2006 4:10:00 AM	121.094
	5/10/2006 6:10:00 AM	121.165
	5/10/2006 8:10:00 AM	121.231
	5/10/2006 10:10:00 AM	121.296
	5/10/2006 12:10:00 PM	121.359
	5/10/2006 2:10:00 PM	121.419
	5/10/2006 4:10:00 PM	121.48
	5/10/2006 6:10:00 PM	121.54
	5/10/2006 8:10:00 PM	121.598
	5/10/2006 10:10:00 PM	121.655
	5/11/2006 12:10:00 AM	121.707
	5/11/2006 2:10:00 AM	121.766
	5/11/2006 4:10:00 AM	121.819
	5/11/2006 6:10:00 AM	121.871
	5/11/2006 8:10:00 AM	121.923
	5/11/2006 10:10:00 AM	121.971
	5/11/2006 12:10:00 PM	122.022
	5/11/2006 2:10:00 PM	122.073
	5/11/2006 4:10:00 PM	122.119
	5/11/2006 6:10:00 PM	122.168
	5/11/2006 8:10:00 PM	122.21
	5/11/2006 10:10:00 PM	122.258
	5/12/2006 12:10:00 AM	122.304
	5/12/2006 2:10:00 AM	122.349
	5/12/2006 4:10:00 AM	122.393
	5/12/2006 6:10:00 AM	122.435
	5/12/2006 8:10:00 AM	122.475
	5/12/2006 10:10:00 AM	122.512
	5/12/2006 12:10:00 PM	122.558
	5/12/2006 2:10:00 PM	122.598
	5/12/2006 4:10:00 PM	122.639
	5/12/2006 6:10:00 PM	122.677
	5/12/2006 8:10:00 PM	122.715
	5/12/2006 10:10:00 PM	122.753
	5/13/2006 12:10:00 AM	122.79
	5/13/2006 2:10:00 AM	122.828
	5/13/2006 4:10:00 AM	122.865
	5/13/2006 6:10:00 AM	122.9
	5/13/2006 8:10:00 AM	122.931
	5/13/2006 10:10:00 AM	122.969
	5/13/2006 12:10:00 PM	123
	5/13/2006 2:10:00 PM	123.037
	5/13/2006 4:10:00 PM	123.072
	5/13/2006 6:10:00 PM	123.106
	5/13/2006 8:10:00 PM	123.143
SEA-18		
TROLL-rec		
	5/13/2006 10:10:00 PM	123.178
	5/14/2006 12:10:00 AM	123.219
	5/14/2006 2:10:00 AM	123.252
	5/14/2006 4:10:00 AM	123.295
	5/14/2006 6:10:00 AM	123.333
	5/14/2006 8:10:00 AM	123.369
	5/14/2006 10:10:00 AM	123.422
	5/14/2006 12:10:00 PM	123.512
	5/14/2006 2:10:00 PM	123.608
	5/14/2006 4:10:00 PM	123.684
	5/14/2006 6:10:00 PM	123.767
	5/14/2006 8:10:00 PM	123.85
	5/14/2006 10:10:00 PM	123.92
	5/15/2006 12:10:00 AM	123.976
	5/15/2006 2:10:00 AM	124.04
	5/15/2006 4:10:00 AM	124.081
	5/15/2006 6:10:00 AM	124.148
	5/15/2006 8:10:00 AM	124.215
	5/15/2006 10:10:00 AM	124.235
	5/15/2006 12:10:00 PM	124.254
	5/15/2006 2:10:00 PM	124.289
	5/15/2006 4:10:00 PM	124.29
	5/15/2006 6:10:00 PM	124.309
	5/15/2006 8:10:00 PM	124.377
	5/15/2006 10:10:00 PM	124.44
	5/16/2006 12:10:00 AM	124.455
	5/16/2006 2:10:00 AM	124.45
	5/16/2006 4:10:00 AM	124.472
	5/16/2006 6:10:00 AM	124.436
	5/16/2006 8:10:00 AM	124.403
	5/16/2006 10:10:00 AM	124.4
	5/16/2006 12:10:00 PM	124.399
	5/16/2006 2:10:00 PM	124.361
	5/16/2006 4:10:00 PM	124.346
	5/16/2006 6:10:00 PM	124.378
	5/16/2006 8:10:00 PM	124.504
	5/16/2006 10:10:00 PM	124.607
	5/17/2006 12:10:00 AM	124.661
	5/17/2006 2:10:00 AM	124.728
	5/17/2006 4:10:00 AM	124.781
	5/17/2006 6:10:00 AM	124.841
	5/17/2006 8:10:00 AM	124.766
SEA-2		
Manual		
	4/14/2006 11:45:00 AM	125.57
	4/21/2006 9:50:00 AM	125.52

Well	Date and Time	GWE (ft)
SEA-2		
Manual		
	4/25/2006 11:30:00 AM	125.67
	4/26/2006 9:03:00 AM	125.72
	4/26/2006 3:55:00 PM	123.51
	4/27/2006 4:57:00 PM	120.56
	4/28/2006 10:45:00 AM	119.48
	4/28/2006 4:00:00 PM	119.22
	4/30/2006 10:24:00 AM	117.72
	4/30/2006 4:22:00 PM	117.54
	5/1/2006 8:08:00 AM	117.16
	5/1/2006 12:19:00 PM	117.08
	5/3/2006 8:09:00 AM	117.27
	5/4/2006 7:40:00 AM	117.15
	5/5/2006 10:18:00 AM	116.91
	5/6/2006 10:30:00 AM	116.68
	5/8/2006 8:46:00 AM	116.21
	5/9/2006 11:01:00 AM	119.79
TROLL		
	4/26/2006 12:05:00 PM	125.72
	4/26/2006 12:05:00 PM	125.719
	4/26/2006 12:05:00 PM	125.721
	4/26/2006 12:05:01 PM	125.721
	4/26/2006 12:05:01 PM	125.72
	4/26/2006 12:05:01 PM	125.72
	4/26/2006 12:05:01 PM	125.716
	4/26/2006 12:05:02 PM	125.719
	4/26/2006 12:05:02 PM	125.715
	4/26/2006 12:05:02 PM	125.718
	4/26/2006 12:05:02 PM	125.721
	4/26/2006 12:05:03 PM	125.718
	4/26/2006 12:05:03 PM	125.72
	4/26/2006 12:05:03 PM	125.721
	4/26/2006 12:05:03 PM	125.72
	4/26/2006 12:05:04 PM	125.716
	4/26/2006 12:05:04 PM	125.718
	4/26/2006 12:05:04 PM	125.719
	4/26/2006 12:05:04 PM	125.716
	4/26/2006 12:05:05 PM	125.719
	4/26/2006 12:05:05 PM	125.719
	4/26/2006 12:05:05 PM	125.719
	4/26/2006 12:05:05 PM	125.716
	4/26/2006 12:05:06 PM	125.717
	4/26/2006 12:05:06 PM	125.717
	4/26/2006 12:05:06 PM	125.718
	4/26/2006 12:05:07 PM	125.718
	4/26/2006 12:05:07 PM	125.719
	4/26/2006 12:05:08 PM	125.719
	4/26/2006 12:05:08 PM	125.719

Well	Date and Time	GWE (ft)
SEA-2		
TROLL		
	4/26/2006 12:05:08 PM	125.719
	4/26/2006 12:05:09 PM	125.719
	4/26/2006 12:05:09 PM	125.716
	4/26/2006 12:05:10 PM	125.717
	4/26/2006 12:05:11 PM	125.716
	4/26/2006 12:05:11 PM	125.715
	4/26/2006 12:05:12 PM	125.719
	4/26/2006 12:05:13 PM	125.715
	4/26/2006 12:05:13 PM	125.713
	4/26/2006 12:05:14 PM	125.711
	4/26/2006 12:05:15 PM	125.71
	4/26/2006 12:05:16 PM	125.706
	4/26/2006 12:05:17 PM	125.703
	4/26/2006 12:05:18 PM	125.7
	4/26/2006 12:05:19 PM	125.693
	4/26/2006 12:05:20 PM	125.691
	4/26/2006 12:05:21 PM	125.685
	4/26/2006 12:05:23 PM	125.679
	4/26/2006 12:05:24 PM	125.672
	4/26/2006 12:05:25 PM	125.665
	4/26/2006 12:05:27 PM	125.652
	4/26/2006 12:05:28 PM	125.647
	4/26/2006 12:05:30 PM	125.638
	4/26/2006 12:05:32 PM	125.624
	4/26/2006 12:05:34 PM	125.616
	4/26/2006 12:05:36 PM	125.604
	4/26/2006 12:05:38 PM	125.593
	4/26/2006 12:05:40 PM	125.582
	4/26/2006 12:05:42 PM	125.57
	4/26/2006 12:05:45 PM	125.559
	4/26/2006 12:05:48 PM	125.546
	4/26/2006 12:05:50 PM	125.533
	4/26/2006 12:05:53 PM	125.518
	4/26/2006 12:05:57 PM	125.506
	4/26/2006 12:06:00 PM	125.497
	4/26/2006 12:06:04 PM	125.48
	4/26/2006 12:06:07 PM	125.466
	4/26/2006 12:06:11 PM	125.453
	4/26/2006 12:06:16 PM	125.439
	4/26/2006 12:06:20 PM	125.427
	4/26/2006 12:06:25 PM	125.415
	4/26/2006 12:06:30 PM	125.4
	4/26/2006 12:06:35 PM	125.389
	4/26/2006 12:06:41 PM	125.376
	4/26/2006 12:06:47 PM	125.363
	4/26/2006 12:06:53 PM	125.351
	4/26/2006 12:06:59 PM	125.341

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-2			**SEA-2**		
TROLL			TROLL		
	4/26/2006 12:07:07 PM	125.324		4/26/2006 12:36:36 PM	124.743
	4/26/2006 12:07:14 PM	125.316		4/26/2006 12:38:30 PM	124.722
	4/26/2006 12:07:22 PM	125.305		4/26/2006 12:40:30 PM	124.702
	4/26/2006 12:07:31 PM	125.293		4/26/2006 12:42:36 PM	124.683
	4/26/2006 12:07:40 PM	125.283		4/26/2006 12:44:48 PM	124.657
	4/26/2006 12:07:49 PM	125.27		4/26/2006 12:47:12 PM	124.639
	4/26/2006 12:07:59 PM	125.264		4/26/2006 12:49:42 PM	124.613
	4/26/2006 12:08:10 PM	125.253		4/26/2006 12:52:18 PM	124.587
	4/26/2006 12:08:21 PM	125.243		4/26/2006 12:55:06 PM	124.564
	4/26/2006 12:08:33 PM	125.232		4/26/2006 12:58:06 PM	124.526
	4/26/2006 12:08:46 PM	125.222		4/26/2006 1:01:12 PM	124.494
	4/26/2006 12:08:59 PM	125.212		4/26/2006 1:04:36 PM	124.463
	4/26/2006 12:09:13 PM	125.201		4/26/2006 1:08:06 PM	124.433
	4/26/2006 12:09:28 PM	125.191		4/26/2006 1:11:48 PM	124.395
	4/26/2006 12:09:44 PM	125.181		4/26/2006 1:15:48 PM	124.368
	4/26/2006 12:10:01 PM	125.171		4/26/2006 1:20:00 PM	124.338
	4/26/2006 12:10:19 PM	125.161		4/26/2006 1:24:24 PM	124.304
	4/26/2006 12:10:37 PM	125.151		4/26/2006 1:29:06 PM	124.273
	4/26/2006 12:10:58 PM	125.138		4/26/2006 1:34:06 PM	124.237
	4/26/2006 12:11:19 PM	125.129		4/26/2006 1:39:24 PM	124.199
	4/26/2006 12:11:41 PM	125.117		4/26/2006 1:45:00 PM	124.163
	4/26/2006 12:12:05 PM	125.108		4/26/2006 1:51:00 PM	124.123
	4/26/2006 12:12:30 PM	125.098		4/26/2006 1:57:00 PM	124.086
	4/26/2006 12:12:56 PM	125.087		4/26/2006 2:04:00 PM	124.04
	4/26/2006 12:13:25 PM	125.076		4/26/2006 2:11:00 PM	124.001
	4/26/2006 12:13:55 PM	125.065		4/26/2006 2:18:00 PM	123.96
	4/26/2006 12:14:26 PM	125.054		4/26/2006 2:26:00 PM	123.913
	4/26/2006 12:15:00 PM	125.041		4/26/2006 2:35:00 PM	123.865
	4/26/2006 12:15:36 PM	125.028		4/26/2006 2:43:00 PM	123.822
	4/26/2006 12:16:12 PM	125.019		4/26/2006 2:53:00 PM	123.776
	4/26/2006 12:16:54 PM	125.006		4/26/2006 3:03:00 PM	123.729
	4/26/2006 12:17:36 PM	124.989		4/26/2006 3:13:00 PM	123.682
	4/26/2006 12:18:18 PM	124.979		4/26/2006 3:24:00 PM	123.635
	4/26/2006 12:19:06 PM	124.966		4/26/2006 3:36:00 PM	123.585
	4/26/2006 12:20:00 PM	124.953		4/26/2006 3:49:00 PM	123.531
	4/26/2006 12:20:48 PM	124.939		4/26/2006 4:02:00 PM	123.48
	4/26/2006 12:21:48 PM	124.924		4/26/2006 4:16:00 PM	123.429
	4/26/2006 12:22:48 PM	124.908		4/26/2006 4:31:00 PM	123.371
	4/26/2006 12:23:48 PM	124.891		4/26/2006 4:47:00 PM	123.317
	4/26/2006 12:24:54 PM	124.879		4/26/2006 5:03:00 PM	123.259
	4/26/2006 12:26:06 PM	124.863		4/26/2006 5:21:00 PM	123.198
	4/26/2006 12:27:24 PM	124.849		4/26/2006 5:40:00 PM	123.138
	4/26/2006 12:28:42 PM	124.828		4/26/2006 6:00:00 PM	123.074
	4/26/2006 12:30:06 PM	124.814		4/26/2006 6:21:00 PM	123.008
	4/26/2006 12:31:36 PM	124.795		4/26/2006 6:43:00 PM	122.941
	4/26/2006 12:33:12 PM	124.775		4/26/2006 7:07:00 PM	122.87
	4/26/2006 12:34:48 PM	124.76		4/26/2006 7:32:00 PM	122.8

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-2			**SEA-2**		
TROLL			TROLL		
	4/26/2006 7:58:00 PM	122.725		4/29/2006 5:15:00 PM	118.229
	4/26/2006 8:26:00 PM	122.65		4/29/2006 7:15:00 PM	118.164
	4/26/2006 8:56:00 PM	122.574		4/29/2006 9:15:00 PM	118.105
	4/26/2006 9:27:00 PM	122.498		4/29/2006 11:15:00 PM	118.041
	4/26/2006 10:01:00 PM	122.416		4/30/2006 1:15:00 AM	117.981
	4/26/2006 10:36:00 PM	122.333		4/30/2006 3:15:00 AM	117.925
	4/26/2006 11:13:00 PM	122.25		4/30/2006 5:15:00 AM	117.864
	4/26/2006 11:53:00 PM	122.159		4/30/2006 7:15:00 AM	117.807
	4/27/2006 12:35:00 AM	122.064		4/30/2006 9:15:00 AM	117.752
	4/27/2006 1:19:00 AM	121.975		4/30/2006 11:15:00 AM	117.699
	4/27/2006 2:06:00 AM	121.879		4/30/2006 1:15:00 PM	117.644
	4/27/2006 2:56:00 AM	121.782		4/30/2006 3:15:00 PM	117.596
	4/27/2006 3:49:00 AM	121.686		4/30/2006 5:15:00 PM	117.546
	4/27/2006 4:45:00 AM	121.588		4/30/2006 7:15:00 PM	117.496
	4/27/2006 5:45:00 AM	121.49		4/30/2006 9:15:00 PM	117.446
	4/27/2006 6:45:00 AM	121.393		4/30/2006 11:15:00 PM	117.398
	4/27/2006 7:55:00 AM	121.284		5/1/2006 1:15:00 AM	117.351
	4/27/2006 9:05:00 AM	121.176		5/1/2006 3:15:00 AM	117.304
	4/27/2006 10:15:00 AM	121.077		5/1/2006 5:15:00 AM	117.258
	4/27/2006 11:35:00 AM	120.967		5/1/2006 7:15:00 AM	117.213
	4/27/2006 1:05:00 PM	121.032		5/1/2006 9:15:00 AM	117.168
	4/27/2006 2:25:00 PM	120.828		5/1/2006 11:15:00 AM	117.123
	4/27/2006 4:05:00 PM	120.666		5/1/2006 1:15:00 PM	117.084
	4/27/2006 5:45:00 PM	120.526		5/1/2006 3:15:00 PM	117.154
	4/27/2006 7:25:00 PM	120.401		5/1/2006 5:15:00 PM	117.241
	4/27/2006 9:15:00 PM	120.272		5/1/2006 7:15:00 PM	117.293
	4/27/2006 11:15:00 PM	120.136		5/1/2006 9:15:00 PM	117.326
	4/28/2006 1:15:00 AM	120.007		5/1/2006 11:15:00 PM	117.345
	4/28/2006 3:15:00 AM	119.886		5/2/2006 1:15:00 AM	117.358
	4/28/2006 5:15:00 AM	119.773		5/2/2006 3:15:00 AM	117.359
	4/28/2006 7:15:00 AM	119.665		5/2/2006 5:15:00 AM	117.361
	4/28/2006 9:15:00 AM	119.559		5/2/2006 7:15:00 AM	117.355
	4/28/2006 11:15:00 AM	119.46		5/2/2006 9:15:00 AM	117.352
	4/28/2006 1:15:00 PM	119.363		5/2/2006 11:15:00 AM	117.35
	4/28/2006 3:15:00 PM	119.27		5/2/2006 1:15:00 PM	117.341
	4/28/2006 5:15:00 PM	119.18		5/2/2006 3:15:00 PM	117.33
	4/28/2006 7:15:00 PM	119.099		5/2/2006 5:15:00 PM	117.32
	4/28/2006 9:15:00 PM	118.997		5/2/2006 7:15:00 PM	117.312
	4/28/2006 11:15:00 PM	118.905		5/2/2006 9:15:00 PM	117.307
	4/29/2006 1:15:00 AM	118.817		5/2/2006 11:15:00 PM	117.306
	4/29/2006 3:15:00 AM	118.732		5/3/2006 1:15:00 AM	117.308
	4/29/2006 5:15:00 AM	118.651		5/3/2006 3:15:00 AM	117.307
	4/29/2006 7:15:00 AM	118.574		5/3/2006 5:15:00 AM	117.303
	4/29/2006 9:15:00 AM	118.501		5/3/2006 7:15:00 AM	117.297
	4/29/2006 11:15:00 AM	118.428		5/3/2006 9:15:00 AM	117.292
	4/29/2006 1:15:00 PM	118.359		5/3/2006 11:15:00 AM	117.283
	4/29/2006 3:15:00 PM	118.297		5/3/2006 1:15:00 PM	117.275

Well	Date and Time	GWE (ft)
SEA-2		
TROLL		
	5/3/2006 3:15:00 PM	117.27
	5/3/2006 5:15:00 PM	117.258
	5/3/2006 7:15:00 PM	117.248
	5/3/2006 9:15:00 PM	117.24
	5/3/2006 11:15:00 PM	117.228
	5/4/2006 1:15:00 AM	117.216
	5/4/2006 3:15:00 AM	117.205
	5/4/2006 5:15:00 AM	117.189
	5/4/2006 7:15:00 AM	117.175
	5/4/2006 9:15:00 AM	117.16
	5/4/2006 11:15:00 AM	117.146
	5/4/2006 1:15:00 PM	117.13
	5/4/2006 3:15:00 PM	117.112
	5/4/2006 5:15:00 PM	117.096
	5/4/2006 7:15:00 PM	117.077
	5/4/2006 9:15:00 PM	117.058
	5/4/2006 11:15:00 PM	117.041
	5/5/2006 1:15:00 AM	117.022
	5/5/2006 3:15:00 AM	117.005
	5/5/2006 5:15:00 AM	116.986
	5/5/2006 7:15:00 AM	116.967
	5/5/2006 9:15:00 AM	116.95
	5/5/2006 11:15:00 AM	116.933
	5/5/2006 1:15:00 PM	116.912
	5/5/2006 3:15:00 PM	116.891
	5/5/2006 5:15:00 PM	116.872
	5/5/2006 7:15:00 PM	116.85
	5/5/2006 9:15:00 PM	116.829
	5/5/2006 11:15:00 PM	116.811
	5/6/2006 1:15:00 AM	116.789
	5/6/2006 3:15:00 AM	116.769
	5/6/2006 5:15:00 AM	116.749
	5/6/2006 7:15:00 AM	116.727
	5/6/2006 9:15:00 AM	116.707
	5/6/2006 11:15:00 AM	116.689
	5/6/2006 1:15:00 PM	116.667
	5/6/2006 3:15:00 PM	116.646
	5/6/2006 5:15:00 PM	116.624
	5/6/2006 7:15:00 PM	116.605
	5/6/2006 9:15:00 PM	116.586
	5/6/2006 11:15:00 PM	116.564
	5/7/2006 1:15:00 AM	116.544
	5/7/2006 3:15:00 AM	116.525
	5/7/2006 5:15:00 AM	116.504
	5/7/2006 7:15:00 AM	116.481
	5/7/2006 9:15:00 AM	116.462
	5/7/2006 11:15:00 AM	116.441

Well	Date and Time	GWE (ft)
SEA-2		
TROLL		
	5/7/2006 1:15:00 PM	116.422
	5/7/2006 3:15:00 PM	116.401
	5/7/2006 5:15:00 PM	116.382
	5/7/2006 7:15:00 PM	116.363
	5/7/2006 9:15:00 PM	116.344
	5/7/2006 11:15:00 PM	116.323
	5/8/2006 1:15:00 AM	116.303
	5/8/2006 3:15:00 AM	116.282
	5/8/2006 5:15:00 AM	116.262
	5/8/2006 7:15:00 AM	116.243
	5/8/2006 9:15:00 AM	116.224
	5/8/2006 11:15:00 AM	116.207
TROLL-rec		
	5/8/2006 1:00:00 PM	116.187
	5/8/2006 1:00:00 PM	116.187
	5/8/2006 1:00:00 PM	116.188
	5/8/2006 1:00:01 PM	116.187
	5/8/2006 1:00:01 PM	116.187
	5/8/2006 1:00:01 PM	116.187
	5/8/2006 1:00:01 PM	116.186
	5/8/2006 1:00:02 PM	116.187
	5/8/2006 1:00:02 PM	116.186
	5/8/2006 1:00:02 PM	116.187
	5/8/2006 1:00:02 PM	116.187
	5/8/2006 1:00:03 PM	116.185
	5/8/2006 1:00:03 PM	116.186
	5/8/2006 1:00:03 PM	116.186
	5/8/2006 1:00:03 PM	116.185
	5/8/2006 1:00:04 PM	116.185
	5/8/2006 1:00:04 PM	116.187
	5/8/2006 1:00:04 PM	116.186
	5/8/2006 1:00:04 PM	116.185
	5/8/2006 1:00:05 PM	116.185
	5/8/2006 1:00:05 PM	116.186
	5/8/2006 1:00:05 PM	116.186
	5/8/2006 1:00:05 PM	116.185
	5/8/2006 1:00:06 PM	116.186
	5/8/2006 1:00:06 PM	116.185
	5/8/2006 1:00:06 PM	116.185
	5/8/2006 1:00:07 PM	116.185
	5/8/2006 1:00:07 PM	116.187
	5/8/2006 1:00:08 PM	116.185
	5/8/2006 1:00:08 PM	116.187
	5/8/2006 1:00:08 PM	116.187
	5/8/2006 1:00:09 PM	116.187
	5/8/2006 1:00:09 PM	116.187
	5/8/2006 1:00:10 PM	116.188

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-2			**SEA-2**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:11 PM	116.186		5/8/2006 1:02:40 PM	116.189
	5/8/2006 1:00:11 PM	116.188		5/8/2006 1:02:49 PM	116.188
	5/8/2006 1:00:12 PM	116.188		5/8/2006 1:02:59 PM	116.189
	5/8/2006 1:00:13 PM	116.187		5/8/2006 1:03:10 PM	116.188
	5/8/2006 1:00:13 PM	116.188		5/8/2006 1:03:21 PM	116.19
	5/8/2006 1:00:14 PM	116.188		5/8/2006 1:03:33 PM	116.188
	5/8/2006 1:00:15 PM	116.189		5/8/2006 1:03:46 PM	116.189
	5/8/2006 1:00:16 PM	116.188		5/8/2006 1:03:59 PM	116.19
	5/8/2006 1:00:17 PM	116.189		5/8/2006 1:04:13 PM	116.188
	5/8/2006 1:00:18 PM	116.191		5/8/2006 1:04:28 PM	116.187
	5/8/2006 1:00:19 PM	116.189		5/8/2006 1:04:44 PM	116.188
	5/8/2006 1:00:20 PM	116.189		5/8/2006 1:05:01 PM	116.188
	5/8/2006 1:00:21 PM	116.19		5/8/2006 1:05:19 PM	116.189
	5/8/2006 1:00:23 PM	116.188		5/8/2006 1:05:37 PM	116.188
	5/8/2006 1:00:24 PM	116.188		5/8/2006 1:05:58 PM	116.188
	5/8/2006 1:00:25 PM	116.19		5/8/2006 1:06:19 PM	116.189
	5/8/2006 1:00:27 PM	116.19		5/8/2006 1:06:41 PM	116.187
	5/8/2006 1:00:28 PM	116.188		5/8/2006 1:07:05 PM	116.186
	5/8/2006 1:00:30 PM	116.191		5/8/2006 1:07:30 PM	116.187
	5/8/2006 1:00:32 PM	116.19		5/8/2006 1:07:56 PM	116.185
	5/8/2006 1:00:34 PM	116.189		5/8/2006 1:08:25 PM	116.187
	5/8/2006 1:00:36 PM	116.189		5/8/2006 1:08:55 PM	116.188
	5/8/2006 1:00:38 PM	116.189		5/8/2006 1:09:26 PM	116.187
	5/8/2006 1:00:40 PM	116.19		5/8/2006 1:10:00 PM	116.187
	5/8/2006 1:00:42 PM	116.189		5/8/2006 1:10:36 PM	116.188
	5/8/2006 1:00:45 PM	116.189		5/8/2006 1:11:12 PM	116.188
	5/8/2006 1:00:48 PM	116.19		5/8/2006 1:11:54 PM	116.187
	5/8/2006 1:00:50 PM	116.189		5/8/2006 1:12:36 PM	116.186
	5/8/2006 1:00:53 PM	116.189		5/8/2006 1:13:18 PM	116.185
	5/8/2006 1:00:57 PM	116.188		5/8/2006 1:14:06 PM	116.187
	5/8/2006 1:01:00 PM	116.189		5/8/2006 1:15:00 PM	116.186
	5/8/2006 1:01:04 PM	116.189		5/8/2006 1:15:48 PM	116.187
	5/8/2006 1:01:07 PM	116.189		5/8/2006 1:16:48 PM	116.187
	5/8/2006 1:01:11 PM	116.189		5/8/2006 1:17:48 PM	116.186
	5/8/2006 1:01:16 PM	116.188		5/8/2006 1:18:48 PM	116.186
	5/8/2006 1:01:20 PM	116.189		5/8/2006 1:19:54 PM	116.186
	5/8/2006 1:01:25 PM	116.19		5/8/2006 1:21:06 PM	116.184
	5/8/2006 1:01:30 PM	116.188		5/8/2006 1:22:24 PM	116.192
	5/8/2006 1:01:35 PM	116.188		5/8/2006 1:23:42 PM	116.24
	5/8/2006 1:01:41 PM	116.188		5/8/2006 1:25:06 PM	116.258
	5/8/2006 1:01:47 PM	116.188		5/8/2006 1:26:36 PM	116.269
	5/8/2006 1:01:53 PM	116.189		5/8/2006 1:28:12 PM	116.28
	5/8/2006 1:01:59 PM	116.189		5/8/2006 1:29:48 PM	116.29
	5/8/2006 1:02:07 PM	116.189		5/8/2006 1:31:36 PM	116.296
	5/8/2006 1:02:14 PM	116.187		5/8/2006 1:33:30 PM	116.309
	5/8/2006 1:02:22 PM	116.191		5/8/2006 1:35:30 PM	116.321
	5/8/2006 1:02:31 PM	116.189		5/8/2006 1:37:36 PM	116.334

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-2			**SEA-2**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:39:48 PM	116.347		5/8/2006 10:56:00 PM	118.53
	5/8/2006 1:42:12 PM	116.359		5/8/2006 11:31:00 PM	118.62
	5/8/2006 1:44:42 PM	116.372		5/9/2006 12:08:00 AM	118.706
	5/8/2006 1:47:18 PM	116.386		5/9/2006 12:48:00 AM	118.796
	5/8/2006 1:50:06 PM	116.402		5/9/2006 1:30:00 AM	118.888
	5/8/2006 1:53:06 PM	116.418		5/9/2006 2:14:00 AM	118.979
	5/8/2006 1:56:12 PM	116.437		5/9/2006 3:01:00 AM	119.07
	5/8/2006 1:59:36 PM	116.457		5/9/2006 3:51:00 AM	119.164
	5/8/2006 2:03:06 PM	116.475		5/9/2006 4:44:00 AM	119.256
	5/8/2006 2:06:48 PM	116.496		5/9/2006 5:40:00 AM	119.35
	5/8/2006 2:10:48 PM	116.52		5/9/2006 6:40:00 AM	119.447
	5/8/2006 2:15:00 PM	116.545		5/9/2006 7:40:00 AM	119.537
	5/8/2006 2:19:24 PM	116.57		5/9/2006 8:50:00 AM	119.641
	5/8/2006 2:24:06 PM	116.595		5/9/2006 10:00:00 AM	119.733
	5/8/2006 2:29:06 PM	116.624		5/9/2006 11:10:00 AM	119.825
	5/8/2006 2:34:24 PM	116.651		5/9/2006 12:30:00 PM	119.921
	5/8/2006 2:40:00 PM	116.684		5/9/2006 2:00:00 PM	120.02
	5/8/2006 2:46:00 PM	116.718		5/9/2006 3:20:00 PM	120.105
	5/8/2006 2:52:00 PM	116.75		5/9/2006 5:00:00 PM	120.198
	5/8/2006 2:59:00 PM	116.788		5/9/2006 6:40:00 PM	120.192
	5/8/2006 3:06:00 PM	116.824		5/9/2006 8:20:00 PM	120.407
	5/8/2006 3:13:00 PM	116.861		5/9/2006 10:10:00 PM	120.512
	5/8/2006 3:21:00 PM	116.9		5/10/2006 12:10:00 AM	120.606
	5/8/2006 3:30:00 PM	116.948		5/10/2006 2:10:00 AM	120.697
	5/8/2006 3:38:00 PM	116.989		5/10/2006 4:10:00 AM	120.782
	5/8/2006 3:48:00 PM	117.036		5/10/2006 6:10:00 AM	120.857
	5/8/2006 3:58:00 PM	117.086		5/10/2006 8:10:00 AM	120.932
	5/8/2006 4:08:00 PM	117.131		5/10/2006 10:10:00 AM	121.003
	5/8/2006 4:19:00 PM	117.182		5/10/2006 12:10:00 PM	121.071
	5/8/2006 4:31:00 PM	117.236		5/10/2006 2:10:00 PM	121.136
	5/8/2006 4:44:00 PM	117.294		5/10/2006 4:10:00 PM	121.198
	5/8/2006 4:57:00 PM	117.351		5/10/2006 6:10:00 PM	121.258
	5/8/2006 5:11:00 PM	117.408		5/10/2006 8:10:00 PM	121.313
	5/8/2006 5:26:00 PM	117.469		5/10/2006 10:10:00 PM	121.37
	5/8/2006 5:42:00 PM	117.535		5/11/2006 12:10:00 AM	121.422
	5/8/2006 5:58:00 PM	117.597		5/11/2006 2:10:00 AM	121.472
	5/8/2006 6:16:00 PM	117.668		5/11/2006 4:10:00 AM	121.519
	5/8/2006 6:35:00 PM	117.737		5/11/2006 6:10:00 AM	121.567
	5/8/2006 6:55:00 PM	117.809		5/11/2006 8:10:00 AM	121.61
	5/8/2006 7:16:00 PM	117.884		5/11/2006 10:10:00 AM	121.649
	5/8/2006 7:38:00 PM	117.959		5/11/2006 12:10:00 PM	121.692
	5/8/2006 8:02:00 PM	118.036		5/11/2006 2:10:00 PM	121.732
	5/8/2006 8:27:00 PM	118.114		5/11/2006 4:10:00 PM	121.773
	5/8/2006 8:53:00 PM	118.193		5/11/2006 6:10:00 PM	121.808
	5/8/2006 9:21:00 PM	118.276		5/11/2006 8:10:00 PM	121.846
	5/8/2006 9:51:00 PM	118.36		5/11/2006 10:10:00 PM	121.879
	5/8/2006 10:22:00 PM	118.444		5/12/2006 12:10:00 AM	121.917

Well	Date and Time	GWE (ft)
SEA-2		
TROLL-rec		
	5/12/2006 2:10:00 AM	121.954
	5/12/2006 4:10:00 AM	121.984
	5/12/2006 6:10:00 AM	122.015
	5/12/2006 8:10:00 AM	122.045
	5/12/2006 10:10:00 AM	122.078
	5/12/2006 12:10:00 PM	122.106
	5/12/2006 2:10:00 PM	122.133
	5/12/2006 4:10:00 PM	122.165
	5/12/2006 6:10:00 PM	122.192
	5/12/2006 8:10:00 PM	122.219
	5/12/2006 10:10:00 PM	122.245
	5/13/2006 12:10:00 AM	122.277
	5/13/2006 2:10:00 AM	122.305
	5/13/2006 4:10:00 AM	122.3
	5/13/2006 6:10:00 AM	122.367
	5/13/2006 8:10:00 AM	122.419
	5/13/2006 10:10:00 AM	122.548
	5/13/2006 12:10:00 PM	122.55
	5/13/2006 2:10:00 PM	122.584
	5/13/2006 4:10:00 PM	122.874
	5/13/2006 6:10:00 PM	123.135
	5/13/2006 8:10:00 PM	123.321
	5/13/2006 10:10:00 PM	123.483
	5/14/2006 12:10:00 AM	123.168
	5/14/2006 2:10:00 AM	123.193
	5/14/2006 4:10:00 AM	123.206
	5/14/2006 6:10:00 AM	123.163
	5/14/2006 8:10:00 AM	123.235
	5/14/2006 10:10:00 AM	123.353
	5/14/2006 12:10:00 PM	123.447
	5/14/2006 2:10:00 PM	123.565
	5/14/2006 4:10:00 PM	123.616
	5/14/2006 6:10:00 PM	123.7
	5/14/2006 8:10:00 PM	123.652
	5/14/2006 10:10:00 PM	123.665
	5/15/2006 12:10:00 AM	123.672
	5/15/2006 2:10:00 AM	123.676
	5/15/2006 4:10:00 AM	123.683
	5/15/2006 6:10:00 AM	123.685
	5/15/2006 8:10:00 AM	123.634
	5/15/2006 10:10:00 AM	123.52
	5/15/2006 12:10:00 PM	123.743
SEA-3		
Manual		
	4/14/2006 11:50:00 AM	122.5
	4/21/2006 10:20:00 AM	122.13

Well	Date and Time	GWE (ft)
SEA-3		
Manual		
	4/25/2006 10:46:00 AM	122.41
	4/26/2006 9:05:00 AM	122.75
	4/27/2006 5:12:00 PM	122.46
	4/28/2006 10:53:00 AM	122.33
	4/30/2006 10:43:00 AM	122.05
	5/1/2006 8:16:00 AM	121.91
	5/3/2006 8:12:00 AM	121.87
	5/4/2006 7:50:00 AM	121.91
	5/5/2006 10:28:00 AM	121.81
	5/6/2006 10:28:00 AM	121.69
	5/8/2006 8:53:00 AM	121.47
	5/9/2006 11:07:00 AM	121.38
TROLL		
	4/26/2006 12:05:00 PM	122.447
	4/26/2006 12:05:00 PM	122.447
	4/26/2006 12:05:01 PM	122.456
	4/26/2006 12:05:01 PM	122.447
	4/26/2006 12:05:01 PM	122.456
	4/26/2006 12:05:01 PM	122.456
	4/26/2006 12:05:02 PM	122.464
	4/26/2006 12:05:02 PM	122.456
	4/26/2006 12:05:02 PM	122.456
	4/26/2006 12:05:02 PM	122.456
	4/26/2006 12:05:03 PM	122.464
	4/26/2006 12:05:03 PM	122.464
	4/26/2006 12:05:03 PM	122.464
	4/26/2006 12:05:03 PM	122.464
	4/26/2006 12:05:04 PM	122.465
	4/26/2006 12:05:04 PM	122.464
	4/26/2006 12:05:04 PM	122.456
	4/26/2006 12:05:04 PM	122.464
	4/26/2006 12:05:05 PM	122.464
	4/26/2006 12:05:05 PM	122.464
	4/26/2006 12:05:05 PM	122.473
	4/26/2006 12:05:05 PM	122.473
	4/26/2006 12:05:06 PM	122.473
	4/26/2006 12:05:06 PM	122.464
	4/26/2006 12:05:06 PM	122.473
	4/26/2006 12:05:06 PM	122.464
	4/26/2006 12:05:07 PM	122.456
	4/26/2006 12:05:07 PM	122.464
	4/26/2006 12:05:08 PM	122.472
	4/26/2006 12:05:08 PM	122.464
	4/26/2006 12:05:08 PM	122.473
	4/26/2006 12:05:09 PM	122.464
	4/26/2006 12:05:09 PM	122.464
	4/26/2006 12:05:10 PM	122.464

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-3			**SEA-3**		
TROLL			TROLL		
	4/26/2006 12:05:11 PM	122.464		4/26/2006 12:07:40 PM	122.447
	4/26/2006 12:05:11 PM	122.464		4/26/2006 12:07:49 PM	122.447
	4/26/2006 12:05:12 PM	122.464		4/26/2006 12:07:59 PM	122.447
	4/26/2006 12:05:13 PM	122.464		4/26/2006 12:08:10 PM	122.447
	4/26/2006 12:05:13 PM	122.464		4/26/2006 12:08:21 PM	122.447
	4/26/2006 12:05:14 PM	122.456		4/26/2006 12:08:33 PM	122.447
	4/26/2006 12:05:15 PM	122.456		4/26/2006 12:08:46 PM	122.447
	4/26/2006 12:05:16 PM	122.456		4/26/2006 12:08:59 PM	122.447
	4/26/2006 12:05:17 PM	122.456		4/26/2006 12:09:13 PM	122.447
	4/26/2006 12:05:18 PM	122.456		4/26/2006 12:09:28 PM	122.447
	4/26/2006 12:05:19 PM	122.464		4/26/2006 12:09:44 PM	122.456
	4/26/2006 12:05:20 PM	122.455		4/26/2006 12:10:01 PM	122.447
	4/26/2006 12:05:21 PM	122.464		4/26/2006 12:10:19 PM	122.447
	4/26/2006 12:05:23 PM	122.447		4/26/2006 12:10:37 PM	122.439
	4/26/2006 12:05:24 PM	122.456		4/26/2006 12:10:58 PM	122.447
	4/26/2006 12:05:25 PM	122.456		4/26/2006 12:11:19 PM	122.447
	4/26/2006 12:05:27 PM	122.455		4/26/2006 12:11:41 PM	122.439
	4/26/2006 12:05:28 PM	122.456		4/26/2006 12:12:05 PM	122.447
	4/26/2006 12:05:30 PM	122.447		4/26/2006 12:12:30 PM	122.447
	4/26/2006 12:05:32 PM	122.456		4/26/2006 12:12:56 PM	122.447
	4/26/2006 12:05:34 PM	122.456		4/26/2006 12:13:25 PM	122.447
	4/26/2006 12:05:36 PM	122.447		4/26/2006 12:13:55 PM	122.447
	4/26/2006 12:05:38 PM	122.456		4/26/2006 12:14:26 PM	122.447
	4/26/2006 12:05:40 PM	122.456		4/26/2006 12:15:00 PM	122.447
	4/26/2006 12:05:42 PM	122.447		4/26/2006 12:15:36 PM	122.447
	4/26/2006 12:05:45 PM	122.456		4/26/2006 12:16:12 PM	122.447
	4/26/2006 12:05:48 PM	122.447		4/26/2006 12:16:54 PM	122.447
	4/26/2006 12:05:50 PM	122.456		4/26/2006 12:17:36 PM	122.447
	4/26/2006 12:05:53 PM	122.447		4/26/2006 12:18:18 PM	122.447
	4/26/2006 12:05:57 PM	122.447		4/26/2006 12:19:06 PM	122.456
	4/26/2006 12:06:00 PM	122.447		4/26/2006 12:20:00 PM	122.447
	4/26/2006 12:06:04 PM	122.447		4/26/2006 12:20:48 PM	122.456
	4/26/2006 12:06:07 PM	122.447		4/26/2006 12:21:48 PM	122.447
	4/26/2006 12:06:11 PM	122.456		4/26/2006 12:22:48 PM	122.447
	4/26/2006 12:06:16 PM	122.447		4/26/2006 12:23:48 PM	122.447
	4/26/2006 12:06:20 PM	122.456		4/26/2006 12:24:54 PM	122.447
	4/26/2006 12:06:25 PM	122.447		4/26/2006 12:26:06 PM	122.447
	4/26/2006 12:06:30 PM	122.447		4/26/2006 12:27:24 PM	122.456
	4/26/2006 12:06:35 PM	122.447		4/26/2006 12:28:42 PM	122.447
	4/26/2006 12:06:41 PM	122.447		4/26/2006 12:30:06 PM	122.447
	4/26/2006 12:06:47 PM	122.447		4/26/2006 12:31:36 PM	122.447
	4/26/2006 12:06:53 PM	122.456		4/26/2006 12:33:12 PM	122.447
	4/26/2006 12:06:59 PM	122.447		4/26/2006 12:34:48 PM	122.456
	4/26/2006 12:07:07 PM	122.447		4/26/2006 12:36:36 PM	122.447
	4/26/2006 12:07:14 PM	122.456		4/26/2006 12:38:30 PM	122.447
	4/26/2006 12:07:22 PM	122.447		4/26/2006 12:40:30 PM	122.447
	4/26/2006 12:07:31 PM	122.456		4/26/2006 12:42:36 PM	122.447

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-3			**SEA-3**		
TROLL			TROLL		
	4/26/2006 12:44:48 PM	122.447		4/26/2006 10:01:00 PM	122.447
	4/26/2006 12:47:12 PM	122.447		4/26/2006 10:36:00 PM	122.456
	4/26/2006 12:49:42 PM	122.447		4/26/2006 11:13:00 PM	122.439
	4/26/2006 12:52:18 PM	122.447		4/26/2006 11:53:00 PM	122.447
	4/26/2006 12:55:06 PM	122.456		4/27/2006 12:35:00 AM	122.447
	4/26/2006 12:58:06 PM	122.447		4/27/2006 1:19:00 AM	122.447
	4/26/2006 1:01:12 PM	122.447		4/27/2006 2:06:00 AM	122.447
	4/26/2006 1:04:36 PM	122.447		4/27/2006 2:56:00 AM	122.447
	4/26/2006 1:08:06 PM	122.438		4/27/2006 3:49:00 AM	122.447
	4/26/2006 1:11:48 PM	122.456		4/27/2006 4:45:00 AM	122.456
	4/26/2006 1:15:48 PM	122.456		4/27/2006 5:45:00 AM	122.447
	4/26/2006 1:20:00 PM	122.447		4/27/2006 6:45:00 AM	122.447
	4/26/2006 1:24:24 PM	122.456		4/27/2006 7:55:00 AM	122.439
	4/26/2006 1:29:06 PM	122.439		4/27/2006 9:05:00 AM	122.447
	4/26/2006 1:34:06 PM	122.447		4/27/2006 10:15:00 AM	122.447
	4/26/2006 1:39:24 PM	122.447		4/27/2006 11:35:00 AM	122.447
	4/26/2006 1:45:00 PM	122.447		4/27/2006 1:05:00 PM	122.447
	4/26/2006 1:51:00 PM	122.447		4/27/2006 2:25:00 PM	122.439
	4/26/2006 1:57:00 PM	122.447		4/27/2006 4:05:00 PM	122.447
	4/26/2006 2:04:00 PM	122.447		4/27/2006 5:45:00 PM	122.442
	4/26/2006 2:11:00 PM	122.447		4/27/2006 7:25:00 PM	122.442
	4/26/2006 2:18:00 PM	122.447		4/27/2006 9:15:00 PM	122.445
	4/26/2006 2:26:00 PM	122.447		4/27/2006 11:15:00 PM	122.397
	4/26/2006 2:35:00 PM	122.456		4/28/2006 1:15:00 AM	122.351
	4/26/2006 2:43:00 PM	122.439		4/28/2006 3:15:00 AM	122.356
	4/26/2006 2:53:00 PM	122.447		4/28/2006 5:15:00 AM	122.35
	4/26/2006 3:03:00 PM	122.447		4/28/2006 7:15:00 AM	122.338
	4/26/2006 3:13:00 PM	122.447		4/28/2006 9:15:00 AM	122.325
	4/26/2006 3:24:00 PM	122.447		4/28/2006 11:15:00 AM	122.308
	4/26/2006 3:36:00 PM	122.447		4/28/2006 1:15:00 PM	122.293
	4/26/2006 3:49:00 PM	122.447		4/28/2006 3:15:00 PM	122.279
	4/26/2006 4:02:00 PM	122.447		4/28/2006 5:15:00 PM	122.272
	4/26/2006 4:16:00 PM	122.447		4/28/2006 7:15:00 PM	122.259
	4/26/2006 4:31:00 PM	122.456		4/28/2006 9:15:00 PM	122.237
	4/26/2006 4:47:00 PM	122.447		4/28/2006 11:15:00 PM	122.233
	4/26/2006 5:03:00 PM	122.456		4/29/2006 1:15:00 AM	122.205
	4/26/2006 5:21:00 PM	122.447		4/29/2006 3:15:00 AM	122.199
	4/26/2006 5:40:00 PM	122.438		4/29/2006 5:15:00 AM	122.187
	4/26/2006 6:00:00 PM	122.447		4/29/2006 7:15:00 AM	122.183
	4/26/2006 6:21:00 PM	122.447		4/29/2006 9:15:00 AM	122.162
	4/26/2006 6:43:00 PM	122.456		4/29/2006 11:15:00 AM	122.16
	4/26/2006 7:07:00 PM	122.447		4/29/2006 1:15:00 PM	122.148
	4/26/2006 7:32:00 PM	122.447		4/29/2006 3:15:00 PM	122.127
	4/26/2006 7:58:00 PM	122.447		4/29/2006 5:15:00 PM	122.116
	4/26/2006 8:26:00 PM	122.456		4/29/2006 7:15:00 PM	122.107
	4/26/2006 8:56:00 PM	122.456		4/29/2006 9:15:00 PM	122.093
	4/26/2006 9:27:00 PM	122.447		4/29/2006 11:15:00 PM	122.084

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-3			**SEA-3**		
TROLL			TROLL		
	4/30/2006 1:15:00 AM	122.072		5/3/2006 11:15:00 PM	121.916
	4/30/2006 3:15:00 AM	122.06		5/4/2006 1:15:00 AM	121.908
	4/30/2006 5:15:00 AM	122.049		5/4/2006 3:15:00 AM	121.915
	4/30/2006 7:15:00 AM	122.039		5/4/2006 5:15:00 AM	121.911
	4/30/2006 9:15:00 AM	122.028		5/4/2006 7:15:00 AM	121.907
	4/30/2006 11:15:00 AM	122.028		5/4/2006 9:15:00 AM	121.906
	4/30/2006 1:15:00 PM	122.01		5/4/2006 11:15:00 AM	121.893
	4/30/2006 3:15:00 PM	121.991		5/4/2006 1:15:00 PM	121.887
	4/30/2006 5:15:00 PM	121.996		5/4/2006 3:15:00 PM	121.879
	4/30/2006 7:15:00 PM	121.972		5/4/2006 5:15:00 PM	121.864
	4/30/2006 9:15:00 PM	121.979		5/4/2006 7:15:00 PM	121.866
	4/30/2006 11:15:00 PM	121.959		5/4/2006 9:15:00 PM	121.858
	5/1/2006 1:15:00 AM	121.95		5/4/2006 11:15:00 PM	121.85
	5/1/2006 3:15:00 AM	121.93		5/5/2006 1:15:00 AM	121.835
	5/1/2006 5:15:00 AM	121.929		5/5/2006 3:15:00 AM	121.833
	5/1/2006 7:15:00 AM	121.921		5/5/2006 5:15:00 AM	121.817
	5/1/2006 9:15:00 AM	121.908		5/5/2006 7:15:00 AM	121.816
	5/1/2006 11:15:00 AM	121.892		5/5/2006 9:15:00 AM	121.807
	5/1/2006 1:15:00 PM	121.888		5/5/2006 11:15:00 AM	121.788
	5/1/2006 3:15:00 PM	121.872		5/5/2006 1:15:00 PM	121.789
	5/1/2006 5:15:00 PM	121.87		5/5/2006 3:15:00 PM	121.78
	5/1/2006 7:15:00 PM	121.861		5/5/2006 5:15:00 PM	121.77
	5/1/2006 9:15:00 PM	121.851		5/5/2006 7:15:00 PM	121.751
	5/1/2006 11:15:00 PM	121.841		5/5/2006 9:15:00 PM	121.752
	5/2/2006 1:15:00 AM	121.832		5/5/2006 11:15:00 PM	121.742
	5/2/2006 3:15:00 AM	121.824		5/6/2006 1:15:00 AM	121.732
	5/2/2006 5:15:00 AM	121.815		5/6/2006 3:15:00 AM	121.723
	5/2/2006 7:15:00 AM	121.809		5/6/2006 5:15:00 AM	121.713
	5/2/2006 9:15:00 AM	121.804		5/6/2006 7:15:00 AM	121.704
	5/2/2006 11:15:00 AM	121.813		5/6/2006 9:15:00 AM	121.694
	5/2/2006 1:15:00 PM	121.806		5/6/2006 11:15:00 AM	121.675
	5/2/2006 3:15:00 PM	121.807		5/6/2006 1:15:00 PM	121.672
	5/2/2006 5:15:00 PM	121.81		5/6/2006 3:15:00 PM	121.664
	5/2/2006 7:15:00 PM	121.811		5/6/2006 5:15:00 PM	121.653
	5/2/2006 9:15:00 PM	121.812		5/6/2006 7:15:00 PM	121.636
	5/2/2006 11:15:00 PM	121.817		5/6/2006 9:15:00 PM	121.625
	5/3/2006 1:15:00 AM	121.826		5/6/2006 11:15:00 PM	121.624
	5/3/2006 3:15:00 AM	121.84		5/7/2006 1:15:00 AM	121.607
	5/3/2006 5:15:00 AM	121.859		5/7/2006 3:15:00 AM	121.614
	5/3/2006 7:15:00 AM	121.86		5/7/2006 5:15:00 AM	121.595
	5/3/2006 9:15:00 AM	121.872		5/7/2006 7:15:00 AM	121.586
	5/3/2006 11:15:00 AM	121.886		5/7/2006 9:15:00 AM	121.578
	5/3/2006 1:15:00 PM	121.897		5/7/2006 11:15:00 AM	121.569
	5/3/2006 3:15:00 PM	121.906		5/7/2006 1:15:00 PM	121.568
	5/3/2006 5:15:00 PM	121.911		5/7/2006 3:15:00 PM	121.55
	5/3/2006 7:15:00 PM	121.915		5/7/2006 5:15:00 PM	121.55
	5/3/2006 9:15:00 PM	121.916		5/7/2006 7:15:00 PM	121.532

Well	Date and Time	GWE (ft)
SEA-3		
TROLL		
	5/7/2006 9:15:00 PM	121.523
	5/7/2006 11:15:00 PM	121.515
	5/8/2006 1:15:00 AM	121.515
	5/8/2006 3:15:00 AM	121.496
	5/8/2006 5:15:00 AM	121.489
	5/8/2006 7:15:00 AM	121.488
	5/8/2006 9:15:00 AM	121.471
	5/8/2006 11:15:00 AM	121.462
TROLL-rec		
	5/8/2006 1:00:00 PM	121.462
	5/8/2006 1:00:00 PM	121.45
	5/8/2006 1:00:01 PM	121.449
	5/8/2006 1:00:01 PM	121.454
	5/8/2006 1:00:01 PM	121.452
	5/8/2006 1:00:01 PM	121.452
	5/8/2006 1:00:02 PM	121.458
	5/8/2006 1:00:02 PM	121.457
	5/8/2006 1:00:02 PM	121.456
	5/8/2006 1:00:02 PM	121.447
	5/8/2006 1:00:03 PM	121.446
	5/8/2006 1:00:03 PM	121.444
	5/8/2006 1:00:03 PM	121.444
	5/8/2006 1:00:03 PM	121.451
	5/8/2006 1:00:04 PM	121.45
	5/8/2006 1:00:04 PM	121.451
	5/8/2006 1:00:04 PM	121.45
	5/8/2006 1:00:04 PM	121.45
	5/8/2006 1:00:05 PM	121.449
	5/8/2006 1:00:05 PM	121.447
	5/8/2006 1:00:05 PM	121.448
	5/8/2006 1:00:05 PM	121.448
	5/8/2006 1:00:06 PM	121.447
	5/8/2006 1:00:06 PM	121.446
	5/8/2006 1:00:06 PM	121.446
	5/8/2006 1:00:06 PM	121.448
	5/8/2006 1:00:07 PM	121.449
	5/8/2006 1:00:07 PM	121.458
	5/8/2006 1:00:08 PM	121.45
	5/8/2006 1:00:08 PM	121.45
	5/8/2006 1:00:08 PM	121.452
	5/8/2006 1:00:09 PM	121.453
	5/8/2006 1:00:09 PM	121.452
	5/8/2006 1:00:10 PM	121.453
	5/8/2006 1:00:11 PM	121.455
	5/8/2006 1:00:11 PM	121.454
	5/8/2006 1:00:12 PM	121.457
	5/8/2006 1:00:13 PM	121.448

Well	Date and Time	GWE (ft)
SEA-3		
TROLL-rec		
	5/8/2006 1:00:13 PM	121.45
	5/8/2006 1:00:14 PM	121.45
	5/8/2006 1:00:15 PM	121.45
	5/8/2006 1:00:16 PM	121.451
	5/8/2006 1:00:17 PM	121.451
	5/8/2006 1:00:18 PM	121.454
	5/8/2006 1:00:19 PM	121.453
	5/8/2006 1:00:20 PM	121.453
	5/8/2006 1:00:21 PM	121.445
	5/8/2006 1:00:23 PM	121.456
	5/8/2006 1:00:24 PM	121.455
	5/8/2006 1:00:25 PM	121.455
	5/8/2006 1:00:27 PM	121.448
	5/8/2006 1:00:28 PM	121.457
	5/8/2006 1:00:30 PM	121.449
	5/8/2006 1:00:32 PM	121.45
	5/8/2006 1:00:34 PM	121.458
	5/8/2006 1:00:36 PM	121.458
	5/8/2006 1:00:38 PM	121.458
	5/8/2006 1:00:40 PM	121.45
	5/8/2006 1:00:42 PM	121.451
	5/8/2006 1:00:45 PM	121.451
	5/8/2006 1:00:48 PM	121.451
	5/8/2006 1:00:50 PM	121.452
	5/8/2006 1:00:53 PM	121.451
	5/8/2006 1:00:57 PM	121.461
	5/8/2006 1:01:00 PM	121.452
	5/8/2006 1:01:04 PM	121.451
	5/8/2006 1:01:07 PM	121.461
	5/8/2006 1:01:11 PM	121.452
	5/8/2006 1:01:16 PM	121.451
	5/8/2006 1:01:20 PM	121.461
	5/8/2006 1:01:25 PM	121.452
	5/8/2006 1:01:30 PM	121.451
	5/8/2006 1:01:35 PM	121.452
	5/8/2006 1:01:41 PM	121.454
	5/8/2006 1:01:47 PM	121.46
	5/8/2006 1:01:53 PM	121.462
	5/8/2006 1:01:59 PM	121.454
	5/8/2006 1:02:07 PM	121.462
	5/8/2006 1:02:14 PM	121.452
	5/8/2006 1:02:22 PM	121.451
	5/8/2006 1:02:31 PM	121.452
	5/8/2006 1:02:40 PM	121.452
	5/8/2006 1:02:49 PM	121.453
	5/8/2006 1:02:59 PM	121.453
	5/8/2006 1:03:10 PM	121.453

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-3			**SEA-3**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:03:21 PM	121.453		5/8/2006 1:50:06 PM	121.45
	5/8/2006 1:03:33 PM	121.454		5/8/2006 1:53:06 PM	121.45
	5/8/2006 1:03:46 PM	121.453		5/8/2006 1:56:12 PM	121.451
	5/8/2006 1:03:59 PM	121.461		5/8/2006 1:59:36 PM	121.45
	5/8/2006 1:04:13 PM	121.461		5/8/2006 2:03:06 PM	121.45
	5/8/2006 1:04:28 PM	121.453		5/8/2006 2:06:48 PM	121.449
	5/8/2006 1:04:44 PM	121.461		5/8/2006 2:10:48 PM	121.448
	5/8/2006 1:05:01 PM	121.444		5/8/2006 2:15:00 PM	121.449
	5/8/2006 1:05:19 PM	121.453		5/8/2006 2:19:24 PM	121.457
	5/8/2006 1:05:37 PM	121.453		5/8/2006 2:24:06 PM	121.447
	5/8/2006 1:05:58 PM	121.453		5/8/2006 2:29:06 PM	121.447
	5/8/2006 1:06:19 PM	121.453		5/8/2006 2:34:24 PM	121.448
	5/8/2006 1:06:41 PM	121.453		5/8/2006 2:40:00 PM	121.448
	5/8/2006 1:07:05 PM	121.454		5/8/2006 2:46:00 PM	121.446
	5/8/2006 1:07:30 PM	121.453		5/8/2006 2:52:00 PM	121.448
	5/8/2006 1:07:56 PM	121.452		5/8/2006 2:59:00 PM	121.446
	5/8/2006 1:08:25 PM	121.453		5/8/2006 3:06:00 PM	121.445
	5/8/2006 1:08:55 PM	121.452		5/8/2006 3:13:00 PM	121.454
	5/8/2006 1:09:26 PM	121.453		5/8/2006 3:21:00 PM	121.444
	5/8/2006 1:10:00 PM	121.452		5/8/2006 3:30:00 PM	121.444
	5/8/2006 1:10:36 PM	121.452		5/8/2006 3:38:00 PM	121.443
	5/8/2006 1:11:12 PM	121.453		5/8/2006 3:48:00 PM	121.451
	5/8/2006 1:11:54 PM	121.453		5/8/2006 3:58:00 PM	121.441
	5/8/2006 1:12:36 PM	121.452		5/8/2006 4:08:00 PM	121.441
	5/8/2006 1:13:18 PM	121.453		5/8/2006 4:19:00 PM	121.441
	5/8/2006 1:14:06 PM	121.453		5/8/2006 4:31:00 PM	121.44
	5/8/2006 1:15:00 PM	121.453		5/8/2006 4:44:00 PM	121.44
	5/8/2006 1:15:48 PM	121.444		5/8/2006 4:57:00 PM	121.44
	5/8/2006 1:16:48 PM	121.452		5/8/2006 5:11:00 PM	121.437
	5/8/2006 1:17:48 PM	121.452		5/8/2006 5:26:00 PM	121.445
	5/8/2006 1:18:48 PM	121.452		5/8/2006 5:42:00 PM	121.428
	5/8/2006 1:19:54 PM	121.453		5/8/2006 5:58:00 PM	121.435
	5/8/2006 1:21:06 PM	121.451		5/8/2006 6:16:00 PM	121.433
	5/8/2006 1:22:24 PM	121.452		5/8/2006 6:35:00 PM	121.433
	5/8/2006 1:23:42 PM	121.453		5/8/2006 6:55:00 PM	121.43
	5/8/2006 1:25:06 PM	121.452		5/8/2006 7:16:00 PM	121.429
	5/8/2006 1:26:36 PM	121.46		5/8/2006 7:38:00 PM	121.435
	5/8/2006 1:28:12 PM	121.46		5/8/2006 8:02:00 PM	121.427
	5/8/2006 1:29:48 PM	121.451		5/8/2006 8:27:00 PM	121.425
	5/8/2006 1:31:36 PM	121.46		5/8/2006 8:53:00 PM	121.424
	5/8/2006 1:33:30 PM	121.452		5/8/2006 9:21:00 PM	121.422
	5/8/2006 1:35:30 PM	121.451		5/8/2006 9:51:00 PM	121.428
	5/8/2006 1:37:36 PM	121.451		5/8/2006 10:22:00 PM	121.427
	5/8/2006 1:39:48 PM	121.451		5/8/2006 10:56:00 PM	121.418
	5/8/2006 1:42:12 PM	121.452		5/8/2006 11:31:00 PM	121.415
	5/8/2006 1:44:42 PM	121.45		5/9/2006 12:08:00 AM	121.414
	5/8/2006 1:47:18 PM	121.45		5/9/2006 12:48:00 AM	121.412

Well	Date and Time	GWE (ft)
SEA-3		
TROLL-rec		
	5/9/2006 1:30:00 AM	121.417
	5/9/2006 2:14:00 AM	121.405
	5/9/2006 3:01:00 AM	121.405
	5/9/2006 3:51:00 AM	121.402
	5/9/2006 4:44:00 AM	121.399
	5/9/2006 5:40:00 AM	121.397
	5/9/2006 6:40:00 AM	121.394
	5/9/2006 7:40:00 AM	121.392
	5/9/2006 8:50:00 AM	121.389
	5/9/2006 10:00:00 AM	121.386
	5/9/2006 11:10:00 AM	121.38
	5/9/2006 12:30:00 PM	121.379
	5/9/2006 2:00:00 PM	121.368
	5/9/2006 3:20:00 PM	121.369
	5/9/2006 5:00:00 PM	121.387
	5/9/2006 6:40:00 PM	121.404
	5/9/2006 8:20:00 PM	121.428
	5/9/2006 10:10:00 PM	121.453
	5/10/2006 12:10:00 AM	121.482
	5/10/2006 2:10:00 AM	121.508
	5/10/2006 4:10:00 AM	121.531
	5/10/2006 6:10:00 AM	121.555
	5/10/2006 8:10:00 AM	121.586
	5/10/2006 10:10:00 AM	121.601
	5/10/2006 12:10:00 PM	121.621
	5/10/2006 2:10:00 PM	121.639
	5/10/2006 4:10:00 PM	121.654
	5/10/2006 6:10:00 PM	121.662
	5/10/2006 8:10:00 PM	121.684
	5/10/2006 10:10:00 PM	121.701
	5/11/2006 12:10:00 AM	121.702
	5/11/2006 2:10:00 AM	121.711
	5/11/2006 4:10:00 AM	121.716
	5/11/2006 6:10:00 AM	121.721
	5/11/2006 8:10:00 AM	121.723
	5/11/2006 10:10:00 AM	121.735
	5/11/2006 12:10:00 PM	121.72
	5/11/2006 2:10:00 PM	121.738
	5/11/2006 4:10:00 PM	121.729
	5/11/2006 6:10:00 PM	121.729
	5/11/2006 8:10:00 PM	121.718
	5/11/2006 10:10:00 PM	121.725
	5/12/2006 12:10:00 AM	121.724
	5/12/2006 2:10:00 AM	121.723
	5/12/2006 4:10:00 AM	121.718
	5/12/2006 6:10:00 AM	121.717
	5/12/2006 8:10:00 AM	121.715
SEA-3		
TROLL-rec		
	5/12/2006 10:10:00 AM	121.712
	5/12/2006 12:10:00 PM	121.71
	5/12/2006 2:10:00 PM	121.706
	5/12/2006 4:10:00 PM	121.703
	5/12/2006 6:10:00 PM	121.7
	5/12/2006 8:10:00 PM	121.698
	5/12/2006 10:10:00 PM	121.698
	5/13/2006 12:10:00 AM	121.706
	5/13/2006 2:10:00 AM	121.715
	5/13/2006 4:10:00 AM	121.731
	5/13/2006 6:10:00 AM	121.756
	5/13/2006 8:10:00 AM	121.773
	5/13/2006 10:10:00 AM	121.808
	5/13/2006 12:10:00 PM	121.843
	5/13/2006 2:10:00 PM	121.883
	5/13/2006 4:10:00 PM	121.997
	5/13/2006 6:10:00 PM	122.067
	5/13/2006 8:10:00 PM	122.151
	5/13/2006 10:10:00 PM	122.135
	5/14/2006 12:10:00 AM	122.189
	5/14/2006 2:10:00 AM	122.229
	5/14/2006 4:10:00 AM	122.279
	5/14/2006 6:10:00 AM	122.335
	5/14/2006 8:10:00 AM	122.445
	5/14/2006 10:10:00 AM	122.438
	5/14/2006 12:10:00 PM	122.447
	5/14/2006 2:10:00 PM	122.447
	5/14/2006 4:10:00 PM	122.447
	5/14/2006 6:10:00 PM	122.447
	5/14/2006 8:10:00 PM	122.448
	5/14/2006 10:10:00 PM	122.447
	5/15/2006 12:10:00 AM	122.447
	5/15/2006 2:10:00 AM	122.447
	5/15/2006 4:10:00 AM	122.447
	5/15/2006 6:10:00 AM	122.439
	5/15/2006 8:10:00 AM	122.447
	5/15/2006 10:10:00 AM	122.447
	5/15/2006 12:10:00 PM	122.447
SEA-4		
Manual		
	4/14/2006 12:10:00 PM	127.63
	4/21/2006 11:30:00 AM	127.62
	4/25/2006 11:43:00 AM	127.43
	4/26/2006 10:10:00 AM	127.44
	4/27/2006 5:38:00 PM	120.3
	4/28/2006 2:45:00 PM	118.95

Well	Date and Time	GWE (ft)
SEA-4		
Manual		
	4/30/2006 9:44:00 AM	116.96
	4/30/2006 4:09:00 PM	116.73
	5/1/2006 7:47:00 AM	116.21
	5/1/2006 12:35:00 PM	116.07
	5/3/2006 7:32:00 AM	116.26
	5/4/2006 1:50:00 PM	115.91
	5/5/2006 3:18:00 PM	115.57
	5/6/2006 2:00:00 PM	115.26
	5/9/2006 10:47:00 AM	119.64
TROLL		
	4/26/2006 12:05:00 PM	127.31
	4/26/2006 12:05:00 PM	127.293
	4/26/2006 12:05:00 PM	127.308
	4/26/2006 12:05:01 PM	127.316
	4/26/2006 12:05:01 PM	127.311
	4/26/2006 12:05:01 PM	127.317
	4/26/2006 12:05:01 PM	127.316
	4/26/2006 12:05:02 PM	127.319
	4/26/2006 12:05:02 PM	127.302
	4/26/2006 12:05:02 PM	127.313
	4/26/2006 12:05:02 PM	127.305
	4/26/2006 12:05:03 PM	127.315
	4/26/2006 12:05:03 PM	127.293
	4/26/2006 12:05:03 PM	127.289
	4/26/2006 12:05:03 PM	127.317
	4/26/2006 12:05:04 PM	127.3
	4/26/2006 12:05:04 PM	127.306
	4/26/2006 12:05:04 PM	127.311
	4/26/2006 12:05:04 PM	127.304
	4/26/2006 12:05:05 PM	127.294
	4/26/2006 12:05:05 PM	127.292
	4/26/2006 12:05:05 PM	127.303
	4/26/2006 12:05:05 PM	127.298
	4/26/2006 12:05:06 PM	127.297
	4/26/2006 12:05:06 PM	127.301
	4/26/2006 12:05:06 PM	127.297
	4/26/2006 12:05:07 PM	127.299
	4/26/2006 12:05:07 PM	127.304
	4/26/2006 12:05:08 PM	127.311
	4/26/2006 12:05:08 PM	127.306
	4/26/2006 12:05:08 PM	127.304
	4/26/2006 12:05:09 PM	127.279
	4/26/2006 12:05:09 PM	127.286
	4/26/2006 12:05:10 PM	127.325
	4/26/2006 12:05:11 PM	127.276
	4/26/2006 12:05:11 PM	127.33
	4/26/2006 12:05:12 PM	127.31

Well	Date and Time	GWE (ft)
SEA-4		
TROLL		
	4/26/2006 12:05:13 PM	127.308
	4/26/2006 12:05:13 PM	127.31
	4/26/2006 12:05:14 PM	127.291
	4/26/2006 12:05:15 PM	127.294
	4/26/2006 12:05:16 PM	127.311
	4/26/2006 12:05:17 PM	127.318
	4/26/2006 12:05:18 PM	127.286
	4/26/2006 12:05:19 PM	127.303
	4/26/2006 12:05:20 PM	127.299
	4/26/2006 12:05:21 PM	127.277
	4/26/2006 12:05:23 PM	127.273
	4/26/2006 12:05:24 PM	127.289
	4/26/2006 12:05:25 PM	127.263
	4/26/2006 12:05:27 PM	127.258
	4/26/2006 12:05:28 PM	127.267
	4/26/2006 12:05:30 PM	127.23
	4/26/2006 12:05:32 PM	127.228
	4/26/2006 12:05:34 PM	127.222
	4/26/2006 12:05:36 PM	127.233
	4/26/2006 12:05:38 PM	127.201
	4/26/2006 12:05:40 PM	127.199
	4/26/2006 12:05:42 PM	127.202
	4/26/2006 12:05:45 PM	127.171
	4/26/2006 12:05:48 PM	127.062
	4/26/2006 12:05:50 PM	126.709
	4/26/2006 12:05:53 PM	126.148
	4/26/2006 12:05:57 PM	125.714
	4/26/2006 12:06:00 PM	125.475
	4/26/2006 12:06:04 PM	125.254
	4/26/2006 12:06:07 PM	125.097
	4/26/2006 12:06:11 PM	124.972
	4/26/2006 12:06:16 PM	124.855
	4/26/2006 12:06:20 PM	124.805
	4/26/2006 12:06:25 PM	124.757
	4/26/2006 12:06:30 PM	124.754
	4/26/2006 12:06:35 PM	124.732
	4/26/2006 12:06:41 PM	124.711
	4/26/2006 12:06:47 PM	124.706
	4/26/2006 12:06:53 PM	124.676
	4/26/2006 12:06:59 PM	124.651
	4/26/2006 12:07:07 PM	124.646
	4/26/2006 12:07:14 PM	124.633
	4/26/2006 12:07:22 PM	124.631
	4/26/2006 12:07:31 PM	124.616
	4/26/2006 12:07:40 PM	124.582
	4/26/2006 12:07:49 PM	124.596
	4/26/2006 12:07:59 PM	124.567

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL			TROLL		
	4/26/2006 12:08:10 PM	124.571		4/26/2006 12:52:18 PM	123.898
	4/26/2006 12:08:21 PM	124.574		4/26/2006 12:55:06 PM	123.883
	4/26/2006 12:08:33 PM	124.568		4/26/2006 12:58:06 PM	123.86
	4/26/2006 12:08:46 PM	124.545		4/26/2006 1:01:12 PM	123.844
	4/26/2006 12:08:59 PM	124.544		4/26/2006 1:04:36 PM	123.821
	4/26/2006 12:09:13 PM	124.524		4/26/2006 1:08:06 PM	123.8
	4/26/2006 12:09:28 PM	124.534		4/26/2006 1:11:48 PM	123.773
	4/26/2006 12:09:44 PM	124.512		4/26/2006 1:15:48 PM	123.741
	4/26/2006 12:10:01 PM	124.514		4/26/2006 1:20:00 PM	123.716
	4/26/2006 12:10:19 PM	124.492		4/26/2006 1:24:24 PM	123.679
	4/26/2006 12:10:37 PM	124.492		4/26/2006 1:29:06 PM	123.654
	4/26/2006 12:10:58 PM	124.487		4/26/2006 1:34:06 PM	123.629
	4/26/2006 12:11:19 PM	124.472		4/26/2006 1:39:24 PM	123.595
	4/26/2006 12:11:41 PM	124.449		4/26/2006 1:45:00 PM	123.561
	4/26/2006 12:12:05 PM	124.446		4/26/2006 1:51:00 PM	123.528
	4/26/2006 12:12:30 PM	124.44		4/26/2006 1:57:00 PM	123.492
	4/26/2006 12:12:56 PM	124.436		4/26/2006 2:04:00 PM	123.445
	4/26/2006 12:13:25 PM	124.409		4/26/2006 2:11:00 PM	123.432
	4/26/2006 12:13:55 PM	124.409		4/26/2006 2:18:00 PM	123.39
	4/26/2006 12:14:26 PM	124.394		4/26/2006 2:26:00 PM	123.361
	4/26/2006 12:15:00 PM	124.385		4/26/2006 2:35:00 PM	123.307
	4/26/2006 12:15:36 PM	124.368		4/26/2006 2:43:00 PM	123.278
	4/26/2006 12:16:12 PM	124.352		4/26/2006 2:53:00 PM	123.238
	4/26/2006 12:16:54 PM	124.345		4/26/2006 3:03:00 PM	123.198
	4/26/2006 12:17:36 PM	124.338		4/26/2006 3:13:00 PM	123.163
	4/26/2006 12:18:18 PM	124.335		4/26/2006 3:24:00 PM	123.114
	4/26/2006 12:19:06 PM	124.311		4/26/2006 3:36:00 PM	123.079
	4/26/2006 12:20:00 PM	124.293		4/26/2006 3:49:00 PM	123.03
	4/26/2006 12:20:48 PM	124.284		4/26/2006 4:02:00 PM	122.984
	4/26/2006 12:21:48 PM	124.27		4/26/2006 4:16:00 PM	122.937
	4/26/2006 12:22:48 PM	124.259		4/26/2006 4:31:00 PM	122.891
	4/26/2006 12:23:48 PM	124.226		4/26/2006 4:47:00 PM	122.828
	4/26/2006 12:24:54 PM	124.21		4/26/2006 5:03:00 PM	122.788
	4/26/2006 12:26:06 PM	124.205		4/26/2006 5:21:00 PM	122.736
	4/26/2006 12:27:24 PM	124.189		4/26/2006 5:40:00 PM	122.678
	4/26/2006 12:28:42 PM	124.166		4/26/2006 6:00:00 PM	122.62
	4/26/2006 12:30:06 PM	124.144		4/26/2006 6:21:00 PM	122.567
	4/26/2006 12:31:36 PM	124.121		4/26/2006 6:43:00 PM	122.506
	4/26/2006 12:33:12 PM	124.107		4/26/2006 7:07:00 PM	122.446
	4/26/2006 12:34:48 PM	124.093		4/26/2006 7:32:00 PM	122.39
	4/26/2006 12:36:36 PM	124.082		4/26/2006 7:58:00 PM	122.316
	4/26/2006 12:38:30 PM	124.044		4/26/2006 8:26:00 PM	122.245
	4/26/2006 12:40:30 PM	124.03		4/26/2006 8:56:00 PM	122.173
	4/26/2006 12:42:36 PM	124.007		4/26/2006 9:27:00 PM	122.106
	4/26/2006 12:44:48 PM	123.971		4/26/2006 10:01:00 PM	122.028
	4/26/2006 12:47:12 PM	123.971		4/26/2006 10:36:00 PM	121.951
	4/26/2006 12:49:42 PM	123.948		4/26/2006 11:13:00 PM	121.884

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL			TROLL		
	4/26/2006 11:53:00 PM	121.802		4/30/2006 7:15:21 AM	117.037
	4/27/2006 12:35:00 AM	121.712		4/30/2006 9:15:21 AM	116.953
	4/27/2006 1:19:00 AM	121.627		4/30/2006 11:15:21 AM	116.874
	4/27/2006 2:06:00 AM	121.547		4/30/2006 1:15:21 PM	116.814
	4/27/2006 2:56:00 AM	121.467		4/30/2006 3:15:21 PM	116.738
	4/27/2006 3:49:00 AM	121.369		4/30/2006 5:15:21 PM	116.66
	4/27/2006 4:45:00 AM	121.286		4/30/2006 7:15:21 PM	116.604
	4/27/2006 5:45:00 AM	121.187		4/30/2006 9:15:21 PM	116.535
	4/27/2006 6:45:00 AM	121.087		4/30/2006 11:15:21 PM	116.479
	4/27/2006 7:55:00 AM	120.987		5/1/2006 1:15:21 AM	116.4
	4/27/2006 9:05:00 AM	120.885		5/1/2006 3:15:21 AM	116.341
	4/27/2006 10:15:00 AM	120.786		5/1/2006 5:15:21 AM	116.281
	4/27/2006 11:35:00 AM	120.681		5/1/2006 7:15:21 AM	116.214
	4/27/2006 1:05:00 PM	120.746		5/1/2006 9:15:21 AM	116.15
	4/27/2006 2:25:00 PM	120.492		5/1/2006 11:15:21 AM	116.09
	4/27/2006 4:05:00 PM	120.356		5/1/2006 1:15:21 PM	116.025
	4/27/2006 5:45:00 PM	120.218		5/1/2006 3:15:21 PM	116.3
	4/27/2006 7:25:00 PM	120.106		5/1/2006 5:15:21 PM	116.308
	4/27/2006 9:15:00 PM	119.974		5/1/2006 7:15:21 PM	116.293
	4/27/2006 11:15:00 PM	119.829		5/1/2006 9:15:21 PM	116.273
	4/28/2006 1:15:00 AM	119.702		5/1/2006 11:15:21 PM	116.24
	4/28/2006 3:15:00 AM	119.574		5/2/2006 1:15:21 AM	116.218
	4/28/2006 5:15:00 AM	119.446		5/2/2006 3:15:21 AM	116.181
	4/28/2006 7:15:00 AM	119.34		5/2/2006 5:15:21 AM	116.16
	4/28/2006 9:15:00 AM	119.208		5/2/2006 7:15:21 AM	116.121
	4/28/2006 11:15:00 AM	119.104		5/2/2006 9:15:21 AM	116.099
	4/28/2006 1:15:00 PM	118.983		5/2/2006 11:15:21 AM	116.064
	4/28/2006 3:15:21 PM	118.871		5/2/2006 1:15:21 PM	116.042
	4/28/2006 5:15:21 PM	118.812		5/2/2006 3:15:21 PM	116.013
	4/28/2006 7:15:21 PM	118.669		5/2/2006 5:15:21 PM	115.968
	4/28/2006 9:15:21 PM	118.566		5/2/2006 7:15:21 PM	116.308
	4/28/2006 11:15:21 PM	118.454		5/2/2006 9:15:21 PM	116.325
	4/29/2006 1:15:21 AM	118.341		5/2/2006 11:15:21 PM	116.32
	4/29/2006 3:15:21 AM	118.256		5/3/2006 1:15:21 AM	116.298
	4/29/2006 5:15:21 AM	118.151		5/3/2006 3:15:21 AM	116.287
	4/29/2006 7:15:21 AM	118.064		5/3/2006 5:15:21 AM	116.257
	4/29/2006 9:15:21 AM	117.973		5/3/2006 7:15:21 AM	116.245
	4/29/2006 11:15:21 AM	117.869		5/3/2006 9:15:21 AM	116.213
	4/29/2006 1:15:21 PM	117.777		5/3/2006 11:15:21 AM	116.204
	4/29/2006 3:15:21 PM	117.691		5/3/2006 1:15:21 PM	116.192
	4/29/2006 5:15:21 PM	117.611		5/3/2006 3:15:21 PM	116.159
	4/29/2006 7:15:21 PM	117.523		5/3/2006 5:15:21 PM	116.155
	4/29/2006 9:15:21 PM	117.442		5/3/2006 7:15:21 PM	116.121
	4/29/2006 11:15:21 PM	117.361		5/3/2006 9:15:21 PM	116.098
	4/30/2006 1:15:21 AM	117.275		5/3/2006 11:15:21 PM	116.072
	4/30/2006 3:15:21 AM	117.187		5/4/2006 1:15:21 AM	116.057
	4/30/2006 5:15:21 AM	117.105		5/4/2006 3:15:21 AM	116.027

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL			TROLL		
	5/4/2006 5:15:21 AM	116.007		5/6/2006 7:21:37 AM	115.347
	5/4/2006 7:15:21 AM	115.983		5/6/2006 7:21:37 AM	115.334
	5/4/2006 9:15:21 AM	115.95		5/6/2006 7:21:38 AM	115.336
	5/4/2006 11:15:21 AM	115.936		5/6/2006 7:21:38 AM	115.332
	5/4/2006 1:15:21 PM	115.91		5/6/2006 7:21:38 AM	115.339
	5/4/2006 3:15:21 PM	115.878		5/6/2006 7:21:39 AM	115.332
	5/4/2006 5:15:21 PM	115.858		5/6/2006 7:21:39 AM	115.348
	5/4/2006 7:15:21 PM	115.835		5/6/2006 7:21:40 AM	115.339
	5/4/2006 9:15:21 PM	115.804		5/6/2006 7:21:40 AM	115.341
	5/4/2006 11:15:21 PM	115.783		5/6/2006 7:21:40 AM	115.349
	5/5/2006 1:15:21 AM	115.76		5/6/2006 7:21:41 AM	115.327
	5/5/2006 3:15:21 AM	115.722		5/6/2006 7:21:41 AM	115.335
	5/5/2006 5:15:21 AM	115.697		5/6/2006 7:21:42 AM	115.332
	5/5/2006 7:15:21 AM	115.673		5/6/2006 7:21:43 AM	115.349
	5/5/2006 9:15:21 AM	115.64		5/6/2006 7:21:43 AM	115.347
	5/5/2006 11:15:21 AM	115.617		5/6/2006 7:21:44 AM	115.339
	5/5/2006 1:15:21 PM	115.591		5/6/2006 7:21:45 AM	115.348
	5/5/2006 3:15:21 PM	115.566		5/6/2006 7:21:45 AM	115.348
	5/5/2006 5:15:21 PM	115.532		5/6/2006 7:21:46 AM	115.343
	5/5/2006 7:15:21 PM	115.506		5/6/2006 7:21:47 AM	115.33
	5/5/2006 9:15:21 PM	115.491		5/6/2006 7:21:48 AM	115.347
	5/5/2006 11:15:21 PM	115.453		5/6/2006 7:21:49 AM	115.351
	5/6/2006 1:15:21 AM	115.431		5/6/2006 7:21:50 AM	115.337
	5/6/2006 3:15:21 AM	115.4		5/6/2006 7:21:51 AM	115.338
	5/6/2006 5:15:21 AM	115.374		5/6/2006 7:21:52 AM	115.325
	5/6/2006 7:15:21 AM	115.352		5/6/2006 7:21:53 AM	115.328
	5/6/2006 7:21:32 AM	115.347		5/6/2006 7:21:55 AM	115.343
	5/6/2006 7:21:32 AM	115.354		5/6/2006 7:21:56 AM	115.259
	5/6/2006 7:21:32 AM	115.339		5/6/2006 7:21:57 AM	115.306
	5/6/2006 7:21:33 AM	115.339		5/6/2006 7:21:59 AM	115.335
	5/6/2006 7:21:33 AM	115.34		5/6/2006 7:22:00 AM	115.34
	5/6/2006 7:21:33 AM	115.349		5/6/2006 7:22:02 AM	115.345
	5/6/2006 7:21:33 AM	115.334		5/6/2006 7:22:04 AM	115.349
	5/6/2006 7:21:34 AM	115.344		5/6/2006 7:22:06 AM	115.35
	5/6/2006 7:21:34 AM	115.331		5/6/2006 7:22:08 AM	115.349
	5/6/2006 7:21:34 AM	115.334		5/6/2006 7:22:10 AM	115.339
	5/6/2006 7:21:34 AM	115.345		5/6/2006 7:22:12 AM	115.341
	5/6/2006 7:21:35 AM	115.348		5/6/2006 7:22:14 AM	115.348
	5/6/2006 7:21:35 AM	115.336		5/6/2006 7:22:17 AM	115.34
	5/6/2006 7:21:35 AM	115.347		5/6/2006 7:22:20 AM	115.341
	5/6/2006 7:21:35 AM	115.347		5/6/2006 7:22:22 AM	115.342
	5/6/2006 7:21:36 AM	115.338		5/6/2006 7:22:25 AM	115.346
	5/6/2006 7:21:36 AM	115.345		5/6/2006 7:22:29 AM	115.346
	5/6/2006 7:21:36 AM	115.33		5/6/2006 7:22:32 AM	115.34
	5/6/2006 7:21:36 AM	115.342		5/6/2006 7:22:36 AM	115.347
	5/6/2006 7:21:37 AM	115.326		5/6/2006 7:22:39 AM	115.341
	5/6/2006 7:21:37 AM	115.34		5/6/2006 7:22:43 AM	115.347

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL			TROLL		
	5/6/2006 7:22:48 AM	115.354		5/6/2006 7:40:20 AM	115.341
	5/6/2006 7:22:52 AM	115.327		5/6/2006 7:41:26 AM	115.343
	5/6/2006 7:22:57 AM	115.352		5/6/2006 7:42:38 AM	115.338
	5/6/2006 7:23:02 AM	115.356		5/6/2006 7:43:56 AM	115.336
	5/6/2006 7:23:07 AM	115.353		5/6/2006 7:45:14 AM	115.334
	5/6/2006 7:23:13 AM	115.349		5/6/2006 7:46:38 AM	115.339
	5/6/2006 7:23:19 AM	115.337		5/6/2006 7:48:08 AM	115.345
	5/6/2006 7:23:25 AM	115.361		5/6/2006 7:49:44 AM	115.341
	5/6/2006 7:23:31 AM	115.328		5/6/2006 7:51:20 AM	115.342
	5/6/2006 7:23:39 AM	115.324		5/6/2006 7:53:08 AM	115.338
	5/6/2006 7:23:46 AM	115.352		5/6/2006 7:55:02 AM	115.336
	5/6/2006 7:23:54 AM	115.34		5/6/2006 7:57:02 AM	115.334
	5/6/2006 7:24:03 AM	115.349		5/6/2006 7:59:08 AM	115.337
	5/6/2006 7:24:12 AM	115.363		5/6/2006 8:01:20 AM	115.34
	5/6/2006 7:24:21 AM	115.311		5/6/2006 8:03:44 AM	115.339
	5/6/2006 7:24:31 AM	115.343		5/6/2006 8:06:14 AM	115.327
	5/6/2006 7:24:42 AM	115.349		5/6/2006 8:08:50 AM	115.336
	5/6/2006 7:24:53 AM	115.349		5/6/2006 8:11:38 AM	115.33
	5/6/2006 7:25:05 AM	115.346		5/6/2006 8:14:38 AM	115.347
	5/6/2006 7:25:18 AM	115.364		5/6/2006 8:17:44 AM	115.336
	5/6/2006 7:25:31 AM	115.344		5/6/2006 8:21:08 AM	115.324
	5/6/2006 7:25:45 AM	115.339		5/6/2006 8:24:38 AM	115.327
	5/6/2006 7:26:00 AM	115.326		5/6/2006 8:28:20 AM	115.33
	5/6/2006 7:26:16 AM	115.354		5/6/2006 8:32:20 AM	115.334
	5/6/2006 7:26:33 AM	115.348		5/6/2006 8:36:32 AM	115.323
	5/6/2006 7:26:51 AM	115.342		5/6/2006 8:40:56 AM	115.343
	5/6/2006 7:27:09 AM	115.363		5/6/2006 8:45:38 AM	115.329
	5/6/2006 7:27:30 AM	115.349		5/6/2006 8:50:38 AM	115.325
	5/6/2006 7:27:51 AM	115.353		5/6/2006 8:55:56 AM	115.325
	5/6/2006 7:28:13 AM	115.36		5/6/2006 9:01:32 AM	115.319
	5/6/2006 7:28:37 AM	115.348		5/6/2006 9:07:32 AM	115.314
	5/6/2006 7:29:02 AM	115.346		5/6/2006 9:13:32 AM	115.322
	5/6/2006 7:29:28 AM	115.353		5/6/2006 9:20:32 AM	115.321
	5/6/2006 7:29:57 AM	115.35		5/6/2006 9:27:32 AM	115.312
	5/6/2006 7:30:27 AM	115.351		5/6/2006 9:34:32 AM	115.317
	5/6/2006 7:30:58 AM	115.344		5/6/2006 9:42:32 AM	115.305
	5/6/2006 7:31:32 AM	115.35		5/6/2006 9:51:32 AM	115.309
	5/6/2006 7:32:08 AM	115.347		5/6/2006 9:59:32 AM	115.309
	5/6/2006 7:32:44 AM	115.336		5/6/2006 10:09:32 AM	115.306
	5/6/2006 7:33:26 AM	115.351		5/6/2006 10:19:32 AM	115.312
	5/6/2006 7:34:08 AM	115.348		5/6/2006 10:29:32 AM	115.298
	5/6/2006 7:34:50 AM	115.349		5/6/2006 10:40:32 AM	115.297
	5/6/2006 7:35:38 AM	115.346		5/6/2006 10:52:32 AM	115.296
	5/6/2006 7:36:32 AM	115.349		5/6/2006 11:05:32 AM	115.294
	5/6/2006 7:37:20 AM	115.343		5/6/2006 11:18:32 AM	115.297
	5/6/2006 7:38:20 AM	115.346		5/6/2006 11:32:32 AM	115.276
	5/6/2006 7:39:20 AM	115.343		5/6/2006 11:47:32 AM	115.287

Well	Date and Time	GWE (ft)
SEA-4		
TROLL		
	5/6/2006 12:03:32 PM	115.286
	5/6/2006 12:19:32 PM	115.289
	5/6/2006 12:37:32 PM	115.268
	5/6/2006 12:56:32 PM	115.275
	5/6/2006 1:16:32 PM	115.264
	5/6/2006 1:37:32 PM	115.264
	5/6/2006 1:59:32 PM	115.25
	5/6/2006 2:23:32 PM	115.253
	5/6/2006 2:48:32 PM	115.249
	5/6/2006 3:14:32 PM	115.229
	5/6/2006 3:42:32 PM	115.235
	5/6/2006 4:12:32 PM	115.223
	5/6/2006 4:43:32 PM	115.227
	5/6/2006 5:17:32 PM	115.199
	5/6/2006 5:52:32 PM	115.206
	5/6/2006 6:29:32 PM	115.195
	5/6/2006 7:09:32 PM	115.18
	5/6/2006 7:51:32 PM	115.184
	5/6/2006 8:35:32 PM	115.174
	5/6/2006 9:22:32 PM	115.175
	5/6/2006 10:12:32 PM	115.148
	5/6/2006 11:05:32 PM	115.132
	5/7/2006 12:01:32 AM	115.117
	5/7/2006 1:01:32 AM	115.106
	5/7/2006 2:01:32 AM	115.098
	5/7/2006 3:11:32 AM	115.069
	5/7/2006 4:21:32 AM	115.063
	5/7/2006 5:31:32 AM	115.036
	5/7/2006 6:51:32 AM	115.021
	5/7/2006 8:21:32 AM	115.004
	5/7/2006 9:41:32 AM	114.994
	5/7/2006 11:21:32 AM	114.973
	5/7/2006 1:01:32 PM	114.944
	5/7/2006 2:41:32 PM	114.926
	5/7/2006 4:31:32 PM	114.903
	5/7/2006 6:31:32 PM	114.868
	5/7/2006 8:31:32 PM	114.857
	5/7/2006 10:31:32 PM	114.82
	5/8/2006 12:31:32 AM	114.793
	5/8/2006 2:31:32 AM	114.76
	5/8/2006 4:31:32 AM	114.741
	5/8/2006 6:31:32 AM	114.718
	5/8/2006 8:31:32 AM	114.698
	5/8/2006 10:31:32 AM	114.67
TROLL-rec		
	5/8/2006 1:00:00 PM	114.64
	5/8/2006 1:00:00 PM	114.632

Well	Date and Time	GWE (ft)
SEA-4		
TROLL-rec		
	5/8/2006 1:00:00 PM	114.651
	5/8/2006 1:00:01 PM	114.634
	5/8/2006 1:00:01 PM	114.631
	5/8/2006 1:00:01 PM	114.634
	5/8/2006 1:00:01 PM	114.631
	5/8/2006 1:00:02 PM	114.632
	5/8/2006 1:00:02 PM	114.639
	5/8/2006 1:00:02 PM	114.63
	5/8/2006 1:00:02 PM	114.624
	5/8/2006 1:00:03 PM	114.634
	5/8/2006 1:00:03 PM	114.624
	5/8/2006 1:00:03 PM	114.62
	5/8/2006 1:00:03 PM	114.63
	5/8/2006 1:00:04 PM	114.625
	5/8/2006 1:00:04 PM	114.634
	5/8/2006 1:00:04 PM	114.627
	5/8/2006 1:00:04 PM	114.635
	5/8/2006 1:00:05 PM	114.635
	5/8/2006 1:00:05 PM	114.632
	5/8/2006 1:00:05 PM	114.628
	5/8/2006 1:00:05 PM	114.631
	5/8/2006 1:00:06 PM	114.619
	5/8/2006 1:00:06 PM	114.632
	5/8/2006 1:00:06 PM	114.622
	5/8/2006 1:00:07 PM	114.632
	5/8/2006 1:00:07 PM	114.628
	5/8/2006 1:00:08 PM	114.634
	5/8/2006 1:00:08 PM	114.622
	5/8/2006 1:00:08 PM	114.628
	5/8/2006 1:00:09 PM	114.621
	5/8/2006 1:00:09 PM	114.64
	5/8/2006 1:00:10 PM	114.623
	5/8/2006 1:00:11 PM	114.632
	5/8/2006 1:00:11 PM	114.626
	5/8/2006 1:00:12 PM	114.625
	5/8/2006 1:00:13 PM	114.628
	5/8/2006 1:00:13 PM	114.633
	5/8/2006 1:00:14 PM	114.624
	5/8/2006 1:00:15 PM	114.637
	5/8/2006 1:00:16 PM	114.631
	5/8/2006 1:00:17 PM	114.618
	5/8/2006 1:00:18 PM	114.635
	5/8/2006 1:00:19 PM	114.636
	5/8/2006 1:00:20 PM	114.628
	5/8/2006 1:00:21 PM	114.635
	5/8/2006 1:00:23 PM	114.633
	5/8/2006 1:00:24 PM	114.626

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:25 PM	114.641		5/8/2006 1:06:19 PM	114.619
	5/8/2006 1:00:27 PM	114.633		5/8/2006 1:06:41 PM	114.642
	5/8/2006 1:00:28 PM	114.631		5/8/2006 1:07:05 PM	114.625
	5/8/2006 1:00:30 PM	114.631		5/8/2006 1:07:30 PM	114.635
	5/8/2006 1:00:32 PM	114.625		5/8/2006 1:07:56 PM	114.642
	5/8/2006 1:00:34 PM	114.629		5/8/2006 1:08:25 PM	114.631
	5/8/2006 1:00:36 PM	114.637		5/8/2006 1:08:55 PM	114.648
	5/8/2006 1:00:38 PM	114.63		5/8/2006 1:09:26 PM	114.629
	5/8/2006 1:00:40 PM	114.636		5/8/2006 1:10:00 PM	114.629
	5/8/2006 1:00:42 PM	114.631		5/8/2006 1:10:36 PM	114.638
	5/8/2006 1:00:45 PM	114.64		5/8/2006 1:11:12 PM	114.625
	5/8/2006 1:00:48 PM	114.636		5/8/2006 1:11:54 PM	114.635
	5/8/2006 1:00:50 PM	114.63		5/8/2006 1:12:36 PM	114.634
	5/8/2006 1:00:53 PM	114.621		5/8/2006 1:13:18 PM	114.637
	5/8/2006 1:00:57 PM	114.646		5/8/2006 1:14:06 PM	114.638
	5/8/2006 1:01:00 PM	114.636		5/8/2006 1:15:00 PM	114.641
	5/8/2006 1:01:04 PM	114.642		5/8/2006 1:15:48 PM	114.631
	5/8/2006 1:01:07 PM	114.637		5/8/2006 1:16:48 PM	114.627
	5/8/2006 1:01:11 PM	114.643		5/8/2006 1:17:48 PM	114.635
	5/8/2006 1:01:16 PM	114.629		5/8/2006 1:18:48 PM	114.637
	5/8/2006 1:01:20 PM	114.629		5/8/2006 1:19:54 PM	114.623
	5/8/2006 1:01:25 PM	114.642		5/8/2006 1:21:06 PM	114.639
	5/8/2006 1:01:30 PM	114.63		5/8/2006 1:22:24 PM	115.405
	5/8/2006 1:01:35 PM	114.638		5/8/2006 1:23:42 PM	116.757
	5/8/2006 1:01:41 PM	114.646		5/8/2006 1:25:06 PM	116.768
	5/8/2006 1:01:47 PM	114.642		5/8/2006 1:26:36 PM	116.788
	5/8/2006 1:01:53 PM	114.635		5/8/2006 1:28:12 PM	116.795
	5/8/2006 1:01:59 PM	114.645		5/8/2006 1:29:48 PM	116.812
	5/8/2006 1:02:07 PM	114.649		5/8/2006 1:31:36 PM	116.832
	5/8/2006 1:02:14 PM	114.64		5/8/2006 1:33:30 PM	116.845
	5/8/2006 1:02:22 PM	114.654		5/8/2006 1:35:30 PM	116.869
	5/8/2006 1:02:31 PM	114.618		5/8/2006 1:37:36 PM	116.883
	5/8/2006 1:02:40 PM	114.656		5/8/2006 1:39:48 PM	116.903
	5/8/2006 1:02:49 PM	114.652		5/8/2006 1:42:12 PM	116.926
	5/8/2006 1:02:59 PM	114.618		5/8/2006 1:44:42 PM	116.944
	5/8/2006 1:03:10 PM	114.628		5/8/2006 1:47:18 PM	116.964
	5/8/2006 1:03:21 PM	114.619		5/8/2006 1:50:06 PM	116.984
	5/8/2006 1:03:33 PM	114.622		5/8/2006 1:53:06 PM	117.012
	5/8/2006 1:03:46 PM	114.626		5/8/2006 1:56:12 PM	117.027
	5/8/2006 1:03:59 PM	114.657		5/8/2006 1:59:36 PM	117.05
	5/8/2006 1:04:13 PM	114.647		5/8/2006 2:03:06 PM	117.071
	5/8/2006 1:04:28 PM	114.621		5/8/2006 2:06:48 PM	117.094
	5/8/2006 1:04:44 PM	114.625		5/8/2006 2:10:48 PM	117.116
	5/8/2006 1:05:01 PM	114.626		5/8/2006 2:15:00 PM	117.145
	5/8/2006 1:05:19 PM	114.647		5/8/2006 2:19:24 PM	117.157
	5/8/2006 1:05:37 PM	114.625		5/8/2006 2:24:06 PM	117.193
	5/8/2006 1:05:58 PM	114.621		5/8/2006 2:29:06 PM	117.212

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-4			**SEA-4**		
TROLL-rec			TROLL-rec		
	5/8/2006 2:34:24 PM	117.246		5/9/2006 12:30:00 PM	119.698
	5/8/2006 2:40:00 PM	117.278		5/9/2006 2:00:00 PM	119.805
	5/8/2006 2:46:00 PM	117.291		5/9/2006 3:20:00 PM	119.878
	5/8/2006 2:52:00 PM	117.323		5/9/2006 5:00:00 PM	119.966
	5/8/2006 2:59:00 PM	117.357		5/9/2006 6:40:00 PM	120.056
	5/8/2006 3:06:00 PM	117.389		5/9/2006 8:20:00 PM	120.136
	5/8/2006 3:13:00 PM	117.428		5/9/2006 10:10:00 PM	120.224
	5/8/2006 3:21:00 PM	117.452		5/10/2006 12:10:00 AM	120.32
	5/8/2006 3:30:00 PM	117.486		5/10/2006 2:10:00 AM	120.413
	5/8/2006 3:38:00 PM	117.527		5/10/2006 4:10:00 AM	120.508
	5/8/2006 3:48:00 PM	117.566		5/10/2006 6:10:00 AM	120.582
	5/8/2006 3:58:00 PM	117.602		5/10/2006 8:10:00 AM	120.666
	5/8/2006 4:08:00 PM	117.624		5/10/2006 10:10:00 AM	120.738
	5/8/2006 4:19:00 PM	117.67		5/10/2006 12:10:00 PM	120.823
	5/8/2006 4:31:00 PM	117.714		5/10/2006 2:10:00 PM	120.896
	5/8/2006 4:44:00 PM	117.753		5/10/2006 4:10:00 PM	120.959
	5/8/2006 4:57:00 PM	117.796		5/10/2006 6:10:00 PM	121.029
	5/8/2006 5:11:00 PM	117.848		5/10/2006 8:10:00 PM	121.103
	5/8/2006 5:26:00 PM	117.883		5/10/2006 10:10:00 PM	121.169
	5/8/2006 5:42:00 PM	117.934		5/11/2006 12:10:00 AM	121.224
	5/8/2006 5:58:00 PM	117.968		5/11/2006 2:10:00 AM	121.298
	5/8/2006 6:16:00 PM	118.02		5/11/2006 4:10:00 AM	121.347
	5/8/2006 6:35:00 PM	118.076		5/11/2006 6:10:00 AM	121.409
	5/8/2006 6:55:00 PM	118.117		5/11/2006 8:10:00 AM	121.467
	5/8/2006 7:16:00 PM	118.182		5/11/2006 10:10:00 AM	121.514
	5/8/2006 7:38:00 PM	118.229		5/11/2006 12:10:00 PM	121.573
	5/8/2006 8:02:00 PM	118.288		5/11/2006 2:10:00 PM	121.635
	5/8/2006 8:27:00 PM	118.325		5/11/2006 4:10:00 PM	121.692
	5/8/2006 8:53:00 PM	118.394		5/11/2006 6:10:00 PM	121.741
	5/8/2006 9:21:00 PM	118.456		5/11/2006 8:10:00 PM	121.788
	5/8/2006 9:51:00 PM	118.512		5/11/2006 10:10:00 PM	121.835
	5/8/2006 10:22:00 PM	118.579		5/12/2006 12:10:00 AM	121.874
	5/8/2006 10:56:00 PM	118.631		5/12/2006 2:10:00 AM	121.935
	5/8/2006 11:31:00 PM	118.704		5/12/2006 4:10:00 AM	121.987
	5/9/2006 12:08:00 AM	118.75		5/12/2006 6:10:00 AM	122.028
	5/9/2006 12:48:00 AM	118.82		5/12/2006 8:10:00 AM	122.07
	5/9/2006 1:30:00 AM	118.889		5/12/2006 10:10:00 AM	122.12
	5/9/2006 2:14:00 AM	118.964		5/12/2006 12:10:00 PM	122.163
	5/9/2006 3:01:00 AM	119.029		5/12/2006 2:10:00 PM	122.201
	5/9/2006 3:51:00 AM	119.101		5/12/2006 4:10:00 PM	122.25
	5/9/2006 4:44:00 AM	119.166		5/12/2006 6:10:00 PM	122.27
	5/9/2006 5:40:00 AM	119.246		5/12/2006 8:10:00 PM	122.316
	5/9/2006 6:40:00 AM	119.327		5/12/2006 10:10:00 PM	122.365
	5/9/2006 7:40:00 AM	119.393		5/13/2006 12:10:00 AM	122.408
	5/9/2006 8:50:00 AM	119.478		5/13/2006 2:10:00 AM	122.435
	5/9/2006 10:00:00 AM	119.552		5/13/2006 4:10:00 AM	122.476
	5/9/2006 11:10:00 AM	119.622		5/13/2006 6:10:00 AM	122.515

Well	Date and Time	GWE (ft)
SEA-4		
TROLL-rec		
	5/13/2006 8:10:00 AM	122.546
	5/13/2006 10:10:00 AM	122.582
	5/13/2006 12:10:00 PM	122.629
	5/13/2006 2:10:00 PM	122.669
	5/13/2006 4:10:00 PM	122.701
	5/13/2006 6:10:00 PM	122.745
	5/13/2006 8:10:00 PM	122.789
	5/13/2006 10:10:00 PM	122.827
	5/14/2006 12:10:00 AM	122.869
	5/14/2006 2:10:00 AM	122.92
	5/14/2006 4:10:00 AM	122.949
	5/14/2006 6:10:00 AM	122.986
	5/14/2006 8:10:00 AM	123.027
	5/14/2006 10:10:00 AM	123.052
	5/14/2006 12:10:00 PM	123.113
	5/14/2006 2:10:00 PM	123.157
	5/14/2006 4:10:00 PM	123.2
	5/14/2006 6:10:00 PM	123.246
	5/14/2006 8:10:00 PM	123.287
	5/14/2006 10:10:00 PM	123.326
	5/15/2006 12:10:00 AM	123.373
	5/15/2006 2:10:00 AM	123.425
	5/15/2006 4:10:00 AM	123.449
	5/15/2006 6:10:00 AM	123.491
	5/15/2006 8:10:00 AM	123.538
	5/15/2006 10:10:00 AM	123.563
	5/15/2006 12:10:00 PM	123.618
SEA-7		
Manual		
	4/14/2006 12:40:00 PM	127.9
	4/21/2006 11:46:00 AM	128.04
	4/25/2006 11:27:00 AM	127.66
	4/26/2006 9:32:00 AM	127.69
	4/27/2006 5:50:00 PM	122.67
	4/28/2006 11:09:00 AM	121.4
	4/28/2006 2:25:00 PM	121.2
	4/29/2006 1:45:00 PM	119.9
	4/30/2006 4:42:00 PM	118.77
	5/1/2006 7:35:00 AM	118.26
	5/1/2006 12:51:00 PM	118.12
	5/3/2006 8:42:00 AM	117.75
	5/4/2006 1:30:00 PM	117.42
	5/5/2006 9:52:00 AM	117.15
	5/5/2006 3:30:00 PM	117.06
	5/6/2006 11:14:00 AM	116.77
	5/8/2006 3:31:00 PM	116.93

Well	Date and Time	GWE (ft)
SEA-7		
Manual		
	5/9/2006 10:36:00 AM	119.24
TROLL		
	4/26/2006 12:05:00 PM	127.69
	4/26/2006 12:05:00 PM	127.696
	4/26/2006 12:05:00 PM	127.696
	4/26/2006 12:05:01 PM	127.694
	4/26/2006 12:05:01 PM	127.692
	4/26/2006 12:05:01 PM	127.691
	4/26/2006 12:05:01 PM	127.689
	4/26/2006 12:05:02 PM	127.696
	4/26/2006 12:05:02 PM	127.697
	4/26/2006 12:05:02 PM	127.687
	4/26/2006 12:05:02 PM	127.694
	4/26/2006 12:05:03 PM	127.694
	4/26/2006 12:05:03 PM	127.693
	4/26/2006 12:05:03 PM	127.693
	4/26/2006 12:05:03 PM	127.682
	4/26/2006 12:05:04 PM	127.691
	4/26/2006 12:05:04 PM	127.683
	4/26/2006 12:05:04 PM	127.69
	4/26/2006 12:05:04 PM	127.689
	4/26/2006 12:05:05 PM	127.69
	4/26/2006 12:05:05 PM	127.688
	4/26/2006 12:05:05 PM	127.69
	4/26/2006 12:05:05 PM	127.696
	4/26/2006 12:05:06 PM	127.688
	4/26/2006 12:05:06 PM	127.687
	4/26/2006 12:05:06 PM	127.688
	4/26/2006 12:05:07 PM	127.688
	4/26/2006 12:05:07 PM	127.69
	4/26/2006 12:05:08 PM	127.69
	4/26/2006 12:05:08 PM	127.688
	4/26/2006 12:05:08 PM	127.691
	4/26/2006 12:05:09 PM	127.693
	4/26/2006 12:05:09 PM	127.693
	4/26/2006 12:05:10 PM	127.684
	4/26/2006 12:05:11 PM	127.694
	4/26/2006 12:05:11 PM	127.695
	4/26/2006 12:05:12 PM	127.686
	4/26/2006 12:05:13 PM	127.695
	4/26/2006 12:05:13 PM	127.688
	4/26/2006 12:05:14 PM	127.696
	4/26/2006 12:05:15 PM	127.689
	4/26/2006 12:05:16 PM	127.69
	4/26/2006 12:05:17 PM	127.69
	4/26/2006 12:05:18 PM	127.69
	4/26/2006 12:05:19 PM	127.691

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL			TROLL		
	4/26/2006 12:05:20 PM	127.69		4/26/2006 12:10:01 PM	127.18
	4/26/2006 12:05:21 PM	127.688		4/26/2006 12:10:19 PM	127.165
	4/26/2006 12:05:23 PM	127.688		4/26/2006 12:10:37 PM	127.154
	4/26/2006 12:05:24 PM	127.685		4/26/2006 12:10:58 PM	127.148
	4/26/2006 12:05:25 PM	127.682		4/26/2006 12:11:19 PM	127.138
	4/26/2006 12:05:27 PM	127.679		4/26/2006 12:11:41 PM	127.128
	4/26/2006 12:05:28 PM	127.671		4/26/2006 12:12:05 PM	127.13
	4/26/2006 12:05:30 PM	127.665		4/26/2006 12:12:30 PM	127.113
	4/26/2006 12:05:32 PM	127.656		4/26/2006 12:12:56 PM	127.107
	4/26/2006 12:05:34 PM	127.647		4/26/2006 12:13:25 PM	127.1
	4/26/2006 12:05:36 PM	127.637		4/26/2006 12:13:55 PM	127.086
	4/26/2006 12:05:38 PM	127.623		4/26/2006 12:14:26 PM	127.074
	4/26/2006 12:05:40 PM	127.611		4/26/2006 12:15:00 PM	127.061
	4/26/2006 12:05:42 PM	127.587		4/26/2006 12:15:36 PM	127.056
	4/26/2006 12:05:45 PM	127.581		4/26/2006 12:16:12 PM	127.038
	4/26/2006 12:05:48 PM	127.566		4/26/2006 12:16:54 PM	127.022
	4/26/2006 12:05:50 PM	127.547		4/26/2006 12:17:36 PM	127.019
	4/26/2006 12:05:53 PM	127.521		4/26/2006 12:18:18 PM	126.994
	4/26/2006 12:05:57 PM	127.512		4/26/2006 12:19:06 PM	126.984
	4/26/2006 12:06:00 PM	127.485		4/26/2006 12:20:00 PM	126.969
	4/26/2006 12:06:04 PM	127.474		4/26/2006 12:20:48 PM	126.959
	4/26/2006 12:06:07 PM	127.459		4/26/2006 12:21:48 PM	126.95
	4/26/2006 12:06:11 PM	127.432		4/26/2006 12:22:48 PM	126.927
	4/26/2006 12:06:16 PM	127.417		4/26/2006 12:23:48 PM	126.92
	4/26/2006 12:06:20 PM	127.41		4/26/2006 12:24:54 PM	126.899
	4/26/2006 12:06:25 PM	127.393		4/26/2006 12:26:06 PM	126.886
	4/26/2006 12:06:30 PM	127.37		4/26/2006 12:27:24 PM	126.873
	4/26/2006 12:06:35 PM	127.358		4/26/2006 12:28:42 PM	126.847
	4/26/2006 12:06:41 PM	127.353		4/26/2006 12:30:06 PM	126.829
	4/26/2006 12:06:47 PM	127.333		4/26/2006 12:31:36 PM	126.818
	4/26/2006 12:06:53 PM	127.323		4/26/2006 12:33:12 PM	126.798
	4/26/2006 12:06:59 PM	127.311		4/26/2006 12:34:48 PM	126.78
	4/26/2006 12:07:07 PM	127.3		4/26/2006 12:36:36 PM	126.762
	4/26/2006 12:07:14 PM	127.299		4/26/2006 12:38:30 PM	126.739
	4/26/2006 12:07:22 PM	127.29		4/26/2006 12:40:30 PM	126.717
	4/26/2006 12:07:31 PM	127.283		4/26/2006 12:42:36 PM	126.69
	4/26/2006 12:07:40 PM	127.271		4/26/2006 12:44:48 PM	126.673
	4/26/2006 12:07:49 PM	127.267		4/26/2006 12:47:12 PM	126.652
	4/26/2006 12:07:59 PM	127.246		4/26/2006 12:49:42 PM	126.628
	4/26/2006 12:08:10 PM	127.239		4/26/2006 12:52:18 PM	126.605
	4/26/2006 12:08:21 PM	127.243		4/26/2006 12:55:06 PM	126.571
	4/26/2006 12:08:33 PM	127.229		4/26/2006 12:58:06 PM	126.537
	4/26/2006 12:08:46 PM	127.217		4/26/2006 1:01:12 PM	126.527
	4/26/2006 12:08:59 PM	127.217		4/26/2006 1:04:36 PM	126.495
	4/26/2006 12:09:13 PM	127.201		4/26/2006 1:08:06 PM	126.471
	4/26/2006 12:09:28 PM	127.198		4/26/2006 1:11:48 PM	126.449
	4/26/2006 12:09:44 PM	127.182		4/26/2006 1:15:48 PM	126.432

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL			TROLL		
	4/26/2006 1:20:00 PM	126.391		4/26/2006 3:30:31 PM	125.783
	4/26/2006 1:24:24 PM	126.376		4/26/2006 3:30:31 PM	125.786
	4/26/2006 1:29:06 PM	126.356		4/26/2006 3:30:32 PM	125.778
	4/26/2006 1:34:06 PM	126.33		4/26/2006 3:30:32 PM	125.786
	4/26/2006 1:39:24 PM	126.298		4/26/2006 3:30:33 PM	125.787
	4/26/2006 1:45:00 PM	126.261		4/26/2006 3:30:34 PM	125.788
	4/26/2006 1:51:00 PM	126.22		4/26/2006 3:30:34 PM	125.788
	4/26/2006 1:57:00 PM	126.207		4/26/2006 3:30:35 PM	125.782
	4/26/2006 2:04:00 PM	126.163		4/26/2006 3:30:36 PM	125.783
	4/26/2006 2:11:00 PM	126.129		4/26/2006 3:30:36 PM	125.781
	4/26/2006 2:18:00 PM	126.103		4/26/2006 3:30:37 PM	125.782
	4/26/2006 2:26:00 PM	126.056		4/26/2006 3:30:38 PM	125.784
	4/26/2006 2:35:00 PM	126.022		4/26/2006 3:30:39 PM	125.786
	4/26/2006 2:43:00 PM	125.983		4/26/2006 3:30:40 PM	125.788
	4/26/2006 2:53:00 PM	125.939		4/26/2006 3:30:41 PM	125.785
	4/26/2006 3:03:00 PM	125.898		4/26/2006 3:30:42 PM	125.786
	4/26/2006 3:13:00 PM	125.865		4/26/2006 3:30:43 PM	125.787
	4/26/2006 3:24:00 PM	125.819		4/26/2006 3:30:44 PM	125.786
	4/26/2006 3:30:23 PM	125.796		4/26/2006 3:30:46 PM	125.789
	4/26/2006 3:30:23 PM	125.783		4/26/2006 3:30:47 PM	125.789
	4/26/2006 3:30:23 PM	125.791		4/26/2006 3:30:48 PM	125.788
	4/26/2006 3:30:24 PM	125.789		4/26/2006 3:30:50 PM	125.787
	4/26/2006 3:30:24 PM	125.787		4/26/2006 3:30:51 PM	125.79
	4/26/2006 3:30:24 PM	125.787		4/26/2006 3:30:53 PM	125.789
	4/26/2006 3:30:24 PM	125.784		4/26/2006 3:30:55 PM	125.786
	4/26/2006 3:30:25 PM	125.79		4/26/2006 3:30:57 PM	125.786
	4/26/2006 3:30:25 PM	125.791		4/26/2006 3:30:59 PM	125.787
	4/26/2006 3:30:25 PM	125.791		4/26/2006 3:31:01 PM	125.787
	4/26/2006 3:30:25 PM	125.788		4/26/2006 3:31:03 PM	125.788
	4/26/2006 3:30:26 PM	125.78		4/26/2006 3:31:05 PM	125.79
	4/26/2006 3:30:26 PM	125.787		4/26/2006 3:31:08 PM	125.79
	4/26/2006 3:30:26 PM	125.787		4/26/2006 3:31:11 PM	125.781
	4/26/2006 3:30:26 PM	125.785		4/26/2006 3:31:13 PM	125.789
	4/26/2006 3:30:27 PM	125.788		4/26/2006 3:31:16 PM	125.782
	4/26/2006 3:30:27 PM	125.789		4/26/2006 3:31:20 PM	125.787
	4/26/2006 3:30:27 PM	125.791		4/26/2006 3:31:23 PM	125.8
	4/26/2006 3:30:27 PM	125.783		4/26/2006 3:31:27 PM	125.7
	4/26/2006 3:30:28 PM	125.784		4/26/2006 3:31:30 PM	125.784
	4/26/2006 3:30:28 PM	125.782		4/26/2006 3:31:34 PM	125.781
	4/26/2006 3:30:28 PM	125.783		4/26/2006 3:31:39 PM	125.779
	4/26/2006 3:30:28 PM	125.79		4/26/2006 3:31:43 PM	125.78
	4/26/2006 3:30:29 PM	125.782		4/26/2006 3:31:48 PM	125.78
	4/26/2006 3:30:29 PM	125.79		4/26/2006 3:31:53 PM	125.787
	4/26/2006 3:30:29 PM	125.782		4/26/2006 3:31:58 PM	125.787
	4/26/2006 3:30:30 PM	125.783		4/26/2006 3:32:04 PM	125.778
	4/26/2006 3:30:30 PM	125.783		4/26/2006 3:32:10 PM	125.779
	4/26/2006 3:30:31 PM	125.784		4/26/2006 3:32:16 PM	125.786

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL			TROLL		
	4/26/2006 3:32:22 PM	125.778		4/26/2006 4:00:11 PM	125.675
	4/26/2006 3:32:30 PM	125.785		4/26/2006 4:01:59 PM	125.669
	4/26/2006 3:32:37 PM	125.777		4/26/2006 4:03:53 PM	125.668
	4/26/2006 3:32:45 PM	125.776		4/26/2006 4:05:53 PM	125.655
	4/26/2006 3:32:54 PM	125.773		4/26/2006 4:07:59 PM	125.654
	4/26/2006 3:33:03 PM	125.786		4/26/2006 4:10:11 PM	125.638
	4/26/2006 3:33:12 PM	125.781		4/26/2006 4:12:35 PM	125.637
	4/26/2006 3:33:22 PM	125.776		4/26/2006 4:15:05 PM	125.621
	4/26/2006 3:33:33 PM	125.776		4/26/2006 4:17:41 PM	125.611
	4/26/2006 3:33:44 PM	125.78		4/26/2006 4:20:29 PM	125.602
	4/26/2006 3:33:56 PM	125.771		4/26/2006 4:23:29 PM	125.597
	4/26/2006 3:34:09 PM	125.771		4/26/2006 4:26:35 PM	125.58
	4/26/2006 3:34:22 PM	125.779		4/26/2006 4:29:59 PM	125.576
	4/26/2006 3:34:36 PM	125.77		4/26/2006 4:33:29 PM	125.549
	4/26/2006 3:34:51 PM	125.778		4/26/2006 4:37:11 PM	125.551
	4/26/2006 3:35:07 PM	125.774		4/26/2006 4:41:11 PM	125.537
	4/26/2006 3:35:24 PM	125.777		4/26/2006 4:45:23 PM	125.524
	4/26/2006 3:35:42 PM	125.763		4/26/2006 4:49:47 PM	125.501
	4/26/2006 3:36:00 PM	125.766		4/26/2006 4:54:29 PM	125.494
	4/26/2006 3:36:21 PM	125.765		4/26/2006 4:59:29 PM	125.468
	4/26/2006 3:36:42 PM	125.765		4/26/2006 5:04:47 PM	125.461
	4/26/2006 3:37:04 PM	125.761		4/26/2006 5:10:23 PM	125.443
	4/26/2006 3:37:28 PM	125.767		4/26/2006 5:16:23 PM	125.422
	4/26/2006 3:37:53 PM	125.757		4/26/2006 5:22:23 PM	125.405
	4/26/2006 3:38:19 PM	125.757		4/26/2006 5:29:23 PM	125.382
	4/26/2006 3:38:48 PM	125.752		4/26/2006 5:36:23 PM	125.352
	4/26/2006 3:39:18 PM	125.761		4/26/2006 5:43:23 PM	125.338
	4/26/2006 3:39:49 PM	125.75		4/26/2006 5:51:23 PM	125.298
	4/26/2006 3:40:23 PM	125.753		4/26/2006 6:00:23 PM	125.288
	4/26/2006 3:40:59 PM	125.745		4/26/2006 6:08:23 PM	125.263
	4/26/2006 3:41:35 PM	125.754		4/26/2006 6:18:23 PM	125.233
	4/26/2006 3:42:17 PM	125.74		4/26/2006 6:28:23 PM	125.205
	4/26/2006 3:42:59 PM	125.736		4/26/2006 6:38:23 PM	125.169
	4/26/2006 3:43:41 PM	125.742		4/26/2006 6:49:23 PM	125.139
	4/26/2006 3:44:29 PM	125.738		4/26/2006 7:01:23 PM	125.105
	4/26/2006 3:45:23 PM	125.735		4/26/2006 7:14:23 PM	125.075
	4/26/2006 3:46:11 PM	125.735		4/26/2006 7:27:23 PM	125.033
	4/26/2006 3:47:11 PM	125.73		4/26/2006 7:41:23 PM	124.99
	4/26/2006 3:48:11 PM	125.726		4/26/2006 7:56:23 PM	124.965
	4/26/2006 3:49:11 PM	125.72		4/26/2006 8:12:23 PM	124.924
	4/26/2006 3:50:17 PM	125.719		4/26/2006 8:28:23 PM	124.869
	4/26/2006 3:51:29 PM	125.71		4/26/2006 8:46:23 PM	124.838
	4/26/2006 3:52:47 PM	125.708		4/26/2006 9:05:23 PM	124.792
	4/26/2006 3:54:05 PM	125.706		4/26/2006 9:25:23 PM	124.743
	4/26/2006 3:55:29 PM	125.682		4/26/2006 9:46:23 PM	124.694
	4/26/2006 3:56:59 PM	125.694		4/26/2006 10:08:23 PM	124.642
	4/26/2006 3:58:35 PM	125.682		4/26/2006 10:32:23 PM	124.589

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL			TROLL		
	4/26/2006 10:57:23 PM	124.534		4/29/2006 6:40:47 PM	119.692
	4/26/2006 11:23:23 PM	124.476		4/29/2006 8:40:47 PM	119.595
	4/26/2006 11:51:23 PM	124.399		4/29/2006 10:40:47 PM	119.501
	4/27/2006 12:21:23 AM	124.354		4/30/2006 12:40:47 AM	119.409
	4/27/2006 12:52:23 AM	124.282		4/30/2006 2:40:47 AM	119.311
	4/27/2006 1:26:23 AM	124.219		4/30/2006 4:40:47 AM	119.224
	4/27/2006 2:01:23 AM	124.151		4/30/2006 6:40:47 AM	119.143
	4/27/2006 2:38:23 AM	124.081		4/30/2006 8:40:47 AM	119.058
	4/27/2006 3:18:23 AM	123.998		4/30/2006 10:40:47 AM	118.968
	4/27/2006 4:00:23 AM	123.921		4/30/2006 12:40:47 PM	118.905
	4/27/2006 4:44:23 AM	123.85		4/30/2006 2:40:47 PM	118.851
	4/27/2006 5:31:23 AM	123.761		4/30/2006 4:40:47 PM	118.792
	4/27/2006 6:21:23 AM	123.683		4/30/2006 6:40:47 PM	118.729
	4/27/2006 7:14:23 AM	123.586		4/30/2006 8:40:47 PM	118.663
	4/27/2006 8:10:23 AM	123.493		4/30/2006 10:40:47 PM	118.597
	4/27/2006 9:10:23 AM	123.399		5/1/2006 12:40:47 AM	118.531
	4/27/2006 10:10:23 AM	123.308		5/1/2006 2:40:47 AM	118.463
	4/27/2006 11:20:23 AM	123.205		5/1/2006 4:40:47 AM	118.399
	4/27/2006 12:30:23 PM	123.108		5/1/2006 6:40:47 AM	118.333
	4/27/2006 1:40:23 PM	123.022		5/1/2006 8:40:47 AM	118.269
	4/27/2006 3:00:23 PM	122.912		5/1/2006 10:40:47 AM	118.202
	4/27/2006 4:30:23 PM	122.781		5/1/2006 12:40:47 PM	118.137
	4/27/2006 5:50:23 PM	122.669		5/1/2006 2:40:47 PM	118.132
	4/27/2006 7:30:23 PM	122.51		5/1/2006 4:40:47 PM	118.158
	4/27/2006 9:10:23 PM	122.373		5/1/2006 6:40:47 PM	118.131
	4/27/2006 10:50:23 PM	122.249		5/1/2006 8:40:47 PM	118.103
	4/28/2006 12:40:23 AM	122.102		5/1/2006 10:40:47 PM	118.077
	4/28/2006 2:40:23 AM	121.951		5/2/2006 12:40:47 AM	118.057
	4/28/2006 4:40:23 AM	121.82		5/2/2006 2:40:47 AM	118.025
	4/28/2006 6:40:23 AM	121.7		5/2/2006 4:40:47 AM	117.996
	4/28/2006 8:40:23 AM	121.572		5/2/2006 6:40:47 AM	117.964
	4/28/2006 10:40:23 AM	121.446		5/2/2006 8:40:47 AM	117.931
	4/28/2006 12:40:47 PM	121.322		5/2/2006 10:40:47 AM	117.9
	4/28/2006 2:40:47 PM	121.196		5/2/2006 12:40:47 PM	117.86
	4/28/2006 4:40:47 PM	121.066		5/2/2006 2:40:47 PM	117.827
	4/28/2006 6:40:47 PM	120.958		5/2/2006 4:40:47 PM	117.797
	4/28/2006 8:40:47 PM	120.842		5/2/2006 6:40:47 PM	117.763
	4/28/2006 10:40:47 PM	120.726		5/2/2006 8:40:47 PM	117.842
	4/29/2006 12:40:47 AM	120.604		5/2/2006 10:40:47 PM	117.836
	4/29/2006 2:40:47 AM	120.499		5/3/2006 12:40:47 AM	117.824
	4/29/2006 4:40:47 AM	120.392		5/3/2006 2:40:47 AM	117.808
	4/29/2006 6:40:47 AM	120.281		5/3/2006 4:40:47 AM	117.791
	4/29/2006 8:40:47 AM	120.177		5/3/2006 6:40:47 AM	117.773
	4/29/2006 10:40:47 AM	120.072		5/3/2006 8:40:47 AM	117.747
	4/29/2006 12:40:47 PM	119.971		5/3/2006 10:40:47 AM	117.736
	4/29/2006 2:40:47 PM	119.874		5/3/2006 12:40:47 PM	117.715
	4/29/2006 4:40:47 PM	119.777		5/3/2006 2:40:47 PM	117.694

Well	Date and Time	GWE (ft)
SEA-7		
TROLL		
	5/3/2006 4:40:47 PM	117.671
	5/3/2006 6:40:47 PM	117.648
	5/3/2006 8:40:47 PM	117.628
	5/3/2006 10:40:47 PM	117.603
	5/4/2006 12:40:47 AM	117.581
	5/4/2006 2:40:47 AM	117.556
	5/4/2006 4:40:47 AM	117.53
	5/4/2006 6:40:47 AM	117.507
	5/4/2006 8:40:47 AM	117.479
	5/4/2006 10:40:47 AM	117.447
	5/4/2006 12:40:47 PM	117.427
	5/4/2006 2:40:47 PM	117.411
	5/4/2006 4:40:47 PM	117.378
	5/4/2006 6:40:47 PM	117.351
	5/4/2006 8:40:47 PM	117.322
	5/4/2006 10:40:47 PM	117.295
	5/5/2006 12:40:47 AM	117.275
	5/5/2006 2:40:47 AM	117.241
	5/5/2006 4:40:47 AM	117.219
	5/5/2006 6:40:47 AM	117.192
	5/5/2006 8:40:47 AM	117.158
	5/5/2006 10:40:47 AM	117.132
	5/5/2006 12:40:47 PM	117.111
	5/5/2006 2:40:47 PM	117.084
	5/5/2006 4:40:47 PM	117.057
	5/5/2006 6:40:47 PM	117.022
	5/5/2006 8:40:47 PM	116.986
	5/5/2006 10:40:47 PM	116.964
	5/6/2006 12:40:47 AM	116.94
	5/6/2006 2:40:47 AM	116.907
	5/6/2006 4:40:47 AM	116.876
	5/6/2006 6:40:47 AM	116.853
	5/6/2006 8:40:47 AM	116.822
	5/6/2006 10:40:47 AM	116.793
	5/6/2006 12:40:47 PM	116.766
	5/6/2006 2:40:47 PM	116.737
	5/6/2006 4:40:47 PM	116.707
	5/6/2006 6:40:47 PM	116.681
	5/6/2006 8:40:47 PM	116.652
	5/6/2006 10:40:47 PM	116.624
	5/7/2006 12:40:47 AM	116.594
	5/7/2006 2:40:47 AM	116.565
	5/7/2006 4:40:47 AM	116.536
	5/7/2006 6:40:47 AM	116.508
	5/7/2006 8:40:47 AM	116.482
	5/7/2006 10:40:47 AM	116.452
	5/7/2006 12:40:47 PM	116.423

Well	Date and Time	GWE (ft)
SEA-7		
TROLL		
	5/7/2006 2:40:47 PM	116.399
	5/7/2006 4:40:47 PM	116.37
	5/7/2006 6:40:47 PM	116.342
	5/7/2006 8:40:47 PM	116.315
	5/7/2006 10:40:47 PM	116.287
	5/8/2006 12:40:47 AM	116.26
	5/8/2006 2:40:47 AM	116.235
	5/8/2006 4:40:47 AM	116.202
	5/8/2006 6:40:47 AM	116.181
	5/8/2006 8:40:47 AM	116.156
	5/8/2006 10:40:47 AM	116.129
TROLL-rec		
	5/8/2006 1:00:00 PM	116.094
	5/8/2006 1:00:00 PM	116.091
	5/8/2006 1:00:01 PM	116.085
	5/8/2006 1:00:01 PM	116.088
	5/8/2006 1:00:01 PM	116.089
	5/8/2006 1:00:01 PM	116.088
	5/8/2006 1:00:02 PM	116.087
	5/8/2006 1:00:02 PM	116.086
	5/8/2006 1:00:02 PM	116.092
	5/8/2006 1:00:02 PM	116.092
	5/8/2006 1:00:03 PM	116.09
	5/8/2006 1:00:03 PM	116.089
	5/8/2006 1:00:03 PM	116.089
	5/8/2006 1:00:03 PM	116.089
	5/8/2006 1:00:04 PM	116.087
	5/8/2006 1:00:04 PM	116.088
	5/8/2006 1:00:04 PM	116.088
	5/8/2006 1:00:04 PM	116.087
	5/8/2006 1:00:05 PM	116.087
	5/8/2006 1:00:05 PM	116.086
	5/8/2006 1:00:05 PM	116.086
	5/8/2006 1:00:05 PM	116.091
	5/8/2006 1:00:06 PM	116.089
	5/8/2006 1:00:06 PM	116.085
	5/8/2006 1:00:06 PM	116.083
	5/8/2006 1:00:06 PM	116.087
	5/8/2006 1:00:07 PM	116.086
	5/8/2006 1:00:07 PM	116.087
	5/8/2006 1:00:08 PM	116.088
	5/8/2006 1:00:08 PM	116.087
	5/8/2006 1:00:08 PM	116.087
	5/8/2006 1:00:09 PM	116.088
	5/8/2006 1:00:09 PM	116.088
	5/8/2006 1:00:10 PM	116.09
	5/8/2006 1:00:11 PM	116.088

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:11 PM	116.09		5/8/2006 1:02:49 PM	116.094
	5/8/2006 1:00:13 PM	116.093		5/8/2006 1:02:59 PM	116.095
	5/8/2006 1:00:13 PM	116.091		5/8/2006 1:03:10 PM	116.089
	5/8/2006 1:00:13 PM	116.091		5/8/2006 1:03:21 PM	116.086
	5/8/2006 1:00:14 PM	116.09		5/8/2006 1:03:33 PM	116.087
	5/8/2006 1:00:15 PM	116.092		5/8/2006 1:03:46 PM	116.093
	5/8/2006 1:00:16 PM	116.087		5/8/2006 1:03:59 PM	116.094
	5/8/2006 1:00:17 PM	116.088		5/8/2006 1:04:13 PM	116.093
	5/8/2006 1:00:18 PM	116.095		5/8/2006 1:04:28 PM	116.096
	5/8/2006 1:00:19 PM	116.095		5/8/2006 1:04:44 PM	116.089
	5/8/2006 1:00:20 PM	116.088		5/8/2006 1:05:01 PM	116.088
	5/8/2006 1:00:21 PM	116.089		5/8/2006 1:05:19 PM	116.088
	5/8/2006 1:00:23 PM	116.09		5/8/2006 1:05:37 PM	116.092
	5/8/2006 1:00:24 PM	116.089		5/8/2006 1:05:58 PM	116.087
	5/8/2006 1:00:25 PM	116.097		5/8/2006 1:06:19 PM	116.088
	5/8/2006 1:00:27 PM	116.09		5/8/2006 1:06:41 PM	116.097
	5/8/2006 1:00:28 PM	116.091		5/8/2006 1:07:05 PM	116.083
	5/8/2006 1:00:30 PM	116.092		5/8/2006 1:07:30 PM	116.087
	5/8/2006 1:00:32 PM	116.092		5/8/2006 1:07:56 PM	116.086
	5/8/2006 1:00:34 PM	116.092		5/8/2006 1:08:25 PM	116.085
	5/8/2006 1:00:36 PM	116.091		5/8/2006 1:08:55 PM	116.093
	5/8/2006 1:00:38 PM	116.093		5/8/2006 1:09:26 PM	116.091
	5/8/2006 1:00:40 PM	116.093		5/8/2006 1:10:00 PM	116.092
	5/8/2006 1:00:42 PM	116.091		5/8/2006 1:10:36 PM	116.094
	5/8/2006 1:00:45 PM	116.093		5/8/2006 1:11:12 PM	116.091
	5/8/2006 1:00:48 PM	116.092		5/8/2006 1:11:54 PM	116.093
	5/8/2006 1:00:50 PM	116.092		5/8/2006 1:12:36 PM	116.094
	5/8/2006 1:00:53 PM	116.092		5/8/2006 1:13:18 PM	116.094
	5/8/2006 1:00:57 PM	116.089		5/8/2006 1:14:06 PM	116.09
	5/8/2006 1:01:00 PM	116.094		5/8/2006 1:15:00 PM	116.087
	5/8/2006 1:01:04 PM	116.095		5/8/2006 1:15:48 PM	116.086
	5/8/2006 1:01:07 PM	116.094		5/8/2006 1:16:48 PM	116.087
	5/8/2006 1:01:11 PM	116.087		5/8/2006 1:17:48 PM	116.087
	5/8/2006 1:01:16 PM	116.094		5/8/2006 1:18:48 PM	116.084
	5/8/2006 1:01:20 PM	116.089		5/8/2006 1:19:54 PM	116.09
	5/8/2006 1:01:25 PM	116.089		5/8/2006 1:21:06 PM	116.083
	5/8/2006 1:01:30 PM	116.09		5/8/2006 1:22:24 PM	116.087
	5/8/2006 1:01:35 PM	116.088		5/8/2006 1:23:42 PM	116.202
	5/8/2006 1:01:41 PM	116.087		5/8/2006 1:25:06 PM	116.24
	5/8/2006 1:01:47 PM	116.089		5/8/2006 1:26:36 PM	116.255
	5/8/2006 1:01:53 PM	116.088		5/8/2006 1:28:12 PM	116.277
	5/8/2006 1:01:59 PM	116.087		5/8/2006 1:29:48 PM	116.298
	5/8/2006 1:02:07 PM	116.087		5/8/2006 1:31:36 PM	116.31
	5/8/2006 1:02:14 PM	116.094		5/8/2006 1:33:30 PM	116.33
	5/8/2006 1:02:22 PM	116.089		5/8/2006 1:35:30 PM	116.346
	5/8/2006 1:02:31 PM	116.093		5/8/2006 1:37:36 PM	116.363
	5/8/2006 1:02:40 PM	116.094		5/8/2006 1:39:48 PM	116.382

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-7			**SEA-7**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:42:12 PM	116.403		5/8/2006 11:31:00 PM	118.239
	5/8/2006 1:44:42 PM	116.418		5/9/2006 12:08:00 AM	118.304
	5/8/2006 1:47:18 PM	116.434		5/9/2006 12:48:00 AM	118.379
	5/8/2006 1:50:06 PM	116.461		5/9/2006 1:30:00 AM	118.456
	5/8/2006 1:53:06 PM	116.472		5/9/2006 2:14:00 AM	118.539
	5/8/2006 1:56:12 PM	116.492		5/9/2006 3:01:00 AM	118.612
	5/8/2006 1:59:36 PM	116.513		5/9/2006 3:51:00 AM	118.691
	5/8/2006 2:03:06 PM	116.534		5/9/2006 4:44:00 AM	118.773
	5/8/2006 2:06:48 PM	116.56		5/9/2006 5:40:00 AM	118.856
	5/8/2006 2:10:48 PM	116.577		5/9/2006 6:40:00 AM	118.941
	5/8/2006 2:15:00 PM	116.6		5/9/2006 7:40:00 AM	119.025
	5/8/2006 2:19:24 PM	116.627		5/9/2006 8:50:00 AM	119.114
	5/8/2006 2:24:06 PM	116.653		5/9/2006 10:00:00 AM	119.204
	5/8/2006 2:29:06 PM	116.68		5/9/2006 11:10:00 AM	119.289
	5/8/2006 2:34:24 PM	116.698		5/9/2006 12:30:00 PM	119.386
	5/8/2006 2:40:00 PM	116.724		5/9/2006 2:00:00 PM	119.491
	5/8/2006 2:46:00 PM	116.758		5/9/2006 3:20:00 PM	119.572
	5/8/2006 2:52:00 PM	116.783		5/9/2006 5:00:00 PM	119.673
	5/8/2006 2:59:00 PM	116.815		5/9/2006 6:40:00 PM	119.749
	5/8/2006 3:06:00 PM	116.839		5/9/2006 8:20:00 PM	119.808
	5/8/2006 3:13:00 PM	116.875		5/9/2006 10:10:00 PM	119.973
	5/8/2006 3:21:00 PM	116.905		5/10/2006 12:10:00 AM	120.077
	5/8/2006 3:30:00 PM	116.943		5/10/2006 2:10:00 AM	120.173
	5/8/2006 3:38:00 PM	116.968		5/10/2006 4:10:00 AM	120.276
	5/8/2006 3:48:00 PM	117.006		5/10/2006 6:10:00 AM	120.363
	5/8/2006 3:58:00 PM	117.05		5/10/2006 8:10:00 AM	120.457
	5/8/2006 4:08:00 PM	117.085		5/10/2006 10:10:00 AM	120.545
	5/8/2006 4:19:00 PM	117.117		5/10/2006 12:10:00 PM	120.63
	5/8/2006 4:31:00 PM	117.159		5/10/2006 2:10:00 PM	120.712
	5/8/2006 4:44:00 PM	117.204		5/10/2006 4:10:00 PM	120.793
	5/8/2006 4:57:00 PM	117.253		5/10/2006 6:10:00 PM	120.868
	5/8/2006 5:11:00 PM	117.289		5/10/2006 8:10:00 PM	120.943
	5/8/2006 5:26:00 PM	117.345		5/10/2006 10:10:00 PM	121.02
	5/8/2006 5:42:00 PM	117.386		5/11/2006 12:10:00 AM	121.089
	5/8/2006 5:58:00 PM	117.439		5/11/2006 2:10:00 AM	121.159
	5/8/2006 6:16:00 PM	117.484		5/11/2006 4:10:00 AM	121.225
	5/8/2006 6:35:00 PM	117.539		5/11/2006 6:10:00 AM	121.291
	5/8/2006 6:55:00 PM	117.6		5/11/2006 8:10:00 AM	121.355
	5/8/2006 7:16:00 PM	117.652		5/11/2006 10:10:00 AM	121.414
	5/8/2006 7:38:00 PM	117.714		5/11/2006 12:10:00 PM	121.48
	5/8/2006 8:02:00 PM	117.769		5/11/2006 2:10:00 PM	121.542
	5/8/2006 8:27:00 PM	117.829		5/11/2006 4:10:00 PM	121.601
	5/8/2006 8:53:00 PM	117.892		5/11/2006 6:10:00 PM	121.656
	5/8/2006 9:21:00 PM	117.954		5/11/2006 8:10:00 PM	121.715
	5/8/2006 9:51:00 PM	118.022		5/11/2006 10:10:00 PM	121.766
	5/8/2006 10:22:00 PM	118.09		5/12/2006 12:10:00 AM	121.823
	5/8/2006 10:56:00 PM	118.167		5/12/2006 2:10:00 AM	121.878

Well	Date and Time	GWE (ft)
SEA-7		
TROLL-rec		
	5/12/2006 4:10:00 AM	121.93
	5/12/2006 6:10:00 AM	121.98
	5/12/2006 8:10:00 AM	122.036
	5/12/2006 10:10:00 AM	122.083
	5/12/2006 12:10:00 PM	122.133
	5/12/2006 2:10:00 PM	122.173
	5/12/2006 4:10:00 PM	122.218
	5/12/2006 6:10:00 PM	122.27
	5/12/2006 8:10:00 PM	122.314
	5/12/2006 10:10:00 PM	122.348
	5/13/2006 12:10:00 AM	122.4
	5/13/2006 2:10:00 AM	122.436
	5/13/2006 4:10:00 AM	122.479
	5/13/2006 6:10:00 AM	122.515
	5/13/2006 8:10:00 AM	122.556
	5/13/2006 10:10:00 AM	122.59
	5/13/2006 12:10:00 PM	122.639
	5/13/2006 2:10:00 PM	122.675
	5/13/2006 4:10:00 PM	122.768
	5/13/2006 6:10:00 PM	122.806
	5/13/2006 8:10:00 PM	122.857
	5/13/2006 10:10:00 PM	122.899
	5/14/2006 12:10:00 AM	122.932
	5/14/2006 2:10:00 AM	122.973
	5/14/2006 4:10:00 AM	122.983
	5/14/2006 6:10:00 AM	123.025
	5/14/2006 8:10:00 AM	123.088
	5/14/2006 10:10:00 AM	123.158
	5/14/2006 12:10:00 PM	123.192
	5/14/2006 2:10:00 PM	123.239
	5/14/2006 4:10:00 PM	123.287
	5/14/2006 6:10:00 PM	123.331
	5/14/2006 8:10:00 PM	123.386
	5/14/2006 10:10:00 PM	123.435
	5/15/2006 12:10:00 AM	123.464
	5/15/2006 2:10:00 AM	123.497
	5/15/2006 4:10:00 AM	123.527
	5/15/2006 6:10:00 AM	123.581
	5/15/2006 8:10:00 AM	123.605
	5/15/2006 10:10:00 AM	123.606
SEA-8		
Manual		
	4/14/2006 11:30:00 AM	126.98
	4/21/2006 9:00:00 AM	126.95
	4/25/2006 10:30:00 AM	126.95
	4/26/2006 9:00:00 AM	126.95

Well	Date and Time	GWE (ft)
SEA-8		
Manual		
	4/27/2006 5:17:00 PM	113.25
	4/28/2006 10:33:00 AM	112.35
	4/28/2006 3:23:00 PM	112.1
	4/29/2006 12:38:00 PM	111.14
	4/30/2006 4:29:00 PM	110.19
	5/1/2006 8:30:00 AM	109.74
	5/1/2006 12:15:00 PM	109.65
	5/3/2006 7:36:00 AM	111.3
	5/4/2006 8:00:00 AM	111.11
	5/5/2006 3:35:00 PM	110.73
	5/6/2006 2:30:00 PM	110.45
	5/9/2006 11:16:00 AM	120.11
TROLL		
	4/26/2006 12:05:00 PM	128.4355
	4/26/2006 12:05:00 PM	128.0585
	4/26/2006 12:05:00 PM	127.9525
	4/26/2006 12:05:01 PM	127.8915
	4/26/2006 12:05:01 PM	127.9835
	4/26/2006 12:05:01 PM	128.0785
	4/26/2006 12:05:01 PM	128.2175
	4/26/2006 12:05:02 PM	128.2835
	4/26/2006 12:05:02 PM	128.3615
	4/26/2006 12:05:02 PM	128.4365
	4/26/2006 12:05:02 PM	128.4815
	4/26/2006 12:05:03 PM	128.6125
	4/26/2006 12:05:03 PM	128.6485
	4/26/2006 12:05:03 PM	128.6905
	4/26/2006 12:05:03 PM	128.7545
	4/26/2006 12:05:04 PM	128.7565
	4/26/2006 12:05:04 PM	128.7545
	4/26/2006 12:05:04 PM	128.7355
	4/26/2006 12:05:04 PM	128.7685
	4/26/2006 12:05:05 PM	128.7395
	4/26/2006 12:05:05 PM	128.7495
	4/26/2006 12:05:05 PM	128.7655
	4/26/2006 12:05:05 PM	128.7645
	4/26/2006 12:05:06 PM	128.7735
	4/26/2006 12:05:06 PM	128.7545
	4/26/2006 12:05:06 PM	128.8765
	4/26/2006 12:05:07 PM	128.8745
	4/26/2006 12:05:07 PM	128.9045
	4/26/2006 12:05:08 PM	128.9135
	4/26/2006 12:05:08 PM	128.9825
	4/26/2006 12:05:08 PM	128.9945
	4/26/2006 12:05:09 PM	129.0305
	4/26/2006 12:05:09 PM	128.9575
	4/26/2006 12:05:10 PM	129.0155

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL			TROLL		
	4/26/2006 12:05:11 PM	129.0155		4/26/2006 12:07:40 PM	118.2795
	4/26/2006 12:05:11 PM	128.9905		4/26/2006 12:07:49 PM	118.2705
	4/26/2006 12:05:12 PM	127.6495		4/26/2006 12:07:59 PM	118.2625
	4/26/2006 12:05:13 PM	127.8075		4/26/2006 12:08:10 PM	118.2335
	4/26/2006 12:05:13 PM	127.2455		4/26/2006 12:08:21 PM	118.2115
	4/26/2006 12:05:14 PM	126.3165		4/26/2006 12:08:33 PM	118.2015
	4/26/2006 12:05:15 PM	125.4105		4/26/2006 12:08:46 PM	118.1885
	4/26/2006 12:05:16 PM	124.6995		4/26/2006 12:08:59 PM	118.1875
	4/26/2006 12:05:17 PM	124.1565		4/26/2006 12:09:13 PM	118.1595
	4/26/2006 12:05:18 PM	123.7065		4/26/2006 12:09:28 PM	118.1555
	4/26/2006 12:05:19 PM	123.5825		4/26/2006 12:09:44 PM	118.1425
	4/26/2006 12:05:20 PM	123.3755		4/26/2006 12:10:01 PM	118.1465
	4/26/2006 12:05:21 PM	123.0835		4/26/2006 12:10:19 PM	118.1205
	4/26/2006 12:05:23 PM	122.6195		4/26/2006 12:10:37 PM	118.0955
	4/26/2006 12:05:24 PM	122.0135		4/26/2006 12:10:58 PM	118.1145
	4/26/2006 12:05:25 PM	121.5525		4/26/2006 12:11:19 PM	118.0935
	4/26/2006 12:05:27 PM	121.3775		4/26/2006 12:11:41 PM	118.0725
	4/26/2006 12:05:28 PM	121.3465		4/26/2006 12:12:05 PM	118.0595
	4/26/2006 12:05:30 PM	121.1155		4/26/2006 12:12:30 PM	118.0425
	4/26/2006 12:05:32 PM	120.7105		4/26/2006 12:12:56 PM	118.0195
	4/26/2006 12:05:34 PM	120.4215		4/26/2006 12:13:25 PM	118.0035
	4/26/2006 12:05:36 PM	120.3415		4/26/2006 12:13:55 PM	117.9765
	4/26/2006 12:05:38 PM	120.2355		4/26/2006 12:14:26 PM	117.9635
	4/26/2006 12:05:40 PM	120.0035		4/26/2006 12:15:00 PM	117.9515
	4/26/2006 12:05:42 PM	119.8085		4/26/2006 12:15:36 PM	116.6135
	4/26/2006 12:05:45 PM	119.7625		4/26/2006 12:16:12 PM	118.5585
	4/26/2006 12:05:48 PM	119.6045		4/26/2006 12:16:54 PM	118.3425
	4/26/2006 12:05:50 PM	119.4415		4/26/2006 12:17:36 PM	118.2485
	4/26/2006 12:05:53 PM	119.3625		4/26/2006 12:18:18 PM	118.1555
	4/26/2006 12:05:57 PM	119.2435		4/26/2006 12:19:06 PM	118.1125
	4/26/2006 12:06:00 PM	119.1325		4/26/2006 12:20:00 PM	118.0685
	4/26/2006 12:06:04 PM	119.0495		4/26/2006 12:20:48 PM	118.0325
	4/26/2006 12:06:07 PM	118.9845		4/26/2006 12:21:48 PM	118.0145
	4/26/2006 12:06:11 PM	118.8975		4/26/2006 12:22:48 PM	117.9895
	4/26/2006 12:06:16 PM	118.8155		4/26/2006 12:23:48 PM	117.9775
	4/26/2006 12:06:20 PM	118.7645		4/26/2006 12:24:54 PM	117.9545
	4/26/2006 12:06:25 PM	118.6725		4/26/2006 12:26:06 PM	117.9385
	4/26/2006 12:06:30 PM	118.5805		4/26/2006 12:27:24 PM	117.8915
	4/26/2006 12:06:35 PM	118.4865		4/26/2006 12:28:42 PM	117.8795
	4/26/2006 12:06:41 PM	118.4415		4/26/2006 12:30:06 PM	117.8495
	4/26/2006 12:06:47 PM	118.4005		4/26/2006 12:31:36 PM	117.8115
	4/26/2006 12:06:53 PM	118.3615		4/26/2006 12:33:12 PM	117.7965
	4/26/2006 12:06:59 PM	118.3345		4/26/2006 12:34:48 PM	117.7845
	4/26/2006 12:07:07 PM	118.3145		4/26/2006 12:36:36 PM	117.7535
	4/26/2006 12:07:14 PM	118.3025		4/26/2006 12:38:30 PM	117.7305
	4/26/2006 12:07:22 PM	118.2975		4/26/2006 12:40:30 PM	117.6955
	4/26/2006 12:07:31 PM	118.2885		4/26/2006 12:42:36 PM	117.6825

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL			TROLL		
	4/26/2006 12:44:48 PM	117.6925		4/26/2006 10:01:00 PM	116.3685
	4/26/2006 12:47:12 PM	117.6745		4/26/2006 10:36:00 PM	116.3115
	4/26/2006 12:49:42 PM	117.6455		4/26/2006 11:13:00 PM	116.2625
	4/26/2006 12:52:18 PM	117.5915		4/26/2006 11:53:00 PM	113.6395
	4/26/2006 12:55:06 PM	117.5905		4/27/2006 12:35:00 AM	114.3525
	4/26/2006 12:58:06 PM	117.1355		4/27/2006 1:19:00 AM	114.3775
	4/26/2006 1:01:12 PM	117.1315		4/27/2006 2:06:00 AM	114.3735
	4/26/2006 1:04:36 PM	117.1445		4/27/2006 2:56:00 AM	114.3315
	4/26/2006 1:08:06 PM	117.1065		4/27/2006 3:49:00 AM	114.2895
	4/26/2006 1:11:48 PM	117.0705		4/27/2006 4:45:00 AM	114.2865
	4/26/2006 1:15:48 PM	117.1005		4/27/2006 5:45:00 AM	114.1725
	4/26/2006 1:20:00 PM	117.0905		4/27/2006 6:45:00 AM	114.1545
	4/26/2006 1:24:24 PM	117.0585		4/27/2006 7:55:00 AM	114.0685
	4/26/2006 1:29:06 PM	117.0465		4/27/2006 9:05:00 AM	113.9875
	4/26/2006 1:34:06 PM	117.0275		4/27/2006 10:15:00 AM	113.9005
	4/26/2006 1:39:24 PM	117.0215		4/27/2006 11:35:00 AM	113.7925
	4/26/2006 1:45:00 PM	116.9835		4/27/2006 1:05:00 PM	122.7975
	4/26/2006 1:51:00 PM	116.9835		4/27/2006 2:25:00 PM	113.6785
	4/26/2006 1:57:00 PM	116.9675		4/27/2006 4:05:00 PM	113.5525
	4/26/2006 2:04:00 PM	116.9555		4/27/2006 5:45:00 PM	113.4355
	4/26/2006 2:11:00 PM	116.9375		4/27/2006 7:25:00 PM	113.3495
	4/26/2006 2:18:00 PM	116.8725		4/27/2006 9:15:00 PM	113.2665
	4/26/2006 2:26:00 PM	116.8555		4/27/2006 11:15:00 PM	113.1375
	4/26/2006 2:35:00 PM	116.8265		4/28/2006 1:15:00 AM	113.0045
	4/26/2006 2:43:00 PM	116.8085		4/28/2006 3:15:00 AM	112.9035
	4/26/2006 2:53:00 PM	116.7465		4/28/2006 5:15:00 AM	112.7975
	4/26/2006 3:03:00 PM	116.9495		4/28/2006 7:15:00 AM	112.6835
	4/26/2006 3:13:00 PM	117.0125		4/28/2006 9:15:00 AM	112.5925
	4/26/2006 3:24:00 PM	117.0485		4/28/2006 11:15:00 AM	112.4875
	4/26/2006 3:36:00 PM	117.0525		4/28/2006 1:15:00 PM	112.3855
	4/26/2006 3:49:00 PM	117.0245		4/28/2006 3:15:00 PM	112.3075
	4/26/2006 4:02:00 PM	116.9905		4/28/2006 5:15:00 PM	112.2165
	4/26/2006 4:16:00 PM	116.9525		4/28/2006 7:15:00 PM	112.0595
	4/26/2006 4:31:00 PM	116.9155		4/28/2006 9:15:00 PM	111.9475
	4/26/2006 4:47:00 PM	117.1735		4/28/2006 11:15:00 PM	111.6835
	4/26/2006 5:03:00 PM	117.0255		4/29/2006 1:15:00 AM	111.5915
	4/26/2006 5:21:00 PM	116.9525		4/29/2006 3:15:00 AM	111.5165
	4/26/2006 5:40:00 PM	116.8815		4/29/2006 5:15:00 AM	111.4295
	4/26/2006 6:00:00 PM	116.8085		4/29/2006 7:15:00 AM	111.3245
	4/26/2006 6:21:00 PM	116.7415		4/29/2006 9:15:00 AM	111.2365
	4/26/2006 6:43:00 PM	116.7035		4/29/2006 11:15:00 AM	111.1865
	4/26/2006 7:07:00 PM	116.6735		4/29/2006 1:15:00 PM	111.1145
	4/26/2006 7:32:00 PM	116.6365		4/29/2006 3:15:00 PM	111.0405
	4/26/2006 7:58:00 PM	116.5745		4/29/2006 5:15:00 PM	110.9775
	4/26/2006 8:26:00 PM	116.5405		4/29/2006 7:15:00 PM	110.9145
	4/26/2006 8:56:00 PM	116.4895		4/29/2006 9:15:00 PM	110.8505
	4/26/2006 9:27:00 PM	116.4415		4/29/2006 11:15:00 PM	110.7795

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL			TROLL		
	4/30/2006 1:15:00 AM	110.6995		5/3/2006 11:15:00 PM	111.2005
	4/30/2006 3:15:00 AM	110.6305		5/4/2006 1:15:00 AM	111.1775
	4/30/2006 5:15:00 AM	110.5765		5/4/2006 3:15:00 AM	111.1715
	4/30/2006 7:15:00 AM	110.5015		5/4/2006 5:15:00 AM	111.1425
	4/30/2006 9:15:00 AM	110.4545		5/4/2006 7:15:00 AM	111.1185
	4/30/2006 11:15:00 AM	110.3925		5/4/2006 9:15:00 AM	111.1015
	4/30/2006 1:15:00 PM	110.3385		5/4/2006 11:15:00 AM	111.0825
	4/30/2006 3:15:00 PM	110.2835		5/4/2006 1:15:00 PM	111.0615
	4/30/2006 5:15:00 PM	110.1925		5/4/2006 3:15:00 PM	111.0355
	4/30/2006 7:15:00 PM	110.1515		5/4/2006 5:15:00 PM	111.0155
	4/30/2006 9:15:00 PM	110.0975		5/4/2006 7:15:00 PM	110.9725
	4/30/2006 11:15:00 PM	110.0315		5/4/2006 9:15:00 PM	110.9665
	5/1/2006 1:15:00 AM	109.9735		5/4/2006 11:15:00 PM	110.9435
	5/1/2006 3:15:00 AM	109.9265		5/5/2006 1:15:00 AM	110.9335
	5/1/2006 5:15:00 AM	109.8735		5/5/2006 3:15:00 AM	110.8895
	5/1/2006 7:15:00 AM	109.8345		5/5/2006 5:15:00 AM	110.8755
	5/1/2006 9:15:00 AM	109.7715		5/5/2006 7:15:00 AM	110.8495
	5/1/2006 11:15:00 AM	109.7225		5/5/2006 9:15:00 AM	110.8265
	5/1/2006 1:15:00 PM	109.6745		5/5/2006 11:15:00 AM	110.8105
	5/1/2006 3:15:00 PM	111.2665		5/5/2006 1:15:00 PM	110.7845
	5/1/2006 5:15:00 PM	111.3125		5/5/2006 3:15:00 PM	110.7575
	5/1/2006 7:15:00 PM	111.3515		5/5/2006 5:15:00 PM	110.7275
	5/1/2006 9:15:00 PM	111.3885		5/5/2006 7:15:00 PM	110.7045
	5/1/2006 11:15:00 PM	111.4185		5/5/2006 9:15:00 PM	110.6855
	5/2/2006 1:15:00 AM	111.4175		5/5/2006 11:15:00 PM	110.6635
	5/2/2006 3:15:00 AM	111.3935		5/6/2006 1:15:00 AM	110.6275
	5/2/2006 5:15:00 AM	111.3785		5/6/2006 3:15:00 AM	110.5875
	5/2/2006 7:15:00 AM	111.3765		5/6/2006 5:15:00 AM	110.5825
	5/2/2006 9:15:00 AM	111.3765		5/6/2006 7:15:00 AM	110.5585
	5/2/2006 11:15:00 AM	111.3535		5/6/2006 9:15:00 AM	110.5275
	5/2/2006 1:15:00 PM	111.3405		5/6/2006 11:15:00 AM	110.5145
	5/2/2006 3:15:00 PM	111.3625		5/6/2006 1:15:00 PM	110.4815
	5/2/2006 5:15:00 PM	111.3365		5/6/2006 3:15:00 PM	110.4665
	5/2/2006 7:15:00 PM	111.3485		5/6/2006 5:15:00 PM	110.4455
	5/2/2006 9:15:00 PM	111.3635		5/6/2006 7:15:00 PM	110.4145
	5/2/2006 11:15:00 PM	111.3595		5/6/2006 9:15:00 PM	110.4065
	5/3/2006 1:15:00 AM	111.3595		5/6/2006 11:15:00 PM	110.3625
	5/3/2006 3:15:00 AM	111.3435		5/7/2006 1:15:00 AM	110.3405
	5/3/2006 5:15:00 AM	111.3285		5/7/2006 3:15:00 AM	110.3135
	5/3/2006 7:15:00 AM	111.3155		5/7/2006 5:15:00 AM	110.2925
	5/3/2006 9:15:00 AM	111.3055		5/7/2006 7:15:00 AM	110.2655
	5/3/2006 11:15:00 AM	111.2865		5/7/2006 9:15:00 AM	110.2565
	5/3/2006 1:15:00 PM	111.2795		5/7/2006 11:15:00 AM	110.2285
	5/3/2006 3:15:00 PM	111.2655		5/7/2006 1:15:00 PM	110.2125
	5/3/2006 5:15:00 PM	111.2525		5/7/2006 3:15:00 PM	110.1865
	5/3/2006 7:15:00 PM	111.2305		5/7/2006 5:15:00 PM	110.1675
	5/3/2006 9:15:00 PM	111.2115		5/7/2006 7:15:00 PM	110.1425

Well	Date and Time	GWE (ft)
SEA-8		
TROLL		
	5/7/2006 9:15:00 PM	110.1175
	5/7/2006 11:15:00 PM	110.0835
	5/8/2006 1:15:00 AM	110.0605
	5/8/2006 3:15:00 AM	110.0375
	5/8/2006 5:15:00 AM	110.0215
	5/8/2006 7:15:00 AM	110.0075
	5/8/2006 9:15:00 AM	109.9735
	5/8/2006 11:15:00 AM	109.9465
TROLL-rec		
	5/8/2006 1:00:00 PM	109.9185
	5/8/2006 1:00:00 PM	109.9475
	5/8/2006 1:00:00 PM	109.9515
	5/8/2006 1:00:01 PM	109.9535
	5/8/2006 1:00:01 PM	109.9525
	5/8/2006 1:00:01 PM	109.9505
	5/8/2006 1:00:01 PM	109.9505
	5/8/2006 1:00:02 PM	109.9545
	5/8/2006 1:00:02 PM	109.9525
	5/8/2006 1:00:02 PM	109.9545
	5/8/2006 1:00:02 PM	109.9545
	5/8/2006 1:00:03 PM	109.9525
	5/8/2006 1:00:03 PM	109.9535
	5/8/2006 1:00:03 PM	109.9565
	5/8/2006 1:00:03 PM	109.9605
	5/8/2006 1:00:04 PM	109.9595
	5/8/2006 1:00:04 PM	109.9565
	5/8/2006 1:00:04 PM	109.9575
	5/8/2006 1:00:04 PM	109.9595
	5/8/2006 1:00:05 PM	109.9555
	5/8/2006 1:00:05 PM	109.9565
	5/8/2006 1:00:05 PM	109.9565
	5/8/2006 1:00:05 PM	109.9545
	5/8/2006 1:00:06 PM	109.9505
	5/8/2006 1:00:06 PM	109.9495
	5/8/2006 1:00:06 PM	109.9495
	5/8/2006 1:00:07 PM	109.9445
	5/8/2006 1:00:07 PM	109.9465
	5/8/2006 1:00:08 PM	109.9465
	5/8/2006 1:00:08 PM	109.9435
	5/8/2006 1:00:08 PM	109.9455
	5/8/2006 1:00:09 PM	109.9475
	5/8/2006 1:00:09 PM	109.9415
	5/8/2006 1:00:10 PM	109.9455
	5/8/2006 1:00:11 PM	109.9505
	5/8/2006 1:00:11 PM	109.9535
	5/8/2006 1:00:12 PM	109.9515
	5/8/2006 1:00:13 PM	109.9445

Well	Date and Time	GWE (ft)
SEA-8		
TROLL-rec		
	5/8/2006 1:00:13 PM	109.9435
	5/8/2006 1:00:14 PM	109.9465
	5/8/2006 1:00:15 PM	109.9445
	5/8/2006 1:00:16 PM	109.9415
	5/8/2006 1:00:17 PM	109.9465
	5/8/2006 1:00:18 PM	109.9485
	5/8/2006 1:00:19 PM	109.9535
	5/8/2006 1:00:20 PM	109.9545
	5/8/2006 1:00:21 PM	109.9545
	5/8/2006 1:00:23 PM	109.9595
	5/8/2006 1:00:24 PM	109.9565
	5/8/2006 1:00:25 PM	109.9545
	5/8/2006 1:00:27 PM	109.9545
	5/8/2006 1:00:28 PM	109.9495
	5/8/2006 1:00:30 PM	109.9545
	5/8/2006 1:00:32 PM	109.9515
	5/8/2006 1:00:34 PM	109.9435
	5/8/2006 1:00:36 PM	109.9515
	5/8/2006 1:00:38 PM	109.9535
	5/8/2006 1:00:40 PM	109.9495
	5/8/2006 1:00:42 PM	109.9455
	5/8/2006 1:00:45 PM	109.9435
	5/8/2006 1:00:48 PM	109.9395
	5/8/2006 1:00:50 PM	109.9405
	5/8/2006 1:00:53 PM	109.9345
	5/8/2006 1:00:57 PM	109.9405
	5/8/2006 1:01:00 PM	109.9345
	5/8/2006 1:01:04 PM	109.9355
	5/8/2006 1:01:07 PM	109.9355
	5/8/2006 1:01:11 PM	109.9385
	5/8/2006 1:01:16 PM	109.9345
	5/8/2006 1:01:20 PM	109.9465
	5/8/2006 1:01:25 PM	109.9385
	5/8/2006 1:01:30 PM	109.9315
	5/8/2006 1:01:35 PM	109.9465
	5/8/2006 1:01:41 PM	109.9365
	5/8/2006 1:01:47 PM	109.9425
	5/8/2006 1:01:53 PM	109.9375
	5/8/2006 1:01:59 PM	109.9305
	5/8/2006 1:02:07 PM	109.9275
	5/8/2006 1:02:14 PM	109.9355
	5/8/2006 1:02:22 PM	109.9345
	5/8/2006 1:02:31 PM	109.9275
	5/8/2006 1:02:40 PM	109.9285
	5/8/2006 1:02:49 PM	109.9295
	5/8/2006 1:02:59 PM	109.9295
	5/8/2006 1:03:10 PM	109.9255

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:03:21 PM	109.9315		5/8/2006 1:50:06 PM	117.1555
	5/8/2006 1:03:33 PM	109.9235		5/8/2006 1:53:06 PM	117.1985
	5/8/2006 1:03:46 PM	109.9305		5/8/2006 1:56:12 PM	117.2285
	5/8/2006 1:03:59 PM	109.9265		5/8/2006 1:59:36 PM	117.2665
	5/8/2006 1:04:13 PM	109.9335		5/8/2006 2:03:06 PM	117.3085
	5/8/2006 1:04:28 PM	109.9355		5/8/2006 2:06:48 PM	117.3375
	5/8/2006 1:04:44 PM	109.9315		5/8/2006 2:10:48 PM	117.3795
	5/8/2006 1:05:01 PM	109.9245		5/8/2006 2:15:00 PM	117.4125
	5/8/2006 1:05:19 PM	109.9295		5/8/2006 2:19:24 PM	117.4515
	5/8/2006 1:05:37 PM	109.9215		5/8/2006 2:24:06 PM	117.4875
	5/8/2006 1:05:58 PM	109.9315		5/8/2006 2:29:06 PM	117.5285
	5/8/2006 1:06:19 PM	109.9335		5/8/2006 2:34:24 PM	117.5625
	5/8/2006 1:06:41 PM	109.9195		5/8/2006 2:40:00 PM	117.6035
	5/8/2006 1:07:05 PM	109.9255		5/8/2006 2:46:00 PM	117.6435
	5/8/2006 1:07:30 PM	109.9285		5/8/2006 2:52:00 PM	117.6815
	5/8/2006 1:07:56 PM	109.9275		5/8/2006 2:59:00 PM	117.7175
	5/8/2006 1:08:25 PM	109.9315		5/8/2006 3:06:00 PM	117.7645
	5/8/2006 1:08:55 PM	109.9385		5/8/2006 3:13:00 PM	117.8015
	5/8/2006 1:09:26 PM	109.9275		5/8/2006 3:21:00 PM	117.8475
	5/8/2006 1:10:00 PM	109.9395		5/8/2006 3:30:00 PM	117.8995
	5/8/2006 1:10:36 PM	109.9255		5/8/2006 3:38:00 PM	117.9365
	5/8/2006 1:11:12 PM	109.9375		5/8/2006 3:48:00 PM	117.9845
	5/8/2006 1:11:54 PM	109.9345		5/8/2006 3:58:00 PM	118.0365
	5/8/2006 1:12:36 PM	109.9375		5/8/2006 4:08:00 PM	118.0785
	5/8/2006 1:13:18 PM	109.9435		5/8/2006 4:19:00 PM	118.1295
	5/8/2006 1:14:06 PM	109.9385		5/8/2006 4:31:00 PM	118.1825
	5/8/2006 1:15:00 PM	109.9435		5/8/2006 4:44:00 PM	118.2355
	5/8/2006 1:15:48 PM	109.9345		5/8/2006 4:57:00 PM	118.2835
	5/8/2006 1:16:48 PM	109.9335		5/8/2006 5:11:00 PM	118.3385
	5/8/2006 1:17:48 PM	109.9335		5/8/2006 5:26:00 PM	118.3945
	5/8/2006 1:18:48 PM	109.9335		5/8/2006 5:42:00 PM	118.4455
	5/8/2006 1:19:54 PM	109.9325		5/8/2006 5:58:00 PM	118.5055
	5/8/2006 1:21:06 PM	109.9385		5/8/2006 6:16:00 PM	118.5585
	5/8/2006 1:22:24 PM	115.8595		5/8/2006 6:35:00 PM	118.6175
	5/8/2006 1:23:42 PM	116.6915		5/8/2006 6:55:00 PM	118.6755
	5/8/2006 1:25:06 PM	116.8035		5/8/2006 7:16:00 PM	118.7325
	5/8/2006 1:26:36 PM	116.8305		5/8/2006 7:38:00 PM	118.7845
	5/8/2006 1:28:12 PM	116.7875		5/8/2006 8:02:00 PM	118.8495
	5/8/2006 1:29:48 PM	116.8125		5/8/2006 8:27:00 PM	118.9005
	5/8/2006 1:31:36 PM	116.8455		5/8/2006 8:53:00 PM	118.9615
	5/8/2006 1:33:30 PM	116.8855		5/8/2006 9:21:00 PM	119.0215
	5/8/2006 1:35:30 PM	116.9285		5/8/2006 9:51:00 PM	119.0795
	5/8/2006 1:37:36 PM	116.9635		5/8/2006 10:22:00 PM	119.1405
	5/8/2006 1:39:48 PM	117.0055		5/8/2006 10:56:00 PM	119.2005
	5/8/2006 1:42:12 PM	117.0445		5/8/2006 11:31:00 PM	119.2635
	5/8/2006 1:44:42 PM	117.0805		5/9/2006 12:08:00 AM	119.3245
	5/8/2006 1:47:18 PM	117.1185		5/9/2006 12:48:00 AM	119.3895

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL-rec			TROLL-rec		
	5/9/2006 1:30:00 AM	119.4525		5/12/2006 9:52:46 AM	122.3295
	5/9/2006 2:14:00 AM	119.5165		5/12/2006 9:52:46 AM	122.3315
	5/9/2006 3:01:00 AM	119.5865		5/12/2006 9:52:46 AM	122.3185
	5/9/2006 3:51:00 AM	119.6485		5/12/2006 9:52:46 AM	122.3205
	5/9/2006 4:44:00 AM	119.7165		5/12/2006 9:52:47 AM	122.3135
	5/9/2006 5:40:00 AM	119.7855		5/12/2006 9:52:47 AM	122.3195
	5/9/2006 6:40:00 AM	119.8505		5/12/2006 9:52:47 AM	122.3145
	5/9/2006 7:40:00 AM	119.9185		5/12/2006 9:52:47 AM	122.3135
	5/9/2006 8:50:00 AM	119.9915		5/12/2006 9:52:48 AM	122.3115
	5/9/2006 10:00:00 AM	120.0635		5/12/2006 9:52:48 AM	122.3085
	5/9/2006 11:10:00 AM	120.1325		5/12/2006 9:52:48 AM	122.3045
	5/9/2006 12:30:00 PM	120.2045		5/12/2006 9:52:48 AM	122.3095
	5/9/2006 2:00:00 PM	120.2865		5/12/2006 9:52:49 AM	122.3075
	5/9/2006 3:20:00 PM	120.3585		5/12/2006 9:52:49 AM	122.3075
	5/9/2006 5:00:00 PM	120.4445		5/12/2006 9:52:49 AM	122.3065
	5/9/2006 6:40:00 PM	120.5265		5/12/2006 9:52:49 AM	122.3055
	5/9/2006 8:20:00 PM	120.6085		5/12/2006 9:52:50 AM	122.3055
	5/9/2006 10:10:00 PM	120.6885		5/12/2006 9:52:50 AM	122.3065
	5/10/2006 12:10:00 AM	120.7745		5/12/2006 9:52:50 AM	122.3105
	5/10/2006 2:10:00 AM	120.8515		5/12/2006 9:52:50 AM	122.3045
	5/10/2006 4:10:00 AM	120.9285		5/12/2006 9:52:51 AM	122.3045
	5/10/2006 6:10:00 AM	121.0055		5/12/2006 9:52:51 AM	122.3045
	5/10/2006 8:10:00 AM	121.0755		5/12/2006 9:52:51 AM	122.3085
	5/10/2006 10:10:00 AM	121.1405		5/12/2006 9:52:51 AM	122.3025
	5/10/2006 12:10:00 PM	121.2085		5/12/2006 9:52:52 AM	122.3035
	5/10/2006 2:10:00 PM	121.2775		5/12/2006 9:52:52 AM	122.3015
	5/10/2006 4:10:00 PM	121.3385		5/12/2006 9:52:52 AM	122.3055
	5/10/2006 6:10:00 PM	121.3965		5/12/2006 9:52:53 AM	122.3055
	5/10/2006 8:10:00 PM	121.4505		5/12/2006 9:52:53 AM	122.3075
	5/10/2006 10:10:00 PM	121.4615		5/12/2006 9:52:53 AM	122.3035
	5/11/2006 12:10:00 AM	121.5185		5/12/2006 9:52:54 AM	122.3105
	5/11/2006 2:10:00 AM	121.5615		5/12/2006 9:52:55 AM	122.3065
	5/11/2006 4:10:00 AM	121.6185		5/12/2006 9:52:55 AM	122.3085
	5/11/2006 6:10:00 AM	121.6715		5/12/2006 9:52:56 AM	122.3095
	5/11/2006 8:10:00 AM	121.7315		5/12/2006 9:52:56 AM	122.3105
	5/11/2006 10:10:00 AM	121.7675		5/12/2006 9:52:57 AM	122.3125
	5/11/2006 12:10:00 PM	121.8375		5/12/2006 9:52:57 AM	122.3135
	5/11/2006 2:10:00 PM	121.8945		5/12/2006 9:52:58 AM	122.3135
	5/11/2006 4:10:00 PM	121.9375		5/12/2006 9:52:59 AM	122.3165
	5/11/2006 6:10:00 PM	121.9865		5/12/2006 9:53:00 AM	122.3175
	5/11/2006 8:10:00 PM	122.0245		5/12/2006 9:53:01 AM	122.3195
	5/11/2006 10:10:00 PM	122.0715		5/12/2006 9:53:01 AM	122.3195
	5/12/2006 12:10:00 AM	122.1095		5/12/2006 9:53:02 AM	122.3215
	5/12/2006 2:10:00 AM	122.1655		5/12/2006 9:53:03 AM	122.3225
	5/12/2006 4:10:00 AM	122.2065		5/12/2006 9:53:04 AM	122.3245
	5/12/2006 6:10:00 AM	122.2475		5/12/2006 9:53:06 AM	122.3265
	5/12/2006 8:10:00 AM	122.2785		5/12/2006 9:53:07 AM	122.3255

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-8			**SEA-8**		
TROLL-rec			TROLL-rec		
	5/12/2006 9:53:08 AM	122.3275		5/12/2006 9:58:23 AM	122.3005
	5/12/2006 9:53:09 AM	122.3315		5/12/2006 9:58:43 AM	122.3045
	5/12/2006 9:53:11 AM	122.3465		5/12/2006 9:59:04 AM	122.3025
	5/12/2006 9:53:12 AM	122.3285		5/12/2006 9:59:26 AM	122.3025
	5/12/2006 9:53:14 AM	122.3235		5/12/2006 9:59:50 AM	122.3095
	5/12/2006 9:53:16 AM	122.3305		5/12/2006 10:00:16 AM	122.3085
	5/12/2006 9:53:17 AM	122.3255		5/12/2006 10:00:42 AM	122.3135
	5/12/2006 9:53:19 AM	122.3265		5/12/2006 10:01:10 AM	122.3045
	5/12/2006 9:53:21 AM	122.3325		5/12/2006 10:01:40 AM	122.3045
	5/12/2006 9:53:23 AM	122.3315		5/12/2006 10:02:12 AM	122.3075
	5/12/2006 9:53:26 AM	122.3005		5/12/2006 10:02:46 AM	122.3055
	5/12/2006 9:53:28 AM	122.3935		5/12/2006 10:03:22 AM	122.3045
	5/12/2006 9:53:31 AM	122.3755		5/12/2006 10:03:58 AM	122.3075
	5/12/2006 9:53:33 AM	122.4105		5/12/2006 10:04:40 AM	122.3055
	5/12/2006 9:53:36 AM	122.4125		5/12/2006 10:05:22 AM	122.3015
	5/12/2006 9:53:39 AM	122.4095		5/12/2006 10:06:04 AM	122.3135
	5/12/2006 9:53:42 AM	122.4035		5/12/2006 10:06:52 AM	122.3175
	5/12/2006 9:53:46 AM	122.3995		5/12/2006 10:07:46 AM	122.3145
	5/12/2006 9:53:49 AM	122.3935		5/12/2006 10:08:34 AM	122.3115
	5/12/2006 9:53:53 AM	122.3885		5/12/2006 10:09:34 AM	122.3125
	5/12/2006 9:53:57 AM	122.3825		5/12/2006 10:10:34 AM	122.3085
	5/12/2006 9:54:01 AM	122.3735		5/12/2006 10:11:34 AM	122.3205
	5/12/2006 9:54:05 AM	122.3755		5/12/2006 10:12:40 AM	122.3275
	5/12/2006 9:54:10 AM	122.3705		5/12/2006 10:13:52 AM	122.3135
	5/12/2006 9:54:16 AM	122.3725		5/12/2006 10:15:10 AM	122.3125
	5/12/2006 9:54:20 AM	122.3645		5/12/2006 10:16:28 AM	122.3215
	5/12/2006 9:54:26 AM	122.3545		5/12/2006 10:17:52 AM	122.3245
	5/12/2006 9:54:32 AM	122.3485		5/12/2006 10:19:22 AM	122.3305
	5/12/2006 9:54:38 AM	122.3285		5/12/2006 10:20:58 AM	122.3205
	5/12/2006 9:54:45 AM	122.3245		5/12/2006 10:22:34 AM	122.3285
	5/12/2006 9:54:52 AM	122.3105		5/12/2006 10:24:22 AM	122.3265
	5/12/2006 9:55:00 AM	122.3175		5/12/2006 10:26:16 AM	122.3285
	5/12/2006 9:55:08 AM	122.3085		5/12/2006 10:28:16 AM	122.3265
	5/12/2006 9:55:16 AM	122.2995		5/12/2006 10:30:22 AM	122.3305
	5/12/2006 9:55:25 AM	122.3005		5/12/2006 10:32:34 AM	122.3315
	5/12/2006 9:55:35 AM	122.3165		5/12/2006 10:34:58 AM	122.3365
	5/12/2006 9:55:44 AM	122.3085		5/12/2006 10:37:28 AM	122.3305
	5/12/2006 9:55:55 AM	122.2995		5/12/2006 10:40:04 AM	122.3355
	5/12/2006 9:56:07 AM	122.3145		5/12/2006 10:42:52 AM	122.3455
	5/12/2006 9:56:19 AM	122.3035		5/12/2006 10:45:52 AM	122.3505
	5/12/2006 9:56:31 AM	122.3015		5/12/2006 10:48:58 AM	122.3505
	5/12/2006 9:56:44 AM	122.3055		5/12/2006 10:52:22 AM	122.3445
	5/12/2006 9:56:59 AM	122.3005		5/12/2006 10:55:52 AM	122.3315
	5/12/2006 9:57:14 AM	122.2925		5/12/2006 10:59:34 AM	122.3335
	5/12/2006 9:57:29 AM	122.3015		5/12/2006 11:03:34 AM	122.3525
	5/12/2006 9:57:46 AM	122.2965		5/12/2006 11:07:46 AM	122.3595
	5/12/2006 9:58:04 AM	122.2995		5/12/2006 11:12:10 AM	122.3375

Well	Date and Time	GWE (ft)
SEA-8		
TROLL-rec		
	5/12/2006 11:16:52 AM	122.3555
	5/12/2006 11:21:52 AM	122.3645
	5/12/2006 11:27:10 AM	122.3595
	5/12/2006 11:32:46 AM	122.3435
	5/12/2006 11:38:46 AM	122.3635
	5/12/2006 11:44:46 AM	122.3505
	5/12/2006 11:51:46 AM	122.3685
	5/12/2006 11:58:46 AM	122.3615
	5/12/2006 12:05:46 PM	122.3645
	5/12/2006 12:13:46 PM	122.3695
	5/12/2006 12:22:46 PM	122.3645
	5/12/2006 12:30:46 PM	122.3665
	5/12/2006 12:40:46 PM	122.3795
	5/12/2006 12:50:46 PM	122.3745
	5/12/2006 1:00:46 PM	122.3795
	5/12/2006 1:11:46 PM	122.3835
	5/12/2006 1:23:46 PM	122.3825
	5/12/2006 1:36:46 PM	122.3925
	5/12/2006 1:49:46 PM	122.4025
	5/12/2006 2:03:46 PM	122.4025
	5/12/2006 2:18:46 PM	122.4035
	5/12/2006 2:34:46 PM	122.4105
	5/12/2006 2:50:46 PM	122.4155
	5/12/2006 3:08:46 PM	122.4215
	5/12/2006 3:27:46 PM	122.4345
	5/12/2006 3:47:46 PM	122.4325
	5/12/2006 4:08:46 PM	122.4405
	5/12/2006 4:30:46 PM	122.4425
	5/12/2006 4:54:46 PM	122.4525
	5/12/2006 5:19:46 PM	122.4585
	5/12/2006 5:45:46 PM	122.4695
	5/12/2006 6:13:46 PM	122.4815
	5/12/2006 6:43:46 PM	122.4835
	5/12/2006 7:14:46 PM	122.4975
	5/12/2006 7:48:46 PM	122.5015
	5/12/2006 8:23:46 PM	122.5125
	5/12/2006 9:00:46 PM	122.5225
	5/12/2006 9:40:46 PM	122.5365
	5/12/2006 10:22:46 PM	122.5495
	5/12/2006 11:06:46 PM	122.5635
	5/12/2006 11:53:46 PM	122.5775
	5/13/2006 12:43:46 AM	122.5905
	5/13/2006 1:36:46 AM	122.6065
	5/13/2006 2:32:46 AM	122.6235
	5/13/2006 3:32:46 AM	122.6395
	5/13/2006 4:32:46 AM	122.6575
	5/13/2006 5:42:46 AM	122.6735
SEA-8		
TROLL-rec		
	5/13/2006 6:52:46 AM	122.6885
	5/13/2006 8:02:46 AM	122.7175
	5/13/2006 9:22:46 AM	122.7395
	5/13/2006 10:52:46 AM	122.7645
	5/13/2006 12:12:46 PM	122.7895
	5/13/2006 1:52:46 PM	122.8225
	5/13/2006 3:32:46 PM	122.8595
	5/13/2006 5:12:46 PM	122.9055
	5/13/2006 7:02:46 PM	122.9575
	5/13/2006 9:02:46 PM	123.0075
	5/13/2006 11:02:46 PM	123.0545
	5/14/2006 1:02:46 AM	123.0925
	5/14/2006 3:02:46 AM	123.1275
	5/14/2006 5:02:46 AM	123.1685
	5/14/2006 7:02:46 AM	123.2035
	5/14/2006 9:02:46 AM	123.2425
	5/14/2006 11:02:46 AM	123.2885
	5/14/2006 1:02:46 PM	123.3435
	5/14/2006 3:02:46 PM	123.3845
	5/14/2006 5:02:46 PM	123.4255
	5/14/2006 7:02:46 PM	123.4715
	5/14/2006 9:02:46 PM	123.5055
	5/14/2006 11:02:46 PM	123.5445
	5/15/2006 1:02:46 AM	123.5795
	5/15/2006 3:02:46 AM	123.6165
	5/15/2006 5:02:46 AM	123.6485
	5/15/2006 7:02:46 AM	123.6815
	5/15/2006 9:02:46 AM	123.7165
	5/15/2006 11:02:46 AM	123.7535
SEA-9		
Manual		
	4/14/2006 12:15:00 PM	127.86
	4/21/2006 11:40:00 AM	127.93
	4/25/2006 11:41:00 AM	127.64
	4/26/2006 9:50:00 AM	127.66
	4/27/2006 5:44:00 PM	123.17
	4/28/2006 11:24:00 AM	121.98
	4/28/2006 2:30:00 PM	121.81
	4/30/2006 9:39:00 AM	119.72
	4/30/2006 4:35:00 PM	119.5
	5/1/2006 7:45:00 AM	118.99
	5/1/2006 12:39:00 PM	118.86
	5/4/2006 1:45:00 PM	118.07
	5/5/2006 9:58:00 AM	117.82
	5/9/2006 10:44:00 AM	119.53
TROLL		

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-9			**SEA-9**		
TROLL			TROLL		
	4/26/2006 12:05:00 PM	127.66		4/26/2006 12:05:23 PM	127.65
	4/26/2006 12:05:00 PM	127.653		4/26/2006 12:05:24 PM	127.648
	4/26/2006 12:05:00 PM	127.652		4/26/2006 12:05:25 PM	127.647
	4/26/2006 12:05:01 PM	127.658		4/26/2006 12:05:27 PM	127.638
	4/26/2006 12:05:01 PM	127.648		4/26/2006 12:05:28 PM	127.633
	4/26/2006 12:05:01 PM	127.655		4/26/2006 12:05:30 PM	127.636
	4/26/2006 12:05:01 PM	127.654		4/26/2006 12:05:32 PM	127.625
	4/26/2006 12:05:02 PM	127.653		4/26/2006 12:05:34 PM	127.619
	4/26/2006 12:05:02 PM	127.652		4/26/2006 12:05:36 PM	127.614
	4/26/2006 12:05:02 PM	127.651		4/26/2006 12:05:38 PM	127.604
	4/26/2006 12:05:02 PM	127.651		4/26/2006 12:05:40 PM	127.6
	4/26/2006 12:05:03 PM	127.651		4/26/2006 12:05:42 PM	127.59
	4/26/2006 12:05:03 PM	127.651		4/26/2006 12:05:45 PM	127.583
	4/26/2006 12:05:03 PM	127.656		4/26/2006 12:05:48 PM	127.573
	4/26/2006 12:05:03 PM	127.657		4/26/2006 12:05:50 PM	127.559
	4/26/2006 12:05:04 PM	127.656		4/26/2006 12:05:53 PM	127.545
	4/26/2006 12:05:04 PM	127.648		4/26/2006 12:05:57 PM	127.525
	4/26/2006 12:05:04 PM	127.655		4/26/2006 12:06:00 PM	127.501
	4/26/2006 12:05:04 PM	127.654		4/26/2006 12:06:04 PM	127.478
	4/26/2006 12:05:05 PM	127.646		4/26/2006 12:06:07 PM	127.454
	4/26/2006 12:05:05 PM	127.654		4/26/2006 12:06:11 PM	127.429
	4/26/2006 12:05:05 PM	127.647		4/26/2006 12:06:16 PM	127.4
	4/26/2006 12:05:05 PM	127.654		4/26/2006 12:06:20 PM	127.385
	4/26/2006 12:05:06 PM	127.646		4/26/2006 12:06:25 PM	127.359
	4/26/2006 12:05:06 PM	127.652		4/26/2006 12:06:30 PM	127.344
	4/26/2006 12:05:06 PM	127.653		4/26/2006 12:06:35 PM	127.331
	4/26/2006 12:05:07 PM	127.652		4/26/2006 12:06:41 PM	127.314
	4/26/2006 12:05:07 PM	127.647		4/26/2006 12:06:47 PM	127.298
	4/26/2006 12:05:08 PM	127.654		4/26/2006 12:06:53 PM	127.285
	4/26/2006 12:05:08 PM	127.654		4/26/2006 12:06:59 PM	127.274
	4/26/2006 12:05:08 PM	127.649		4/26/2006 12:07:07 PM	127.258
	4/26/2006 12:05:09 PM	127.654		4/26/2006 12:07:14 PM	127.252
	4/26/2006 12:05:09 PM	127.648		4/26/2006 12:07:22 PM	127.244
	4/26/2006 12:05:10 PM	127.65		4/26/2006 12:07:31 PM	127.235
	4/26/2006 12:05:11 PM	127.648		4/26/2006 12:07:40 PM	127.227
	4/26/2006 12:05:11 PM	127.649		4/26/2006 12:07:49 PM	127.219
	4/26/2006 12:05:12 PM	127.656		4/26/2006 12:07:59 PM	127.213
	4/26/2006 12:05:13 PM	127.651		4/26/2006 12:08:10 PM	127.204
	4/26/2006 12:05:13 PM	127.65		4/26/2006 12:08:21 PM	127.196
	4/26/2006 12:05:14 PM	127.651		4/26/2006 12:08:33 PM	127.188
	4/26/2006 12:05:15 PM	127.651		4/26/2006 12:08:46 PM	127.182
	4/26/2006 12:05:16 PM	127.645		4/26/2006 12:08:59 PM	127.177
	4/26/2006 12:05:17 PM	127.652		4/26/2006 12:09:13 PM	127.17
	4/26/2006 12:05:18 PM	127.644		4/26/2006 12:09:28 PM	127.164
	4/26/2006 12:05:19 PM	127.651		4/26/2006 12:09:44 PM	127.157
	4/26/2006 12:05:20 PM	127.652		4/26/2006 12:10:01 PM	127.15
	4/26/2006 12:05:21 PM	127.642		4/26/2006 12:10:19 PM	127.143

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-9			**SEA-9**		
TROLL			TROLL		
	4/26/2006 12:10:37 PM	127.137		4/26/2006 1:29:06 PM	126.512
	4/26/2006 12:10:58 PM	127.128		4/26/2006 1:34:06 PM	126.488
	4/26/2006 12:11:19 PM	127.121		4/26/2006 1:39:24 PM	126.459
	4/26/2006 12:11:41 PM	127.106		4/26/2006 1:45:00 PM	126.44
	4/26/2006 12:12:05 PM	127.109		4/26/2006 1:51:00 PM	126.405
	4/26/2006 12:12:30 PM	127.094		4/26/2006 1:57:00 PM	126.386
	4/26/2006 12:12:56 PM	127.092		4/26/2006 2:04:00 PM	126.356
	4/26/2006 12:13:25 PM	127.092		4/26/2006 2:11:00 PM	126.329
	4/26/2006 12:13:55 PM	127.079		4/26/2006 2:18:00 PM	126.298
	4/26/2006 12:14:26 PM	127.072		4/26/2006 2:26:00 PM	126.273
	4/26/2006 12:15:00 PM	127.062		4/26/2006 2:35:00 PM	126.233
	4/26/2006 12:15:36 PM	127.052		4/26/2006 2:43:00 PM	126.2
	4/26/2006 12:16:12 PM	127.046		4/26/2006 2:53:00 PM	126.168
	4/26/2006 12:16:54 PM	127.036		4/26/2006 3:03:00 PM	126.13
	4/26/2006 12:17:36 PM	127.03		4/26/2006 3:13:00 PM	126.095
	4/26/2006 12:18:18 PM	127.016		4/26/2006 3:24:00 PM	126.05
	4/26/2006 12:19:06 PM	127.006		4/26/2006 3:36:00 PM	126.014
	4/26/2006 12:20:00 PM	126.998		4/26/2006 3:49:00 PM	125.973
	4/26/2006 12:20:48 PM	126.985		4/26/2006 4:02:00 PM	125.924
	4/26/2006 12:21:48 PM	126.974		4/26/2006 4:16:00 PM	125.891
	4/26/2006 12:22:48 PM	126.963		4/26/2006 4:31:00 PM	125.84
	4/26/2006 12:23:48 PM	126.945		4/26/2006 4:47:00 PM	125.79
	4/26/2006 12:24:54 PM	126.941		4/26/2006 5:03:00 PM	125.744
	4/26/2006 12:26:06 PM	126.929		4/26/2006 5:21:00 PM	125.691
	4/26/2006 12:27:24 PM	126.913		4/26/2006 5:40:00 PM	125.638
	4/26/2006 12:28:42 PM	126.908		4/26/2006 6:00:00 PM	125.583
	4/26/2006 12:30:06 PM	126.888		4/26/2006 6:21:00 PM	125.521
	4/26/2006 12:31:36 PM	126.874		4/26/2006 6:43:00 PM	125.466
	4/26/2006 12:33:12 PM	126.866		4/26/2006 7:07:00 PM	125.408
	4/26/2006 12:34:48 PM	126.854		4/26/2006 7:32:00 PM	125.345
	4/26/2006 12:36:36 PM	126.83		4/26/2006 7:58:00 PM	125.285
	4/26/2006 12:38:30 PM	126.815		4/26/2006 8:26:00 PM	125.218
	4/26/2006 12:40:30 PM	126.79		4/26/2006 8:56:00 PM	125.15
	4/26/2006 12:42:36 PM	126.782		4/26/2006 9:27:00 PM	125.075
	4/26/2006 12:44:48 PM	126.763		4/26/2006 10:01:00 PM	125.008
	4/26/2006 12:47:12 PM	126.745		4/26/2006 10:36:00 PM	124.928
	4/26/2006 12:49:42 PM	126.729		4/26/2006 11:13:00 PM	124.853
	4/26/2006 12:52:18 PM	126.711		4/26/2006 11:53:00 PM	124.774
	4/26/2006 12:55:06 PM	126.692		4/27/2006 12:35:00 AM	124.695
	4/26/2006 12:58:06 PM	126.672		4/27/2006 1:19:00 AM	124.611
	4/26/2006 1:01:12 PM	126.653		4/27/2006 2:06:00 AM	124.525
	4/26/2006 1:04:36 PM	126.633		4/27/2006 2:56:00 AM	124.44
	4/26/2006 1:08:06 PM	126.622		4/27/2006 3:49:00 AM	124.348
	4/26/2006 1:11:48 PM	126.595		4/27/2006 4:45:00 AM	124.255
	4/26/2006 1:15:48 PM	126.575		4/27/2006 5:45:00 AM	124.152
	4/26/2006 1:20:00 PM	126.555		4/27/2006 6:45:00 AM	124.059
	4/26/2006 1:24:24 PM	126.534		4/27/2006 7:55:00 AM	123.954

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-9			**SEA-9**		
TROLL			TROLL		
	4/27/2006 9:05:00 AM	123.851		5/1/2006 3:15:25 AM	119.147
	4/27/2006 10:15:00 AM	123.75		5/1/2006 5:15:25 AM	119.083
	4/27/2006 11:35:00 AM	123.641		5/1/2006 7:15:25 AM	119.02
	4/27/2006 1:05:00 PM	123.575		5/1/2006 9:15:25 AM	118.953
	4/27/2006 2:25:00 PM	123.427		5/1/2006 11:15:25 AM	118.895
	4/27/2006 4:05:00 PM	123.293		5/1/2006 1:15:25 PM	118.835
	4/27/2006 5:45:00 PM	123.161		5/1/2006 3:15:25 PM	118.861
	4/27/2006 7:25:00 PM	123.032		5/1/2006 5:15:25 PM	118.849
	4/27/2006 9:15:00 PM	122.89		5/1/2006 7:15:25 PM	118.825
	4/27/2006 11:15:00 PM	122.745		5/1/2006 9:15:25 PM	118.799
	4/28/2006 1:15:00 AM	122.606		5/1/2006 11:15:25 PM	118.77
	4/28/2006 3:15:00 AM	122.47		5/2/2006 1:15:25 AM	118.743
	4/28/2006 5:15:00 AM	122.335		5/2/2006 3:15:25 AM	118.718
	4/28/2006 7:15:00 AM	122.21		5/2/2006 5:15:25 AM	118.687
	4/28/2006 9:15:00 AM	122.087		5/2/2006 7:15:25 AM	118.655
	4/28/2006 11:15:00 AM	121.963		5/2/2006 9:15:25 AM	118.621
	4/28/2006 1:15:25 PM	121.848		5/2/2006 11:15:25 AM	118.589
	4/28/2006 3:15:25 PM	121.737		5/2/2006 1:15:25 PM	118.555
	4/28/2006 5:15:25 PM	121.635		5/2/2006 3:15:25 PM	118.52
	4/28/2006 7:15:25 PM	121.514		5/2/2006 5:15:25 PM	118.483
	4/28/2006 9:15:25 PM	121.401		5/2/2006 7:15:25 PM	118.511
	4/28/2006 11:15:25 PM	121.289		5/2/2006 9:15:25 PM	118.513
	4/29/2006 1:15:25 AM	121.189		5/2/2006 11:15:25 PM	118.502
	4/29/2006 3:15:25 AM	121.082		5/3/2006 1:15:25 AM	118.486
	4/29/2006 5:15:25 AM	120.981		5/3/2006 3:15:25 AM	118.469
	4/29/2006 7:15:25 AM	120.883		5/3/2006 5:15:25 AM	118.445
	4/29/2006 9:15:25 AM	120.781		5/3/2006 7:15:25 AM	118.431
	4/29/2006 11:15:25 AM	120.686		5/3/2006 9:15:25 AM	118.405
	4/29/2006 1:15:25 PM	120.593		5/3/2006 11:15:25 AM	118.385
	4/29/2006 3:15:25 PM	120.503		5/3/2006 1:15:25 PM	118.364
	4/29/2006 5:15:25 PM	120.413		5/3/2006 3:15:25 PM	118.345
	4/29/2006 7:15:25 PM	120.324		5/3/2006 5:15:25 PM	118.324
	4/29/2006 9:15:25 PM	120.238		5/3/2006 7:15:25 PM	118.301
	4/29/2006 11:15:25 PM	120.148		5/3/2006 9:15:25 PM	118.276
	4/30/2006 1:15:25 AM	120.062		5/3/2006 11:15:25 PM	118.253
	4/30/2006 3:15:25 AM	119.979		5/4/2006 1:15:25 AM	118.232
	4/30/2006 5:15:25 AM	119.893		5/4/2006 3:15:25 AM	118.207
	4/30/2006 7:15:25 AM	119.809		5/4/2006 5:15:25 AM	118.178
	4/30/2006 9:15:25 AM	119.735		5/4/2006 7:15:25 AM	118.151
	4/30/2006 11:15:25 AM	119.659		5/4/2006 9:15:25 AM	118.13
	4/30/2006 1:15:25 PM	119.597		5/4/2006 11:15:25 AM	118.101
	4/30/2006 3:15:25 PM	119.541		5/4/2006 1:15:25 PM	118.076
	4/30/2006 5:15:25 PM	119.471		5/4/2006 3:15:25 PM	118.053
	4/30/2006 7:15:25 PM	119.406		5/4/2006 5:15:25 PM	118.025
	4/30/2006 9:15:25 PM	119.345		5/4/2006 7:15:25 PM	118
	4/30/2006 11:15:25 PM	119.281		5/4/2006 9:15:25 PM	117.972
	5/1/2006 1:15:25 AM	119.211		5/4/2006 11:15:25 PM	117.945

Well	Date and Time	GWE (ft)
SEA-9		
TROLL		
	5/5/2006 1:15:25 AM	117.92
	5/5/2006 3:15:25 AM	117.891
	5/5/2006 5:15:25 AM	117.86
	5/5/2006 7:15:25 AM	117.833
	5/5/2006 9:15:25 AM	117.81
	5/5/2006 11:15:25 AM	117.78
	5/5/2006 1:15:25 PM	117.756
	5/5/2006 3:15:25 PM	117.73
	5/5/2006 5:15:25 PM	117.703
	5/5/2006 7:15:25 PM	117.675
	5/5/2006 9:15:25 PM	117.648
	5/5/2006 11:15:25 PM	117.619
	5/6/2006 1:15:25 AM	117.593
	5/6/2006 3:15:25 AM	117.564
	5/6/2006 5:15:25 AM	117.536
	5/6/2006 7:15:25 AM	117.507
	5/6/2006 9:15:25 AM	117.482
	5/6/2006 11:15:25 AM	117.454
	5/6/2006 1:15:25 PM	117.42
	5/6/2006 3:15:25 PM	117.394
	5/6/2006 5:15:25 PM	117.37
	5/6/2006 7:15:25 PM	117.341
	5/6/2006 9:15:25 PM	117.314
	5/6/2006 11:15:25 PM	117.284
	5/7/2006 1:15:25 AM	117.257
	5/7/2006 3:15:25 AM	117.227
	5/7/2006 5:15:25 AM	117.199
	5/7/2006 7:15:25 AM	117.172
	5/7/2006 9:15:25 AM	117.144
	5/7/2006 11:15:25 AM	117.117
	5/7/2006 1:15:25 PM	117.087
	5/7/2006 3:15:25 PM	117.065
	5/7/2006 5:15:25 PM	117.039
	5/7/2006 7:15:25 PM	117.006
	5/7/2006 9:15:25 PM	116.983
	5/7/2006 11:15:25 PM	116.955
	5/8/2006 1:15:25 AM	116.93
	5/8/2006 3:15:25 AM	116.901
	5/8/2006 5:15:25 AM	116.876
	5/8/2006 7:15:25 AM	116.849
	5/8/2006 9:15:25 AM	116.823
	5/8/2006 11:15:25 AM	116.796
TROLL-rec		
	5/8/2006 1:00:00 PM	116.775
	5/8/2006 1:00:00 PM	116.775
	5/8/2006 1:00:00 PM	116.773
	5/8/2006 1:00:01 PM	116.773

Well	Date and Time	GWE (ft)
SEA-9		
TROLL-rec		
	5/8/2006 1:00:01 PM	116.775
	5/8/2006 1:00:01 PM	116.774
	5/8/2006 1:00:01 PM	116.773
	5/8/2006 1:00:02 PM	116.776
	5/8/2006 1:00:02 PM	116.777
	5/8/2006 1:00:02 PM	116.774
	5/8/2006 1:00:02 PM	116.772
	5/8/2006 1:00:03 PM	116.776
	5/8/2006 1:00:03 PM	116.774
	5/8/2006 1:00:03 PM	116.776
	5/8/2006 1:00:03 PM	116.775
	5/8/2006 1:00:04 PM	116.769
	5/8/2006 1:00:04 PM	116.769
	5/8/2006 1:00:04 PM	116.77
	5/8/2006 1:00:04 PM	116.775
	5/8/2006 1:00:05 PM	116.775
	5/8/2006 1:00:05 PM	116.773
	5/8/2006 1:00:05 PM	116.769
	5/8/2006 1:00:05 PM	116.772
	5/8/2006 1:00:06 PM	116.773
	5/8/2006 1:00:06 PM	116.772
	5/8/2006 1:00:06 PM	116.775
	5/8/2006 1:00:07 PM	116.773
	5/8/2006 1:00:07 PM	116.774
	5/8/2006 1:00:08 PM	116.767
	5/8/2006 1:00:08 PM	116.775
	5/8/2006 1:00:08 PM	116.775
	5/8/2006 1:00:09 PM	116.775
	5/8/2006 1:00:09 PM	116.773
	5/8/2006 1:00:10 PM	116.77
	5/8/2006 1:00:11 PM	116.771
	5/8/2006 1:00:11 PM	116.773
	5/8/2006 1:00:12 PM	116.774
	5/8/2006 1:00:13 PM	116.778
	5/8/2006 1:00:13 PM	116.774
	5/8/2006 1:00:14 PM	116.775
	5/8/2006 1:00:15 PM	116.775
	5/8/2006 1:00:16 PM	116.779
	5/8/2006 1:00:17 PM	116.776
	5/8/2006 1:00:18 PM	116.776
	5/8/2006 1:00:19 PM	116.777
	5/8/2006 1:00:20 PM	116.776
	5/8/2006 1:00:21 PM	116.776
	5/8/2006 1:00:23 PM	116.772
	5/8/2006 1:00:24 PM	116.779
	5/8/2006 1:00:25 PM	116.773
	5/8/2006 1:00:27 PM	116.778

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-9			**SEA-9**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:28 PM	116.773		5/8/2006 1:07:05 PM	116.775
	5/8/2006 1:00:30 PM	116.776		5/8/2006 1:07:30 PM	116.776
	5/8/2006 1:00:32 PM	116.779		5/8/2006 1:07:56 PM	116.775
	5/8/2006 1:00:34 PM	116.772		5/8/2006 1:08:25 PM	116.775
	5/8/2006 1:00:36 PM	116.774		5/8/2006 1:08:55 PM	116.775
	5/8/2006 1:00:38 PM	116.773		5/8/2006 1:09:26 PM	116.775
	5/8/2006 1:00:40 PM	116.777		5/8/2006 1:10:00 PM	116.775
	5/8/2006 1:00:42 PM	116.774		5/8/2006 1:10:36 PM	116.773
	5/8/2006 1:00:45 PM	116.779		5/8/2006 1:11:12 PM	116.775
	5/8/2006 1:00:48 PM	116.774		5/8/2006 1:11:54 PM	116.768
	5/8/2006 1:00:50 PM	116.774		5/8/2006 1:12:36 PM	116.774
	5/8/2006 1:00:53 PM	116.774		5/8/2006 1:13:18 PM	116.775
	5/8/2006 1:00:57 PM	116.775		5/8/2006 1:14:06 PM	116.773
	5/8/2006 1:01:00 PM	116.775		5/8/2006 1:15:00 PM	116.772
	5/8/2006 1:01:04 PM	116.776		5/8/2006 1:15:48 PM	116.773
	5/8/2006 1:01:07 PM	116.775		5/8/2006 1:16:48 PM	116.773
	5/8/2006 1:01:11 PM	116.775		5/8/2006 1:17:48 PM	116.776
	5/8/2006 1:01:16 PM	116.775		5/8/2006 1:18:48 PM	116.772
	5/8/2006 1:01:20 PM	116.776		5/8/2006 1:19:54 PM	116.767
	5/8/2006 1:01:25 PM	116.779		5/8/2006 1:21:06 PM	116.768
	5/8/2006 1:01:30 PM	116.776		5/8/2006 1:22:24 PM	116.774
	5/8/2006 1:01:35 PM	116.78		5/8/2006 1:23:42 PM	116.985
	5/8/2006 1:01:41 PM	116.774		5/8/2006 1:25:06 PM	117.021
	5/8/2006 1:01:47 PM	116.772		5/8/2006 1:26:36 PM	117.04
	5/8/2006 1:01:53 PM	116.774		5/8/2006 1:28:12 PM	117.052
	5/8/2006 1:01:59 PM	116.775		5/8/2006 1:29:48 PM	117.069
	5/8/2006 1:02:07 PM	116.776		5/8/2006 1:31:36 PM	117.084
	5/8/2006 1:02:14 PM	116.775		5/8/2006 1:33:30 PM	117.096
	5/8/2006 1:02:22 PM	116.774		5/8/2006 1:35:30 PM	117.109
	5/8/2006 1:02:31 PM	116.775		5/8/2006 1:37:36 PM	117.121
	5/8/2006 1:02:40 PM	116.775		5/8/2006 1:39:48 PM	117.136
	5/8/2006 1:02:49 PM	116.776		5/8/2006 1:42:12 PM	117.152
	5/8/2006 1:02:59 PM	116.773		5/8/2006 1:44:42 PM	117.161
	5/8/2006 1:03:10 PM	116.777		5/8/2006 1:47:18 PM	117.169
	5/8/2006 1:03:21 PM	116.776		5/8/2006 1:50:06 PM	117.188
	5/8/2006 1:03:33 PM	116.777		5/8/2006 1:53:06 PM	117.202
	5/8/2006 1:03:46 PM	116.777		5/8/2006 1:56:12 PM	117.212
	5/8/2006 1:03:59 PM	116.778		5/8/2006 1:59:36 PM	117.23
	5/8/2006 1:04:13 PM	116.773		5/8/2006 2:03:06 PM	117.244
	5/8/2006 1:04:28 PM	116.773		5/8/2006 2:06:48 PM	117.259
	5/8/2006 1:04:44 PM	116.774		5/8/2006 2:10:48 PM	117.276
	5/8/2006 1:05:01 PM	116.776		5/8/2006 2:15:00 PM	117.292
	5/8/2006 1:05:19 PM	116.77		5/8/2006 2:19:24 PM	117.309
	5/8/2006 1:05:37 PM	116.776		5/8/2006 2:24:06 PM	117.323
	5/8/2006 1:05:58 PM	116.77		5/8/2006 2:29:06 PM	117.345
	5/8/2006 1:06:19 PM	116.77		5/8/2006 2:34:24 PM	117.364
	5/8/2006 1:06:41 PM	116.774		5/8/2006 2:40:00 PM	117.384

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
SEA-9			**SEA-9**		
TROLL-rec			TROLL-rec		
	5/8/2006 2:46:00 PM	117.4		5/9/2006 3:20:00 PM	119.826
	5/8/2006 2:52:00 PM	117.425		5/9/2006 5:00:00 PM	119.921
	5/8/2006 2:59:00 PM	117.448		5/9/2006 6:40:00 PM	120.013
	5/8/2006 3:06:00 PM	117.466		5/9/2006 8:20:00 PM	120.103
	5/8/2006 3:13:00 PM	117.493		5/9/2006 10:10:00 PM	120.197
	5/8/2006 3:21:00 PM	117.515		5/10/2006 12:10:00 AM	120.297
	5/8/2006 3:30:00 PM	117.543		5/10/2006 2:10:00 AM	120.391
	5/8/2006 3:38:00 PM	117.568		5/10/2006 4:10:00 AM	120.482
	5/8/2006 3:48:00 PM	117.596		5/10/2006 6:10:00 AM	120.575
	5/8/2006 3:58:00 PM	117.626		5/10/2006 8:10:00 AM	120.654
	5/8/2006 4:08:00 PM	117.652		5/10/2006 10:10:00 AM	120.736
	5/8/2006 4:19:00 PM	117.685		5/10/2006 12:10:00 PM	120.82
	5/8/2006 4:31:00 PM	117.715		5/10/2006 2:10:00 PM	120.893
	5/8/2006 4:44:00 PM	117.751		5/10/2006 4:10:00 PM	120.968
	5/8/2006 4:57:00 PM	117.787		5/10/2006 6:10:00 PM	121.043
	5/8/2006 5:11:00 PM	117.822		5/10/2006 8:10:00 PM	121.113
	5/8/2006 5:26:00 PM	117.858		5/10/2006 10:10:00 PM	121.184
	5/8/2006 5:42:00 PM	117.899		5/11/2006 12:10:00 AM	121.25
	5/8/2006 5:58:00 PM	117.937		5/11/2006 2:10:00 AM	121.317
	5/8/2006 6:16:00 PM	117.979		5/11/2006 4:10:00 AM	121.381
	5/8/2006 6:35:00 PM	118.023		5/11/2006 6:10:00 AM	121.443
	5/8/2006 6:55:00 PM	118.068		5/11/2006 8:10:00 AM	121.507
	5/8/2006 7:16:00 PM	118.116		5/11/2006 10:10:00 AM	121.564
	5/8/2006 7:38:00 PM	118.162		5/11/2006 12:10:00 PM	121.625
	5/8/2006 8:02:00 PM	118.214		5/11/2006 2:10:00 PM	121.686
	5/8/2006 8:27:00 PM	118.264		5/11/2006 4:10:00 PM	121.734
	5/8/2006 8:53:00 PM	118.317		5/11/2006 6:10:00 PM	121.79
	5/8/2006 9:21:00 PM	118.372		5/11/2006 8:10:00 PM	121.844
	5/8/2006 9:51:00 PM	118.429		5/11/2006 10:10:00 PM	121.895
	5/8/2006 10:22:00 PM	118.486		5/12/2006 12:10:00 AM	121.952
	5/8/2006 10:56:00 PM	118.547		5/12/2006 2:10:00 AM	122.006
	5/8/2006 11:31:00 PM	118.609		5/12/2006 4:10:00 AM	122.055
	5/9/2006 12:08:00 AM	118.671		5/12/2006 6:10:00 AM	122.102
	5/9/2006 12:48:00 AM	118.738		5/12/2006 8:10:00 AM	122.143
	5/9/2006 1:30:00 AM	118.807		5/12/2006 10:10:00 AM	122.194
	5/9/2006 2:14:00 AM	118.874		5/12/2006 12:10:00 PM	122.24
	5/9/2006 3:01:00 AM	118.943		5/12/2006 2:10:00 PM	122.288
	5/9/2006 3:51:00 AM	119.016		5/12/2006 4:10:00 PM	122.331
	5/9/2006 4:44:00 AM	119.089		5/12/2006 6:10:00 PM	122.372
	5/9/2006 5:40:00 AM	119.163		5/12/2006 8:10:00 PM	122.413
	5/9/2006 6:40:00 AM	119.241		5/12/2006 10:10:00 PM	122.449
	5/9/2006 7:40:00 AM	119.317		5/13/2006 12:10:00 AM	122.496
	5/9/2006 8:50:00 AM	119.4		5/13/2006 2:10:00 AM	122.539
	5/9/2006 10:00:00 AM	119.483		5/13/2006 4:10:00 AM	122.581
	5/9/2006 11:10:00 AM	119.562		5/13/2006 6:10:00 AM	122.616
	5/9/2006 12:30:00 PM	119.653		5/13/2006 8:10:00 AM	122.654
	5/9/2006 2:00:00 PM	119.742		5/13/2006 10:10:00 AM	122.689

Well	Date and Time	GWE (ft)
SEA-9		
TROLL-rec		
	5/13/2006 12:10:00 PM	122.723
	5/13/2006 2:10:00 PM	122.765
	5/13/2006 4:10:00 PM	122.803
	5/13/2006 6:10:00 PM	122.843
	5/13/2006 8:10:00 PM	122.886
	5/13/2006 10:10:00 PM	122.931
	5/14/2006 12:10:00 AM	122.974
	5/14/2006 2:10:00 AM	123.019
	5/14/2006 4:10:00 AM	123.062
	5/14/2006 6:10:00 AM	123.099
	5/14/2006 8:10:00 AM	123.139
	5/14/2006 10:10:00 AM	123.178
	5/14/2006 12:10:00 PM	123.223
	5/14/2006 2:10:00 PM	123.264
	5/14/2006 4:10:00 PM	123.308
	5/14/2006 6:10:00 PM	123.354
	5/14/2006 8:10:00 PM	123.398
	5/14/2006 10:10:00 PM	123.443
	5/15/2006 12:10:00 AM	123.488
	5/15/2006 2:10:00 AM	123.529
	5/15/2006 4:10:00 AM	123.572
	5/15/2006 6:10:00 AM	123.611
	5/15/2006 8:10:00 AM	123.651
	5/15/2006 10:10:00 AM	123.692
	5/15/2006 12:10:00 PM	123.733
	5/15/2006 2:10:00 PM	123.772
	5/15/2006 4:10:00 PM	123.81
	5/15/2006 6:10:00 PM	123.85
	5/15/2006 8:10:00 PM	123.882
	5/15/2006 10:10:00 PM	123.917
	5/16/2006 12:10:00 AM	123.958
	5/16/2006 2:10:00 AM	123.995
	5/16/2006 4:10:00 AM	124.031
	5/16/2006 6:10:00 AM	124.069
	5/16/2006 8:10:00 AM	124.105
	5/16/2006 10:10:00 AM	124.136
	5/16/2006 12:10:00 PM	124.171
	5/16/2006 2:10:00 PM	124.206
	5/16/2006 4:10:00 PM	124.241
	5/16/2006 6:10:00 PM	124.27
	5/16/2006 8:10:00 PM	124.294
	5/16/2006 10:10:00 PM	124.319
	5/17/2006 12:10:00 AM	124.353
	5/17/2006 2:10:00 AM	124.382
	5/17/2006 4:10:00 AM	124.413
	5/17/2006 6:10:00 AM	124.44
	5/17/2006 8:10:00 AM	124.47

Well	Date and Time	GWE (ft)
TW-1		
Manual		
	4/26/2006 11:00:00 AM	127.52
	4/27/2006 5:40:00 PM	109.42
	4/28/2006 10:38:00 AM	108.17
	4/28/2006 2:35:00 PM	107.93
	4/29/2006 1:25:00 PM	106.87
	4/30/2006 7:08:00 AM	105.98
	4/30/2006 4:10:00 PM	105.63
	5/1/2006 7:51:00 AM	105.05
	5/1/2006 12:37:00 PM	104.86
	5/1/2006 3:32:00 PM	106.41
	5/1/2006 8:03:00 PM	106.34
	5/2/2006 8:00:00 AM	106.17
	5/2/2006 12:10:00 PM	106.09
	5/2/2006 5:52:00 PM	106
	5/2/2006 7:34:00 PM	107.97
	5/2/2006 9:20:00 PM	108.01
	5/3/2006 1:19:00 PM	107.82
	5/3/2006 6:55:00 PM	107.7
	5/4/2006 8:45:00 AM	107.62
	5/4/2006 1:57:00 PM	107.53
	5/4/2006 6:24:00 PM	107.42
	5/5/2006 3:18:00 PM	106.83
	5/5/2006 6:40:00 PM	107.05
	5/6/2006 2:00:00 PM	106.78
	5/6/2006 6:40:00 PM	106.71
	5/7/2006 6:12:00 PM	106.38
	5/9/2006 10:48:00 AM	119.78
TROLL		
	4/26/2006 12:05:00 PM	127.52
	4/26/2006 12:05:00 PM	127.52
	4/26/2006 12:05:00 PM	127.518
	4/26/2006 12:05:01 PM	127.517
	4/26/2006 12:05:01 PM	127.516
	4/26/2006 12:05:01 PM	127.522
	4/26/2006 12:05:01 PM	127.52
	4/26/2006 12:05:02 PM	127.518
	4/26/2006 12:05:02 PM	127.518
	4/26/2006 12:05:02 PM	127.517
	4/26/2006 12:05:02 PM	127.517
	4/26/2006 12:05:03 PM	127.516
	4/26/2006 12:05:03 PM	127.518
	4/26/2006 12:05:03 PM	127.522
	4/26/2006 12:05:03 PM	127.515
	4/26/2006 12:05:04 PM	127.515
	4/26/2006 12:05:04 PM	127.514
	4/26/2006 12:05:04 PM	127.514
	4/26/2006 12:05:04 PM	127.518

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	4/26/2006 12:05:05 PM	127.517		4/26/2006 12:06:07 PM	116.633
	4/26/2006 12:05:05 PM	127.513		4/26/2006 12:06:11 PM	116.35
	4/26/2006 12:05:05 PM	127.515		4/26/2006 12:06:16 PM	116.035
	4/26/2006 12:05:05 PM	127.514		4/26/2006 12:06:20 PM	115.96
	4/26/2006 12:05:06 PM	127.519		4/26/2006 12:06:25 PM	115.921
	4/26/2006 12:05:06 PM	127.517		4/26/2006 12:06:30 PM	115.75
	4/26/2006 12:05:06 PM	127.519		4/26/2006 12:06:35 PM	115.6
	4/26/2006 12:05:07 PM	127.519		4/26/2006 12:06:41 PM	115.603
	4/26/2006 12:05:07 PM	127.518		4/26/2006 12:06:47 PM	115.549
	4/26/2006 12:05:08 PM	127.518		4/26/2006 12:06:53 PM	115.562
	4/26/2006 12:05:08 PM	127.514		4/26/2006 12:06:59 PM	115.337
	4/26/2006 12:05:08 PM	127.515		4/26/2006 12:07:07 PM	115.512
	4/26/2006 12:05:09 PM	127.515		4/26/2006 12:07:14 PM	115.592
	4/26/2006 12:05:09 PM	127.517		4/26/2006 12:07:22 PM	115.43
	4/26/2006 12:05:10 PM	127.522		4/26/2006 12:07:31 PM	115.402
	4/26/2006 12:05:11 PM	127.516		4/26/2006 12:07:40 PM	115.443
	4/26/2006 12:05:11 PM	127.517		4/26/2006 12:07:49 PM	115.358
	4/26/2006 12:05:12 PM	127.518		4/26/2006 12:07:59 PM	115.467
	4/26/2006 12:05:13 PM	127.519		4/26/2006 12:08:10 PM	115.358
	4/26/2006 12:05:13 PM	127.51		4/26/2006 12:08:21 PM	115.274
	4/26/2006 12:05:14 PM	127.514		4/26/2006 12:08:33 PM	115.389
	4/26/2006 12:05:15 PM	127.518		4/26/2006 12:08:46 PM	115.295
	4/26/2006 12:05:16 PM	127.52		4/26/2006 12:08:59 PM	115.26
	4/26/2006 12:05:17 PM	127.511		4/26/2006 12:09:13 PM	115.334
	4/26/2006 12:05:18 PM	127.514		4/26/2006 12:09:28 PM	115.217
	4/26/2006 12:05:19 PM	127.512		4/26/2006 12:09:44 PM	115.241
	4/26/2006 12:05:20 PM	127.512		4/26/2006 12:10:01 PM	115.279
	4/26/2006 12:05:21 PM	127.508		4/26/2006 12:10:19 PM	115.193
	4/26/2006 12:05:23 PM	127.502		4/26/2006 12:10:37 PM	115.299
	4/26/2006 12:05:24 PM	127.506		4/26/2006 12:10:58 PM	115.212
	4/26/2006 12:05:25 PM	127.501		4/26/2006 12:11:19 PM	115.22
	4/26/2006 12:05:27 PM	127.497		4/26/2006 12:11:41 PM	115.264
	4/26/2006 12:05:28 PM	127.489		4/26/2006 12:12:05 PM	115.197
	4/26/2006 12:05:30 PM	127.488		4/26/2006 12:12:30 PM	115.137
	4/26/2006 12:05:32 PM	127.48		4/26/2006 12:12:56 PM	115.12
	4/26/2006 12:05:34 PM	127.473		4/26/2006 12:13:25 PM	115.13
	4/26/2006 12:05:36 PM	127.467		4/26/2006 12:13:55 PM	115.103
	4/26/2006 12:05:38 PM	127.462		4/26/2006 12:14:26 PM	115.118
	4/26/2006 12:05:40 PM	127.453		4/26/2006 12:15:00 PM	115.089
	4/26/2006 12:05:42 PM	127.445		4/26/2006 12:15:36 PM	115.156
	4/26/2006 12:05:45 PM	127.442		4/26/2006 12:16:12 PM	115.05
	4/26/2006 12:05:48 PM	125.39		4/26/2006 12:16:54 PM	115.069
	4/26/2006 12:05:50 PM	122.297		4/26/2006 12:17:36 PM	115.001
	4/26/2006 12:05:53 PM	120.526		4/26/2006 12:18:18 PM	114.943
	4/26/2006 12:05:57 PM	119.041		4/26/2006 12:19:06 PM	115.031
	4/26/2006 12:06:00 PM	117.945		4/26/2006 12:20:00 PM	114.968
	4/26/2006 12:06:04 PM	117.162		4/26/2006 12:20:48 PM	114.921

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	4/26/2006 12:21:48 PM	114.972		4/26/2006 4:16:00 PM	113.2
	4/26/2006 12:22:48 PM	114.917		4/26/2006 4:25:21 PM	113.13
	4/26/2006 12:23:48 PM	114.995		4/26/2006 4:25:22 PM	113.156
	4/26/2006 12:24:54 PM	114.761		4/26/2006 4:25:22 PM	113.181
	4/26/2006 12:26:06 PM	114.809		4/26/2006 4:25:22 PM	113.147
	4/26/2006 12:27:24 PM	114.712		4/26/2006 4:25:22 PM	113.102
	4/26/2006 12:28:42 PM	114.806		4/26/2006 4:25:23 PM	113.11
	4/26/2006 12:30:06 PM	114.818		4/26/2006 4:25:23 PM	113.236
	4/26/2006 12:31:36 PM	114.703		4/26/2006 4:25:23 PM	113.259
	4/26/2006 12:33:12 PM	114.759		4/26/2006 4:25:23 PM	113.148
	4/26/2006 12:34:48 PM	114.755		4/26/2006 4:25:24 PM	113.194
	4/26/2006 12:36:36 PM	114.63		4/26/2006 4:25:24 PM	113.222
	4/26/2006 12:38:30 PM	114.623		4/26/2006 4:25:24 PM	113.035
	4/26/2006 12:40:30 PM	114.583		4/26/2006 4:25:24 PM	113.209
	4/26/2006 12:42:36 PM	114.608		4/26/2006 4:25:25 PM	113.121
	4/26/2006 12:44:48 PM	114.553		4/26/2006 4:25:25 PM	113.164
	4/26/2006 12:47:12 PM	114.515		4/26/2006 4:25:25 PM	113.204
	4/26/2006 12:49:42 PM	114.489		4/26/2006 4:25:25 PM	113.115
	4/26/2006 12:52:18 PM	114.506		4/26/2006 4:25:26 PM	113.15
	4/26/2006 12:55:06 PM	114.426		4/26/2006 4:25:26 PM	113.156
	4/26/2006 12:58:06 PM	114.311		4/26/2006 4:25:26 PM	113.138
	4/26/2006 1:01:12 PM	114.442		4/26/2006 4:25:26 PM	113.154
	4/26/2006 1:04:36 PM	114.278		4/26/2006 4:25:27 PM	113.16
	4/26/2006 1:08:06 PM	114.344		4/26/2006 4:25:27 PM	113.058
	4/26/2006 1:11:48 PM	114.237		4/26/2006 4:25:27 PM	113.118
	4/26/2006 1:15:48 PM	114.305		4/26/2006 4:25:27 PM	113.186
	4/26/2006 1:20:00 PM	114.239		4/26/2006 4:25:28 PM	113.151
	4/26/2006 1:24:24 PM	114.121		4/26/2006 4:25:28 PM	113.167
	4/26/2006 1:29:06 PM	114.211		4/26/2006 4:25:29 PM	113.145
	4/26/2006 1:34:06 PM	114.082		4/26/2006 4:25:29 PM	113.173
	4/26/2006 1:39:24 PM	114.105		4/26/2006 4:25:29 PM	113.117
	4/26/2006 1:45:00 PM	113.924		4/26/2006 4:25:30 PM	113.156
	4/26/2006 1:51:00 PM	113.965		4/26/2006 4:25:30 PM	113.139
	4/26/2006 1:57:00 PM	113.938		4/26/2006 4:25:31 PM	113.167
	4/26/2006 2:04:00 PM	113.854		4/26/2006 4:25:32 PM	113.215
	4/26/2006 2:11:00 PM	113.784		4/26/2006 4:25:32 PM	113.139
	4/26/2006 2:18:00 PM	113.789		4/26/2006 4:25:33 PM	113.176
	4/26/2006 2:26:00 PM	113.709		4/26/2006 4:25:33 PM	113.225
	4/26/2006 2:35:00 PM	113.763		4/26/2006 4:25:34 PM	113.128
	4/26/2006 2:43:00 PM	113.63		4/26/2006 4:25:35 PM	113.133
	4/26/2006 2:53:00 PM	113.599		4/26/2006 4:25:36 PM	113.253
	4/26/2006 3:03:00 PM	113.522		4/26/2006 4:25:36 PM	113.14
	4/26/2006 3:13:00 PM	113.41		4/26/2006 4:25:36 PM	113.095
	4/26/2006 3:24:00 PM	113.447		4/26/2006 4:25:37 PM	113.186
	4/26/2006 3:36:00 PM	113.35		4/26/2006 4:25:37 PM	113.215
	4/26/2006 3:49:00 PM	113.347		4/26/2006 4:25:37 PM	113.149
	4/26/2006 4:02:00 PM	113.294		4/26/2006 4:25:37 PM	113.18

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	4/26/2006 4:25:38 PM	113.185		4/26/2006 4:26:08 PM	113.173
	4/26/2006 4:25:38 PM	113.124		4/26/2006 4:26:10 PM	113.182
	4/26/2006 4:25:38 PM	113.193		4/26/2006 4:26:12 PM	113.16
	4/26/2006 4:25:38 PM	113.119		4/26/2006 4:26:14 PM	113.139
	4/26/2006 4:25:39 PM	113.103		4/26/2006 4:26:16 PM	113.123
	4/26/2006 4:25:39 PM	113.226		4/26/2006 4:26:19 PM	113.04
	4/26/2006 4:25:39 PM	113.204		4/26/2006 4:26:21 PM	113.16
	4/26/2006 4:25:39 PM	113.136		4/26/2006 4:26:24 PM	113.174
	4/26/2006 4:25:40 PM	113.106		4/26/2006 4:26:27 PM	113.254
	4/26/2006 4:25:40 PM	113.205		4/26/2006 4:26:30 PM	113.099
	4/26/2006 4:25:40 PM	113.125		4/26/2006 4:26:33 PM	113.205
	4/26/2006 4:25:40 PM	113.111		4/26/2006 4:26:36 PM	113.167
	4/26/2006 4:25:41 PM	113.147		4/26/2006 4:26:40 PM	113.126
	4/26/2006 4:25:41 PM	113.108		4/26/2006 4:26:43 PM	113.136
	4/26/2006 4:25:41 PM	113.118		4/26/2006 4:26:48 PM	113.137
	4/26/2006 4:25:41 PM	113.153		4/26/2006 4:26:52 PM	113.132
	4/26/2006 4:25:42 PM	113.13		4/26/2006 4:26:56 PM	113.258
	4/26/2006 4:25:42 PM	113.153		4/26/2006 4:27:01 PM	113.111
	4/26/2006 4:25:42 PM	113.11		4/26/2006 4:27:06 PM	113.166
	4/26/2006 4:25:43 PM	113.111		4/26/2006 4:27:11 PM	113.116
	4/26/2006 4:25:43 PM	113.175		4/26/2006 4:27:17 PM	113.121
	4/26/2006 4:25:43 PM	113.153		4/26/2006 4:27:23 PM	113.101
	4/26/2006 4:25:44 PM	113.09		4/26/2006 4:27:29 PM	113.157
	4/26/2006 4:25:44 PM	113.142		4/26/2006 4:27:36 PM	113.229
	4/26/2006 4:25:45 PM	113.112		4/26/2006 4:27:43 PM	112.993
	4/26/2006 4:25:45 PM	113.164		4/26/2006 4:27:51 PM	113.179
	4/26/2006 4:25:46 PM	113.157		4/26/2006 4:27:58 PM	113.134
	4/26/2006 4:25:46 PM	113.149		4/26/2006 4:28:07 PM	113.195
	4/26/2006 4:25:47 PM	113.151		4/26/2006 4:28:16 PM	113.186
	4/26/2006 4:25:47 PM	113.188		4/26/2006 4:28:25 PM	113.209
	4/26/2006 4:25:48 PM	113.1		4/26/2006 4:28:35 PM	113.152
	4/26/2006 4:25:49 PM	113.105		4/26/2006 4:28:46 PM	113.152
	4/26/2006 4:25:50 PM	113.135		4/26/2006 4:28:57 PM	113.08
	4/26/2006 4:25:50 PM	113.173		4/26/2006 4:29:09 PM	113.017
	4/26/2006 4:25:51 PM	113.072		4/26/2006 4:29:22 PM	113.137
	4/26/2006 4:25:52 PM	113.158		4/26/2006 4:29:35 PM	113.148
	4/26/2006 4:25:53 PM	113.146		4/26/2006 4:29:49 PM	113.164
	4/26/2006 4:25:54 PM	113.172		4/26/2006 4:30:04 PM	113.063
	4/26/2006 4:25:55 PM	113.137		4/26/2006 4:30:20 PM	113.125
	4/26/2006 4:25:56 PM	113.092		4/26/2006 4:30:37 PM	113.072
	4/26/2006 4:25:57 PM	113.23		4/26/2006 4:30:55 PM	113.117
	4/26/2006 4:25:59 PM	113.14		4/26/2006 4:31:13 PM	113.14
	4/26/2006 4:26:00 PM	113.181		4/26/2006 4:31:34 PM	113.077
	4/26/2006 4:26:01 PM	113.072		4/26/2006 4:31:55 PM	113.165
	4/26/2006 4:26:03 PM	113.128		4/26/2006 4:32:17 PM	113.082
	4/26/2006 4:26:05 PM	113.126		4/26/2006 4:32:41 PM	113.069
	4/26/2006 4:26:06 PM	113.195		4/26/2006 4:33:06 PM	113.083

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	4/26/2006 4:33:33 PM	113.228		4/26/2006 6:24:36 PM	112.686
	4/26/2006 4:34:01 PM	113.134		4/26/2006 6:31:36 PM	112.674
	4/26/2006 4:34:31 PM	113.134		4/26/2006 6:38:36 PM	112.677
	4/26/2006 4:35:03 PM	113.081		4/26/2006 6:46:36 PM	112.615
	4/26/2006 4:35:36 PM	113.137		4/26/2006 6:55:36 PM	112.59
	4/26/2006 4:36:12 PM	113.143		4/26/2006 7:03:36 PM	112.591
	4/26/2006 4:36:48 PM	113.178		4/26/2006 7:13:36 PM	112.634
	4/26/2006 4:37:30 PM	113.134		4/26/2006 7:23:36 PM	112.524
	4/26/2006 4:38:12 PM	113.12		4/26/2006 7:33:36 PM	112.558
	4/26/2006 4:38:54 PM	113.042		4/26/2006 7:44:36 PM	112.416
	4/26/2006 4:39:42 PM	113.013		4/26/2006 7:56:36 PM	112.357
	4/26/2006 4:40:36 PM	113.108		4/26/2006 8:09:36 PM	112.268
	4/26/2006 4:41:24 PM	113.089		4/26/2006 8:22:36 PM	112.149
	4/26/2006 4:42:24 PM	113.108		4/26/2006 8:36:36 PM	112.118
	4/26/2006 4:43:24 PM	113.09		4/26/2006 8:51:36 PM	112.05
	4/26/2006 4:44:24 PM	113.104		4/26/2006 9:07:36 PM	112.023
	4/26/2006 4:45:30 PM	112.997		4/26/2006 9:23:36 PM	111.9
	4/26/2006 4:46:42 PM	113.035		4/26/2006 9:41:36 PM	111.818
	4/26/2006 4:48:00 PM	113.166		4/26/2006 10:00:36 PM	111.815
	4/26/2006 4:49:18 PM	112.99		4/26/2006 10:20:36 PM	111.741
	4/26/2006 4:50:42 PM	113.028		4/26/2006 10:41:36 PM	111.664
	4/26/2006 4:52:12 PM	113.034		4/26/2006 11:03:36 PM	111.573
	4/26/2006 4:53:48 PM	113.022		4/26/2006 11:27:36 PM	111.494
	4/26/2006 4:55:24 PM	113.022		4/26/2006 11:52:36 PM	111.404
	4/26/2006 4:57:12 PM	112.966		4/27/2006 12:18:36 AM	111.341
	4/26/2006 4:59:06 PM	113.005		4/27/2006 12:46:36 AM	111.224
	4/26/2006 5:01:06 PM	113.015		4/27/2006 1:16:36 AM	111.174
	4/26/2006 5:03:12 PM	112.976		4/27/2006 1:47:37 AM	111.094
	4/26/2006 5:05:24 PM	112.926		4/27/2006 2:21:36 AM	111.073
	4/26/2006 5:07:48 PM	113.019		4/27/2006 2:56:36 AM	110.915
	4/26/2006 5:10:18 PM	112.953		4/27/2006 3:33:36 AM	110.797
	4/26/2006 5:12:54 PM	112.935		4/27/2006 4:13:36 AM	110.795
	4/26/2006 5:15:42 PM	112.898		4/27/2006 4:55:36 AM	110.744
	4/26/2006 5:18:42 PM	112.985		4/27/2006 5:39:36 AM	110.564
	4/26/2006 5:21:48 PM	112.972		4/27/2006 6:26:36 AM	110.507
	4/26/2006 5:25:12 PM	112.938		4/27/2006 7:16:36 AM	110.448
	4/26/2006 5:28:42 PM	112.844		4/27/2006 8:09:36 AM	110.308
	4/26/2006 5:32:24 PM	112.835		4/27/2006 9:05:36 AM	110.267
	4/26/2006 5:36:24 PM	112.8		4/27/2006 10:05:36 AM	110.111
	4/26/2006 5:40:36 PM	112.881		4/27/2006 11:05:36 AM	109.977
	4/26/2006 5:45:00 PM	112.9		4/27/2006 12:15:36 PM	109.926
	4/26/2006 5:49:42 PM	112.928		4/27/2006 1:25:36 PM	109.806
	4/26/2006 5:54:42 PM	112.834		4/27/2006 2:35:36 PM	109.747
	4/26/2006 6:00:00 PM	112.77		4/27/2006 3:55:36 PM	109.532
	4/26/2006 6:05:36 PM	112.782		4/27/2006 5:25:36 PM	109.4
	4/26/2006 6:11:36 PM	112.74		4/27/2006 6:45:36 PM	109.365
	4/26/2006 6:17:36 PM	112.724		4/27/2006 8:25:36 PM	109.211

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	4/27/2006 10:05:36 PM	109.114		5/1/2006 7:35:59 PM	106.391
	4/27/2006 11:45:36 PM	108.989		5/1/2006 9:35:59 PM	106.325
	4/28/2006 1:35:36 AM	108.818		5/1/2006 11:35:59 PM	106.303
	4/28/2006 3:35:36 AM	108.65		5/2/2006 1:35:59 AM	106.255
	4/28/2006 5:35:36 AM	108.526		5/2/2006 3:35:59 AM	106.19
	4/28/2006 7:35:36 AM	108.479		5/2/2006 5:35:59 AM	106.191
	4/28/2006 9:35:36 AM	108.303		5/2/2006 7:35:59 AM	106.173
	4/28/2006 11:35:57 AM	108.141		5/2/2006 7:59:11 AM	106.201
	4/28/2006 1:35:57 PM	108.032		5/2/2006 7:59:11 AM	106.184
	4/28/2006 3:35:57 PM	107.873		5/2/2006 7:59:11 AM	106.168
	4/28/2006 5:35:57 PM	108.081		5/2/2006 7:59:12 AM	106.214
	4/28/2006 7:35:57 PM	107.857		5/2/2006 7:59:12 AM	106.229
	4/28/2006 9:35:57 PM	107.66		5/2/2006 7:59:12 AM	106.183
	4/28/2006 11:35:57 PM	107.601		5/2/2006 7:59:12 AM	106.222
	4/29/2006 1:35:57 AM	107.414		5/2/2006 7:59:13 AM	106.196
	4/29/2006 3:35:57 AM	107.369		5/2/2006 7:59:13 AM	106.167
	4/29/2006 5:35:57 AM	107.204		5/2/2006 7:59:13 AM	106.187
	4/29/2006 7:35:57 AM	107.147		5/2/2006 7:59:13 AM	106.197
	4/29/2006 9:35:57 AM	107.006		5/2/2006 7:59:14 AM	106.219
	4/29/2006 11:35:57 AM	106.961		5/2/2006 7:59:14 AM	106.211
	4/29/2006 1:35:59 PM	106.801		5/2/2006 7:59:14 AM	106.258
	4/29/2006 3:35:59 PM	106.757		5/2/2006 7:59:14 AM	106.197
	4/29/2006 5:35:59 PM	106.575		5/2/2006 7:59:15 AM	106.204
	4/29/2006 7:35:59 PM	106.543		5/2/2006 7:59:15 AM	106.231
	4/29/2006 9:35:59 PM	106.392		5/2/2006 7:59:15 AM	106.211
	4/29/2006 11:35:59 PM	106.298		5/2/2006 7:59:15 AM	106.167
	4/30/2006 1:35:59 AM	106.268		5/2/2006 7:59:16 AM	106.2
	4/30/2006 3:35:59 AM	106.19		5/2/2006 7:59:16 AM	106.17
	4/30/2006 5:35:59 AM	106.067		5/2/2006 7:59:16 AM	106.229
	4/30/2006 7:35:59 AM	105.993		5/2/2006 7:59:16 AM	106.205
	4/30/2006 9:35:59 AM	105.9		5/2/2006 7:59:17 AM	106.243
	4/30/2006 11:35:59 AM	105.849		5/2/2006 7:59:17 AM	106.234
	4/30/2006 1:35:59 PM	105.702		5/2/2006 7:59:17 AM	106.194
	4/30/2006 3:35:59 PM	105.59		5/2/2006 7:59:18 AM	106.22
	4/30/2006 5:35:59 PM	105.626		5/2/2006 7:59:18 AM	106.208
	4/30/2006 7:35:59 PM	105.505		5/2/2006 7:59:18 AM	106.216
	4/30/2006 9:35:59 PM	105.455		5/2/2006 7:59:19 AM	106.2
	4/30/2006 11:35:59 PM	105.367		5/2/2006 7:59:19 AM	106.236
	5/1/2006 1:35:59 AM	105.245		5/2/2006 7:59:20 AM	106.201
	5/1/2006 3:35:59 AM	105.213		5/2/2006 7:59:20 AM	106.172
	5/1/2006 5:35:59 AM	105.189		5/2/2006 7:59:21 AM	106.221
	5/1/2006 7:35:59 AM	105.105		5/2/2006 7:59:22 AM	106.22
	5/1/2006 9:35:59 AM	104.995		5/2/2006 7:59:22 AM	106.211
	5/1/2006 11:35:59 AM	104.921		5/2/2006 7:59:23 AM	106.286
	5/1/2006 1:35:59 PM	104.859		5/2/2006 7:59:24 AM	106.198
	5/1/2006 3:35:59 PM	106.425		5/2/2006 7:59:24 AM	106.188
	5/1/2006 5:35:59 PM	106.419		5/2/2006 7:59:25 AM	106.166

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	5/2/2006 7:59:26 AM	106.208		5/2/2006 8:02:56 AM	106.255
	5/2/2006 7:59:27 AM	106.182		5/2/2006 8:03:10 AM	106.261
	5/2/2006 7:59:28 AM	106.191		5/2/2006 8:03:24 AM	106.191
	5/2/2006 7:59:29 AM	106.246		5/2/2006 8:03:39 AM	106.184
	5/2/2006 7:59:30 AM	106.204		5/2/2006 8:03:55 AM	106.165
	5/2/2006 7:59:31 AM	106.233		5/2/2006 8:04:11 AM	106.188
	5/2/2006 7:59:32 AM	106.162		5/2/2006 8:04:29 AM	106.19
	5/2/2006 7:59:33 AM	106.155		5/2/2006 8:04:48 AM	106.168
	5/2/2006 7:59:35 AM	106.195		5/2/2006 8:05:08 AM	106.244
	5/2/2006 7:59:36 AM	106.107		5/2/2006 8:05:29 AM	106.174
	5/2/2006 7:59:38 AM	106.167		5/2/2006 8:05:52 AM	106.184
	5/2/2006 7:59:39 AM	106.186		5/2/2006 8:06:16 AM	106.226
	5/2/2006 7:59:41 AM	106.219		5/2/2006 8:06:41 AM	106.264
	5/2/2006 7:59:43 AM	106.188		5/2/2006 8:07:07 AM	106.179
	5/2/2006 7:59:45 AM	106.194		5/2/2006 8:07:35 AM	106.165
	5/2/2006 7:59:47 AM	106.177		5/2/2006 8:08:05 AM	106.253
	5/2/2006 7:59:49 AM	106.243		5/2/2006 8:08:37 AM	106.205
	5/2/2006 7:59:51 AM	106.238		5/2/2006 8:09:11 AM	106.228
	5/2/2006 7:59:53 AM	106.204		5/2/2006 8:09:47 AM	106.122
	5/2/2006 7:59:56 AM	106.205		5/2/2006 8:10:23 AM	106.212
	5/2/2006 7:59:59 AM	106.198		5/2/2006 8:11:05 AM	106.137
	5/2/2006 8:00:01 AM	106.231		5/2/2006 8:11:47 AM	106.219
	5/2/2006 8:00:04 AM	106.279		5/2/2006 8:12:29 AM	106.188
	5/2/2006 8:00:08 AM	106.176		5/2/2006 8:13:17 AM	106.167
	5/2/2006 8:00:11 AM	106.222		5/2/2006 8:14:11 AM	106.148
	5/2/2006 8:00:14 AM	106.201		5/2/2006 8:14:59 AM	106.234
	5/2/2006 8:00:18 AM	106.205		5/2/2006 8:15:59 AM	106.16
	5/2/2006 8:00:22 AM	106.245		5/2/2006 8:16:59 AM	106.233
	5/2/2006 8:00:26 AM	106.196		5/2/2006 8:17:59 AM	106.178
	5/2/2006 8:00:31 AM	106.204		5/2/2006 8:19:05 AM	106.23
	5/2/2006 8:00:35 AM	106.177		5/2/2006 8:20:17 AM	106.178
	5/2/2006 8:00:41 AM	106.166		5/2/2006 8:21:35 AM	106.215
	5/2/2006 8:00:46 AM	106.196		5/2/2006 8:22:53 AM	106.186
	5/2/2006 8:00:52 AM	106.184		5/2/2006 8:24:17 AM	106.225
	5/2/2006 8:00:58 AM	106.223		5/2/2006 8:25:47 AM	106.18
	5/2/2006 8:01:04 AM	106.184		5/2/2006 8:27:23 AM	106.172
	5/2/2006 8:01:10 AM	106.254		5/2/2006 8:28:59 AM	106.19
	5/2/2006 8:01:17 AM	106.168		5/2/2006 8:30:47 AM	106.187
	5/2/2006 8:01:25 AM	106.224		5/2/2006 8:32:41 AM	106.231
	5/2/2006 8:01:33 AM	106.165		5/2/2006 8:34:41 AM	106.133
	5/2/2006 8:01:41 AM	106.239		5/2/2006 8:36:47 AM	106.185
	5/2/2006 8:01:50 AM	106.19		5/2/2006 8:38:59 AM	106.185
	5/2/2006 8:02:00 AM	106.245		5/2/2006 8:41:23 AM	106.165
	5/2/2006 8:02:10 AM	106.209		5/2/2006 8:43:53 AM	106.138
	5/2/2006 8:02:20 AM	106.22		5/2/2006 8:46:29 AM	106.17
	5/2/2006 8:02:32 AM	106.238		5/2/2006 8:49:17 AM	106.131
	5/2/2006 8:02:44 AM	106.167		5/2/2006 8:52:17 AM	106.173

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL			TROLL		
	5/2/2006 8:55:23 AM	106.148		5/2/2006 10:00:11 PM	107.981
	5/2/2006 8:58:47 AM	106.176		5/2/2006 10:50:11 PM	107.978
	5/2/2006 9:02:17 AM	106.154		5/2/2006 11:43:11 PM	108.042
	5/2/2006 9:05:59 AM	106.151		5/3/2006 12:39:11 AM	107.889
	5/2/2006 9:09:59 AM	106.17		5/3/2006 1:39:11 AM	107.997
	5/2/2006 9:14:11 AM	106.161		5/3/2006 2:39:11 AM	107.9
	5/2/2006 9:18:35 AM	106.129		5/3/2006 3:49:11 AM	107.954
	5/2/2006 9:23:17 AM	106.182		5/3/2006 4:59:11 AM	107.893
	5/2/2006 9:28:17 AM	106.21		5/3/2006 6:09:11 AM	107.833
	5/2/2006 9:33:35 AM	106.115		5/3/2006 7:29:11 AM	107.957
	5/2/2006 9:39:11 AM	106.132		5/3/2006 8:59:11 AM	107.945
	5/2/2006 9:45:11 AM	106.13		5/3/2006 10:19:11 AM	107.847
	5/2/2006 9:51:11 AM	106.176		5/3/2006 11:59:11 AM	107.869
	5/2/2006 9:58:11 AM	106.153		5/3/2006 1:39:11 PM	107.842
	5/2/2006 10:05:11 AM	106.11		5/3/2006 3:19:11 PM	107.879
	5/2/2006 10:12:11 AM	106.141		5/3/2006 5:09:11 PM	107.853
	5/2/2006 10:20:11 AM	106.137		5/3/2006 7:09:11 PM	107.805
	5/2/2006 10:29:11 AM	106.154		5/3/2006 9:09:11 PM	107.827
	5/2/2006 10:37:11 AM	106.143		5/3/2006 11:09:11 PM	107.777
	5/2/2006 10:47:11 AM	106.13		5/4/2006 1:09:11 AM	107.713
	5/2/2006 10:57:11 AM	106.102		5/4/2006 3:09:11 AM	107.652
	5/2/2006 11:07:11 AM	106.111		5/4/2006 5:09:11 AM	107.646
	5/2/2006 11:18:11 AM	106.169		5/4/2006 7:09:11 AM	107.712
	5/2/2006 11:30:11 AM	106.15		5/4/2006 9:09:11 AM	107.544
	5/2/2006 11:43:11 AM	106.129		5/4/2006 11:09:11 AM	107.631
	5/2/2006 11:56:11 AM	106.125		5/4/2006 1:09:11 PM	107.564
	5/2/2006 12:10:11 PM	106.099		5/4/2006 3:09:11 PM	107.494
	5/2/2006 12:25:11 PM	106.054		5/4/2006 5:09:11 PM	107.416
	5/2/2006 12:41:11 PM	106.056		5/4/2006 7:09:11 PM	107.528
	5/2/2006 12:57:11 PM	106.095		5/4/2006 9:09:11 PM	107.349
	5/2/2006 1:15:11 PM	106.102		5/4/2006 11:09:11 PM	107.318
	5/2/2006 1:34:11 PM	106.093		5/5/2006 1:09:11 AM	107.395
	5/2/2006 1:54:11 PM	106.099		5/5/2006 3:09:11 AM	107.357
	5/2/2006 2:15:11 PM	106.09		5/5/2006 5:09:11 AM	107.387
	5/2/2006 2:37:11 PM	106.101		5/5/2006 7:09:11 AM	107.303
	5/2/2006 3:01:11 PM	106.081		5/5/2006 9:09:11 AM	107.318
	5/2/2006 3:26:11 PM	106.086		5/5/2006 11:09:11 AM	107.212
	5/2/2006 3:52:11 PM	106.04		5/5/2006 1:09:11 PM	107.198
	5/2/2006 4:20:11 PM	106.037		5/5/2006 3:09:11 PM	107.198
	5/2/2006 4:50:11 PM	106.107		5/5/2006 5:09:11 PM	107.126
	5/2/2006 5:21:11 PM	106.071		5/5/2006 7:09:11 PM	107.076
	5/2/2006 5:55:11 PM	106.044		5/5/2006 9:09:11 PM	107.117
	5/2/2006 6:30:11 PM	106.032		5/5/2006 11:09:11 PM	107.008
	5/2/2006 7:07:11 PM	108.044		5/6/2006 1:09:11 AM	106.991
	5/2/2006 7:47:11 PM	108.049		5/6/2006 3:09:11 AM	106.966
	5/2/2006 8:29:11 PM	107.957		5/6/2006 5:09:11 AM	106.972
	5/2/2006 9:13:11 PM	108		5/6/2006 7:09:11 AM	106.915

Well	Date and Time	GWE (ft)
TW-1		
TROLL		
	5/6/2006 9:08:23 AM	106.831
	5/6/2006 11:08:23 AM	106.829
	5/6/2006 1:08:23 PM	106.815
	5/6/2006 3:08:23 PM	106.824
	5/6/2006 5:08:23 PM	106.772
	5/6/2006 7:08:23 PM	106.731
	5/6/2006 9:08:23 PM	106.653
	5/6/2006 11:08:23 PM	106.702
	5/7/2006 1:08:23 AM	106.619
	5/7/2006 3:08:23 AM	106.535
	5/7/2006 5:08:23 AM	106.63
	5/7/2006 7:08:23 AM	106.512
TROLL-rec		
	5/8/2006 1:00:00 PM	106.081
	5/8/2006 1:00:00 PM	106.158
	5/8/2006 1:00:00 PM	106.186
	5/8/2006 1:00:01 PM	106.091
	5/8/2006 1:00:01 PM	106.141
	5/8/2006 1:00:01 PM	106.171
	5/8/2006 1:00:01 PM	106.114
	5/8/2006 1:00:02 PM	106.092
	5/8/2006 1:00:02 PM	106.087
	5/8/2006 1:00:02 PM	106.142
	5/8/2006 1:00:02 PM	106.055
	5/8/2006 1:00:03 PM	106.086
	5/8/2006 1:00:03 PM	106.133
	5/8/2006 1:00:03 PM	106.086
	5/8/2006 1:00:03 PM	106.077
	5/8/2006 1:00:04 PM	106.125
	5/8/2006 1:00:04 PM	106.092
	5/8/2006 1:00:04 PM	106.101
	5/8/2006 1:00:04 PM	106.084
	5/8/2006 1:00:05 PM	106.068
	5/8/2006 1:00:05 PM	106.132
	5/8/2006 1:00:05 PM	106.111
	5/8/2006 1:00:05 PM	106.08
	5/8/2006 1:00:06 PM	106.1
	5/8/2006 1:00:06 PM	106.097
	5/8/2006 1:00:06 PM	106.134
	5/8/2006 1:00:07 PM	106.145
	5/8/2006 1:00:07 PM	106.064
	5/8/2006 1:00:08 PM	106.152
	5/8/2006 1:00:08 PM	106.115
	5/8/2006 1:00:08 PM	106.093
	5/8/2006 1:00:09 PM	106.193
	5/8/2006 1:00:09 PM	106.156
	5/8/2006 1:00:10 PM	106.099

Well	Date and Time	GWE (ft)
TW-1		
TROLL-rec		
	5/8/2006 1:00:11 PM	106.015
	5/8/2006 1:00:11 PM	106.141
	5/8/2006 1:00:12 PM	106.118
	5/8/2006 1:00:13 PM	106.105
	5/8/2006 1:00:13 PM	106.105
	5/8/2006 1:00:14 PM	106.116
	5/8/2006 1:00:15 PM	106.131
	5/8/2006 1:00:16 PM	106.041
	5/8/2006 1:00:17 PM	106.132
	5/8/2006 1:00:18 PM	106.166
	5/8/2006 1:00:19 PM	106.075
	5/8/2006 1:00:20 PM	106.142
	5/8/2006 1:00:21 PM	106.129
	5/8/2006 1:00:23 PM	106.142
	5/8/2006 1:00:24 PM	106.045
	5/8/2006 1:00:25 PM	106.078
	5/8/2006 1:00:27 PM	106.155
	5/8/2006 1:00:28 PM	106.133
	5/8/2006 1:00:30 PM	106.102
	5/8/2006 1:00:32 PM	106.12
	5/8/2006 1:00:34 PM	106.109
	5/8/2006 1:00:36 PM	106.148
	5/8/2006 1:00:38 PM	106.145
	5/8/2006 1:00:40 PM	106.088
	5/8/2006 1:00:42 PM	106.137
	5/8/2006 1:00:45 PM	106.181
	5/8/2006 1:00:48 PM	106.116
	5/8/2006 1:00:50 PM	106.114
	5/8/2006 1:00:53 PM	106.085
	5/8/2006 1:00:57 PM	106.091
	5/8/2006 1:01:00 PM	106.097
	5/8/2006 1:01:04 PM	106.164
	5/8/2006 1:01:07 PM	106.094
	5/8/2006 1:01:11 PM	106.029
	5/8/2006 1:01:16 PM	106.131
	5/8/2006 1:01:20 PM	106.067
	5/8/2006 1:01:25 PM	106.077
	5/8/2006 1:01:30 PM	106.164
	5/8/2006 1:01:35 PM	106.107
	5/8/2006 1:01:41 PM	106.117
	5/8/2006 1:01:47 PM	106.154
	5/8/2006 1:01:53 PM	106.043
	5/8/2006 1:01:59 PM	106.126
	5/8/2006 1:02:07 PM	106.095
	5/8/2006 1:02:14 PM	106.125
	5/8/2006 1:02:22 PM	106.116
	5/8/2006 1:02:31 PM	106.128

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-1			**TW-1**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:02:40 PM	106.106		5/8/2006 1:39:48 PM	117.172
	5/8/2006 1:02:49 PM	106.115		5/8/2006 1:42:12 PM	117.192
	5/8/2006 1:02:59 PM	106.138		5/8/2006 1:44:42 PM	117.211
	5/8/2006 1:03:10 PM	106.076		5/8/2006 1:47:18 PM	117.231
	5/8/2006 1:03:21 PM	106.072		5/8/2006 1:50:06 PM	117.25
	5/8/2006 1:03:33 PM	106.1		5/8/2006 1:53:06 PM	117.269
	5/8/2006 1:03:46 PM	106.119		5/8/2006 1:56:12 PM	117.291
	5/8/2006 1:03:59 PM	106.135		5/8/2006 1:59:36 PM	117.312
	5/8/2006 1:04:13 PM	106.112		5/8/2006 2:03:06 PM	117.333
	5/8/2006 1:04:28 PM	106.099		5/8/2006 2:06:48 PM	117.355
	5/8/2006 1:04:44 PM	106.083		5/8/2006 2:10:48 PM	117.38
	5/8/2006 1:05:01 PM	106.1		5/8/2006 2:15:00 PM	117.4
	5/8/2006 1:05:19 PM	106.169		5/8/2006 2:19:24 PM	117.424
	5/8/2006 1:05:37 PM	106.05		5/8/2006 2:24:06 PM	117.448
	5/8/2006 1:05:58 PM	106.149		5/8/2006 2:29:06 PM	117.474
	5/8/2006 1:06:19 PM	106.134		5/8/2006 2:34:24 PM	117.499
	5/8/2006 1:06:41 PM	106.117		5/8/2006 2:40:00 PM	117.524
	5/8/2006 1:07:05 PM	106.157		5/8/2006 2:46:00 PM	117.552
	5/8/2006 1:07:30 PM	106.075		5/8/2006 2:52:00 PM	117.579
	5/8/2006 1:07:56 PM	106.075		5/8/2006 2:59:00 PM	117.604
	5/8/2006 1:08:25 PM	106.131		5/8/2006 3:06:00 PM	117.636
	5/8/2006 1:08:55 PM	106.123		5/8/2006 3:13:00 PM	117.666
	5/8/2006 1:09:26 PM	106.154		5/8/2006 3:21:00 PM	117.695
	5/8/2006 1:10:00 PM	106.123		5/8/2006 3:30:00 PM	117.73
	5/8/2006 1:10:36 PM	106.097		5/8/2006 3:38:00 PM	117.758
	5/8/2006 1:11:12 PM	106.171		5/8/2006 3:48:00 PM	117.797
	5/8/2006 1:11:54 PM	106.114		5/8/2006 3:58:00 PM	117.83
	5/8/2006 1:12:36 PM	106.132		5/8/2006 4:08:00 PM	117.861
	5/8/2006 1:13:18 PM	106.034		5/8/2006 4:19:00 PM	117.898
	5/8/2006 1:14:06 PM	106.125		5/8/2006 4:31:00 PM	117.937
	5/8/2006 1:15:00 PM	106.067		5/8/2006 4:44:00 PM	117.982
	5/8/2006 1:15:48 PM	106.011		5/8/2006 4:57:00 PM	118.018
	5/8/2006 1:16:48 PM	106.127		5/8/2006 5:11:00 PM	118.058
	5/8/2006 1:17:48 PM	106.118		5/8/2006 5:26:00 PM	118.102
	5/8/2006 1:18:48 PM	106.036		5/8/2006 5:42:00 PM	118.148
	5/8/2006 1:19:54 PM	106.088		5/8/2006 5:58:00 PM	118.192
	5/8/2006 1:21:06 PM	106.118		5/8/2006 6:16:00 PM	118.24
	5/8/2006 1:22:24 PM	113.267		5/8/2006 6:35:00 PM	118.287
	5/8/2006 1:23:42 PM	117.186		5/8/2006 6:55:00 PM	118.338
	5/8/2006 1:25:06 PM	117.114		5/8/2006 7:16:00 PM	118.384
	5/8/2006 1:26:36 PM	117.095		5/8/2006 7:38:00 PM	118.439
	5/8/2006 1:28:12 PM	117.066		5/8/2006 8:02:00 PM	118.49
	5/8/2006 1:29:48 PM	117.081		5/8/2006 8:27:00 PM	118.544
	5/8/2006 1:31:36 PM	117.096		5/8/2006 8:53:00 PM	118.599
	5/8/2006 1:33:30 PM	117.116		5/8/2006 9:21:00 PM	118.652
	5/8/2006 1:35:30 PM	117.133		5/8/2006 9:51:00 PM	118.713
	5/8/2006 1:37:36 PM	117.153		5/8/2006 10:22:00 PM	118.77

Well	Date and Time	GWE (ft)
TW-1		
TROLL-rec		
	5/8/2006 10:56:00 PM	118.833
	5/8/2006 11:31:00 PM	118.89
	5/9/2006 12:08:00 AM	118.956
	5/9/2006 12:48:00 AM	119.023
	5/9/2006 1:30:00 AM	119.086
	5/9/2006 2:14:00 AM	119.153
	5/9/2006 3:01:00 AM	119.221
	5/9/2006 3:51:00 AM	119.292
	5/9/2006 4:44:00 AM	119.363
	5/9/2006 5:40:00 AM	119.435
	5/9/2006 6:40:00 AM	119.511
	5/9/2006 7:40:00 AM	119.581
	5/9/2006 8:50:00 AM	119.663
	5/9/2006 10:00:00 AM	119.74
	5/9/2006 11:10:00 AM	119.817
TW-2		
Manual		
	4/26/2006 11:42:00 AM	127.66
	4/27/2006 5:45:00 PM	105.39
	4/28/2006 10:45:00 AM	104.15
	4/28/2006 2:15:00 PM	103.91
	4/29/2006 1:30:00 PM	102.44
	4/29/2006 4:33:00 PM	102.29
	4/30/2006 7:12:00 AM	101.51
	4/30/2006 12:00:00 PM	101.41
	4/30/2006 12:02:00 PM	104.14
	4/30/2006 4:39:00 PM	104.03
	5/1/2006 7:43:00 AM	103.57
	5/1/2006 12:45:00 PM	103.39
	5/1/2006 3:35:00 PM	106.11
	5/1/2006 8:08:00 PM	106.08
	5/2/2006 7:54:00 AM	105.89
	5/2/2006 12:00:00 PM	105.83
	5/2/2006 6:00:00 PM	105.73
	5/2/2006 7:37:00 PM	108.34
	5/2/2006 9:05:00 PM	106.19
	5/3/2006 7:42:00 AM	106.09
	5/3/2006 1:14:00 PM	106.04
	5/3/2006 6:57:00 PM	106.04
	5/4/2006 8:50:00 AM	105.94
	5/4/2006 6:24:00 PM	105.78
	5/5/2006 3:23:00 PM	105.47
	5/5/2006 6:50:00 PM	105.41
	5/6/2006 2:00:00 PM	105.15
	5/6/2006 6:36:00 PM	105.09
	5/7/2006 5:17:00 PM	104.78

Well	Date and Time	GWE (ft)
TW-2		
Manual		
	5/9/2006 10:41:00 AM	119.14
TROLL		
	12:00:00 AM	0
	4/26/2006 12:05:00 PM	127.66
	4/26/2006 12:05:00 PM	127.661
	4/26/2006 12:05:00 PM	127.658
	4/26/2006 12:05:01 PM	127.663
	4/26/2006 12:05:01 PM	127.662
	4/26/2006 12:05:01 PM	127.66
	4/26/2006 12:05:01 PM	127.66
	4/26/2006 12:05:02 PM	127.659
	4/26/2006 12:05:02 PM	127.658
	4/26/2006 12:05:02 PM	127.658
	4/26/2006 12:05:02 PM	127.663
	4/26/2006 12:05:03 PM	127.657
	4/26/2006 12:05:03 PM	127.662
	4/26/2006 12:05:03 PM	127.657
	4/26/2006 12:05:03 PM	127.656
	4/26/2006 12:05:04 PM	127.66
	4/26/2006 12:05:04 PM	127.66
	4/26/2006 12:05:04 PM	127.661
	4/26/2006 12:05:04 PM	127.66
	4/26/2006 12:05:05 PM	127.66
	4/26/2006 12:05:05 PM	127.659
	4/26/2006 12:05:05 PM	127.658
	4/26/2006 12:05:05 PM	127.655
	4/26/2006 12:05:06 PM	127.659
	4/26/2006 12:05:06 PM	127.658
	4/26/2006 12:05:06 PM	127.659
	4/26/2006 12:05:07 PM	127.66
	4/26/2006 12:05:07 PM	127.66
	4/26/2006 12:05:08 PM	127.661
	4/26/2006 12:05:08 PM	127.656
	4/26/2006 12:05:08 PM	127.663
	4/26/2006 12:05:09 PM	127.661
	4/26/2006 12:05:09 PM	127.658
	4/26/2006 12:05:10 PM	127.659
	4/26/2006 12:05:11 PM	127.658
	4/26/2006 12:05:11 PM	127.657
	4/26/2006 12:05:12 PM	127.659
	4/26/2006 12:05:13 PM	127.659
	4/26/2006 12:05:13 PM	127.661
	4/26/2006 12:05:14 PM	127.662
	4/26/2006 12:05:15 PM	127.662
	4/26/2006 12:05:16 PM	127.661
	4/26/2006 12:05:17 PM	127.661
	4/26/2006 12:05:18 PM	127.662

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-2			**TW-2**		
TROLL			TROLL		
	4/26/2006 12:05:19 PM	127.656		4/26/2006 12:09:44 PM	110.489
	4/26/2006 12:05:20 PM	127.662		4/26/2006 12:10:01 PM	110.375
	4/26/2006 12:05:21 PM	127.663		4/26/2006 12:10:19 PM	110.402
	4/26/2006 12:05:23 PM	127.663		4/26/2006 12:10:37 PM	110.209
	4/26/2006 12:05:24 PM	127.658		4/26/2006 12:10:58 PM	110.422
	4/26/2006 12:05:25 PM	127.657		4/26/2006 12:11:19 PM	111.073
	4/26/2006 12:05:27 PM	127.658		4/26/2006 12:11:41 PM	110.756
	4/26/2006 12:05:28 PM	127.658		4/26/2006 12:12:05 PM	110.315
	4/26/2006 12:05:30 PM	127.663		4/26/2006 12:12:30 PM	110.465
	4/26/2006 12:05:32 PM	124.287		4/26/2006 12:12:56 PM	110.372
	4/26/2006 12:05:34 PM	120.811		4/26/2006 12:13:25 PM	110.635
	4/26/2006 12:05:36 PM	118.865		4/26/2006 12:13:55 PM	110.532
	4/26/2006 12:05:38 PM	116.605		4/26/2006 12:14:26 PM	110.81
	4/26/2006 12:05:40 PM	115.358		4/26/2006 12:15:00 PM	110.869
	4/26/2006 12:05:42 PM	113.917		4/26/2006 12:15:36 PM	111.207
	4/26/2006 12:05:45 PM	113.672		4/26/2006 12:16:12 PM	110.669
	4/26/2006 12:05:48 PM	112.538		4/26/2006 12:16:54 PM	110.67
	4/26/2006 12:05:50 PM	112.189		4/26/2006 12:17:36 PM	110.843
	4/26/2006 12:05:53 PM	111.158		4/26/2006 12:18:18 PM	110.974
	4/26/2006 12:05:57 PM	111.024		4/26/2006 12:19:06 PM	110.458
	4/26/2006 12:06:00 PM	110.684		4/26/2006 12:20:00 PM	110.954
	4/26/2006 12:06:04 PM	110.866		4/26/2006 12:20:48 PM	110.785
	4/26/2006 12:06:07 PM	110.703		4/26/2006 12:21:48 PM	110.747
	4/26/2006 12:06:11 PM	110.53		4/26/2006 12:22:48 PM	110.48
	4/26/2006 12:06:16 PM	110.537		4/26/2006 12:23:48 PM	110.279
	4/26/2006 12:06:20 PM	110.115		4/26/2006 12:24:54 PM	110.417
	4/26/2006 12:06:25 PM	110.232		4/26/2006 12:26:06 PM	110.847
	4/26/2006 12:06:30 PM	110.108		4/26/2006 12:27:24 PM	110.419
	4/26/2006 12:06:35 PM	110.413		4/26/2006 12:28:42 PM	110.93
	4/26/2006 12:06:41 PM	110.452		4/26/2006 12:30:06 PM	110.571
	4/26/2006 12:06:47 PM	110.327		4/26/2006 12:31:36 PM	111.037
	4/26/2006 12:06:53 PM	110.2		4/26/2006 12:33:12 PM	110.434
	4/26/2006 12:06:59 PM	110.452		4/26/2006 12:34:48 PM	110.593
	4/26/2006 12:07:07 PM	110.408		4/26/2006 12:36:36 PM	110.328
	4/26/2006 12:07:14 PM	110.485		4/26/2006 12:38:30 PM	110.457
	4/26/2006 12:07:22 PM	110.495		4/26/2006 12:40:30 PM	110.457
	4/26/2006 12:07:31 PM	110.537		4/26/2006 12:42:36 PM	110.566
	4/26/2006 12:07:40 PM	110.128		4/26/2006 12:44:48 PM	110.668
	4/26/2006 12:07:49 PM	109.956		4/26/2006 12:47:12 PM	111.006
	4/26/2006 12:07:59 PM	109.977		4/26/2006 12:49:42 PM	110.685
	4/26/2006 12:08:10 PM	110.282		4/26/2006 12:52:18 PM	110.636
	4/26/2006 12:08:21 PM	110.244		4/26/2006 12:55:06 PM	110.464
	4/26/2006 12:08:33 PM	110.492		4/26/2006 12:58:06 PM	110.756
	4/26/2006 12:08:46 PM	110.574		4/26/2006 1:01:12 PM	110.379
	4/26/2006 12:08:59 PM	110.445		4/26/2006 1:04:36 PM	110.397
	4/26/2006 12:09:13 PM	110.388		4/26/2006 1:08:06 PM	110.288
	4/26/2006 12:09:28 PM	110.637		4/26/2006 1:11:48 PM	110.651

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-2			**TW-2**		
TROLL			TROLL		
	4/26/2006 1:15:48 PM	110.61		4/27/2006 5:45:00 AM	108.063
	4/26/2006 1:20:00 PM	110.306		4/27/2006 6:45:00 AM	107.759
	4/26/2006 1:24:24 PM	110.467		4/27/2006 7:55:00 AM	107.732
	4/26/2006 1:29:06 PM	110.186		4/27/2006 9:05:00 AM	107.865
	4/26/2006 1:34:06 PM	110.291		4/27/2006 10:15:00 AM	107.517
	4/26/2006 1:39:24 PM	110.474		4/27/2006 11:35:00 AM	107.861
	4/26/2006 1:45:00 PM	110.4		4/27/2006 1:05:00 PM	107.044
	4/26/2006 1:51:00 PM	110.347		4/27/2006 2:25:00 PM	107.052
	4/26/2006 1:57:00 PM	110.08		4/27/2006 4:05:00 PM	106.993
	4/26/2006 2:04:00 PM	110.439		4/27/2006 5:45:00 PM	105.355
	4/26/2006 2:11:00 PM	110.063		4/27/2006 7:25:00 PM	105.027
	4/26/2006 2:18:00 PM	109.926		4/27/2006 9:15:00 PM	105.081
	4/26/2006 2:26:00 PM	110.183		4/27/2006 11:15:00 PM	105.114
	4/26/2006 2:35:00 PM	109.817		4/28/2006 1:15:00 AM	104.853
	4/26/2006 2:43:00 PM	110.295		4/28/2006 3:15:00 AM	104.843
	4/26/2006 2:53:00 PM	110.036		4/28/2006 5:15:00 AM	104.434
	4/26/2006 3:03:00 PM	109.938		4/28/2006 7:15:00 AM	104.494
	4/26/2006 3:13:00 PM	110.118		4/28/2006 9:15:00 AM	104.353
	4/26/2006 3:24:00 PM	110.214		4/28/2006 11:15:25 AM	104.212
	4/26/2006 3:36:00 PM	109.864		4/28/2006 1:15:25 PM	104.166
	4/26/2006 3:49:00 PM	109.743		4/28/2006 3:15:25 PM	104.032
	4/26/2006 4:02:00 PM	109.734		4/28/2006 5:15:25 PM	103.802
	4/26/2006 4:16:00 PM	110.049		4/28/2006 7:15:25 PM	103.423
	4/26/2006 4:31:00 PM	109.888		4/28/2006 9:15:25 PM	103.374
	4/26/2006 4:47:00 PM	109.567		4/28/2006 11:15:25 PM	103.237
	4/26/2006 5:03:00 PM	109.45		4/29/2006 1:15:25 AM	102.987
	4/26/2006 5:21:00 PM	109.347		4/29/2006 3:15:25 AM	102.803
	4/26/2006 5:40:00 PM	109.522		4/29/2006 5:15:25 AM	102.822
	4/26/2006 6:00:00 PM	109.453		4/29/2006 7:15:25 AM	102.87
	4/26/2006 6:21:00 PM	109.575		4/29/2006 9:15:25 AM	102.592
	4/26/2006 6:43:00 PM	109.239		4/29/2006 11:15:25 AM	102.52
	4/26/2006 7:07:00 PM	109.028		4/29/2006 1:15:25 PM	102.493
	4/26/2006 7:32:00 PM	109.228		4/29/2006 3:15:27 PM	102.434
	4/26/2006 7:58:00 PM	109.363		4/29/2006 5:15:27 PM	102.341
	4/26/2006 8:26:00 PM	109.24		4/29/2006 7:15:27 PM	102.242
	4/26/2006 8:56:00 PM	109.04		4/29/2006 9:15:27 PM	102.215
	4/26/2006 9:27:00 PM	109.061		4/29/2006 11:15:27 PM	102.08
	4/26/2006 10:01:00 PM	108.752		4/30/2006 1:15:27 AM	101.735
	4/26/2006 10:36:00 PM	108.747		4/30/2006 3:15:27 AM	101.744
	4/26/2006 11:13:00 PM	108.86		4/30/2006 5:15:27 AM	101.582
	4/26/2006 11:53:00 PM	108.513		4/30/2006 7:15:27 AM	101.624
	4/27/2006 12:35:00 AM	108.256		4/30/2006 9:15:27 AM	101.501
	4/27/2006 1:19:00 AM	108.481		4/30/2006 11:15:27 AM	101.493
	4/27/2006 2:06:00 AM	108.35		4/30/2006 1:15:27 PM	104.21
	4/27/2006 2:56:00 AM	108.252		4/30/2006 3:15:27 PM	104.129
	4/27/2006 3:49:00 AM	108.227		4/30/2006 5:15:27 PM	104.138
	4/27/2006 4:45:00 AM	108.028		4/30/2006 7:15:27 PM	103.876

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-2			**TW-2**		
TROLL			TROLL		
	4/30/2006 9:15:27 PM	103.905		5/2/2006 7:50:11 AM	105.918
	4/30/2006 11:15:27 PM	103.832		5/2/2006 7:50:11 AM	106.018
	5/1/2006 1:15:27 AM	103.737		5/2/2006 7:50:12 AM	105.923
	5/1/2006 3:15:27 AM	103.811		5/2/2006 7:50:12 AM	106.073
	5/1/2006 5:15:27 AM	103.691		5/2/2006 7:50:13 AM	105.994
	5/1/2006 7:15:27 AM	103.664		5/2/2006 7:50:14 AM	105.968
	5/1/2006 9:15:27 AM	103.636		5/2/2006 7:50:14 AM	105.916
	5/1/2006 11:15:27 AM	103.4		5/2/2006 7:50:15 AM	105.85
	5/1/2006 1:15:27 PM	103.447		5/2/2006 7:50:16 AM	106.116
	5/1/2006 3:15:27 PM	106.208		5/2/2006 7:50:16 AM	106.005
	5/1/2006 5:15:27 PM	106.133		5/2/2006 7:50:17 AM	105.933
	5/1/2006 7:15:27 PM	106.255		5/2/2006 7:50:18 AM	106.022
	5/1/2006 9:15:27 PM	106.207		5/2/2006 7:50:19 AM	106.136
	5/1/2006 11:15:27 PM	106.094		5/2/2006 7:50:20 AM	105.908
	5/2/2006 1:15:27 AM	106.05		5/2/2006 7:50:21 AM	105.952
	5/2/2006 3:15:27 AM	106.166		5/2/2006 7:50:22 AM	105.818
	5/2/2006 5:15:27 AM	106.082		5/2/2006 7:51:01 AM	106.009
	5/2/2006 7:15:27 AM	105.891		5/2/2006 7:51:02 AM	105.977
	5/2/2006 7:50:03 AM	106.026		5/2/2006 7:51:04 AM	106.005
	5/2/2006 7:50:03 AM	105.949		5/2/2006 7:51:05 AM	106.046
	5/2/2006 7:50:03 AM	105.967		5/2/2006 7:51:06 AM	105.978
	5/2/2006 7:50:04 AM	105.989		5/2/2006 7:51:08 AM	106.073
	5/2/2006 7:50:04 AM	105.895		5/2/2006 7:51:09 AM	105.98
	5/2/2006 7:50:04 AM	106.068		5/2/2006 7:51:11 AM	106.105
	5/2/2006 7:50:04 AM	105.91		5/2/2006 7:51:13 AM	106.171
	5/2/2006 7:50:05 AM	106.044		5/2/2006 7:51:15 AM	106.012
	5/2/2006 7:50:05 AM	106.03		5/2/2006 7:51:17 AM	105.998
	5/2/2006 7:50:05 AM	105.99		5/2/2006 7:51:19 AM	106.04
	5/2/2006 7:50:05 AM	105.947		5/2/2006 7:51:21 AM	106.054
	5/2/2006 7:50:06 AM	105.908		5/2/2006 7:51:23 AM	106.132
	5/2/2006 7:50:06 AM	106.093		5/2/2006 7:51:26 AM	106.067
	5/2/2006 7:50:06 AM	105.925		5/2/2006 7:51:29 AM	106.052
	5/2/2006 7:50:06 AM	105.815		5/2/2006 7:51:31 AM	105.932
	5/2/2006 7:50:07 AM	106.065		5/2/2006 7:51:34 AM	106.014
	5/2/2006 7:50:07 AM	105.984		5/2/2006 7:51:38 AM	105.985
	5/2/2006 7:50:07 AM	106.094		5/2/2006 7:51:41 AM	106.038
	5/2/2006 7:50:07 AM	105.976		5/2/2006 7:51:45 AM	105.877
	5/2/2006 7:50:08 AM	106.113		5/2/2006 7:51:48 AM	105.956
	5/2/2006 7:50:08 AM	105.963		5/2/2006 7:51:52 AM	105.939
	5/2/2006 7:50:08 AM	105.842		5/2/2006 7:51:57 AM	105.871
	5/2/2006 7:50:08 AM	105.873		5/2/2006 7:52:01 AM	105.887
	5/2/2006 7:50:09 AM	105.911		5/2/2006 7:52:06 AM	105.898
	5/2/2006 7:50:09 AM	106.059		5/2/2006 7:52:11 AM	106.123
	5/2/2006 7:50:09 AM	105.858		5/2/2006 7:52:16 AM	105.882
	5/2/2006 7:50:10 AM	105.933		5/2/2006 7:52:22 AM	105.982
	5/2/2006 7:50:10 AM	105.945		5/2/2006 7:52:28 AM	105.931
	5/2/2006 7:50:11 AM	105.97		5/2/2006 7:52:34 AM	105.952

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-2			**TW-2**		
TROLL			TROLL		
	5/2/2006 7:52:40 AM	105.834		5/2/2006 8:20:29 AM	105.846
	5/2/2006 7:52:48 AM	105.916		5/2/2006 8:22:17 AM	105.879
	5/2/2006 7:52:55 AM	106.08		5/2/2006 8:24:11 AM	105.72
	5/2/2006 7:53:03 AM	105.998		5/2/2006 8:26:11 AM	105.923
	5/2/2006 7:53:12 AM	105.942		5/2/2006 8:28:17 AM	105.864
	5/2/2006 7:53:21 AM	106.067		5/2/2006 8:30:29 AM	105.762
	5/2/2006 7:53:30 AM	105.848		5/2/2006 8:32:53 AM	105.959
	5/2/2006 7:53:40 AM	105.991		5/2/2006 8:35:23 AM	105.827
	5/2/2006 7:53:51 AM	106.042		5/2/2006 8:37:59 AM	105.958
	5/2/2006 7:54:02 AM	106.044		5/2/2006 8:40:47 AM	105.894
	5/2/2006 7:54:14 AM	105.936		5/2/2006 8:43:47 AM	105.964
	5/2/2006 7:54:27 AM	106.042		5/2/2006 8:46:53 AM	106.042
	5/2/2006 7:54:40 AM	105.987		5/2/2006 8:50:17 AM	105.978
	5/2/2006 7:54:54 AM	105.786		5/2/2006 8:53:47 AM	105.891
	5/2/2006 7:55:09 AM	105.988		5/2/2006 8:57:29 AM	105.996
	5/2/2006 7:55:25 AM	105.924		5/2/2006 9:01:29 AM	105.866
	5/2/2006 7:55:42 AM	105.846		5/2/2006 9:05:41 AM	105.959
	5/2/2006 7:56:00 AM	105.957		5/2/2006 9:10:05 AM	106.033
	5/2/2006 7:56:18 AM	106.02		5/2/2006 9:14:47 AM	106.02
	5/2/2006 7:56:39 AM	106.072		5/2/2006 9:19:47 AM	105.91
	5/2/2006 7:57:00 AM	106.041		5/2/2006 9:25:05 AM	105.973
	5/2/2006 7:57:22 AM	106.027		5/2/2006 9:30:41 AM	105.904
	5/2/2006 7:57:46 AM	105.917		5/2/2006 9:36:41 AM	105.82
	5/2/2006 7:58:11 AM	105.93		5/2/2006 9:42:41 AM	106.006
	5/2/2006 7:58:37 AM	106.079		5/2/2006 9:49:41 AM	105.855
	5/2/2006 7:59:06 AM	106.026		5/2/2006 9:56:41 AM	105.96
	5/2/2006 7:59:36 AM	106.005		5/2/2006 10:03:41 AM	105.933
	5/2/2006 8:00:07 AM	105.878		5/2/2006 10:11:41 AM	105.854
	5/2/2006 8:00:41 AM	105.933		5/2/2006 10:20:41 AM	105.96
	5/2/2006 8:01:17 AM	105.825		5/2/2006 10:28:41 AM	105.865
	5/2/2006 8:01:53 AM	105.878		5/2/2006 10:38:41 AM	105.734
	5/2/2006 8:02:35 AM	105.947		5/2/2006 10:48:41 AM	105.953
	5/2/2006 8:03:17 AM	106.014		5/2/2006 10:58:41 AM	105.976
	5/2/2006 8:03:59 AM	105.976		5/2/2006 11:09:41 AM	105.924
	5/2/2006 8:04:47 AM	105.9		5/2/2006 11:21:41 AM	105.861
	5/2/2006 8:05:41 AM	105.946		5/2/2006 11:34:41 AM	105.837
	5/2/2006 8:06:29 AM	106.063		5/2/2006 11:47:41 AM	105.928
	5/2/2006 8:07:29 AM	105.996		5/2/2006 12:01:41 PM	105.901
	5/2/2006 8:08:29 AM	105.951		5/2/2006 12:16:41 PM	105.863
	5/2/2006 8:09:29 AM	105.944		5/2/2006 12:32:41 PM	105.903
	5/2/2006 8:10:35 AM	105.966		5/2/2006 12:48:41 PM	105.988
	5/2/2006 8:11:47 AM	105.864		5/2/2006 1:06:41 PM	106.024
	5/2/2006 8:13:05 AM	106.022		5/2/2006 1:25:41 PM	105.797
	5/2/2006 8:14:23 AM	106.016		5/2/2006 1:45:41 PM	105.764
	5/2/2006 8:15:47 AM	105.975		5/2/2006 2:06:41 PM	106.01
	5/2/2006 8:17:17 AM	105.883		5/2/2006 2:28:41 PM	105.915
	5/2/2006 8:18:53 AM	105.986		5/2/2006 2:52:41 PM	105.848

Well	Date and Time	GWE (ft)
TW-2		
TROLL		
	5/2/2006 3:17:41 PM	105.758
	5/2/2006 3:43:41 PM	105.734
	5/2/2006 4:11:41 PM	105.852
	5/2/2006 4:41:41 PM	105.912
	5/2/2006 5:12:41 PM	105.694
	5/2/2006 5:46:41 PM	105.685
	5/2/2006 6:21:41 PM	105.748
	5/2/2006 6:58:41 PM	107.736
	5/2/2006 7:38:41 PM	108.474
	5/2/2006 8:20:41 PM	106.376
	5/2/2006 9:04:41 PM	106.37
	5/2/2006 9:51:41 PM	106.359
	5/2/2006 10:41:41 PM	106.198
	5/2/2006 11:34:41 PM	106.105
	5/3/2006 12:30:41 AM	106.281
	5/3/2006 1:30:41 AM	106.248
	5/3/2006 2:30:41 AM	106.263
	5/3/2006 3:40:41 AM	106.216
	5/3/2006 4:50:41 AM	106.141
	5/3/2006 6:00:41 AM	106.072
	5/3/2006 7:20:41 AM	106.328
	5/3/2006 8:50:41 AM	106.107
	5/3/2006 10:10:41 AM	106.123
	5/3/2006 11:50:41 AM	106.345
	5/3/2006 1:30:41 PM	106.18
	5/3/2006 3:10:41 PM	106.133
	5/3/2006 5:00:41 PM	106.047
	5/3/2006 7:00:41 PM	106.156
	5/3/2006 9:00:41 PM	106.134
	5/3/2006 11:00:41 PM	106.037
	5/4/2006 1:00:41 AM	105.963
	5/4/2006 3:00:41 AM	106.056
	5/4/2006 5:00:41 AM	105.934
	5/4/2006 7:00:41 AM	105.973
	5/4/2006 9:00:41 AM	106.07
	5/4/2006 11:00:41 AM	105.89
	5/4/2006 1:00:41 PM	105.904
	5/4/2006 3:00:41 PM	105.927
	5/4/2006 5:00:41 PM	105.771
	5/4/2006 7:00:41 PM	105.811
	5/4/2006 9:00:41 PM	105.912
	5/4/2006 11:00:41 PM	105.699
	5/5/2006 1:00:41 AM	105.707
	5/5/2006 3:00:41 AM	105.71
	5/5/2006 5:00:41 AM	105.76
	5/5/2006 7:00:41 AM	105.637
	5/5/2006 9:00:41 AM	105.608
TW-2		
TROLL		
	5/5/2006 11:00:41 AM	105.551
	5/5/2006 1:00:41 PM	105.614
	5/5/2006 3:00:41 PM	105.634
	5/5/2006 5:00:41 PM	105.457
	5/5/2006 7:00:41 PM	105.469
	5/5/2006 9:00:41 PM	105.435
	5/5/2006 11:00:41 PM	105.391
	5/6/2006 1:00:41 AM	105.406
	5/6/2006 3:00:41 AM	105.276
	5/6/2006 5:00:41 AM	105.323
	5/6/2006 7:00:41 AM	105.245
	5/6/2006 8:59:54 AM	105.292
	5/6/2006 10:59:54 AM	105.36
	5/6/2006 12:59:54 PM	105.219
	5/6/2006 2:59:54 PM	105.18
	5/6/2006 4:59:54 PM	105.103
	5/6/2006 6:59:54 PM	105.14
	5/6/2006 8:59:54 PM	105.074
	5/6/2006 10:59:54 PM	105.124
	5/7/2006 12:59:54 AM	105.013
	5/7/2006 2:59:54 AM	104.964
	5/7/2006 4:59:54 AM	105.083
	5/7/2006 6:59:54 AM	104.922
	5/7/2006 8:59:54 AM	104.925
	5/7/2006 10:59:54 AM	105.007
	5/7/2006 12:59:54 PM	104.939
	5/7/2006 2:59:54 PM	104.801
	5/7/2006 4:59:54 PM	104.808
	5/7/2006 6:59:54 PM	104.813
	5/7/2006 8:59:54 PM	104.883
	5/7/2006 10:59:54 PM	104.87
	5/8/2006 12:59:54 AM	104.759
	5/8/2006 2:59:54 AM	104.625
	5/8/2006 4:59:54 AM	104.604
	5/8/2006 6:59:54 AM	104.65
TROLL-rec		
	5/8/2006 1:00:00 PM	104.686
	5/8/2006 1:00:00 PM	104.651
	5/8/2006 1:00:00 PM	104.683
	5/8/2006 1:00:01 PM	104.622
	5/8/2006 1:00:01 PM	104.471
	5/8/2006 1:00:01 PM	104.584
	5/8/2006 1:00:01 PM	104.58
	5/8/2006 1:00:02 PM	104.544
	5/8/2006 1:00:02 PM	104.638
	5/8/2006 1:00:02 PM	104.627
	5/8/2006 1:00:02 PM	104.643

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-2			**TW-2**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:03 PM	104.609		5/8/2006 1:00:42 PM	104.577
	5/8/2006 1:00:03 PM	104.537		5/8/2006 1:00:45 PM	104.536
	5/8/2006 1:00:03 PM	104.483		5/8/2006 1:00:48 PM	104.595
	5/8/2006 1:00:03 PM	104.586		5/8/2006 1:00:50 PM	104.737
	5/8/2006 1:00:04 PM	104.561		5/8/2006 1:00:53 PM	104.476
	5/8/2006 1:00:04 PM	104.59		5/8/2006 1:00:57 PM	104.681
	5/8/2006 1:00:04 PM	104.587		5/8/2006 1:01:00 PM	104.719
	5/8/2006 1:00:04 PM	104.651		5/8/2006 1:01:04 PM	104.508
	5/8/2006 1:00:05 PM	104.683		5/8/2006 1:01:07 PM	104.582
	5/8/2006 1:00:05 PM	104.642		5/8/2006 1:01:11 PM	104.788
	5/8/2006 1:00:05 PM	104.602		5/8/2006 1:01:16 PM	104.657
	5/8/2006 1:00:05 PM	104.742		5/8/2006 1:01:20 PM	104.63
	5/8/2006 1:00:06 PM	104.626		5/8/2006 1:01:25 PM	104.566
	5/8/2006 1:00:06 PM	104.59		5/8/2006 1:01:30 PM	104.591
	5/8/2006 1:00:06 PM	104.677		5/8/2006 1:01:35 PM	104.534
	5/8/2006 1:00:07 PM	104.621		5/8/2006 1:01:41 PM	104.63
	5/8/2006 1:00:07 PM	104.629		5/8/2006 1:01:47 PM	104.645
	5/8/2006 1:00:08 PM	104.471		5/8/2006 1:01:53 PM	104.543
	5/8/2006 1:00:08 PM	104.625		5/8/2006 1:01:59 PM	104.547
	5/8/2006 1:00:08 PM	104.602		5/8/2006 1:02:07 PM	104.592
	5/8/2006 1:00:09 PM	104.566		5/8/2006 1:02:14 PM	104.538
	5/8/2006 1:00:09 PM	104.565		5/8/2006 1:02:22 PM	104.585
	5/8/2006 1:00:10 PM	104.626		5/8/2006 1:02:31 PM	104.597
	5/8/2006 1:00:11 PM	104.57		5/8/2006 1:02:40 PM	104.553
	5/8/2006 1:00:11 PM	104.614		5/8/2006 1:02:49 PM	104.667
	5/8/2006 1:00:12 PM	104.518		5/8/2006 1:02:59 PM	104.648
	5/8/2006 1:00:13 PM	104.63		5/8/2006 1:03:10 PM	104.493
	5/8/2006 1:00:13 PM	104.631		5/8/2006 1:03:21 PM	104.587
	5/8/2006 1:00:14 PM	104.599		5/8/2006 1:03:33 PM	104.635
	5/8/2006 1:00:15 PM	104.646		5/8/2006 1:03:46 PM	104.44
	5/8/2006 1:00:16 PM	104.542		5/8/2006 1:03:59 PM	104.586
	5/8/2006 1:00:17 PM	104.618		5/8/2006 1:04:13 PM	104.652
	5/8/2006 1:00:18 PM	104.543		5/8/2006 1:04:28 PM	104.577
	5/8/2006 1:00:19 PM	104.639		5/8/2006 1:04:44 PM	104.521
	5/8/2006 1:00:20 PM	104.632		5/8/2006 1:05:01 PM	104.535
	5/8/2006 1:00:21 PM	104.695		5/8/2006 1:05:19 PM	104.611
	5/8/2006 1:00:23 PM	104.676		5/8/2006 1:05:37 PM	104.557
	5/8/2006 1:00:24 PM	104.621		5/8/2006 1:05:58 PM	104.476
	5/8/2006 1:00:25 PM	104.606		5/8/2006 1:06:19 PM	104.491
	5/8/2006 1:00:27 PM	104.603		5/8/2006 1:06:41 PM	104.632
	5/8/2006 1:00:28 PM	104.51		5/8/2006 1:07:05 PM	104.63
	5/8/2006 1:00:30 PM	104.624		5/8/2006 1:07:30 PM	104.573
	5/8/2006 1:00:32 PM	104.778		5/8/2006 1:07:56 PM	104.598
	5/8/2006 1:00:34 PM	104.703		5/8/2006 1:08:25 PM	104.662
	5/8/2006 1:00:36 PM	104.606		5/8/2006 1:08:55 PM	104.684
	5/8/2006 1:00:38 PM	104.601		5/8/2006 1:09:26 PM	104.527
	5/8/2006 1:00:40 PM	104.644		5/8/2006 1:10:00 PM	104.653

Well	Date and Time	GWE (ft)
TW-2		
TROLL-rec		
	5/8/2006 1:10:36 PM	104.594
	5/8/2006 1:11:12 PM	104.773
	5/8/2006 1:11:54 PM	104.671
	5/8/2006 1:12:36 PM	104.618
	5/8/2006 1:13:18 PM	104.663
	5/8/2006 1:14:06 PM	104.592
	5/8/2006 1:15:00 PM	104.644
	5/8/2006 1:15:48 PM	104.52
	5/8/2006 1:16:48 PM	104.527
	5/8/2006 1:17:48 PM	104.646
	5/8/2006 1:18:48 PM	104.604
	5/8/2006 1:19:54 PM	104.507
	5/8/2006 1:21:06 PM	104.624
	5/8/2006 1:22:24 PM	109.754
	5/8/2006 1:23:42 PM	116.552
	5/8/2006 1:25:06 PM	116.614
	5/8/2006 1:26:36 PM	116.639
	5/8/2006 1:28:12 PM	116.659
	5/8/2006 1:29:48 PM	116.683
	5/8/2006 1:31:36 PM	116.7
	5/8/2006 1:33:30 PM	116.717
	5/8/2006 1:35:30 PM	116.731
	5/8/2006 1:37:36 PM	116.745
	5/8/2006 1:39:48 PM	116.759
	5/8/2006 1:42:12 PM	116.778
	5/8/2006 1:44:42 PM	116.793
	5/8/2006 1:47:18 PM	116.808
	5/8/2006 1:50:06 PM	116.823
	5/8/2006 1:53:06 PM	116.84
	5/8/2006 1:56:12 PM	116.856
	5/8/2006 1:59:36 PM	116.875
	5/8/2006 2:03:06 PM	116.89
	5/8/2006 2:06:48 PM	116.91
	5/8/2006 2:10:48 PM	116.926
	5/8/2006 2:15:00 PM	117.217
	5/8/2006 2:19:24 PM	116.972
	5/8/2006 2:24:06 PM	116.963
	5/8/2006 2:29:06 PM	116.982
	5/8/2006 2:34:24 PM	117.005
	5/8/2006 2:40:00 PM	117.024
	5/8/2006 2:46:00 PM	117.045
	5/8/2006 2:52:00 PM	117.068
	5/8/2006 2:59:00 PM	117.089
	5/8/2006 3:06:00 PM	117.117
	5/8/2006 3:13:00 PM	117.142
	5/8/2006 3:21:00 PM	117.166
	5/8/2006 3:30:00 PM	117.193
TW-2		
TROLL-rec		
	5/8/2006 3:38:00 PM	117.218
	5/8/2006 3:48:00 PM	117.243
	5/8/2006 3:58:00 PM	117.276
	5/8/2006 4:08:00 PM	117.305
	5/8/2006 4:19:00 PM	117.336
	5/8/2006 4:31:00 PM	117.366
	5/8/2006 4:44:00 PM	117.399
	5/8/2006 4:57:00 PM	117.437
	5/8/2006 5:11:00 PM	117.468
	5/8/2006 5:26:00 PM	117.509
	5/8/2006 5:42:00 PM	117.545
	5/8/2006 5:58:00 PM	117.582
	5/8/2006 6:16:00 PM	117.625
	5/8/2006 6:35:00 PM	117.669
	5/8/2006 6:55:00 PM	117.711
	5/8/2006 7:16:00 PM	117.757
	5/8/2006 7:38:00 PM	117.802
	5/8/2006 8:02:00 PM	117.855
	5/8/2006 8:27:00 PM	117.904
	5/8/2006 8:53:00 PM	117.955
	5/8/2006 9:21:00 PM	118.013
	5/8/2006 9:51:00 PM	118.064
	5/8/2006 10:22:00 PM	118.124
	5/8/2006 10:56:00 PM	118.184
	5/8/2006 11:31:00 PM	118.243
	5/9/2006 12:08:00 AM	118.305
	5/9/2006 12:48:00 AM	118.375
	5/9/2006 1:30:00 AM	118.443
	5/9/2006 2:14:00 AM	118.51
	5/9/2006 3:01:00 AM	118.578
	5/9/2006 3:51:00 AM	118.648
	5/9/2006 4:44:00 AM	118.724
	5/9/2006 5:40:00 AM	118.794
	5/9/2006 6:40:00 AM	118.875
	5/9/2006 7:40:00 AM	118.953
	5/9/2006 8:50:00 AM	119.036
	5/9/2006 10:00:00 AM	119.12
	5/9/2006 11:10:00 AM	119.202
TW-3		
Manual		
	4/26/2006 11:10:00 AM	127.55
	4/27/2006 5:55:00 PM	113.56
	4/28/2006 10:30:00 AM	112.35
	4/28/2006 2:47:00 PM	112.09
	4/29/2006 1:05:00 PM	109.94
	4/30/2006 3:58:00 PM	109.58

Well	Date and Time	GWE (ft)
TW-3		
Manual		
	4/30/2006 5:00:00 PM	109.92
	5/1/2006 7:30:00 AM	109.03
	5/1/2006 12:55:00 PM	108.88
	5/1/2006 3:40:00 PM	110.14
	5/1/2006 8:00:00 PM	109.94
	5/2/2006 8:15:00 AM	109.79
	5/2/2006 12:10:00 PM	109.72
	5/2/2006 5:45:00 PM	109.64
	5/2/2006 7:25:00 PM	111.01
	5/2/2006 9:00:00 PM	111.05
	5/3/2006 7:25:00 AM	111
	5/3/2006 1:05:00 PM	110.94
	5/3/2006 6:40:00 PM	110.87
	5/4/2006 6:15:00 PM	110.58
	5/5/2006 3:31:00 PM	110.26
	5/5/2006 6:25:00 PM	110.24
	5/6/2006 1:40:00 PM	109.94
	5/6/2006 6:34:00 PM	109.87
	5/7/2006 5:05:00 PM	109.53
	5/9/2006 10:31:00 AM	119.32
TROLL		
	4/26/2006 12:05:00 PM	127.55
	4/26/2006 12:05:00 PM	127.547
	4/26/2006 12:05:01 PM	127.545
	4/26/2006 12:05:01 PM	127.548
	4/26/2006 12:05:01 PM	127.545
	4/26/2006 12:05:01 PM	127.547
	4/26/2006 12:05:02 PM	127.547
	4/26/2006 12:05:02 PM	127.547
	4/26/2006 12:05:02 PM	127.546
	4/26/2006 12:05:02 PM	127.546
	4/26/2006 12:05:03 PM	127.546
	4/26/2006 12:05:03 PM	127.546
	4/26/2006 12:05:03 PM	127.544
	4/26/2006 12:05:03 PM	127.545
	4/26/2006 12:05:04 PM	127.545
	4/26/2006 12:05:04 PM	127.548
	4/26/2006 12:05:04 PM	127.546
	4/26/2006 12:05:04 PM	127.551
	4/26/2006 12:05:05 PM	127.549
	4/26/2006 12:05:05 PM	127.545
	4/26/2006 12:05:05 PM	127.544
	4/26/2006 12:05:05 PM	127.545
	4/26/2006 12:05:06 PM	127.547
	4/26/2006 12:05:06 PM	127.547
	4/26/2006 12:05:06 PM	127.543
	4/26/2006 12:05:06 PM	127.543

Well	Date and Time	GWE (ft)
TW-3		
TROLL		
	4/26/2006 12:05:07 PM	127.543
	4/26/2006 12:05:07 PM	127.544
	4/26/2006 12:05:08 PM	127.545
	4/26/2006 12:05:08 PM	127.544
	4/26/2006 12:05:08 PM	127.549
	4/26/2006 12:05:09 PM	127.546
	4/26/2006 12:05:09 PM	127.544
	4/26/2006 12:05:10 PM	127.545
	4/26/2006 12:05:11 PM	127.55
	4/26/2006 12:05:11 PM	127.545
	4/26/2006 12:05:12 PM	127.545
	4/26/2006 12:05:13 PM	127.548
	4/26/2006 12:05:13 PM	127.546
	4/26/2006 12:05:14 PM	127.546
	4/26/2006 12:05:15 PM	127.546
	4/26/2006 12:05:16 PM	127.543
	4/26/2006 12:05:17 PM	127.543
	4/26/2006 12:05:18 PM	127.542
	4/26/2006 12:05:19 PM	127.543
	4/26/2006 12:05:20 PM	125.129
	4/26/2006 12:05:21 PM	126.428
	4/26/2006 12:05:23 PM	124.99
	4/26/2006 12:05:24 PM	123.966
	4/26/2006 12:05:25 PM	122.939
	4/26/2006 12:05:26 PM	122.545
	4/26/2006 12:05:26 PM	122.371
	4/26/2006 12:05:27 PM	122.111
	4/26/2006 12:05:27 PM	121.927
	4/26/2006 12:05:27 PM	122.023
	4/26/2006 12:05:27 PM	121.935
	4/26/2006 12:05:28 PM	121.796
	4/26/2006 12:05:28 PM	121.657
	4/26/2006 12:05:28 PM	121.463
	4/26/2006 12:05:28 PM	121.493
	4/26/2006 12:05:29 PM	121.357
	4/26/2006 12:05:29 PM	121.289
	4/26/2006 12:05:29 PM	121.064
	4/26/2006 12:05:29 PM	121.201
	4/26/2006 12:05:30 PM	121.08
	4/26/2006 12:05:30 PM	121.069
	4/26/2006 12:05:30 PM	120.963
	4/26/2006 12:05:30 PM	120.728
	4/26/2006 12:05:31 PM	120.897
	4/26/2006 12:05:31 PM	120.857
	4/26/2006 12:05:31 PM	120.699
	4/26/2006 12:05:31 PM	120.559
	4/26/2006 12:05:32 PM	120.636

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-3			**TW-3**		
TROLL			TROLL		
	4/26/2006 12:05:32 PM	120.459		4/26/2006 12:06:51 PM	118.856
	4/26/2006 12:05:32 PM	120.491		4/26/2006 12:06:56 PM	118.699
	4/26/2006 12:05:32 PM	120.239		4/26/2006 12:07:01 PM	118.726
	4/26/2006 12:05:33 PM	120.317		4/26/2006 12:07:07 PM	118.853
	4/26/2006 12:05:33 PM	120.18		4/26/2006 12:07:13 PM	118.821
	4/26/2006 12:05:34 PM	120.185		4/26/2006 12:07:19 PM	118.841
	4/26/2006 12:05:34 PM	120.088		4/26/2006 12:07:25 PM	118.698
	4/26/2006 12:05:35 PM	120.042		4/26/2006 12:07:33 PM	118.711
	4/26/2006 12:05:35 PM	120.046		4/26/2006 12:07:40 PM	118.691
	4/26/2006 12:05:36 PM	119.915		4/26/2006 12:07:48 PM	118.753
	4/26/2006 12:05:36 PM	120.013		4/26/2006 12:07:57 PM	118.686
	4/26/2006 12:05:37 PM	119.802		4/26/2006 12:08:06 PM	118.581
	4/26/2006 12:05:37 PM	119.761		4/26/2006 12:08:15 PM	118.6
	4/26/2006 12:05:38 PM	119.681		4/26/2006 12:08:25 PM	118.664
	4/26/2006 12:05:39 PM	119.521		4/26/2006 12:08:36 PM	118.65
	4/26/2006 12:05:40 PM	119.564		4/26/2006 12:08:47 PM	118.623
	4/26/2006 12:05:40 PM	119.536		4/26/2006 12:08:59 PM	118.644
	4/26/2006 12:05:41 PM	119.44		4/26/2006 12:09:12 PM	118.679
	4/26/2006 12:05:42 PM	119.35		4/26/2006 12:09:25 PM	118.642
	4/26/2006 12:05:43 PM	119.427		4/26/2006 12:09:39 PM	118.471
	4/26/2006 12:05:44 PM	119.299		4/26/2006 12:09:54 PM	118.586
	4/26/2006 12:05:45 PM	119.386		4/26/2006 12:10:10 PM	118.656
	4/26/2006 12:05:46 PM	119.318		4/26/2006 12:10:27 PM	118.603
	4/26/2006 12:05:47 PM	119.222		4/26/2006 12:10:45 PM	118.464
	4/26/2006 12:05:49 PM	119.225		4/26/2006 12:11:03 PM	118.528
	4/26/2006 12:05:50 PM	119.226		4/26/2006 12:11:24 PM	118.547
	4/26/2006 12:05:51 PM	119.313		4/26/2006 12:11:45 PM	118.53
	4/26/2006 12:05:53 PM	119.002		4/26/2006 12:12:07 PM	118.581
	4/26/2006 12:05:54 PM	119.169		4/26/2006 12:12:31 PM	118.485
	4/26/2006 12:05:56 PM	119.035		4/26/2006 12:12:56 PM	118.433
	4/26/2006 12:05:58 PM	119.126		4/26/2006 12:13:22 PM	118.468
	4/26/2006 12:06:00 PM	119.069		4/26/2006 12:13:51 PM	118.47
	4/26/2006 12:06:02 PM	119.08		4/26/2006 12:14:21 PM	118.359
	4/26/2006 12:06:04 PM	119.062		4/26/2006 12:14:52 PM	118.389
	4/26/2006 12:06:06 PM	118.98		4/26/2006 12:15:26 PM	118.288
	4/26/2006 12:06:09 PM	118.941		4/26/2006 12:16:02 PM	118.413
	4/26/2006 12:06:11 PM	118.884		4/26/2006 12:16:38 PM	118.25
	4/26/2006 12:06:14 PM	118.993		4/26/2006 12:17:20 PM	118.202
	4/26/2006 12:06:17 PM	118.821		4/26/2006 12:18:02 PM	118.281
	4/26/2006 12:06:20 PM	118.872		4/26/2006 12:18:44 PM	118.246
	4/26/2006 12:06:23 PM	118.913		4/26/2006 12:19:32 PM	118.26
	4/26/2006 12:06:26 PM	118.953		4/26/2006 12:20:26 PM	118.229
	4/26/2006 12:06:30 PM	118.895		4/26/2006 12:21:14 PM	118.108
	4/26/2006 12:06:33 PM	118.851		4/26/2006 12:22:14 PM	118.137
	4/26/2006 12:06:37 PM	118.816		4/26/2006 12:23:14 PM	118.211
	4/26/2006 12:06:42 PM	118.731		4/26/2006 12:24:14 PM	118.06
	4/26/2006 12:06:46 PM	118.688		4/26/2006 12:25:20 PM	118.093

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-3			**TW-3**		
TROLL			TROLL		
	4/26/2006 12:26:32 PM	118.137		4/26/2006 5:21:26 PM	116.318
	4/26/2006 12:27:50 PM	118.152		4/26/2006 5:40:26 PM	116.319
	4/26/2006 12:29:08 PM	118.039		4/26/2006 6:00:26 PM	116.304
	4/26/2006 12:30:32 PM	118.035		4/26/2006 6:21:26 PM	116.066
	4/26/2006 12:32:02 PM	118.02		4/26/2006 6:43:26 PM	116.072
	4/26/2006 12:33:38 PM	117.993		4/26/2006 7:07:26 PM	116.054
	4/26/2006 12:35:14 PM	117.878		4/26/2006 7:32:26 PM	115.977
	4/26/2006 12:37:02 PM	117.872		4/26/2006 7:58:26 PM	115.919
	4/26/2006 12:38:56 PM	117.889		4/26/2006 8:26:26 PM	115.679
	4/26/2006 12:40:56 PM	117.889		4/26/2006 8:56:26 PM	115.727
	4/26/2006 12:43:02 PM	117.876		4/26/2006 9:27:26 PM	115.602
	4/26/2006 12:45:14 PM	117.867		4/26/2006 10:01:26 PM	115.636
	4/26/2006 12:47:38 PM	117.753		4/26/2006 10:36:26 PM	115.436
	4/26/2006 12:50:08 PM	117.818		4/26/2006 11:13:26 PM	115.306
	4/26/2006 12:52:44 PM	117.652		4/26/2006 11:53:26 PM	115.35
	4/26/2006 12:55:32 PM	117.701		4/27/2006 12:35:26 AM	115.278
	4/26/2006 12:58:32 PM	117.667		4/27/2006 1:19:26 AM	115.153
	4/26/2006 1:01:38 PM	117.607		4/27/2006 2:06:26 AM	115.019
	4/26/2006 1:05:02 PM	117.58		4/27/2006 2:56:26 AM	114.888
	4/26/2006 1:08:32 PM	117.515		4/27/2006 3:49:26 AM	114.847
	4/26/2006 1:12:14 PM	117.447		4/27/2006 4:45:26 AM	114.731
	4/26/2006 1:16:14 PM	117.469		4/27/2006 5:45:26 AM	114.658
	4/26/2006 1:20:26 PM	117.431		4/27/2006 6:45:26 AM	114.481
	4/26/2006 1:24:50 PM	117.399		4/27/2006 7:55:26 AM	114.464
	4/26/2006 1:29:32 PM	117.396		4/27/2006 9:05:26 AM	114.288
	4/26/2006 1:34:32 PM	117.333		4/27/2006 10:15:26 AM	114.211
	4/26/2006 1:39:50 PM	117.27		4/27/2006 11:35:26 AM	114.102
	4/26/2006 1:45:26 PM	117.34		4/27/2006 1:05:26 PM	114.159
	4/26/2006 1:51:26 PM	117.167		4/27/2006 2:25:26 PM	113.948
	4/26/2006 1:57:26 PM	117.249		4/27/2006 4:05:26 PM	113.703
	4/26/2006 2:04:26 PM	117.239		4/27/2006 5:45:26 PM	113.666
	4/26/2006 2:11:26 PM	117.243		4/27/2006 7:25:26 PM	113.454
	4/26/2006 2:18:26 PM	117.1		4/27/2006 9:15:26 PM	113.242
	4/26/2006 2:26:26 PM	116.958		4/27/2006 11:15:26 PM	113.172
	4/26/2006 2:35:26 PM	116.955		4/28/2006 1:15:26 AM	112.965
	4/26/2006 2:43:26 PM	116.869		4/28/2006 3:15:26 AM	112.798
	4/26/2006 2:53:26 PM	116.942		4/28/2006 5:15:26 AM	112.69
	4/26/2006 3:03:26 PM	116.804		4/28/2006 7:15:26 AM	112.585
	4/26/2006 3:13:26 PM	116.82		4/28/2006 9:15:26 AM	112.433
	4/26/2006 3:24:26 PM	116.846		4/28/2006 11:15:48 AM	112.305
	4/26/2006 3:36:26 PM	116.631		4/28/2006 1:15:48 PM	112.184
	4/26/2006 3:49:26 PM	116.688		4/28/2006 3:15:48 PM	112.064
	4/26/2006 4:02:26 PM	116.537		4/28/2006 5:15:48 PM	111.944
	4/26/2006 4:16:26 PM	116.484		4/28/2006 7:15:48 PM	111.726
	4/26/2006 4:31:26 PM	116.38		4/28/2006 9:15:48 PM	111.545
	4/26/2006 4:47:26 PM	116.427		4/28/2006 11:15:48 PM	111.515
	4/26/2006 5:03:26 PM	116.381		4/29/2006 1:15:48 AM	111.416

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-3			**TW-3**		
TROLL			TROLL		
	4/29/2006 3:15:48 AM	111.245		5/3/2006 1:16:29 AM	111.036
	4/29/2006 5:15:48 AM	111.175		5/3/2006 3:16:29 AM	111.059
	4/29/2006 7:15:48 AM	111.066		5/3/2006 5:16:29 AM	111.044
	4/29/2006 9:15:48 AM	110.999		5/3/2006 7:16:29 AM	111.007
	4/29/2006 11:15:48 AM	110.817		5/3/2006 9:16:39 AM	111
	4/29/2006 1:15:50 PM	110.729		5/3/2006 11:16:39 AM	110.939
	4/29/2006 3:15:50 PM	110.636		5/3/2006 1:16:39 PM	110.948
	4/29/2006 5:15:50 PM	110.551		5/3/2006 3:16:39 PM	110.925
	4/29/2006 7:15:50 PM	110.44		5/3/2006 5:16:39 PM	110.915
	4/29/2006 9:15:50 PM	110.383		5/3/2006 7:16:39 PM	110.844
	4/29/2006 11:15:50 PM	110.247		5/3/2006 9:16:39 PM	110.85
	4/30/2006 1:15:50 AM	110.152		5/3/2006 11:16:39 PM	110.801
	4/30/2006 3:15:50 AM	110.104		5/4/2006 1:16:39 AM	110.834
	4/30/2006 5:15:50 AM	110.003		5/4/2006 3:16:39 AM	110.789
	4/30/2006 7:15:50 AM	109.917		5/4/2006 5:16:39 AM	110.738
	4/30/2006 9:15:50 AM	109.819		5/4/2006 7:16:39 AM	110.738
	4/30/2006 11:15:50 AM	109.749		5/4/2006 9:16:39 AM	110.701
	4/30/2006 1:15:50 PM	109.653		5/4/2006 11:16:39 AM	110.635
	4/30/2006 3:15:50 PM	109.624		5/4/2006 1:16:39 PM	110.497
	4/30/2006 5:15:50 PM	109.537		5/4/2006 3:16:39 PM	110.621
	4/30/2006 7:15:50 PM	109.505		5/4/2006 5:16:39 PM	110.628
	4/30/2006 9:15:50 PM	109.403		5/4/2006 7:16:39 PM	110.574
	4/30/2006 11:15:50 PM	109.324		5/4/2006 9:16:39 PM	110.559
	5/1/2006 1:15:50 AM	109.229		5/4/2006 11:16:39 PM	110.545
	5/1/2006 3:15:50 AM	109.203		5/5/2006 1:16:39 AM	110.487
	5/1/2006 5:15:50 AM	109.118		5/5/2006 3:16:39 AM	110.455
	5/1/2006 7:15:50 AM	109.059		5/5/2006 5:16:39 AM	110.407
	5/1/2006 9:15:50 AM	108.982		5/5/2006 7:16:39 AM	110.425
	5/1/2006 11:15:50 AM	108.921		5/5/2006 9:16:39 AM	110.375
	5/1/2006 1:15:50 PM	108.831		5/5/2006 11:16:39 AM	110.33
	5/1/2006 3:15:50 PM	110.119		5/5/2006 1:16:39 PM	110.352
	5/1/2006 5:15:50 PM	110.148		5/5/2006 3:16:39 PM	110.285
	5/1/2006 7:15:50 PM	109.954		5/5/2006 5:16:39 PM	110.263
	5/1/2006 9:15:50 PM	109.923		5/5/2006 7:16:39 PM	110.23
	5/1/2006 11:15:50 PM	109.9		5/5/2006 9:16:39 PM	110.205
	5/2/2006 1:15:50 AM	109.898		5/5/2006 11:16:39 PM	110.197
	5/2/2006 3:15:50 AM	109.829		5/6/2006 1:16:39 AM	110.151
	5/2/2006 5:15:50 AM	109.81		5/6/2006 3:16:39 AM	110.106
	5/2/2006 7:15:50 AM	109.807		5/6/2006 5:16:39 AM	110.094
	5/2/2006 9:16:29 AM	109.779		5/6/2006 7:16:39 AM	110.026
	5/2/2006 11:16:29 AM	109.748		5/6/2006 9:16:39 AM	110.014
	5/2/2006 1:16:29 PM	109.679		5/6/2006 11:16:39 AM	109.998
	5/2/2006 3:16:29 PM	109.678		5/6/2006 1:16:39 PM	109.932
	5/2/2006 5:16:29 PM	109.641		5/6/2006 3:16:39 PM	109.945
	5/2/2006 7:16:29 PM	111.057		5/6/2006 5:16:39 PM	109.866
	5/2/2006 9:16:29 PM	111.076		5/6/2006 7:16:39 PM	109.858
	5/2/2006 11:16:29 PM	111.06		5/6/2006 9:16:39 PM	109.822

Well	Date and Time	GWE (ft)
TW-3		
TROLL		
	5/6/2006 11:16:39 PM	109.796
	5/7/2006 1:16:39 AM	109.778
	5/7/2006 3:16:39 AM	109.729
	5/7/2006 5:16:39 AM	109.696
	5/7/2006 7:16:39 AM	109.667
	5/7/2006 9:16:39 AM	109.686
	5/7/2006 11:16:39 AM	109.623
	5/7/2006 1:16:39 PM	109.577
	5/7/2006 3:16:39 PM	109.532
	5/7/2006 5:16:39 PM	109.534
	5/7/2006 7:16:39 PM	109.485
	5/7/2006 9:16:39 PM	109.48
	5/7/2006 11:16:39 PM	109.46
	5/8/2006 1:16:39 AM	109.457
	5/8/2006 3:16:39 AM	109.437
	5/8/2006 5:16:39 AM	109.407
	5/8/2006 7:16:39 AM	109.34
TROLL-rec		
	5/8/2006 1:00:00 PM	109.305
	5/8/2006 1:00:00 PM	109.294
	5/8/2006 1:00:00 PM	109.264
	5/8/2006 1:00:01 PM	109.291
	5/8/2006 1:00:01 PM	109.294
	5/8/2006 1:00:01 PM	109.286
	5/8/2006 1:00:01 PM	109.295
	5/8/2006 1:00:02 PM	109.307
	5/8/2006 1:00:02 PM	109.282
	5/8/2006 1:00:02 PM	109.273
	5/8/2006 1:00:02 PM	109.277
	5/8/2006 1:00:03 PM	109.304
	5/8/2006 1:00:03 PM	109.271
	5/8/2006 1:00:03 PM	109.293
	5/8/2006 1:00:03 PM	109.26
	5/8/2006 1:00:04 PM	109.274
	5/8/2006 1:00:04 PM	109.295
	5/8/2006 1:00:04 PM	109.256
	5/8/2006 1:00:04 PM	109.275
	5/8/2006 1:00:05 PM	109.273
	5/8/2006 1:00:05 PM	109.267
	5/8/2006 1:00:05 PM	109.283
	5/8/2006 1:00:05 PM	109.29
	5/8/2006 1:00:06 PM	109.289
	5/8/2006 1:00:06 PM	109.293
	5/8/2006 1:00:06 PM	109.27
	5/8/2006 1:00:07 PM	109.284
	5/8/2006 1:00:07 PM	109.302
	5/8/2006 1:00:08 PM	109.282

Well	Date and Time	GWE (ft)
TW-3		
TROLL-rec		
	5/8/2006 1:00:08 PM	109.277
	5/8/2006 1:00:08 PM	109.287
	5/8/2006 1:00:09 PM	109.292
	5/8/2006 1:00:09 PM	109.264
	5/8/2006 1:00:10 PM	109.289
	5/8/2006 1:00:11 PM	109.282
	5/8/2006 1:00:11 PM	109.279
	5/8/2006 1:00:12 PM	109.279
	5/8/2006 1:00:13 PM	109.297
	5/8/2006 1:00:13 PM	109.256
	5/8/2006 1:00:14 PM	109.292
	5/8/2006 1:00:15 PM	109.288
	5/8/2006 1:00:16 PM	109.272
	5/8/2006 1:00:17 PM	109.28
	5/8/2006 1:00:18 PM	109.256
	5/8/2006 1:00:19 PM	109.294
	5/8/2006 1:00:20 PM	109.293
	5/8/2006 1:00:21 PM	109.278
	5/8/2006 1:00:23 PM	109.285
	5/8/2006 1:00:24 PM	109.294
	5/8/2006 1:00:25 PM	109.287
	5/8/2006 1:00:27 PM	109.26
	5/8/2006 1:00:28 PM	109.286
	5/8/2006 1:00:30 PM	109.28
	5/8/2006 1:00:32 PM	109.304
	5/8/2006 1:00:34 PM	109.271
	5/8/2006 1:00:36 PM	109.257
	5/8/2006 1:00:38 PM	109.28
	5/8/2006 1:00:40 PM	109.288
	5/8/2006 1:00:42 PM	109.293
	5/8/2006 1:00:45 PM	109.281
	5/8/2006 1:00:48 PM	109.277
	5/8/2006 1:00:50 PM	109.295
	5/8/2006 1:00:53 PM	109.301
	5/8/2006 1:00:57 PM	109.294
	5/8/2006 1:01:00 PM	109.288
	5/8/2006 1:01:04 PM	109.281
	5/8/2006 1:01:07 PM	109.292
	5/8/2006 1:01:11 PM	109.281
	5/8/2006 1:01:16 PM	109.277
	5/8/2006 1:01:20 PM	109.279
	5/8/2006 1:01:25 PM	109.263
	5/8/2006 1:01:30 PM	109.271
	5/8/2006 1:01:35 PM	109.27
	5/8/2006 1:01:41 PM	109.266
	5/8/2006 1:01:47 PM	109.252
	5/8/2006 1:01:53 PM	109.27

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-3			**TW-3**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:01:59 PM	109.273		5/8/2006 1:29:48 PM	115.747
	5/8/2006 1:02:07 PM	109.278		5/8/2006 1:31:36 PM	115.788
	5/8/2006 1:02:14 PM	109.254		5/8/2006 1:33:30 PM	115.827
	5/8/2006 1:02:22 PM	109.271		5/8/2006 1:35:30 PM	115.864
	5/8/2006 1:02:31 PM	109.25		5/8/2006 1:37:36 PM	115.896
	5/8/2006 1:02:40 PM	109.273		5/8/2006 1:39:48 PM	115.932
	5/8/2006 1:02:49 PM	109.281		5/8/2006 1:42:12 PM	115.964
	5/8/2006 1:02:59 PM	109.251		5/8/2006 1:44:42 PM	115.997
	5/8/2006 1:03:10 PM	109.286		5/8/2006 1:47:18 PM	116.027
	5/8/2006 1:03:21 PM	109.274		5/8/2006 1:50:06 PM	116.059
	5/8/2006 1:03:33 PM	109.267		5/8/2006 1:53:06 PM	116.089
	5/8/2006 1:03:46 PM	109.274		5/8/2006 1:56:12 PM	116.122
	5/8/2006 1:03:59 PM	109.251		5/8/2006 1:59:36 PM	116.153
	5/8/2006 1:04:13 PM	109.262		5/8/2006 2:03:06 PM	116.184
	5/8/2006 1:04:28 PM	109.266		5/8/2006 2:06:48 PM	116.219
	5/8/2006 1:04:44 PM	109.304		5/8/2006 2:10:48 PM	116.251
	5/8/2006 1:05:01 PM	109.253		5/8/2006 2:15:00 PM	116.281
	5/8/2006 1:05:19 PM	109.278		5/8/2006 2:19:24 PM	116.318
	5/8/2006 1:05:37 PM	109.275		5/8/2006 2:24:06 PM	116.349
	5/8/2006 1:05:58 PM	109.273		5/8/2006 2:29:06 PM	116.388
	5/8/2006 1:06:19 PM	109.289		5/8/2006 2:34:24 PM	116.42
	5/8/2006 1:06:41 PM	109.267		5/8/2006 2:40:00 PM	116.458
	5/8/2006 1:07:05 PM	109.284		5/8/2006 2:46:00 PM	116.495
	5/8/2006 1:07:30 PM	109.292		5/8/2006 2:52:00 PM	116.534
	5/8/2006 1:07:56 PM	109.264		5/8/2006 2:59:00 PM	116.572
	5/8/2006 1:08:25 PM	109.273		5/8/2006 3:06:00 PM	116.616
	5/8/2006 1:08:55 PM	109.296		5/8/2006 3:13:00 PM	116.656
	5/8/2006 1:09:26 PM	109.268		5/8/2006 3:21:00 PM	116.695
	5/8/2006 1:10:00 PM	109.286		5/8/2006 3:30:00 PM	116.744
	5/8/2006 1:10:36 PM	109.294		5/8/2006 3:38:00 PM	116.785
	5/8/2006 1:11:12 PM	109.278		5/8/2006 3:48:00 PM	116.835
	5/8/2006 1:11:54 PM	109.282		5/8/2006 3:58:00 PM	116.882
	5/8/2006 1:12:36 PM	109.278		5/8/2006 4:08:00 PM	116.928
	5/8/2006 1:13:18 PM	109.287		5/8/2006 4:19:00 PM	116.981
	5/8/2006 1:14:06 PM	109.289		5/8/2006 4:31:00 PM	117.031
	5/8/2006 1:15:00 PM	109.283		5/8/2006 4:44:00 PM	117.087
	5/8/2006 1:15:48 PM	109.268		5/8/2006 4:57:00 PM	117.14
	5/8/2006 1:16:48 PM	109.273		5/8/2006 5:11:00 PM	117.195
	5/8/2006 1:17:48 PM	109.288		5/8/2006 5:26:00 PM	117.253
	5/8/2006 1:18:48 PM	109.281		5/8/2006 5:42:00 PM	117.31
	5/8/2006 1:19:54 PM	109.262		5/8/2006 5:58:00 PM	117.369
	5/8/2006 1:21:06 PM	109.291		5/8/2006 6:16:00 PM	117.432
	5/8/2006 1:22:24 PM	113.703		5/8/2006 6:35:00 PM	117.494
	5/8/2006 1:23:42 PM	115.514		5/8/2006 6:55:00 PM	117.557
	5/8/2006 1:25:06 PM	115.597		5/8/2006 7:16:00 PM	117.621
	5/8/2006 1:26:36 PM	115.653		5/8/2006 7:38:00 PM	117.687
	5/8/2006 1:28:12 PM	115.704		5/8/2006 8:02:00 PM	117.757

Well	Date and Time	GWE (ft)
TW-3		
TROLL-rec		
	5/8/2006 8:27:00 PM	117.825
	5/8/2006 8:53:00 PM	117.896
	5/8/2006 9:21:00 PM	117.965
	5/8/2006 9:51:00 PM	118.041
	5/8/2006 10:22:00 PM	118.113
	5/8/2006 10:56:00 PM	118.19
	5/8/2006 11:31:00 PM	118.265
	5/9/2006 12:08:00 AM	118.344
	5/9/2006 12:48:00 AM	118.423
	5/9/2006 1:30:00 AM	118.503
	5/9/2006 2:14:00 AM	118.581
	5/9/2006 3:01:00 AM	118.662
	5/9/2006 3:51:00 AM	118.748
	5/9/2006 4:44:00 AM	118.833
	5/9/2006 5:40:00 AM	118.916
	5/9/2006 6:40:00 AM	119.004
	5/9/2006 7:40:00 AM	119.089
	5/9/2006 8:50:00 AM	119.181
	5/9/2006 10:00:00 AM	119.27
	5/9/2006 11:10:00 AM	119.35
	5/9/2006 11:44:24 AM	119.398
	5/9/2006 11:44:24 AM	119.396
	5/9/2006 11:44:24 AM	119.394
	5/9/2006 11:44:24 AM	119.391
	5/9/2006 11:44:25 AM	119.39
	5/9/2006 11:44:25 AM	119.393
	5/9/2006 11:44:25 AM	119.392
	5/9/2006 11:44:25 AM	119.39
	5/9/2006 11:44:26 AM	119.395
	5/9/2006 11:44:26 AM	119.392
	5/9/2006 11:44:26 AM	119.392
	5/9/2006 11:44:26 AM	119.391
	5/9/2006 11:44:27 AM	119.389
	5/9/2006 11:44:27 AM	119.39
	5/9/2006 11:44:27 AM	119.389
	5/9/2006 11:44:27 AM	119.391
	5/9/2006 11:44:28 AM	119.391
	5/9/2006 11:44:28 AM	119.391
	5/9/2006 11:44:28 AM	119.389
	5/9/2006 11:44:28 AM	119.389
	5/9/2006 11:44:29 AM	119.39
	5/9/2006 11:44:29 AM	119.39
	5/9/2006 11:44:29 AM	119.391
	5/9/2006 11:44:29 AM	119.39
	5/9/2006 11:44:30 AM	119.392
	5/9/2006 11:44:30 AM	119.391
	5/9/2006 11:44:30 AM	119.391

Well	Date and Time	GWE (ft)
TW-3		
TROLL-rec		
	5/9/2006 11:44:31 AM	119.391
	5/9/2006 11:44:31 AM	119.391
	5/9/2006 11:44:32 AM	119.391
	5/9/2006 11:44:32 AM	119.392
	5/9/2006 11:44:33 AM	119.392
	5/9/2006 11:44:33 AM	119.389
	5/9/2006 11:44:34 AM	119.389
TW-4		
Manual		
	4/26/2006 10:50:00 AM	126.96
	4/27/2006 5:18:00 PM	112.27
	4/28/2006 10:32:00 AM	111.34
	4/28/2006 3:25:00 PM	111.12
	4/29/2006 12:31:00 PM	110.16
	4/30/2006 7:05:00 AM	109.51
	4/30/2006 4:30:00 PM	109.19
	5/1/2006 8:31:00 AM	108.76
	5/1/2006 12:17:00 PM	108.67
	5/1/2006 3:30:00 PM	110.5
	5/1/2006 8:05:00 PM	110.6
	5/2/2006 8:19:00 AM	110.65
	5/2/2006 12:19:00 PM	110.65
	5/2/2006 5:48:00 PM	110.62
	5/2/2006 7:30:00 PM	110.63
	5/2/2006 9:02:00 PM	110.64
	5/3/2006 7:35:00 AM	110.62
	5/3/2006 1:30:00 PM	110.56
	5/3/2006 6:50:00 PM	110.52
	5/4/2006 6:19:00 PM	110.3
	5/5/2006 3:35:00 PM	110.06
	5/5/2006 6:29:00 PM	110.02
	5/6/2006 2:30:00 PM	109.72
	5/6/2006 6:30:00 PM	109.73
	5/7/2006 6:08:00 PM	109.47
	5/9/2006 11:16:00 AM	120.07
TROLL		
	4/26/2006 12:05:00 PM	126.96
	4/26/2006 12:05:00 PM	126.959
	4/26/2006 12:05:00 PM	126.958
	4/26/2006 12:05:01 PM	126.961
	4/26/2006 12:05:01 PM	126.966
	4/26/2006 12:05:01 PM	126.959
	4/26/2006 12:05:01 PM	126.959
	4/26/2006 12:05:02 PM	126.963
	4/26/2006 12:05:02 PM	126.961
	4/26/2006 12:05:02 PM	126.958

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-4			**TW-4**		
TROLL			TROLL		
	4/26/2006 12:05:02 PM	126.961		4/26/2006 12:05:40 PM	117.734
	4/26/2006 12:05:03 PM	126.956		4/26/2006 12:05:42 PM	118.216
	4/26/2006 12:05:03 PM	126.956		4/26/2006 12:05:45 PM	117.489
	4/26/2006 12:05:03 PM	126.96		4/26/2006 12:05:48 PM	117.544
	4/26/2006 12:05:03 PM	126.959		4/26/2006 12:05:50 PM	117.432
	4/26/2006 12:05:04 PM	126.958		4/26/2006 12:05:53 PM	117.423
	4/26/2006 12:05:04 PM	126.96		4/26/2006 12:05:57 PM	117.089
	4/26/2006 12:05:04 PM	126.959		4/26/2006 12:06:00 PM	116.95
	4/26/2006 12:05:04 PM	126.958		4/26/2006 12:06:04 PM	117.264
	4/26/2006 12:05:05 PM	126.958		4/26/2006 12:06:07 PM	117.001
	4/26/2006 12:05:05 PM	126.963		4/26/2006 12:06:11 PM	117.147
	4/26/2006 12:05:05 PM	126.958		4/26/2006 12:06:16 PM	116.872
	4/26/2006 12:05:05 PM	126.957		4/26/2006 12:06:20 PM	116.89
	4/26/2006 12:05:06 PM	126.957		4/26/2006 12:06:25 PM	116.799
	4/26/2006 12:05:06 PM	126.957		4/26/2006 12:06:30 PM	116.491
	4/26/2006 12:05:06 PM	126.957		4/26/2006 12:06:35 PM	116.418
	4/26/2006 12:05:07 PM	126.956		4/26/2006 12:06:41 PM	116.729
	4/26/2006 12:05:07 PM	126.958		4/26/2006 12:06:47 PM	116.656
	4/26/2006 12:05:08 PM	126.959		4/26/2006 12:06:53 PM	116.43
	4/26/2006 12:05:08 PM	126.959		4/26/2006 12:06:59 PM	116.801
	4/26/2006 12:05:08 PM	126.958		4/26/2006 12:07:07 PM	116.105
	4/26/2006 12:05:09 PM	126.961		4/26/2006 12:07:14 PM	116.43
	4/26/2006 12:05:09 PM	126.961		4/26/2006 12:07:22 PM	116.077
	4/26/2006 12:05:10 PM	126.962		4/26/2006 12:07:31 PM	116.253
	4/26/2006 12:05:11 PM	126.955		4/26/2006 12:07:40 PM	116.337
	4/26/2006 12:05:11 PM	126.957		4/26/2006 12:07:49 PM	116.384
	4/26/2006 12:05:12 PM	126.254		4/26/2006 12:07:59 PM	116.229
	4/26/2006 12:05:13 PM	127.314		4/26/2006 12:08:10 PM	116.378
	4/26/2006 12:05:13 PM	124.106		4/26/2006 12:08:21 PM	116.285
	4/26/2006 12:05:14 PM	123.312		4/26/2006 12:08:33 PM	116.356
	4/26/2006 12:05:15 PM	122.372		4/26/2006 12:08:46 PM	116.318
	4/26/2006 12:05:16 PM	122.18		4/26/2006 12:08:59 PM	116.133
	4/26/2006 12:05:17 PM	121.496		4/26/2006 12:09:13 PM	116.131
	4/26/2006 12:05:18 PM	121.004		4/26/2006 12:09:28 PM	116.552
	4/26/2006 12:05:19 PM	120.93		4/26/2006 12:09:44 PM	116.188
	4/26/2006 12:05:20 PM	120.627		4/26/2006 12:10:01 PM	116.352
	4/26/2006 12:05:21 PM	120.05		4/26/2006 12:10:19 PM	116.274
	4/26/2006 12:05:23 PM	119.913		4/26/2006 12:10:37 PM	116.175
	4/26/2006 12:05:24 PM	119.641		4/26/2006 12:10:58 PM	116.19
	4/26/2006 12:05:25 PM	119.54		4/26/2006 12:11:19 PM	116.374
	4/26/2006 12:05:27 PM	118.924		4/26/2006 12:11:41 PM	116.597
	4/26/2006 12:05:28 PM	118.909		4/26/2006 12:12:05 PM	116.281
	4/26/2006 12:05:30 PM	118.908		4/26/2006 12:12:30 PM	116.118
	4/26/2006 12:05:32 PM	118.352		4/26/2006 12:12:56 PM	116.411
	4/26/2006 12:05:34 PM	118.645		4/26/2006 12:13:25 PM	116.284
	4/26/2006 12:05:36 PM	118.023		4/26/2006 12:13:55 PM	116.307
	4/26/2006 12:05:38 PM	118.111		4/26/2006 12:14:26 PM	116.149

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-4			**TW-4**		
TROLL			TROLL		
	4/26/2006 12:15:00 PM	116.161		4/26/2006 2:35:00 PM	114.804
	4/26/2006 12:15:36 PM	116.289		4/26/2006 2:43:00 PM	114.724
	4/26/2006 12:16:12 PM	116.093		4/26/2006 2:53:00 PM	114.626
	4/26/2006 12:16:54 PM	116.111		4/26/2006 3:03:00 PM	114.911
	4/26/2006 12:17:36 PM	116.497		4/26/2006 3:13:00 PM	114.922
	4/26/2006 12:18:18 PM	115.908		4/26/2006 3:24:00 PM	114.54
	4/26/2006 12:19:06 PM	115.996		4/26/2006 3:36:00 PM	114.558
	4/26/2006 12:20:00 PM	116.136		4/26/2006 3:49:00 PM	114.701
	4/26/2006 12:20:48 PM	116.378		4/26/2006 4:02:00 PM	114.783
	4/26/2006 12:21:48 PM	115.923		4/26/2006 4:16:00 PM	114.483
	4/26/2006 12:22:48 PM	115.876		4/26/2006 4:31:00 PM	114.48
	4/26/2006 12:23:48 PM	116.291		4/26/2006 4:47:00 PM	114.874
	4/26/2006 12:24:54 PM	116.252		4/26/2006 5:03:00 PM	114.334
	4/26/2006 12:26:06 PM	115.872		4/26/2006 5:21:00 PM	114.284
	4/26/2006 12:27:24 PM	115.918		4/26/2006 5:40:00 PM	114.107
	4/26/2006 12:28:42 PM	115.877		4/26/2006 6:00:00 PM	114.112
	4/26/2006 12:30:06 PM	115.979		4/26/2006 6:21:00 PM	114.357
	4/26/2006 12:31:36 PM	115.786		4/26/2006 6:43:00 PM	114.239
	4/26/2006 12:33:12 PM	115.86		4/26/2006 7:07:00 PM	114.298
	4/26/2006 12:34:48 PM	115.905		4/26/2006 7:32:00 PM	114.129
	4/26/2006 12:36:36 PM	115.721		4/26/2006 7:58:00 PM	114.007
	4/26/2006 12:38:30 PM	115.735		4/26/2006 8:26:00 PM	114.352
	4/26/2006 12:40:30 PM	115.838		4/26/2006 8:56:00 PM	113.936
	4/26/2006 12:42:36 PM	115.927		4/26/2006 9:27:00 PM	113.721
	4/26/2006 12:44:48 PM	115.874		4/26/2006 10:01:00 PM	113.765
	4/26/2006 12:47:12 PM	115.835		4/26/2006 10:36:00 PM	113.878
	4/26/2006 12:49:42 PM	116		4/26/2006 11:13:00 PM	113.554
	4/26/2006 12:52:18 PM	115.899		4/26/2006 11:53:00 PM	113.655
	4/26/2006 12:55:06 PM	115.632		4/27/2006 12:35:00 AM	113.524
	4/26/2006 12:58:06 PM	115.271		4/27/2006 1:19:00 AM	113.7
	4/26/2006 1:01:12 PM	115.356		4/27/2006 2:06:00 AM	113.276
	4/26/2006 1:04:36 PM	115.11		4/27/2006 2:56:00 AM	113.369
	4/26/2006 1:08:06 PM	115.314		4/27/2006 3:49:00 AM	113.407
	4/26/2006 1:11:48 PM	115.224		4/27/2006 4:45:00 AM	113.182
	4/26/2006 1:15:48 PM	115.275		4/27/2006 5:45:00 AM	113.267
	4/26/2006 1:20:00 PM	115.055		4/27/2006 6:45:00 AM	112.924
	4/26/2006 1:24:24 PM	115.321		4/27/2006 7:55:00 AM	113.101
	4/26/2006 1:29:06 PM	115.309		4/27/2006 9:05:00 AM	113.033
	4/26/2006 1:34:06 PM	115.038		4/27/2006 10:15:00 AM	112.807
	4/26/2006 1:39:24 PM	114.986		4/27/2006 11:35:00 AM	112.676
	4/26/2006 1:45:00 PM	114.899		4/27/2006 1:05:00 PM	122.765
	4/26/2006 1:51:00 PM	115.233		4/27/2006 2:25:00 PM	112.573
	4/26/2006 1:57:00 PM	115.158		4/27/2006 4:05:00 PM	112.514
	4/26/2006 2:04:00 PM	115.01		4/27/2006 5:45:00 PM	112.089
	4/26/2006 2:11:00 PM	115.002		4/27/2006 7:25:00 PM	112.149
	4/26/2006 2:18:00 PM	114.819		4/27/2006 9:15:00 PM	111.964
	4/26/2006 2:26:00 PM	115.125		4/27/2006 11:15:00 PM	112.019

Well	Date and Time	GWE (ft)
TW-4		
TROLL		
	4/28/2006 1:15:00 AM	111.91
	4/28/2006 3:15:00 AM	111.73
	4/28/2006 5:15:00 AM	111.737
	4/28/2006 7:15:00 AM	111.749
	4/28/2006 9:15:00 AM	111.259
	4/28/2006 11:15:00 AM	111.298
	4/28/2006 1:15:21 PM	111.36
	4/28/2006 3:15:21 PM	111.116
	4/28/2006 5:15:21 PM	111.164
	4/28/2006 7:15:21 PM	110.766
	4/28/2006 9:15:21 PM	111.041
	4/28/2006 11:15:21 PM	110.881
	4/29/2006 1:15:21 AM	110.928
	4/29/2006 3:15:21 AM	110.614
	4/29/2006 5:15:21 AM	110.662
	4/29/2006 7:15:21 AM	110.502
	4/29/2006 9:15:21 AM	110.441
	4/29/2006 11:15:21 AM	110.152
	4/29/2006 1:15:21 PM	110.185
	4/29/2006 3:15:23 PM	109.869
	4/29/2006 5:15:23 PM	109.845
	4/29/2006 7:15:23 PM	110.03
	4/29/2006 9:15:23 PM	109.682
	4/29/2006 11:15:23 PM	109.284
	4/30/2006 1:15:23 AM	109.822
	4/30/2006 3:15:23 AM	109.735
	4/30/2006 5:15:23 AM	109.579
	4/30/2006 7:15:23 AM	109.353
	4/30/2006 9:15:23 AM	109.305
	4/30/2006 11:15:23 AM	109.454
	4/30/2006 1:15:23 PM	109.257
	4/30/2006 3:15:23 PM	109.318
	4/30/2006 5:15:23 PM	108.961
	4/30/2006 7:15:23 PM	109.179
	4/30/2006 9:15:23 PM	109.092
	4/30/2006 11:15:23 PM	108.922
	5/1/2006 1:15:23 AM	109.168
	5/1/2006 3:15:23 AM	108.974
	5/1/2006 5:15:23 AM	108.916
	5/1/2006 7:15:23 AM	108.504
	5/1/2006 9:15:23 AM	108.893
	5/1/2006 11:15:23 AM	108.693
	5/1/2006 1:15:23 PM	108.615
	5/1/2006 3:15:23 PM	110.456
	5/1/2006 5:15:23 PM	110.372
	5/1/2006 7:15:23 PM	110.49
	5/1/2006 9:15:23 PM	110.615

Well	Date and Time	GWE (ft)
TW-4		
TROLL		
	5/1/2006 11:15:23 PM	110.976
	5/2/2006 1:15:23 AM	110.569
	5/2/2006 3:15:23 AM	110.438
	5/2/2006 5:15:23 AM	110.774
	5/2/2006 7:15:23 AM	110.979
	5/2/2006 9:15:23 AM	110.979
	5/2/2006 11:15:23 AM	110.51
	5/2/2006 1:15:23 PM	110.585
	5/2/2006 3:15:23 PM	110.484
	5/2/2006 5:15:23 PM	110.525
	5/2/2006 7:15:23 PM	110.594
	5/2/2006 9:15:23 PM	110.948
	5/2/2006 11:15:23 PM	110.585
	5/3/2006 1:15:23 AM	110.441
	5/3/2006 3:15:23 AM	110.84
	5/3/2006 5:15:23 AM	110.728
	5/3/2006 7:15:23 AM	110.719
	5/6/2006 8:28:17 AM	109.753
	5/6/2006 10:28:17 AM	109.784
	5/6/2006 12:28:17 PM	109.846
	5/6/2006 2:28:17 PM	109.864
	5/6/2006 4:28:17 PM	109.693
	5/6/2006 6:28:17 PM	109.677
	5/6/2006 8:28:17 PM	109.718
	5/6/2006 10:28:17 PM	109.542
	5/7/2006 12:28:17 AM	109.484
	5/7/2006 2:28:17 AM	109.808
	5/7/2006 4:28:17 AM	109.759
	5/7/2006 6:28:17 AM	109.817
	5/7/2006 8:28:17 AM	109.52
	5/7/2006 10:28:17 AM	109.608
	5/7/2006 12:28:17 PM	109.181
	5/7/2006 2:28:17 PM	109.535
	5/7/2006 4:28:17 PM	109.595
	5/7/2006 6:28:17 PM	109.589
	5/7/2006 8:28:17 PM	109.49
	5/7/2006 10:28:17 PM	109.084
	5/8/2006 12:28:17 AM	109.361
	5/8/2006 2:28:17 AM	109.301
	5/8/2006 4:28:17 AM	109.143
	5/8/2006 6:28:17 AM	109.396
TROLL-rec		
	5/8/2006 1:00:00 PM	109.175
	5/8/2006 1:00:00 PM	109.497
	5/8/2006 1:00:00 PM	109.205
	5/8/2006 1:00:01 PM	109.271
	5/8/2006 1:00:01 PM	109.417

Well	Date and Time	GWE (ft)	Well	Date and Time	GWE (ft)
TW-4			**TW-4**		
TROLL-rec			TROLL-rec		
	5/8/2006 1:00:01 PM	109.446		5/8/2006 1:00:30 PM	109.232
	5/8/2006 1:00:01 PM	108.871		5/8/2006 1:00:32 PM	109.219
	5/8/2006 1:00:02 PM	109.252		5/8/2006 1:00:34 PM	109.169
	5/8/2006 1:00:02 PM	109.162		5/8/2006 1:00:36 PM	109.218
	5/8/2006 1:00:02 PM	109.234		5/8/2006 1:00:38 PM	109.255
	5/8/2006 1:00:02 PM	109.232		5/8/2006 1:00:40 PM	109.163
	5/8/2006 1:00:03 PM	109.273		5/8/2006 1:00:42 PM	109.159
	5/8/2006 1:00:03 PM	109.155		5/8/2006 1:00:45 PM	109.312
	5/8/2006 1:00:03 PM	109.249		5/8/2006 1:00:48 PM	109.293
	5/8/2006 1:00:03 PM	109.313		5/8/2006 1:00:50 PM	109
	5/8/2006 1:00:04 PM	109.066		5/8/2006 1:00:53 PM	109.449
	5/8/2006 1:00:04 PM	109.621		5/8/2006 1:00:57 PM	109.288
	5/8/2006 1:00:04 PM	109.228		5/8/2006 1:01:00 PM	109.193
	5/8/2006 1:00:04 PM	109.337		5/8/2006 1:01:04 PM	109.402
	5/8/2006 1:00:05 PM	109.516		5/8/2006 1:01:07 PM	109.314
	5/8/2006 1:00:05 PM	109.295		5/8/2006 1:01:11 PM	109.32
	5/8/2006 1:00:05 PM	109.221		5/8/2006 1:01:16 PM	109.095
	5/8/2006 1:00:05 PM	109.159		5/8/2006 1:01:20 PM	109.115
	5/8/2006 1:00:06 PM	109.353		5/8/2006 1:01:25 PM	109.29
	5/8/2006 1:00:06 PM	109.307		5/8/2006 1:01:30 PM	109.032
	5/8/2006 1:00:06 PM	109.223		5/8/2006 1:01:35 PM	109.338
	5/8/2006 1:00:07 PM	109.241		5/8/2006 1:01:41 PM	109.094
	5/8/2006 1:00:07 PM	108.961		5/8/2006 1:01:47 PM	109.173
	5/8/2006 1:00:08 PM	109.141		5/8/2006 1:01:53 PM	109.292
	5/8/2006 1:00:08 PM	109.141		5/8/2006 1:01:59 PM	109.3
	5/8/2006 1:00:08 PM	109.374		5/8/2006 1:02:07 PM	109.261
	5/8/2006 1:00:09 PM	109.205		5/8/2006 1:02:14 PM	109.446
	5/8/2006 1:00:09 PM	109.246		5/8/2006 1:02:22 PM	109.309
	5/8/2006 1:00:10 PM	109.128		5/8/2006 1:02:31 PM	109.25
	5/8/2006 1:00:11 PM	109.262		5/8/2006 1:02:40 PM	109.415
	5/8/2006 1:00:11 PM	109.25		5/8/2006 1:02:49 PM	109.042
	5/8/2006 1:00:12 PM	108.996		5/8/2006 1:02:59 PM	109.256
	5/8/2006 1:00:13 PM	108.999		5/8/2006 1:03:10 PM	109.328
	5/8/2006 1:00:13 PM	109.442		5/8/2006 1:03:21 PM	109.041
	5/8/2006 1:00:14 PM	109.01		5/8/2006 1:03:33 PM	109.084
	5/8/2006 1:00:15 PM	109.101		5/8/2006 1:03:46 PM	109.341
	5/8/2006 1:00:16 PM	108.972		5/8/2006 1:03:59 PM	109.215
	5/8/2006 1:00:17 PM	109.037		5/8/2006 1:04:13 PM	109.382
	5/8/2006 1:00:18 PM	108.929		5/8/2006 1:04:28 PM	109.175
	5/8/2006 1:00:19 PM	108.888		5/8/2006 1:04:44 PM	109.234
	5/8/2006 1:00:20 PM	109.469		5/8/2006 1:05:01 PM	109.016
	5/8/2006 1:00:21 PM	109.005		5/8/2006 1:05:19 PM	109.552
	5/8/2006 1:00:23 PM	109.203		5/8/2006 1:05:37 PM	109.153
	5/8/2006 1:00:24 PM	109.226		5/8/2006 1:05:58 PM	109.537
	5/8/2006 1:00:25 PM	109.282		5/8/2006 1:06:19 PM	109.329
	5/8/2006 1:00:27 PM	109.119		5/8/2006 1:06:41 PM	109.47
	5/8/2006 1:00:28 PM	109.174		5/8/2006 1:07:05 PM	109.437

Well	Date and Time	GWE (ft)
TW-4		
TROLL-rec		
	5/8/2006 1:07:30 PM	109.136
	5/8/2006 1:07:56 PM	109.085
	5/8/2006 1:08:25 PM	109.131
	5/8/2006 1:08:55 PM	109.349
	5/8/2006 1:09:26 PM	109.376
	5/8/2006 1:10:00 PM	109.453
	5/8/2006 1:10:36 PM	108.798
	5/8/2006 1:11:12 PM	109.268
	5/8/2006 1:11:54 PM	109.171
	5/8/2006 1:12:36 PM	109.408
	5/8/2006 1:13:18 PM	109.162
	5/8/2006 1:14:06 PM	108.939
	5/8/2006 1:15:00 PM	109.28
	5/8/2006 1:15:48 PM	109.185
	5/8/2006 1:16:48 PM	109.095
	5/8/2006 1:17:48 PM	109
	5/8/2006 1:18:48 PM	108.993
	5/8/2006 1:19:54 PM	109.296
	5/8/2006 1:21:06 PM	109.127
	5/8/2006 1:22:24 PM	113.783
	5/8/2006 1:23:42 PM	116.718
	5/8/2006 1:25:06 PM	116.802
	5/8/2006 1:26:36 PM	116.832
	5/8/2006 1:28:12 PM	116.791
	5/8/2006 1:29:48 PM	116.802
	5/8/2006 1:31:36 PM	116.834
	5/8/2006 1:33:30 PM	116.877
	5/8/2006 1:35:30 PM	116.912
	5/8/2006 1:37:36 PM	116.951
	5/8/2006 1:39:48 PM	116.99
	5/8/2006 1:42:12 PM	117.036
	5/8/2006 1:44:42 PM	117.072
	5/8/2006 1:47:18 PM	117.11
	5/8/2006 1:50:06 PM	117.148
	5/8/2006 1:53:06 PM	117.186
	5/8/2006 1:56:12 PM	117.222
	5/8/2006 1:59:36 PM	117.261
	5/8/2006 2:03:06 PM	117.296
	5/8/2006 2:06:48 PM	117.33
	5/8/2006 2:10:48 PM	117.367
	5/8/2006 2:15:00 PM	117.403
	5/8/2006 2:19:24 PM	117.441
	5/8/2006 2:24:06 PM	117.475
	5/8/2006 2:29:06 PM	117.516
	5/8/2006 2:34:24 PM	117.556
	5/8/2006 2:40:00 PM	117.594
	5/8/2006 2:46:00 PM	117.633

Well	Date and Time	GWE (ft)
TW-4		
TROLL-rec		
	5/8/2006 2:52:00 PM	117.672
	5/8/2006 2:59:00 PM	117.715
	5/8/2006 3:06:00 PM	117.754
	5/8/2006 3:13:00 PM	117.795
	5/8/2006 3:21:00 PM	117.837
	5/8/2006 3:30:00 PM	117.883
	5/8/2006 3:38:00 PM	117.924
	5/8/2006 3:48:00 PM	117.975
	5/8/2006 3:58:00 PM	118.026
	5/8/2006 4:08:00 PM	118.068
	5/8/2006 4:19:00 PM	118.118
	5/8/2006 4:31:00 PM	118.171
	5/8/2006 4:44:00 PM	118.225
	5/8/2006 4:57:00 PM	118.275
	5/8/2006 5:11:00 PM	118.327
	5/8/2006 5:26:00 PM	118.381
	5/8/2006 5:42:00 PM	118.441
	5/8/2006 5:58:00 PM	118.494
	5/8/2006 6:16:00 PM	118.551
	5/8/2006 6:35:00 PM	118.608
	5/8/2006 6:55:00 PM	118.665
	5/8/2006 7:16:00 PM	118.719
	5/8/2006 7:38:00 PM	118.78
	5/8/2006 8:02:00 PM	118.837
	5/8/2006 8:27:00 PM	118.896
	5/8/2006 8:53:00 PM	118.951
	5/8/2006 9:21:00 PM	119.009
	5/8/2006 9:51:00 PM	119.075
	5/8/2006 10:22:00 PM	119.13
	5/8/2006 10:56:00 PM	119.194
	5/8/2006 11:31:00 PM	119.254
	5/9/2006 12:08:00 AM	119.316
	5/9/2006 12:48:00 AM	119.384
	5/9/2006 1:30:00 AM	119.446
	5/9/2006 2:14:00 AM	119.509
	5/9/2006 3:01:00 AM	119.576
	5/9/2006 3:51:00 AM	119.643
	5/9/2006 4:44:00 AM	119.705
	5/9/2006 5:40:00 AM	119.776
	5/9/2006 6:40:00 AM	119.846
	5/9/2006 7:40:00 AM	119.913
	5/9/2006 8:50:00 AM	119.982
	5/9/2006 10:00:00 AM	120.055
	5/9/2006 11:10:00 AM	120.125

APPENDIX F

AQUIFERTEST CURVE FITTING

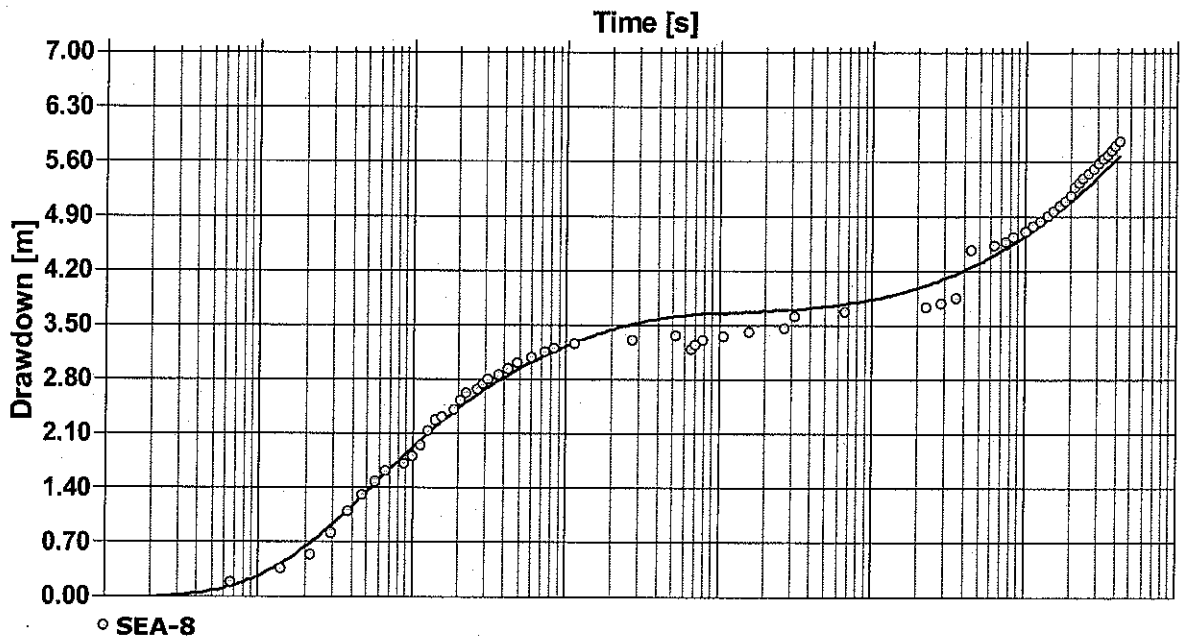
Project #: 2004194.21-A

Summary Of Aquifer Test Results

Well	Method	# Pump. wells	Solved	T [ft²/d]	K [ft/d]	Sy	Kv/Kh	Sy/S	S
SEA-8	Neuman	4	Automatic Fit	8.50E+03	8.63E+01	5.00E-01	1.00E+00	6.50E+01	7.69E-03
SEA-17	Neuman	4	Manual Fit	1.50E+05	1.52E+02	8.00E-02	1.00E+00	1.00E+01	8.00E-03
3-90	Neuman	4	Automatic Fit	1.11E+04	1.13E+02	1.98E-01	1.00E+00	1.00E+01	1.98E-02
SEA-4	Neuman	4	Manual Fit	1.70E+04	1.73E+02	8.00E-02	1.00E+00	1.00E+01	8.00E-03
5-90	Neuman	4	Manual Fit	7.50E+03	7.62E+01	1.20E-01	3.50E-01	1.50E+02	8.00E-04
SEA-9	Neuman	4	Automatic Fit	6.43E+03	6.54E+01	1.47E-01	2.24E-01	1.00E+01	1.47E-02
SEA-2	Neuman	4	Manual Fit	1.20E+05	1.22E+02	5.50E-02	2.50E-01	1.00E+02	5.50E-04
SEA-18	Neuman	4	Automatic fit	6.07E+03	6.17E+01	1.03E-01	1.08E-01	1.00E-01	1.03E+00
8-90	Neuman	4	Automatic fit	6.30E+03	6.40E+01	6.52E-02	2.21E-02	1.00E+01	6.52E-03
MW-1R	Neuman	4	Manual Fit	5.00E+03	5.08E+01	6.00E-02	1.00E+00	1.00E+02	6.00E-04
SEA-16	Neuman	4	Manual Fit	1.20E+04	1.22E+02	4.00E-02	5.00E-02	1.00E+02	4.00E-04
SEA-11	Neuman	4	Manual Fit	7.00E+03	7.11E+01	1.20E-01	1.00E+00	1.00E+02	1.20E-03
MW-7	Neuman	4	Manual Fit	2.00E+04	2.03E+02	2.50E-01	5.00E-01	1.00E+02	2.50E-03
SEA-11	Neuman-Barrier Boundary	1	Automatic Fit	4.15E+03	4.22E+01	1.15E-01	9.28E-01	1.00E+01	3.43E-02
SEA-11	Neuman-Recharge Boundary	1	Automatic Fit	6.36E+03	6.46E+01	1.18E-01	1.00E+00	1.00E+01	3.43E-02
SEA-16	Neuman-Barrier Boundary	1	Automatic Fit	1.08E+04	1.10E+02	3.68E-02	2.41E-01	1.00E+01	3.43E-02
SEA-16	Neuman-Recharge Boundary	1	Automatic Fit	1.14E+04	1.16E+02	3.96E-02	3.72E-02	2.06E+03	3.43E-02
SEA-16	Neuman+Agarwal -Infinite Aquifer	1	Automatic Fit	2.73E+03	2.77E+01	2.85E-02	1.00E+00	2.46E+03	3.43E-02
SEA-16	Neuman+Agarwal- Recharge Boundary	1	Automatic Fit	2.73E+03	2.77E+01	2.85E-02	1.00E+00	2.46E+03	3.43E-02
SEA-16	Neuman+Agarwal-Barrier Boundary	1	Automatic Fit	2.73E+03	2.77E+01	2.85E-02	1.00E+00	2.46E+03	3.43E-02
SEA-16b	Neuman+Agarwal-Infinite Aquifer	1	Automatic Fit	2.57E+03	2.61E+01	3.43E-02	1.00E+00	1.00E+01	3.43E-02
SEA-16b	Neuman+Agarwal- Recharge Boundary	1	Automatic Fit	2.57E+03	2.61E+01	3.43E-02	1.00E+00	1.00E+01	3.43E-02
SEA-16b	Neuman+Agarwal-Barrier Boundary	1	Automatic Fit	2.57E+03	2.61E+01	3.43E-02	1.00E+00	1.24E+03	3.43E-02
			Max	1.50E+05	2.03E+02	5.00E-01	1.00E+00	2.46E+03	1.03E+00
			Min	2.57E+03	2.61E+01	2.85E-02	2.21E-02	1.00E-01	4.00E-04

T: Transmissivity
K: Conductivity
Sy: Specific yield
Kv/Kh: Vertical/horizontal conductivity ratio
Sy/S: Specific yield/Storativity ratio
S: Storativity

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic Fit	SEA-8 Neuman-L	Analysis date: 9/19/2006
Aquifer Thickness: 30.00 m		



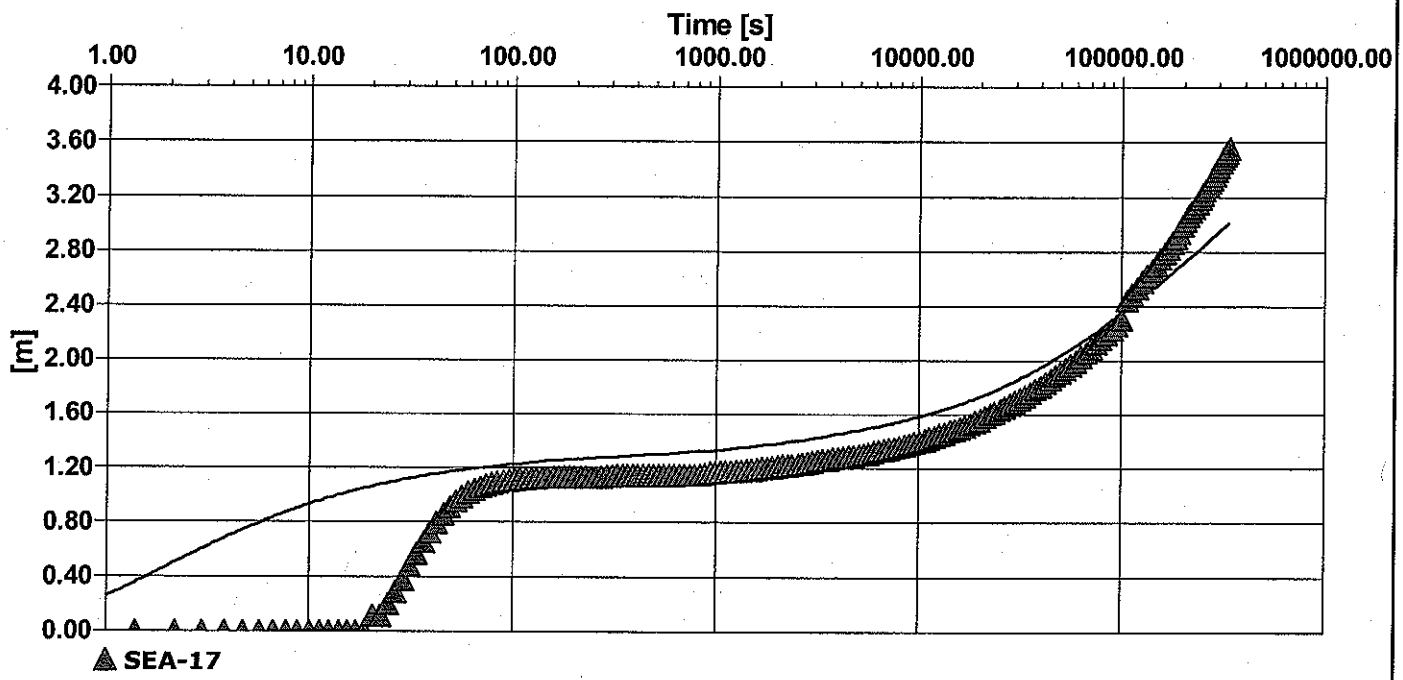
Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-8	8.50×10^3	8.63×10^1	5.00×10^{-1}	1.00×10^0	6.50×10^1

Model Assuptions: Unc, inf, Ani, Var, Par

Observation well:□SEA-8
Calculation Method:□Neuman
Transmissivity [ft²/d]□8.50E3
Specific Yield□5.00E-1
Ratio K(v)/K(h)□1.00E0
Ratio Sy/S□6.50E1
□
Statistics of the Fit□
Mean delta s [m]□-0.01
Sum of squared errors [m²]□1.605
Variance [m²]□0.025
Standard Deviation [m]□0.158

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: CPP	SEa-17 Neuman-L	Analysis date: 9/13/2006
Aquifer Thickness: 30.00 m		

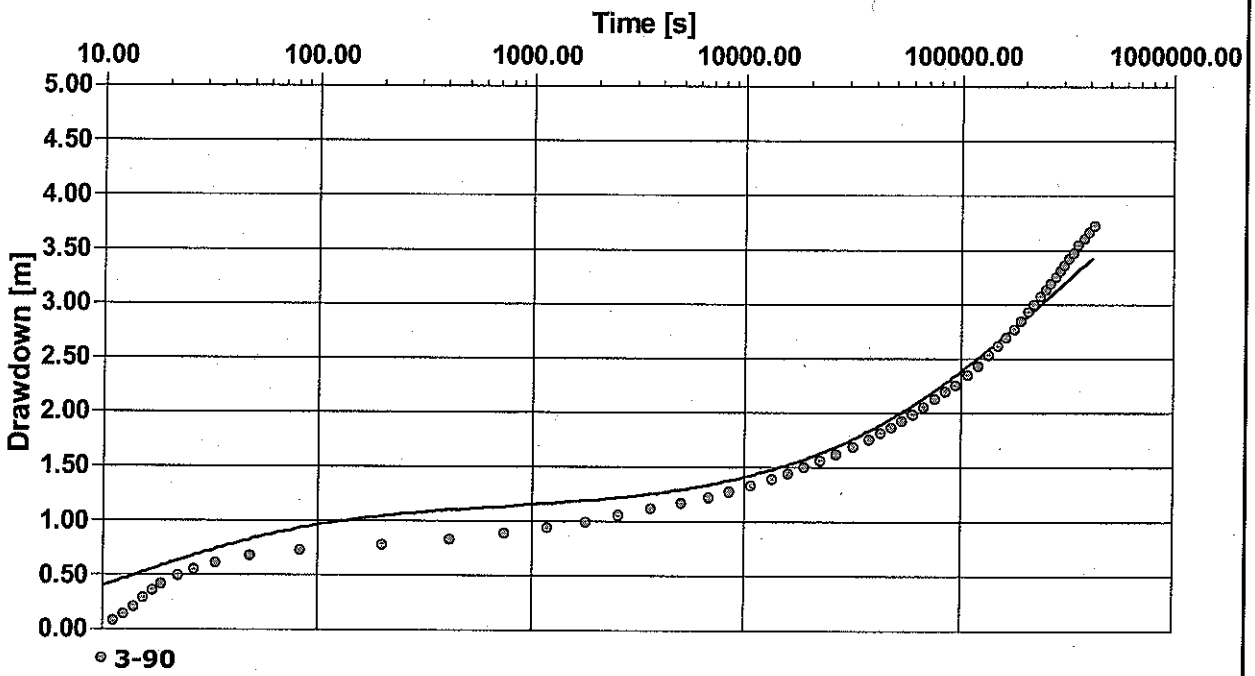


Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-17	1.50×10^4	1.52×10^2	8.00×10^{-2}	1.00×10^0	1.00×10^1

manual fit

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic Fit	3-90-Neuman-L	Analysis date: 9/19/2006
Aquifer Thickness: 30.00 m		



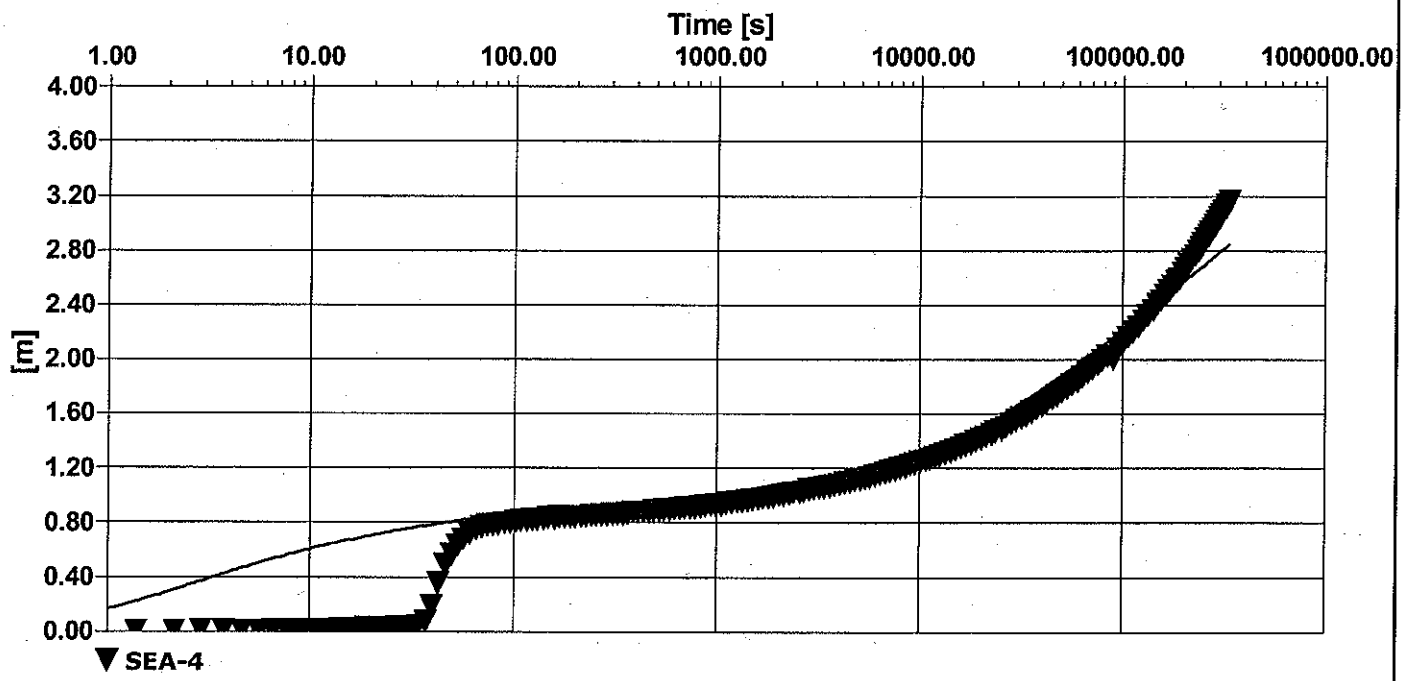
Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
3-90	1.11×10^4	1.13×10^2	1.98×10^{-1}	1.00×10^0	1.00×10^1

Model Assumptions: unc, inf, Ani, Var, Par

Observation well:□3-90
Calculation Method:□Neuman
Transmissivity [ft²/d]□1.11E4
Specific Yield□1.98E-1
Ratio K(v)/K(h)□1.00E0
Ratio Sy/S□1.00E1
□
Statistics of the Fit□
Mean delta s [m]□-0.064
Sum of squared errors [m²]□1.265
Variance [m²]□0.021
Standard Deviation [m]□0.146

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: CPP	SEa-4 Neuman-L	Analysis date: 9/13/2006
Aquifer Thickness: 30.00 m		

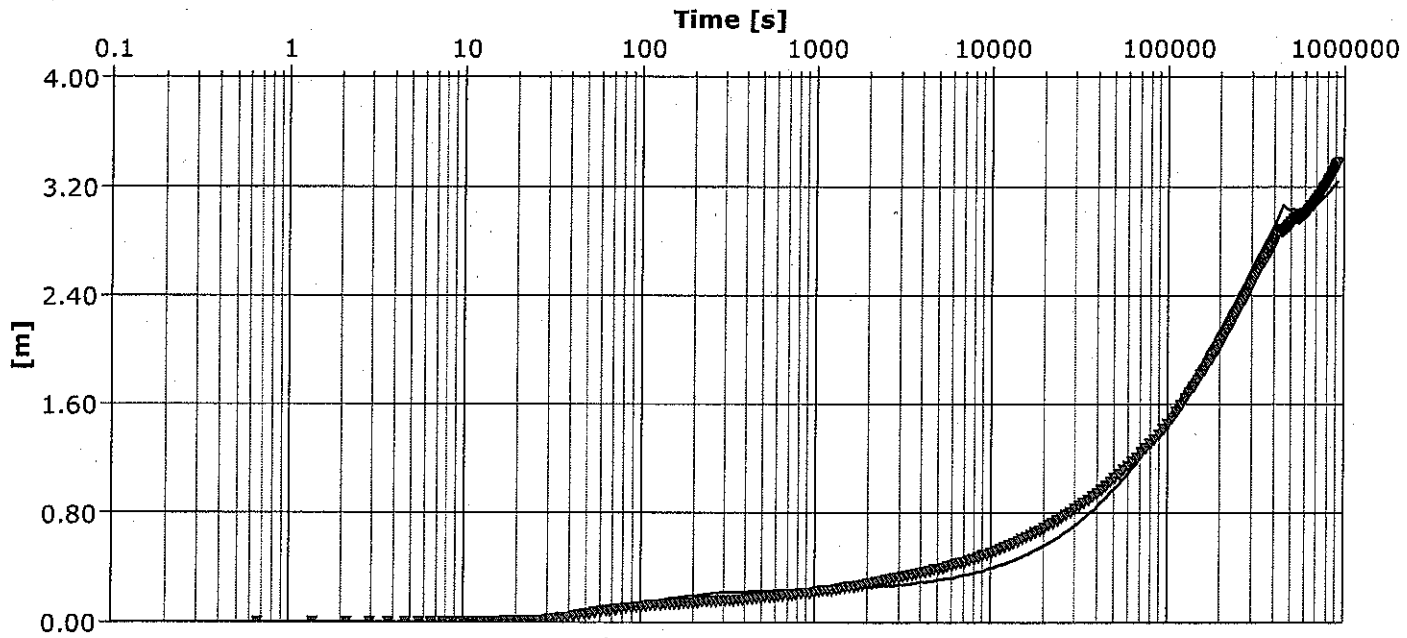


Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-4	1.70×10^4	1.73×10^2	8.00×10^{-2}	1.00×10^0	1.00×10^1

manual fit

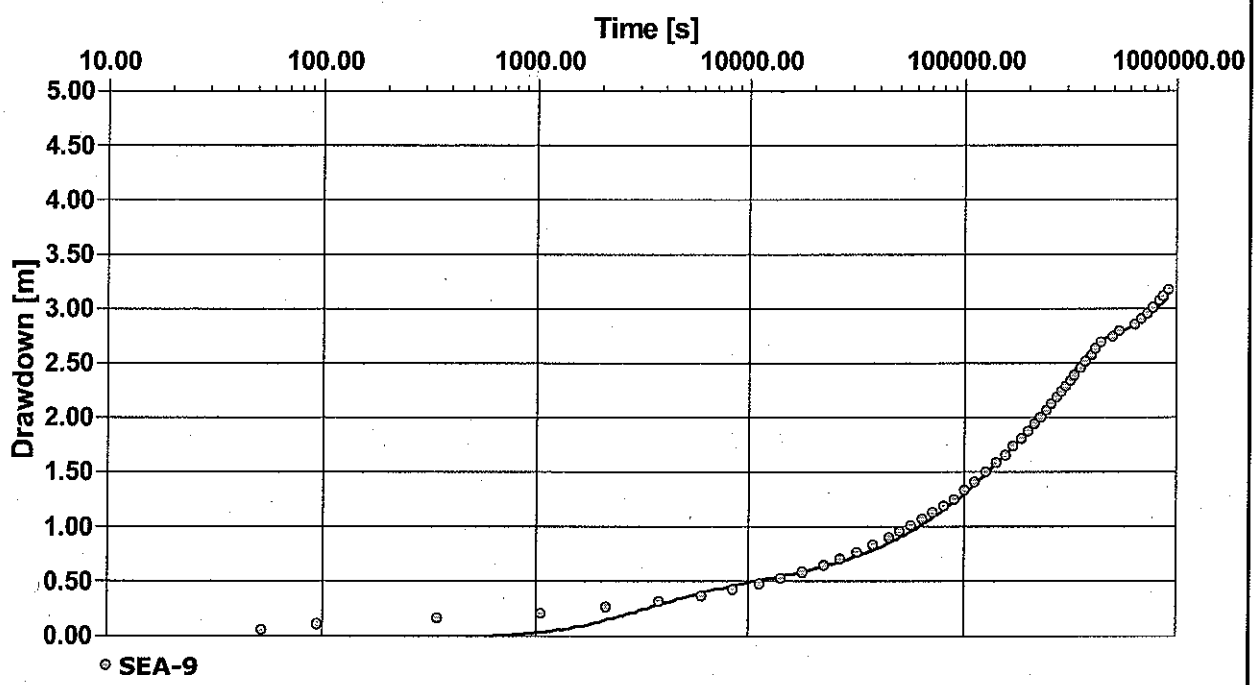
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	5-90 Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
5-90	7.50×10^{3}	7.62×10^{1}	1.20×10^{-1}	3.50×10^{-1}	1.50×10^{2}

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic fit	SEA-9 Neuman-L	Analysis date: 9/19/2006
Aquifer Thickness: 30.00 m		



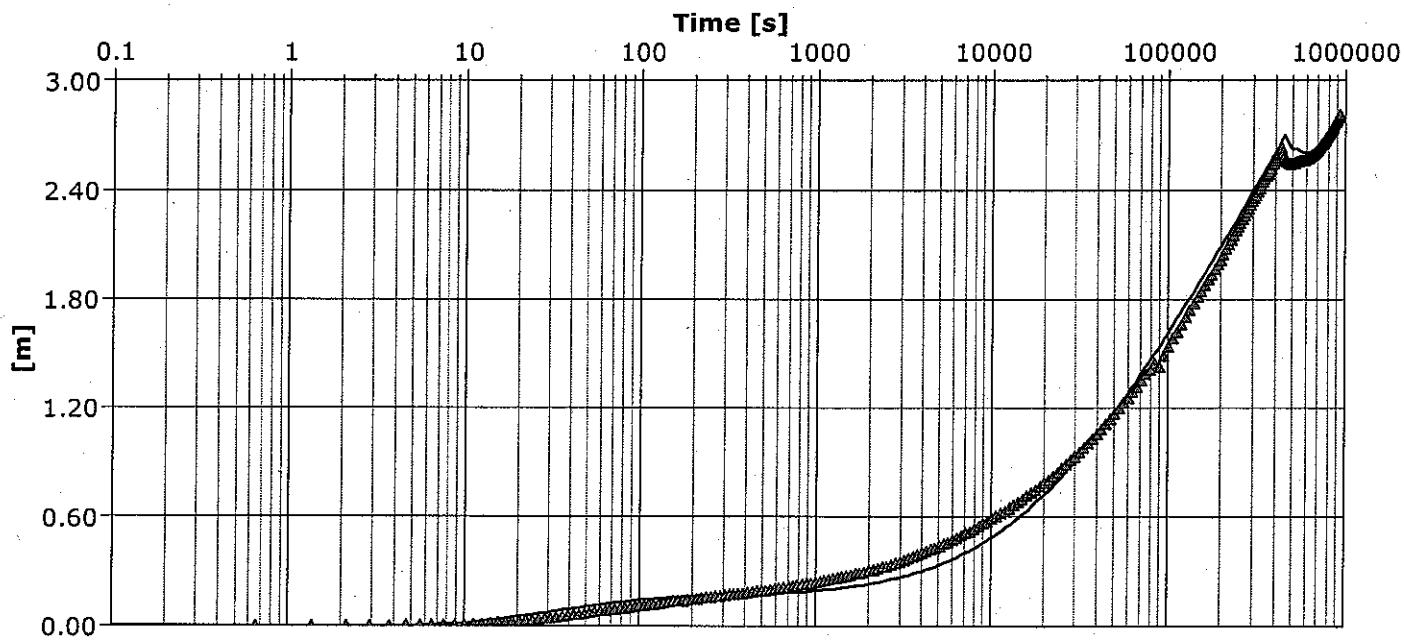
Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-9	6.43×10^{3}	6.54×10^{1}	1.47×10^{-1}	2.24×10^{-1}	1.00×10^{1}

Model Assumptions: Unc, Inf, Ani, Var, Ful

Observation well:□SEA-9
Calculation Method:□Neuman
Transmissivity [ft²/d]□6.43E3
Specific Yield□1.47E-1
Ratio K(v)/K(h)□2.24E-1
Ratio Sy/S□1.00E1
□
Statistics of the Fit□
Mean delta s [m]□0.034
Sum of squared errors [m²]□1.28
Variance [m²]□0.005
Standard Deviation [m]□0.068

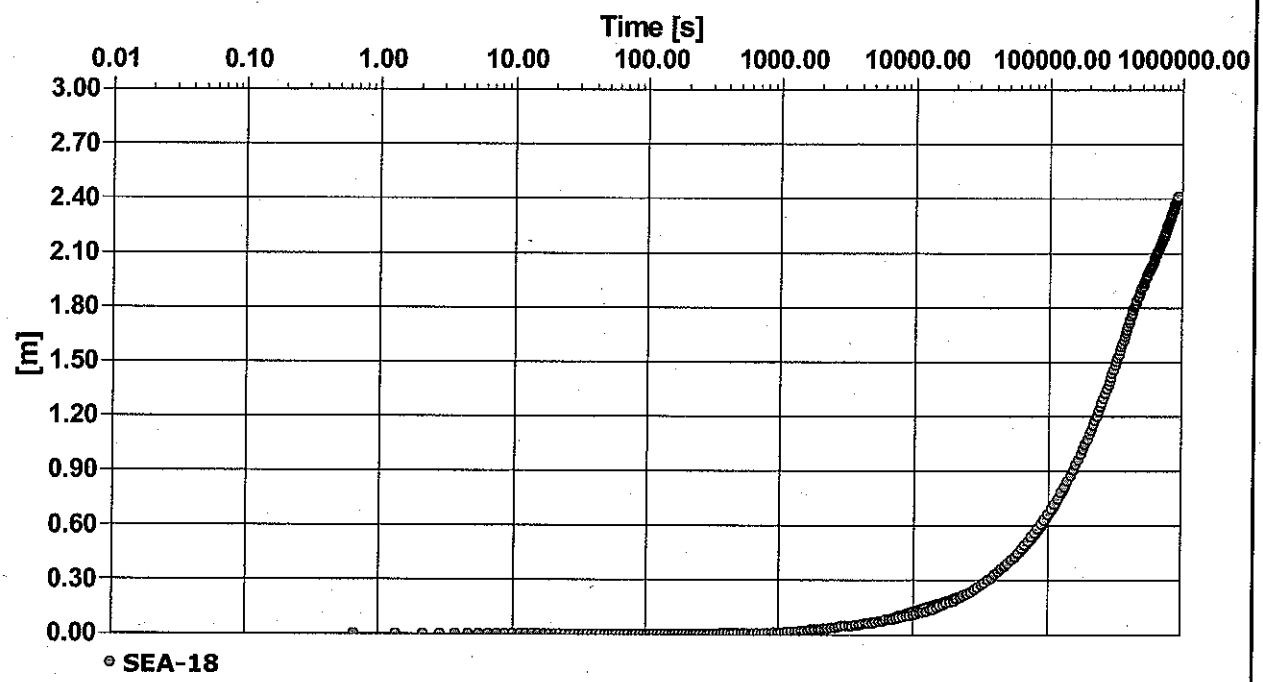
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	SEA-2 Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-2	1.20×10^4	1.22×10^2	5.50×10^{-2}	2.50×10^{-1}	1.00×10^2

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: automatic fit	SEA-18 Neuman-L	Analysis date: 9/14/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

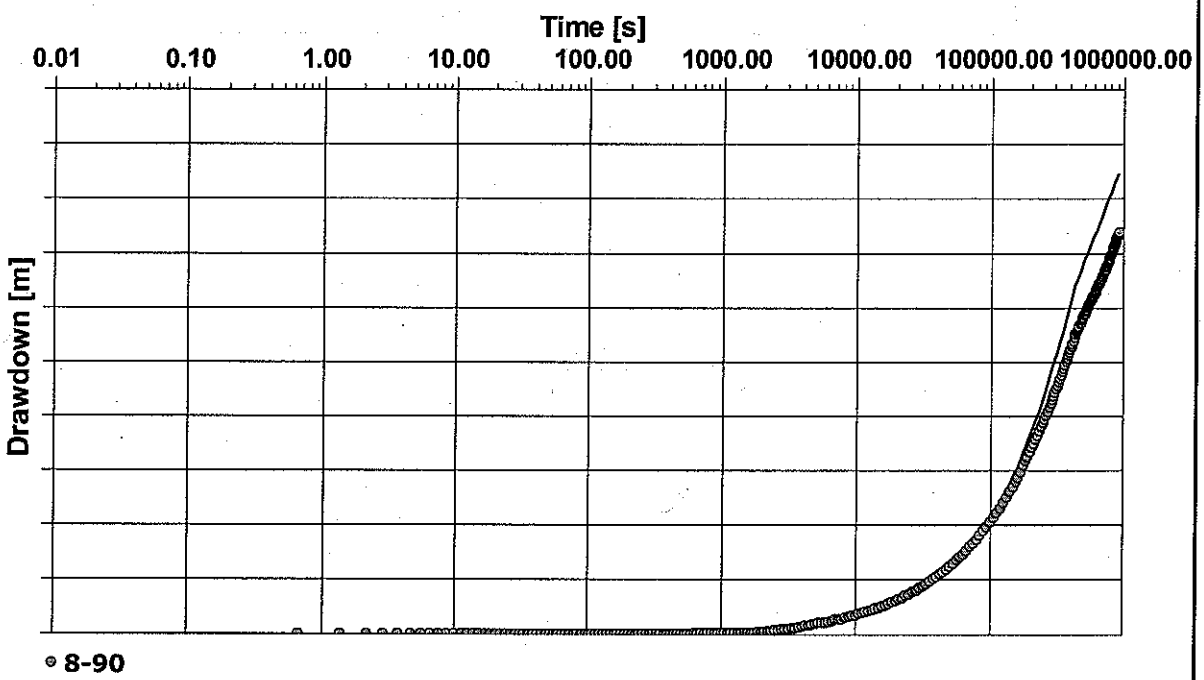
Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-18	6.07×10^{3}	6.17×10^{1}	1.03×10^{-1}	1.08×10^{-1}	1.00×10^{1}

Model Assuptions: Unc, Inf, Ani, Var, Par

Observation well:□SEA-18
Calculation Method:□Neuman
Transmissivity [ft²/d]□6.07E3
Specific Yield□1.03E-1
Ratio K(v)/K(h)□1.08E-1
Ratio Sy/S□1.00E1
□
Statistics of the Fit□
Mean delta s [m]□-0.001
Sum of squared errors [m²]□0.109
Variance [m²]□0.000
Standard Deviation [m]□0.02

This solution matches better the end of the curve than the begining of the curve. A better fit for this well should give more importance to the early observations than to the late observations, because boundary effects (which from the diagnosis graph appear to be relevant) cannot be assessed with the Neuman solution.

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: automatic fit	8-90 Neuman-L	Analysis date: 9/14/2006
Aquifer Thickness: 30.00 m		



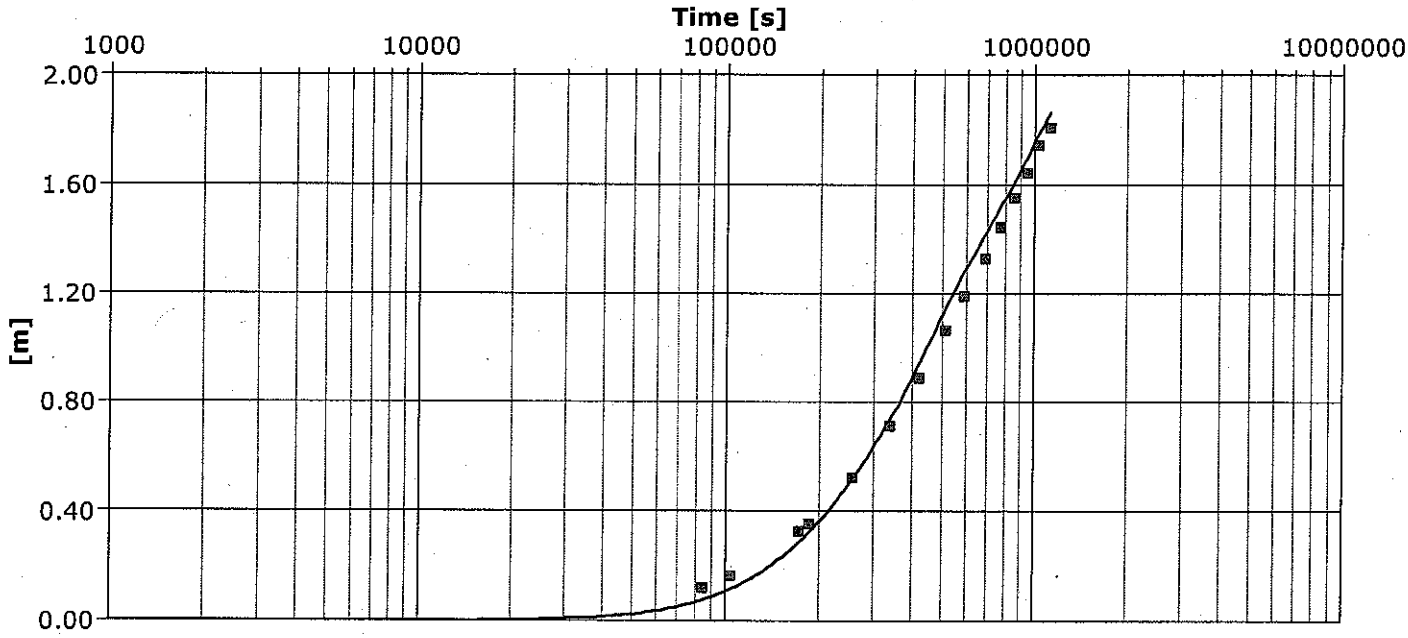
Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
8-90	6.30×10^{3}	6.40×10^{1}	6.52×10^{-2}	2.21×10^{-2}	1.00×10^{1}

Model Assumptions: Unc, inf, Ani, Var, Par

Observation well:□8-90
Calculation Method:□Neuman
Transmissivity [ft²/d]□6.30E3
Specific Yield□6.52E-2
Ratio K(v)/K(h)□2.21E-2
Ratio Sy/S□1.00E1
□
Statistics of the Fit□
Mean delta s [m]□-0.11
Sum of squared errors [m²]□5.784
Variance [m²]□0.021
Standard Deviation [m]□0.145

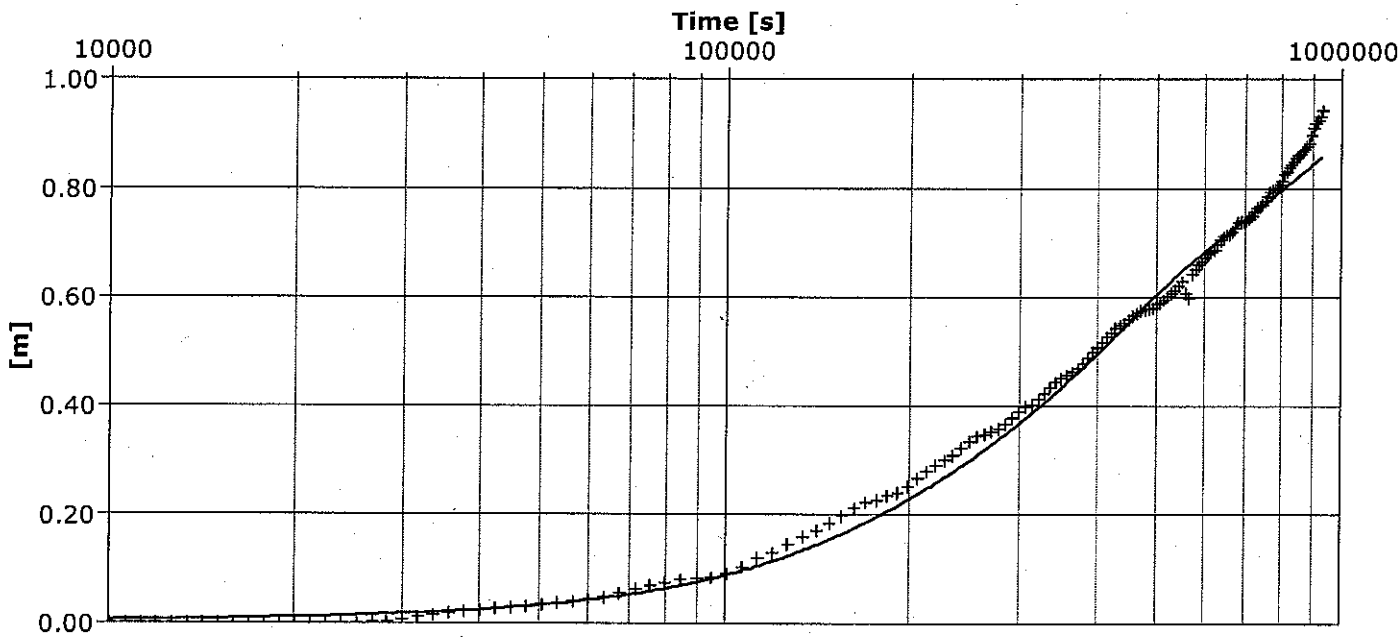
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	MW-1R Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
MW-1R	5.00×10^{3}	5.08×10^{1}	6.00×10^{-2}	1.00×10^{0}	1.00×10^{2}

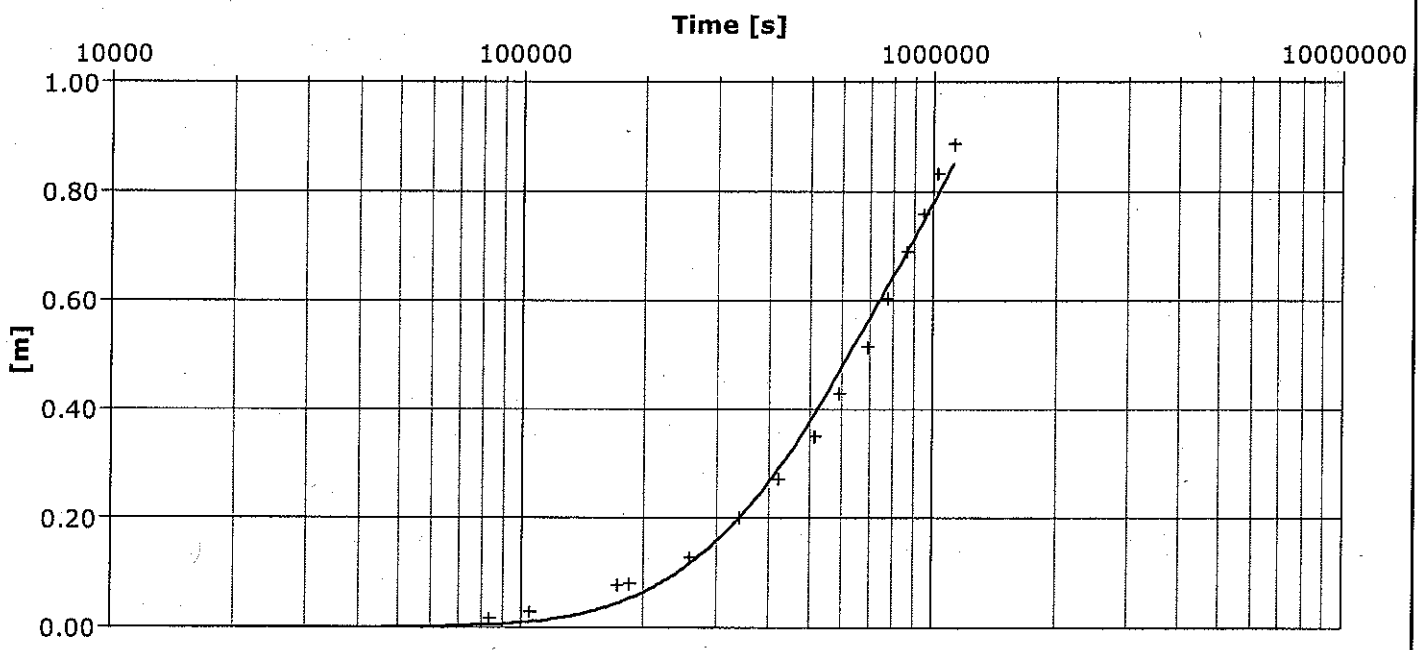
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	SEA-16 Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-16	1.20×10^4	1.22×10^2	4.00×10^{-2}	5.00×10^{-2}	1.00×10^2

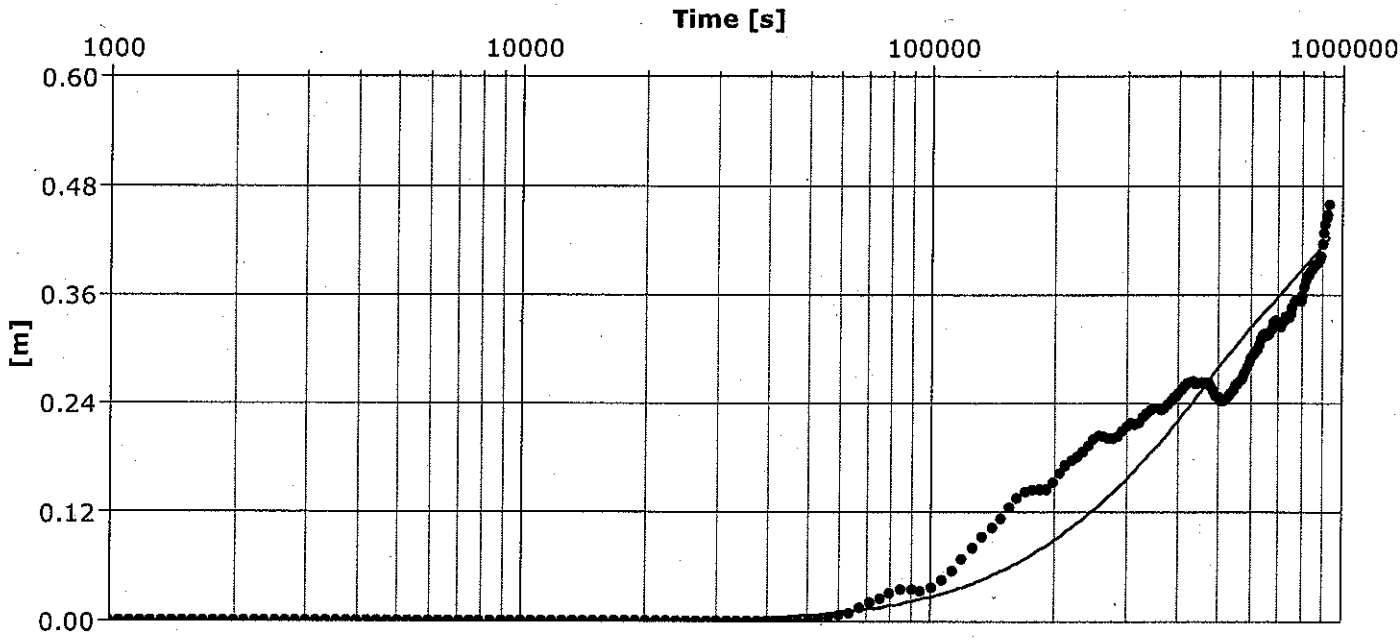
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	SEA-11 Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
SEA-11	7.00×10^{3}	7.11×10^{1}	1.20×10^{-1}	1.00×10^{0}	1.00×10^{2}

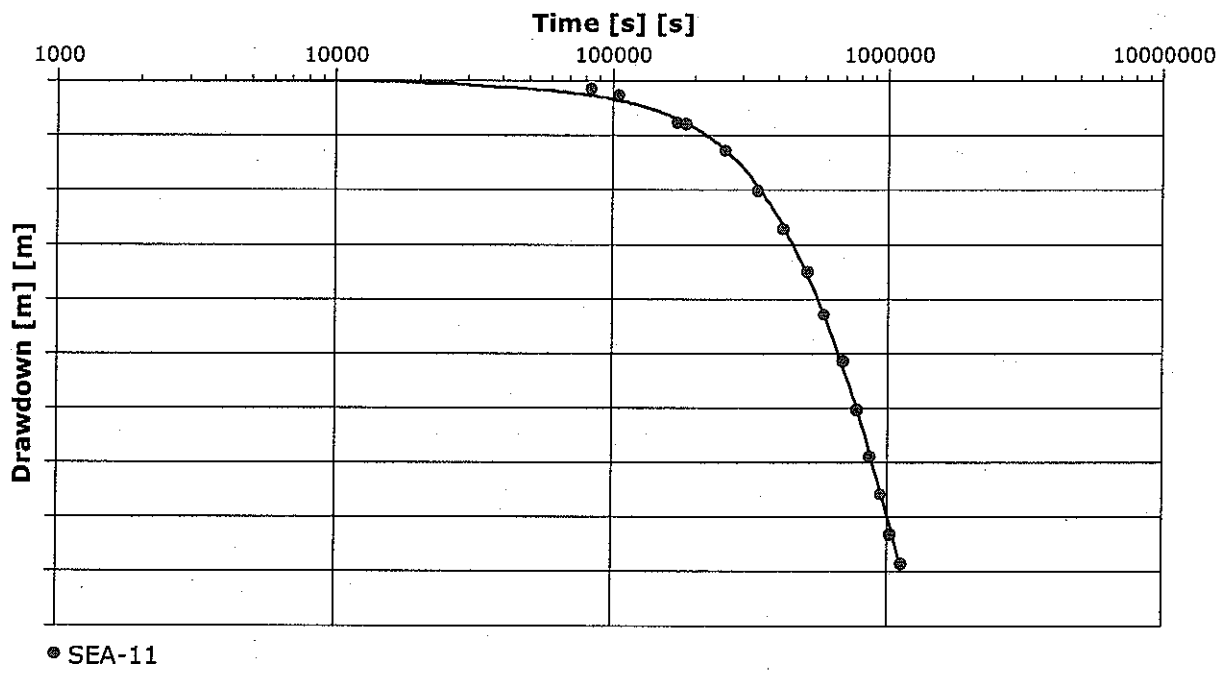
Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: TW-1, TW-2, TW-3, TW-4
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: CPP	MW-7 Neuman	Analysis date: 9/6/2006
Aquifer Thickness: 30.00 m		



Calculation after Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Conductivity [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S
MW-7	2.00×10^4	2.03×10^2	2.50×10^{-1}	5.00×10^{-1}	1.00×10^2

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: Automatic Fit	SEA-11 BarrierB-neuman	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge: variable, average rate 1802.2 [U.S. gal/min]	



Calculation after Neuman

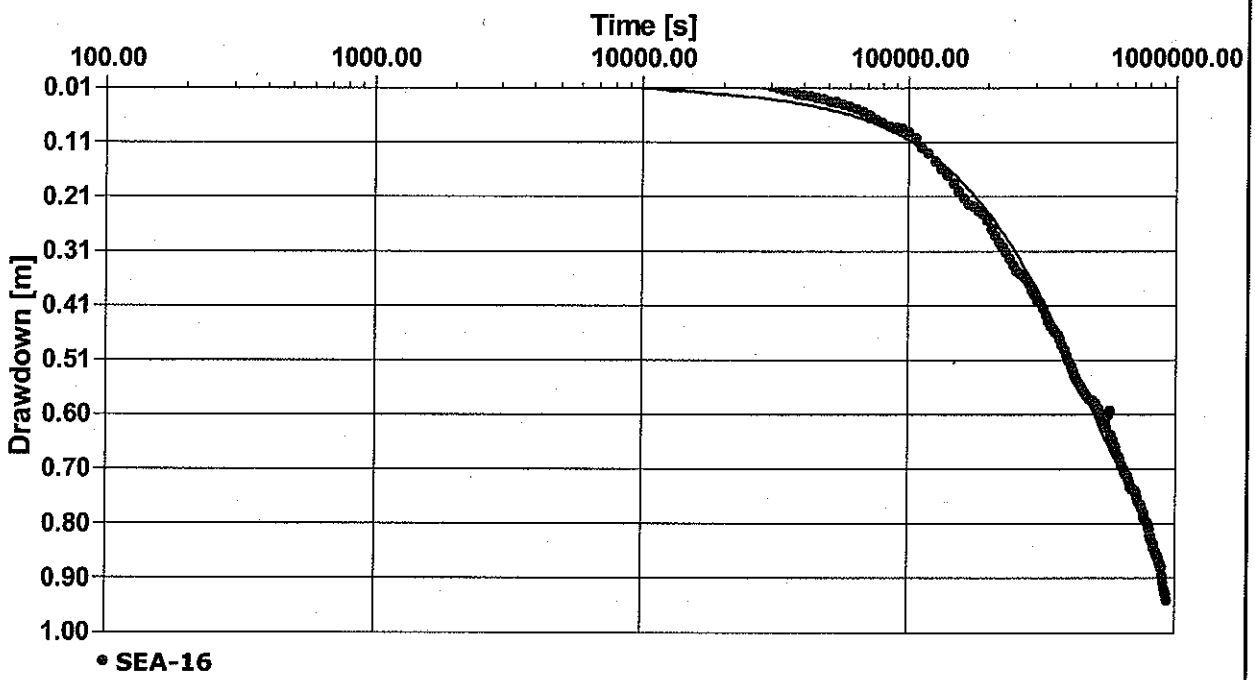
Observation well	Transmissivity [ft²/d]	Hydraulic Condu [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	P	Radial distance to PW [m]
SEA-11	4.15×10^{3}	4.22×10^{1}	1.15×10^{-1}	9.28×10^{-2}	1.00×10^{1}	4.58×10^{2}	317.24

Model Assumptions: Unc, BarrierB, Ani, Var, Par

1 pumping well: VW

Observation well:□SEA-11
Calculation Method:□Neuman
Transmissivity [ft²/d]□4.15E3
Specific Yield□1.15E-1
Ratio K(v)/K(h)□9.28E-2
Ratio Sy/S□1.00E1
P □4.58E2
□
Statistics of the Fit□
Mean delta s [m]□0.000
Sum of squared errors [m²]□0.001
Variance [m²]□0
Standard Deviation [m]□0.007

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by:	SEA-16 VW- Neuman Barrier	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge: variable, average rate 1802.2 [U.S. gal/min]	



Calculation after Neuman

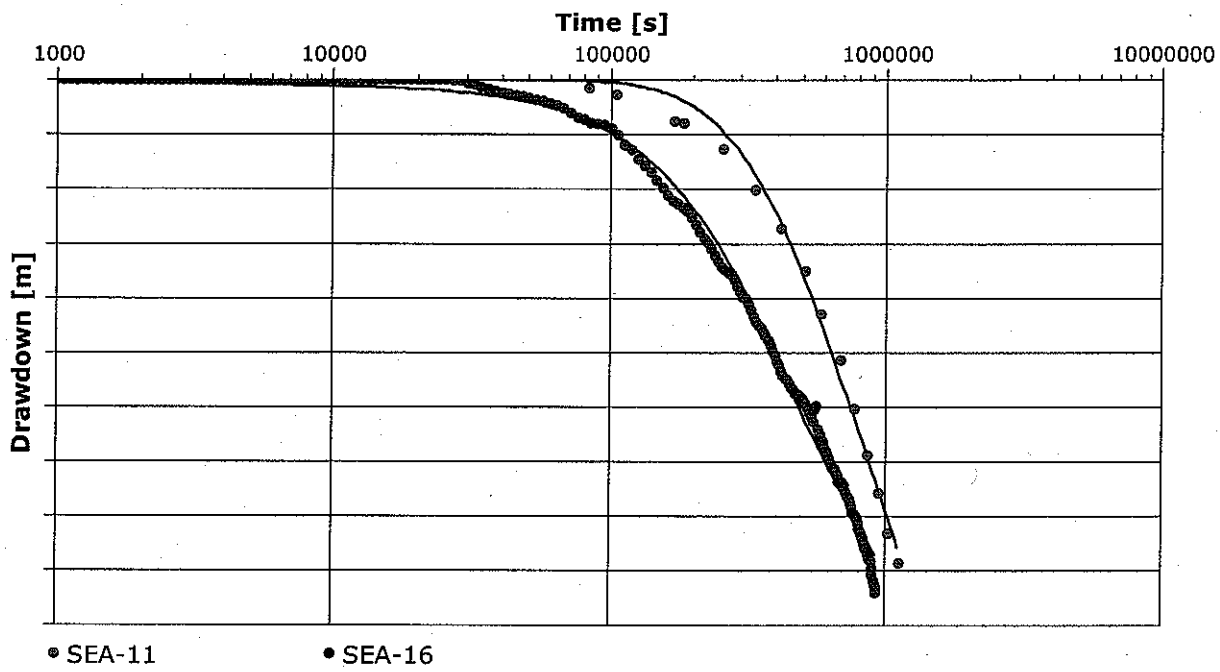
Observation well	Transmissivity [ft²/d]	Hydraulic Condu [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	P	Radial distance to PW [m]
SEA-16	1.08×10^4	1.10×10^2	3.68×10^{-2}	2.41×10^{-2}	1.00×10^1	3.17×10^3	485.34

Model Assuptions: Unc, Barr, Ani, var, Par

1 pumping well

Observation well:□SEA-16
Calculation Method:□Neuman
Transmissivity [ft²/d]□1.08E4
Specific Yield□3.68E-2
Ratio K(v)/K(h)□2.41E-2
Ratio Sy/S□1.00E1
P □3.17E3
□
Statistics of the Fit□
Mean delta s [m]□-0.002
Sum of squared errors [m²]□0.062
Variance [m²]□0.000
Standard Deviation [m]□0.015

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: CPP		Test date: 9/6/2006
Analysis performed by: Automatic Fit	SEA-11 and SEA-16 Neuman RB	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge: variable, average rate 1802.2 [U.S. gal/min]	



Calculation after Neuman

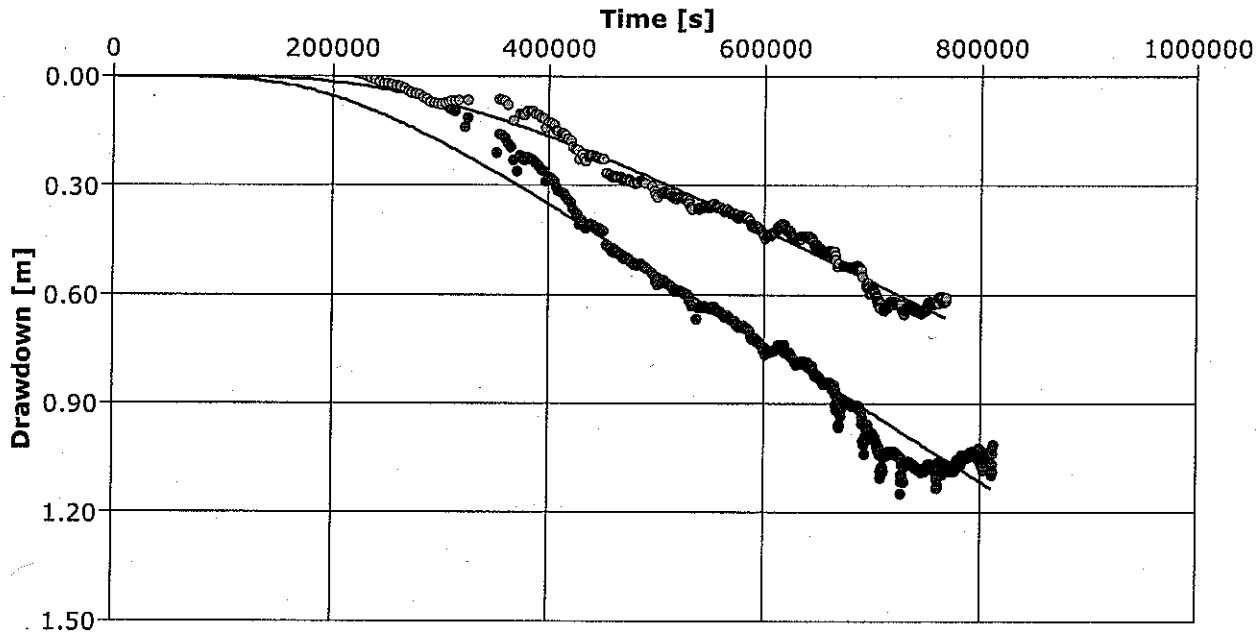
Observation well	Transmissivity [ft²/d]	Hydraulic Condu [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	P	Radial distance to PW [m]
SEA-11	6.36×10^3	6.46×10^1	1.18×10^{-1}	1.00×10^0	1.00×10^1	4.96×10^4	317.24
SEA-16	1.14×10^4	1.16×10^2	3.96×10^{-2}	3.72×10^{-2}	2.06×10^3	3.50×10^3	485.34
Average	8.89×10^3	9.03×10^1	7.87×10^{-2}	5.19×10^{-1}	1.04×10^3	2.66×10^4	

Model Assuptions: Unc, Recharge B, Ani, Var, Par

Observation well:□SEA-11
Mean delta s [m]□0.008
Sum of squared errors [m²]□0.008
Variance [m²]□0.001
Standard Deviation [m]□0.023

Observation well:□SEA-16
Mean delta s [m]□-0.003
Sum of squared errors [m²]□0.069
Variance [m²]□0.000
Standard Deviation [m]□0.016

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic fit	SEA-16 and SEA-16 corrected	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge rate: 1783.8 [U.S. gal/min]	



Calculation after AGARWAL + Neuman

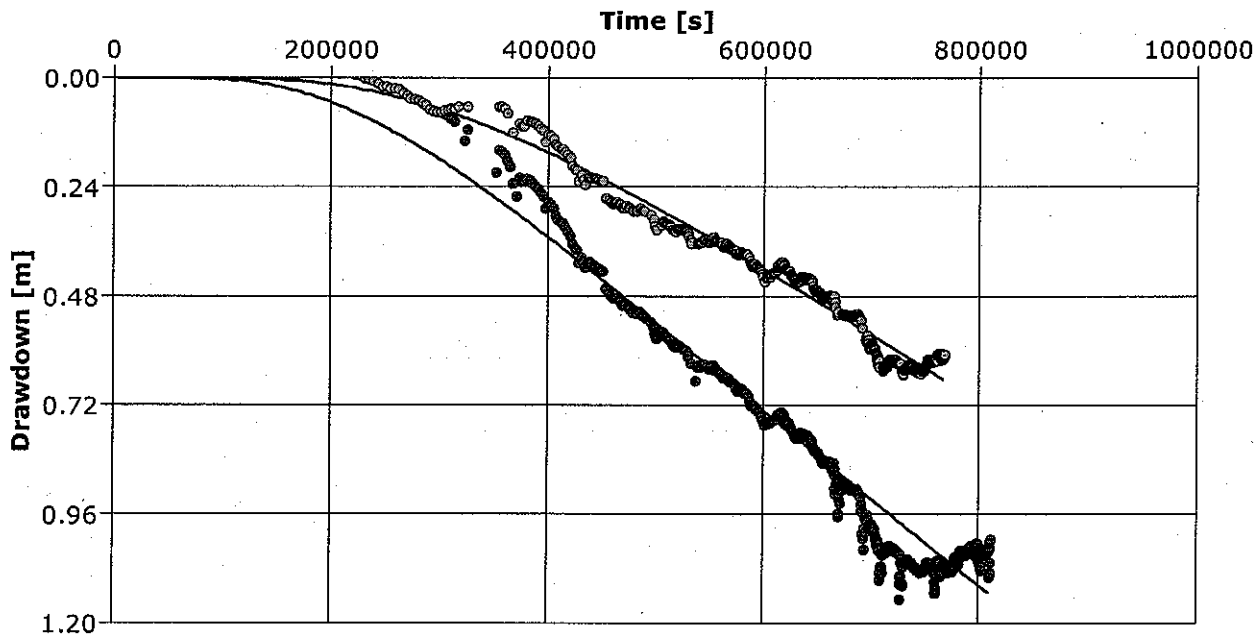
Observation well	Transmissivity [ft²/d]	Hydraulic Conduct [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	Radial distance to PW [m]
SEA-16	2.73×10^3	2.77×10^1	2.85×10^{-2}	1.00×10^0	2.46×10^3	485.34
SEA-16b	2.57×10^3	2.61×10^1	3.43×10^{-2}	1.00×10^0	1.00×10^1	485.34
Average	2.65×10^3	2.69×10^1	3.14×10^{-2}	1.00×10^0	1.24×10^3	

Model Assuptions: Unc, Inf, Ani, Con, Par
Calculation Method:□AGARWAL + Neuman

Observation well:□SEA-16
Mean delta s [m]□-0.02
Sum of squared errors [m²]□4.163
Variance [m²]□0.004
Standard Deviation [m]□0.064

Observation well:□SEA-16b (corrected)
Mean delta s [m]□-0.025
Sum of squared errors [m²]□1.62
Variance [m²]□0.002
Standard Deviation [m]□0.048

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic Fit	SEA-16 and SEA-16 corrected-RB	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge rate: 1783.8 [U.S. gal/min]	



Calculation after AGARWAL + Neuman

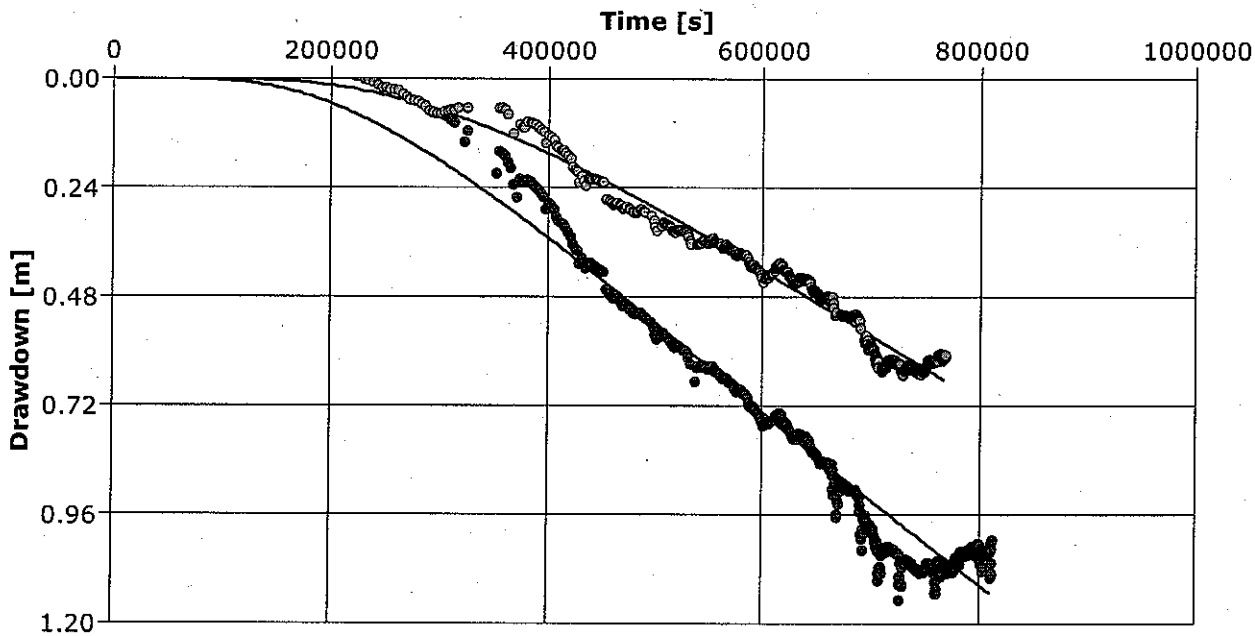
Observation well	Transmissivity [ft²/d]	Hydraulic Condu [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	P	Radial distance to PW [m]
SEA-16	2.73×10^3	2.77×10^1	2.85×10^{-2}	1.00×10^0	2.46×10^3	1.62×10^4	485.34
SEA-16b	2.57×10^3	2.61×10^1	3.43×10^{-2}	1.00×10^0	1.00×10^1	6.26×10^3	485.34
Average	2.65×10^3	2.69×10^1	3.14×10^{-2}	1.00×10^0	1.24×10^3	1.12×10^4	

Model Assumptions: Unc, Recharge B, Ani, Con, Par
Calculation Method:□AGARWAL + Neuman

Observation well:□SEA-16
Mean delta s [m]□-0.02
Sum of squared errors [m²]□4.163
Variance [m²]□0.004
Standard Deviation [m]□0.064

Observation well:□SEA-16b (corrected)
Mean delta s [m]□-0.025
Sum of squared errors [m²]□1.62
Variance [m²]□0.002
Standard Deviation [m]□0.048

Location: Framingham, MA	Pumping Test: Pumping Test 1	Pumping well: Virtual well
Test conducted by: SEA Consultants		Test date: 4/24/2006
Analysis performed by: Automatic fit	SEA-16 and SEA-16 corrected-BB	Analysis date: 9/20/2006
Aquifer Thickness: 30.00 m	Discharge rate: 1783.8 [U.S. gal/min]	



Calculation after AGARWAL + Neuman

Observation well	Transmissivity [ft²/d]	Hydraulic Condu [ft/d]	Specific Yield	Ratio K(v)/K(h)	Ratio Sy/S	P	Radial distance to PW [m]
SEA-16	2.73×10^3	2.77×10^1	2.85×10^{-2}	1.00×10^0	2.46×10^3	1.62×10^4	485.34
SEA-16b	2.57×10^3	2.61×10^1	3.43×10^{-2}	1.00×10^0	1.00×10^1	6.26×10^3	485.34
Average	2.65×10^3	2.69×10^1	3.14×10^{-2}	1.00×10^0	1.24×10^3	1.12×10^4	

Model Assuptions: Unc, BarrierB, Ani, Con, Par
Calculation Method:□AGARWAL + Neuman

Observation well:□SEA-16
Mean delta s [m]□-0.02
Sum of squared errors [m²]□4.163
Variance [m²]□0.004
Standard Deviation [m]□0.064

Observation well:□SEA-16b
Mean delta s [m]□-0.025
Sum of squared errors [m²]□1.62
Variance [m²]□0.002
Standard Deviation [m]□0.048

APPENDIX G

LABORATORY ANALYTICAL DATA

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0605888

Date Received: 26-APR-2006

Date Reported: 03-MAY-2006

Delivery Method: Client

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0605888-01	TW-1	FRAMINGHAM, MA
L0605888-02	TW-2	FRAMINGHAM, MA
L0605888-03	TW-3	FRAMINGHAM, MA
L0605888-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:_____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0605888

Report Submission

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Chloride

The Matrix Spike % recovery is invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0605888-01
TW-1
Sample Matrix: DW

Date Collected: 26-APR-2006 16:15
Date Received : 26-APR-2006
Date Reported : 03-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.36	NTU	0.20	44 180.1		0426 22:05	DP
Odor	NO ODOR	TON	1	30 2150B		0426 20:35	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0426 21:30	DP
Alkalinity, Total	61	mg CaCO3/L	2.0	30 2320B		0427 15:53	AI
Solids, Total Dissolved	500	mg/l	10	30 2540C		0503 06:50	DT
Anions by Ion Chromatography							
Chloride	160	mg/l	2.5	44 300.0		0501 21:38	ED
Sulfate	23	mg/l	1.0	44 300.0		0501 15:24	ED
pH	6.3	SU	-	4 150.1		0426 21:45	DP
Hardness	180	mg/l	1.7	19 200.7	0427 18:00	0428 16:28	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0427 18:00	0428 16:28	RW
Calcium, Total	52	mg/l	0.10	19 200.7	0427 18:00	0428 16:28	RW
Copper, Total	ND	mg/l	0.002	19 200.7	0427 18:00	0501 15:17	RW
Iron, Total	0.06	mg/l	0.05	19 200.7	0427 18:00	0428 16:28	RW
Magnesium, Total	12	mg/l	0.10	19 200.7	0427 18:00	0428 16:28	RW
Manganese, Total	ND	mg/l	0.01	19 200.7	0427 18:00	0428 16:28	RW
Potassium, Total	5.0	mg/l	2.5	19 200.7	0427 18:00	0428 16:28	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0427 18:00	0428 16:28	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0427 18:00	0428 16:28	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0605888-02
TW-2
Sample Matrix: DW

Date Collected: 26-APR-2006 16:15
Date Received : 26-APR-2006
Date Reported : 03-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0426 22:05	DP
Odor	NO ODOR	TON	1	30 2150B		0426 20:35	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0426 21:30	DP
Alkalinity, Total	71	mg CaCO3/L	2.0	30 2320B		0427 15:53	AI
Solids, Total Dissolved	260	mg/l	10	30 2540C		0503 06:50	DT
Anions by Ion Chromatography							
Chloride	85	mg/l	1.2	44 300.0		0501 21:55	ED
Sulfate	17	mg/l	2.5	44 300.0		0501 21:55	ED
pH	6.5	SU	-	4 150.1		0426 21:45	DP
Hardness	90	mg/l	1.7	19 200.7	0427 18:00	0428 16:31	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0427 18:00	0428 16:31	RW
Calcium, Total	26	mg/l	0.10	19 200.7	0427 18:00	0428 16:31	RW
Copper, Total	ND	mg/l	0.002	19 200.7	0427 18:00	0501 15:20	RW
Iron, Total	0.09	mg/l	0.05	19 200.7	0427 18:00	0428 16:31	RW
Magnesium, Total	5.8	mg/l	0.10	19 200.7	0427 18:00	0428 16:31	RW
Manganese, Total	0.06	mg/l	0.01	19 200.7	0427 18:00	0428 16:31	RW
Potassium, Total	3.7	mg/l	2.5	19 200.7	0427 18:00	0428 16:31	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0427 18:00	0428 16:31	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0427 18:00	0428 16:31	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0605888-03
TW-3
Sample Matrix: DW

Date Collected: 26-APR-2006 16:15
Date Received : 26-APR-2006
Date Reported : 03-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.25	NTU	0.20	44 180.1		0426 22:05	DP
Odor	NO ODOR	TON	1	30 2150B		0426 20:35	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30 2120B		0426 21:30	DP
Alkalinity, Total	50	mg CaCO3/L	2.0	30 2320B		0427 15:53	AI
Solids, Total Dissolved	280	mg/l	10	30 2540C		0503 06:50	DT
Anions by Ion Chromatography							
Chloride	96	mg/l	2.5	44 300.0		0501 22:46	ED
Sulfate	21	mg/l	1.0	44 300.0		0501 15:58	ED
pH	6.4	SU	-	4 150.1		0426 21:45	DP
Hardness	77	mg/l	1.7	19 200.7	0427 18:00	0428 16:35	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0427 18:00	0428 16:35	RW
Calcium, Total	22	mg/l	0.10	19 200.7	0427 18:00	0428 16:35	RW
Copper, Total	0.005	mg/l	0.002	19 200.7	0427 18:00	0501 15:24	RW
Iron, Total	5.7	mg/l	0.05	19 200.7	0427 18:00	0428 16:35	RW
Magnesium, Total	5.0	mg/l	0.10	19 200.7	0427 18:00	0428 16:35	RW
Manganese, Total	0.66	mg/l	0.01	19 200.7	0427 18:00	0428 16:35	RW
Potassium, Total	4.6	mg/l	2.5	19 200.7	0427 18:00	0428 16:35	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0427 18:00	0428 16:35	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0427 18:00	0428 16:35	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0605888-04
TW-4
Sample Matrix: DW

Date Collected: 26-APR-2006 16:15
Date Received : 26-APR-2006
Date Reported : 03-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	19	NTU	0.20	44 180.1		0426 22:05	DP
Odor	NO ODOR	TON	1	30 2150B		0426 20:35	DP
Color, Apparent	22	A.P.C.U.	5.0	30 2120B		0426 21:30	DP
Alkalinity, Total	97	mg CaCO3/L	2.0	30 2320B		0427 15:53	AI
Solids, Total Dissolved	550	mg/l	10	30 2540C		0503 06:50	DT
Anions by Ion Chromatography							
Chloride	190	mg/l	2.5	44 300.0		0501 23:03	ED
Sulfate	24	mg/l	1.0	44 300.0		0501 16:15	ED
pH	7.2	SU	-	4 150.1		0426 21:45	DP
Hardness	210	mg/l	1.7	19 200.7	0427 18:00	0428 16:38	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0427 18:00	0428 16:38	RW
Calcium, Total	65	mg/l	0.10	19 200.7	0427 18:00	0428 16:38	RW
Copper, Total	0.002	mg/l	0.002	19 200.7	0427 18:00	0501 15:27	RW
Iron, Total	5.2	mg/l	0.05	19 200.7	0427 18:00	0428 16:38	RW
Magnesium, Total	11	mg/l	0.10	19 200.7	0427 18:00	0428 16:38	RW
Manganese, Total	1.4	mg/l	0.01	19 200.7	0427 18:00	0428 16:38	RW
Potassium, Total	6.8	mg/l	2.5	19 200.7	0427 18:00	0428 16:38	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0427 18:00	0428 16:38	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0427 18:00	0428 16:38	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0605888

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0605888-04, WG237442-3)					
Turbidity	19	19	NTU	0	
Color, Apparent for sample(s) 01-04 (L0605888-04, WG237448-1)					
Color, Apparent	22	22	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0605408-01, WG237534-4)					
Alkalinity, Total	65	65	mg CaCO3/L	0	4
Solids, Total Dissolved for sample(s) 01-04 (L0605847-01, WG238122-3)					
Solids, Total Dissolved	46	46	mg/l	0	11
Anions by Ion Chromatography for sample(s) 01-04 (L0605888-02, WG237995-4)					
Chloride	85	85	mg/l	0	20
Sulfate	17	17	mg/l	0	20
pH for sample(s) 01-04 (L0605888-04, WG237445-2)					
pH	7.2	7.3	SU	1	
Hardness for sample(s) 01-04 (L0605847-01, WG237593-1)					
Hardness	13	13	mg/l	0	
Total Metals for sample(s) 01-04 (L0605847-01, WG237593-1)					
Aluminum, Total	ND	ND	mg/l	NC	
Calcium, Total	4.3	4.3	mg/l	0	
Copper, Total	ND	ND	mg/l	NC	
Iron, Total	ND	ND	mg/l	NC	
Magnesium, Total	0.67	0.67	mg/l	0	
Manganese, Total	ND	ND	mg/l	NC	
Potassium, Total	ND	ND	mg/l	NC	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0605888

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG237442-2)		
Turbidity	106	
Alkalinity, Total LCS for sample(s) 01-04 (WG237534-2)		
Alkalinity, Total	105	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG238122-2)		
Solids, Total Dissolved	91	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG237995-2)		
Chloride	95	90-110
Sulfate	92	90-110
pH LCS for sample(s) 01-04 (WG237445-1)		
pH	100	
Hardness LCS for sample(s) 01-04 (WG237593-4)		
Hardness	94	
Total Metals LCS for sample(s) 01-04 (WG237593-4)		
Aluminum, Total	95	
Calcium, Total	91	
Copper, Total	91	
Iron, Total	97	
Magnesium, Total	95	
Manganese, Total	94	
Potassium, Total	97	
Silver, Total	92	
Zinc, Total	99	
Alkalinity, Total SPIKE for sample(s) 01-04 (L0605408-01, WG237534-3)		
Alkalinity, Total	102	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0605888-02, WG237995-3)		
Chloride	175	80-120
Sulfate	238	80-120
Hardness SPIKE for sample(s) 01-04 (L0605847-01, WG237593-2)		
Hardness	91	
Total Metals SPIKE for sample(s) 01-04 (L0605847-01, WG237593-2)		
Aluminum, Total	95	
Calcium, Total	87	
Copper, Total	91	
Iron, Total	94	
Magnesium, Total	91	
Manganese, Total	94	
Potassium, Total	110	
Silver, Total	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0605888

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0605847-01, WG237593-2)		
Zinc, Total	95	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0605888

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG237442-1)								
Turbidity	ND	NTU	0.20	44	180.1		0426 22:05	DP
Blank Analysis for sample(s) 01-04 (WG237449-1)								
Odor	NO ODOR	TON	1	30	2150B		0426 20:35	DP
Blank Analysis for sample(s) 01-04 (WG237534-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0427 15:53	AI
Blank Analysis for sample(s) 01-04 (WG238122-1)								
Solids, Total Dissolved	ND	mg/l	10.	30	2540C		0503 06:50	DT
Blank Analysis for sample(s) 01-04 (WG237995-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0501 12:17	ED
Sulfate	ND	mg/l	1.0	44	300.0		0501 12:17	ED
Blank Analysis for sample(s) 01-04 (WG237593-3)								
Hardness	ND	mg/l	1.7	19	200.7	0427 18:00	0428 15:57	RW
Blank Analysis for sample(s) 01-04 (WG237593-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0427 18:00	0428 15:57	RW
Calcium, Total	ND	mg/l	0.10	19	200.7	0427 18:00	0428 15:57	RW
Copper, Total	ND	mg/l	0.002	19	200.7	0427 18:00	0501 14:51	RW
Iron, Total	ND	mg/l	0.05	19	200.7	0427 18:00	0428 15:57	RW
Magnesium, Total	ND	mg/l	0.10	19	200.7	0427 18:00	0428 15:57	RW
Manganese, Total	ND	mg/l	0.01	19	200.7	0427 18:00	0428 15:57	RW
Potassium, Total	ND	mg/l	2.5	19	200.7	0427 18:00	0428 15:57	RW
Silver, Total	ND	mg/l	0.007	19	200.7	0427 18:00	0428 15:57	RW
Zinc, Total	ND	mg/l	0.050	19	200.7	0427 18:00	0428 15:57	RW

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/26

ALPHA Job #: L0605888

ALPHA
WOODS HOLE LAB
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193
RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: SEA Consultants Inc
Address: 485 Mass Ave
Cambridge
Phone: 508 743 7882
Fax: 508 444 8922
Email: Peter.Newton@Seacon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Birch Rd Well Reactivation
Project Location: Framingham MA
Project #: 2004194.10-A
Project Manager: Peter Newton
ALPHA Quote #: See Jim O

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/3 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: See Contaminants

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
5888 1	TW-1	4/26/06		DW	MA	
2	TW-2	↓	1615	↓	MA	
3	TW-3	↓		↓	MA	
4.	TW-4	↓		↓	MA	

*See Jim O for Details!

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Peter G. Newton	4/26/06 18:15	[signature]	4/26 1815

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606038

Date Received: 28-APR-2006

Date Reported: 05-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606038-01	TW-1	FRAMINGHAM, MA
L0606038-02	TW-2	FRAMINGHAM, MA
L0606038-03	TW-3	FRAMINGHAM, MA
L0606038-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606038

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606038-01
TW-1
Sample Matrix: DW

Date Collected: 28-APR-2006 13:30
Date Received : 28-APR-2006
Date Reported : 05-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0428 20:05	DP
Odor	NO ODOR	TON	1	30 2150B		0428 20:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0428 21:30	DP
Alkalinity, Total	65	mg CaCO3/L	2.0	30 2320B		0430 13:23	JT
Solids, Total Dissolved	480	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	160	mg/l	5.0	44 300.0		0501 23:54	ED
Sulfate	25	mg/l	1.0	44 300.0		0501 17:23	ED
pH	6.6	SU	-	4 150.1		0428 21:15	DP
Hardness	170	mg/l	1.7	19 200.7	0502 16:00	0503 14:09	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 14:09	CA
Calcium, Total	51	mg/l	0.10	19 200.7	0502 16:00	0503 14:09	CA
Copper, Total	ND	mg/l	0.002	19 200.7	0502 16:00	0503 14:09	CA
Iron, Total	0.08	mg/l	0.05	19 200.7	0502 16:00	0503 14:09	CA
Magnesium, Total	11	mg/l	0.10	19 200.7	0502 16:00	0503 14:09	CA
Manganese, Total	ND	mg/l	0.01	19 200.7	0502 16:00	0503 14:09	CA
Potassium, Total	4.2	mg/l	2.5	19 200.7	0502 16:00	0503 14:09	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 14:09	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 14:09	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606038-02
TW-2
Sample Matrix: DW

Date Collected: 28-APR-2006 13:30
Date Received : 28-APR-2006
Date Reported : 05-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0428 20:05	DP
Odor	NO ODOR	TON	1	30 2150B		0428 20:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0428 21:30	DP
Alkalinity, Total	65	mg CaCO3/L	2.0	30 2320B		0430 13:23	JT
Solids, Total Dissolved	260	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	82	mg/l	5.0	44 300.0		0502 00:11	ED
Sulfate	19	mg/l	1.0	44 300.0		0501 17:40	ED
pH	6.7	SU	-	4 150.1		0428 21:15	DP
Hardness	87	mg/l	1.7	19 200.7	0502 16:00	0503 14:20	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 14:20	CA
Calcium, Total	26	mg/l	0.10	19 200.7	0502 16:00	0503 14:20	CA
Copper, Total	ND	mg/l	0.002	19 200.7	0502 16:00	0503 14:20	CA
Iron, Total	0.06	mg/l	0.05	19 200.7	0502 16:00	0503 14:20	CA
Magnesium, Total	5.6	mg/l	0.10	19 200.7	0502 16:00	0503 14:20	CA
Manganese, Total	0.07	mg/l	0.01	19 200.7	0502 16:00	0503 14:20	CA
Potassium, Total	3.3	mg/l	2.5	19 200.7	0502 16:00	0503 14:20	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 14:20	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 14:20	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606038-03
TW-3
Sample Matrix: DW

Date Collected: 28-APR-2006 13:20
Date Received : 28-APR-2006
Date Reported : 05-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.20	NTU	0.20	44 180.1		0428 20:05	DP
Odor	NO ODOR	TON	1	30 2150B		0428 20:40	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30 2120B		0428 21:30	DP
Alkalinity, Total	59	mg CaCO3/L	2.0	30 2320B		0430 13:23	JT
Solids, Total Dissolved	300	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	100	mg/l	5.0	44 300.0		0502 00:28	ED
Sulfate	24	mg/l	1.0	44 300.0		0501 17:57	ED
pH	6.4	SU	-	4 150.1		0428 21:15	DP
Hardness	86	mg/l	1.7	19 200.7	0502 16:00	0503 14:56	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 14:56	CA
Calcium, Total	26	mg/l	0.10	19 200.7	0502 16:00	0503 14:56	CA
Copper, Total	0.003	mg/l	0.002	19 200.7	0502 16:00	0503 14:56	CA
Iron, Total	4.3	mg/l	0.05	19 200.7	0502 16:00	0503 14:56	CA
Magnesium, Total	5.4	mg/l	0.10	19 200.7	0502 16:00	0503 14:56	CA
Manganese, Total	0.74	mg/l	0.01	19 200.7	0502 16:00	0503 14:56	CA
Potassium, Total	4.3	mg/l	2.5	19 200.7	0502 16:00	0503 14:56	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 14:56	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 14:56	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606038-04
TW-4
Sample Matrix: DW

Date Collected: 28-APR-2006 13:20
Date Received : 28-APR-2006
Date Reported : 05-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	11	NTU	0.20	44 180.1		0428 20:05	DP
Odor	NO ODOR	TON	1	30 2150B		0428 20:40	DP
Color, Apparent	32	A.P.C.U.	10	30 2120B		0428 21:30	DP
Alkalinity, Total	86	mg CaCO3/L	2.0	30 2320B		0430 13:23	JT
Solids, Total Dissolved	390	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	120	mg/l	5.0	44 300.0		0502 00:45	ED
Sulfate	23	mg/l	1.0	44 300.0		0501 18:14	ED
pH	7.2	SU	-	4 150.1		0428 21:15	DP
Hardness	150	mg/l	1.7	19 200.7	0502 16:00	0503 14:59	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 14:59	CA
Calcium, Total	47	mg/l	0.10	19 200.7	0502 16:00	0503 14:59	CA
Copper, Total	0.003	mg/l	0.002	19 200.7	0502 16:00	0503 14:59	CA
Iron, Total	4.6	mg/l	0.05	19 200.7	0502 16:00	0503 14:59	CA
Magnesium, Total	8.2	mg/l	0.10	19 200.7	0502 16:00	0503 14:59	CA
Manganese, Total	0.95	mg/l	0.01	19 200.7	0502 16:00	0503 14:59	CA
Potassium, Total	4.7	mg/l	2.5	19 200.7	0502 16:00	0503 14:59	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 14:59	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 14:59	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606038

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606038-04, WG237735-3)					
Turbidity	11	11	NTU	0	
Color, Apparent for sample(s) 01-04 (L0606038-03, WG237754-1)					
Color, Apparent	7.0	7.0	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606038-01, WG237815-3)					
Alkalinity, Total	65	65	mg CaCO3/L	0	4
Solids, Total Dissolved for sample(s) 01-04 (L0606038-01, WG238265-3)					
Solids, Total Dissolved	480	480	mg/l	0	11
Anions by Ion Chromatography for sample(s) 01-04 (L0605888-02, WG237995-4)					
Chloride	85	85	mg/l	0	20
Sulfate	17	17	mg/l	0	20
pH for sample(s) 01-04 (L0606038-04, WG237762-2)					
pH	7.2	7.2	SU	0	
Hardness for sample(s) 01-04 (L0606038-01, WG238067-1)					
Hardness	170	170	mg/l	0	
Total Metals for sample(s) 01-04 (L0606038-01, WG238067-1)					
Aluminum, Total	ND	ND	mg/l	NC	
Calcium, Total	51	51	mg/l	0	
Copper, Total	ND	ND	mg/l	NC	
Iron, Total	0.08	0.07	mg/l	15	
Magnesium, Total	11	11	mg/l	0	
Manganese, Total	ND	ND	mg/l	NC	
Potassium, Total	4.2	4.2	mg/l	0	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606038

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG237735-2)		
Turbidity	106	
Alkalinity, Total LCS for sample(s) 01-04 (WG237815-2)		
Alkalinity, Total	102	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG238265-2)		
Solids, Total Dissolved	92	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG237995-2)		
Chloride	95	90-110
Sulfate	92	90-110
pH LCS for sample(s) 01-04 (WG237762-1)		
pH	100	
Hardness LCS for sample(s) 01-04 (WG238067-4)		
Hardness	89	
Total Metals LCS for sample(s) 01-04 (WG238067-4)		
Aluminum, Total	95	
Calcium, Total	88	
Copper, Total	91	
Iron, Total	94	
Magnesium, Total	90	
Manganese, Total	92	
Potassium, Total	88	
Silver, Total	91	
Zinc, Total	92	
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606038-01, WG237815-4)		
Alkalinity, Total	85	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0605888-02, WG237995-3)		
Chloride	175	80-120
Sulfate	238	80-120
Hardness SPIKE for sample(s) 01-04 (L0606038-01, WG238067-2)		
Hardness	91	
Total Metals SPIKE for sample(s) 01-04 (L0606038-01, WG238067-2)		
Aluminum, Total	95	
Calcium, Total	80	
Copper, Total	89	
Iron, Total	88	
Magnesium, Total	80	
Manganese, Total	88	
Potassium, Total	108	
Silver, Total	88	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606038

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606038-01, WG238067-2)		
Zinc, Total	92	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606038

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG237735-1)								
Turbidity	ND	NTU	0.20	44	180.1		0428 20:05	DP
Blank Analysis for sample(s) 01-04 (WG237755-1)								
Odor	NO ODOR	TON	1	30	2150B		0428 20:40	DP
Blank Analysis for sample(s) 01-04 (WG237815-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0430 13:23	JT
Blank Analysis for sample(s) 01-04 (WG238265-1)								
Solids, Total Dissolved	ND	mg/l	10	30	2540C		0504 16:10	DT
Blank Analysis for sample(s) 01-04 (WG237995-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0501 12:17	ED
Sulfate	ND	mg/l	1.0	44	300.0		0501 12:17	ED
Blank Analysis for sample(s) 01-04 (WG238067-3)								
Hardness	ND	mg/l	1.7	19	200.7	0502 16:00	0503 13:54	CA
Blank Analysis for sample(s) 01-04 (WG238067-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Calcium, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Copper, Total	ND	mg/l	0.002	19	200.7	0502 16:00	0503 13:54	CA
Iron, Total	ND	mg/l	0.05	19	200.7	0502 16:00	0503 13:54	CA
Magnesium, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Manganese, Total	ND	mg/l	0.01	19	200.7	0502 16:00	0503 13:54	CA
Potassium, Total	ND	mg/l	2.5	19	200.7	0502 16:00	0503 13:54	CA
Silver, Total	ND	mg/l	0.007	19	200.7	0502 16:00	0503 13:54	CA
Zinc, Total	ND	mg/l	0.050	19	200.7	0502 16:00	0503 13:54	CA

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/28

ALPHA Job #: L0606038

ALPHA
WOODS HOLE LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SEA Consultants
Address: 485 Mass. Ave
Cambridge MA 02139
Phone: 508-965-2037
Fax:
Email: peter.Newton@seacon.com
❑ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd
Project Location: Framingham
Project #: 20041194.10
Project Manager: P. Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ❑ RUSH (only confirmed if pre-approved!)
Date Due: 5/5 Time:

Report Information - Data Deliverables

❑ FAX ☒ EMAIL
☒ ADEx ❑ Add'l Deliverables

Billing Information

❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: MassMCL Criteria: Drinking water stds

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

❑ Yes ❑ No Are MCP Analytical Methods Required?
❑ Yes ❑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Turbidity, Color, TDS, Cl	Total Metals, Hardness	Color, pH, Alk, SO4	Sample Specific Comments	Total # Bottles
6038-1	TW-1	4/28/06	13:30	DW	KR	X	X	X		
2	TW-2	↓	1330	DW	MA	X	X	X		
3	TW-3		1320	DW	MA	X	X	X		
4	TW-4	✓	1320	DW	KR	X	X	X		

SAMPLE HANDLING
Filtration
❑ Done
❑ Not needed
❑ Lab to do
Preservation
❑ Lab to do
(Please specify below)

Cortainer Type	P	P	A
Preservative	A	C	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP? NO

Relinquished By:	Date/Time	Received By:	Date/Time
Ed Butler	4/28/06 16:15	Ed Butler	4/28/06 16:15
	4/28/06 16:15		4/28/06 17:00

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606090

Date Received: 01-MAY-2006

Date Reported: 08-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606090-01	TW-1	FRAMINGHAM, MA
L0606090-02	TW-2	FRAMINGHAM, MA
L0606090-03	TW-3	FRAMINGHAM, MA
L0606090-04	TW-4	FRAMINGHAM, MA
L0606090-05	DUP	FRAMINGHAM, MA
L0606090-06	TRIP BLANK	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606090

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Volatile Organics

The WG238271-5 LCS % recovery for Bromomethane is above the acceptance criteria for the method.

The WG238271-1 MS % recovery for Bromomethane is above the acceptance criteria for the method.

Chloride

The MS % recovery is invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-01
TW-1
Sample Matrix: DW

Date Collected: 30-APR-2006 17:25
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Bacteria,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.20	NTU	0.20	44	180.1		0501 17:55	DP
Odor	NO ODOR	TON	1	30	2150B		0501 19:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30	2120B		0501 22:00	DP
Alkalinity, Total	78	mg CaCO3/L	2.0	30	2320B		0505 11:59	JT
Solids, Total Dissolved	410	mg/l	10	30	2540C		0504 16:10	DT
Anions by Ion Chromatography								
Chloride	150	mg/l	2.5	44	300.0		0504 19:08	ED
Sulfate	29	mg/l	5.0	44	300.0		0504 19:08	ED
pH	6.6	SU	-	4	150.1		0501 19:25	DP
Bacteria in Water				30	9223B		0501 17:10	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Hardness	180	mg/l	1.7	19	200.7	0502 16:00	0503 15:02	CA
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 15:02	CA
Calcium, Total	54	mg/l	0.10	19	200.7	0502 16:00	0503 15:02	CA
Copper, Total	ND	mg/l	0.002	19	200.7	0502 16:00	0503 15:02	CA
Iron, Total	0.08	mg/l	0.05	19	200.7	0502 16:00	0503 15:02	CA
Magnesium, Total	12	mg/l	0.10	19	200.7	0502 16:00	0503 15:02	CA
Manganese, Total	ND	mg/l	0.01	19	200.7	0502 16:00	0503 15:02	CA
Potassium, Total	4.4	mg/l	2.5	19	200.7	0502 16:00	0503 15:02	CA
Silver, Total	ND	mg/l	0.007	19	200.7	0502 16:00	0503 15:02	CA
Zinc, Total	ND	mg/l	0.050	19	200.7	0502 16:00	0503 15:02	CA
Volatile Organics by GC/MS 524.2				16	524.2		0502 13:57	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					
Chloroform	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-01
TW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 13:57	MM
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-01
TW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 13:57	MM
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	98.0	%	80-120				
4-Bromofluorobenzene	96.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-02
TW-2
Sample Matrix: DW

Date Collected: 30-APR-2006 17:20
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Bacteria,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0501 17:55	DP
Odor	NO ODOR	TON	1	30 2150B		0501 19:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0501 22:00	DP
Alkalinity, Total	67	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	240	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	81	mg/l	5.0	44 300.0		0504 19:59	ED
Sulfate	22	mg/l	1.0	44 300.0		0504 16:35	ED
pH	6.7	SU	-	4 150.1		0501 19:25	DP
Bacteria in Water				30 9223B		0501 17:10	HS
Coliform, Total	Negative	col/100ml	0				
Escherichia Coli	Negative	col/100ml	0				
Hardness	86	mg/l	1.7	19 200.7	0502 16:00	0503 15:05	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 15:05	CA
Calcium, Total	25	mg/l	0.10	19 200.7	0502 16:00	0503 15:05	CA
Copper, Total	ND	mg/l	0.002	19 200.7	0502 16:00	0503 15:05	CA
Iron, Total	0.06	mg/l	0.05	19 200.7	0502 16:00	0503 15:05	CA
Magnesium, Total	5.6	mg/l	0.10	19 200.7	0502 16:00	0503 15:05	CA
Manganese, Total	0.05	mg/l	0.01	19 200.7	0502 16:00	0503 15:05	CA
Potassium, Total	3.3	mg/l	2.5	19 200.7	0502 16:00	0503 15:05	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 15:05	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 15:05	CA
Volatile Organics by GC/MS 524.2				16 524.2		0502 14:29	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-02
TW-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 14:29	MM
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-02
TW-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 14:29	MM
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	97.0	%	80-120				
4-Bromofluorobenzene	96.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-03
TW-3
Sample Matrix: DW

Date Collected: 30-APR-2006 17:30
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Bacteria,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.41	NTU	0.20	44 180.1		0501 17:55	DP
Odor	NO ODOR	TON	1	30 2150B		0501 19:40	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30 2120B		0501 22:00	DP
Alkalinity, Total	60	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	300	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	110	mg/l	5.0	44 300.0		0504 20:16	ED
Sulfate	23	mg/l	1.0	44 300.0		0504 16:52	ED
pH	6.5	SU	-	4 150.1		0501 19:25	DP
Bacteria in Water				30 9223B		0501 17:10	HS
Coliform, Total	Negative	col/100ml	0				
Escherichia Coli	Negative	col/100ml	0				
Hardness	96	mg/l	1.7	19 200.7	0502 16:00	0503 15:08	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 15:08	CA
Calcium, Total	29	mg/l	0.10	19 200.7	0502 16:00	0503 15:08	CA
Copper, Total	ND	mg/l	0.002	19 200.7	0502 16:00	0503 15:08	CA
Iron, Total	4.4	mg/l	0.05	19 200.7	0502 16:00	0503 15:08	CA
Magnesium, Total	5.9	mg/l	0.10	19 200.7	0502 16:00	0503 15:08	CA
Manganese, Total	0.81	mg/l	0.01	19 200.7	0502 16:00	0503 15:08	CA
Potassium, Total	4.5	mg/l	2.5	19 200.7	0502 16:00	0503 15:08	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 15:08	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 15:08	CA
Volatile Organics by GC/MS 524.2				16 524.2		0502 15:02	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-03
TW-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 15:02	MM
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-03
TW-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 15:02	MM
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	99.0	%	80-120				
4-Bromofluorobenzene	96.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-04
TW-4
Sample Matrix: DW

Date Collected: 30-APR-2006 17:15
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Bacteria,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	15	NTU	0.20	44 180.1		0501 17:55	DP
Odor	NO ODOR	TON	1	30 2150B		0501 19:40	DP
Color, Apparent	32	A.P.C.U.	10	30 2120B		0501 22:00	DP
Alkalinity, Total	85	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	310	mg/l	10	30 2540C		0504 16:10	DT
Anions by Ion Chromatography							
Chloride	100	mg/l	5.0	44 300.0		0504 20:33	ED
Sulfate	22	mg/l	1.0	44 300.0		0504 17:09	ED
pH	7.2	SU	-	4 150.1		0501 19:25	DP
Bacteria in Water				30 9223B		0501 17:10	HS
Coliform, Total	Negative	col/100ml	0				
Escherichia Coli	Negative	col/100ml	0				
Hardness	130	mg/l	1.7	19 200.7	0502 16:00	0503 15:10	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0502 16:00	0503 15:10	CA
Calcium, Total	41	mg/l	0.10	19 200.7	0502 16:00	0503 15:10	CA
Copper, Total	ND	mg/l	0.002	19 200.7	0502 16:00	0503 15:10	CA
Iron, Total	4.3	mg/l	0.05	19 200.7	0502 16:00	0503 15:10	CA
Magnesium, Total	7.2	mg/l	0.10	19 200.7	0502 16:00	0503 15:10	CA
Manganese, Total	0.81	mg/l	0.01	19 200.7	0502 16:00	0503 15:10	CA
Potassium, Total	4.2	mg/l	2.5	19 200.7	0502 16:00	0503 15:10	CA
Silver, Total	ND	mg/l	0.007	19 200.7	0502 16:00	0503 15:10	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0502 16:00	0503 15:10	CA
Volatile Organics by GC/MS 524.2				16 524.2		0502 15:34	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-04
TW-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 15:34	MM
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	3.0	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-04
TW-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 15:34	MM
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	99.0	%	80-120				
4-Bromofluorobenzene	95.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-05 DUP
Sample Matrix: DW

Date Collected: 30-APR-2006 00:00
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2				16 524.2		0502 16:07	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-05
DUP

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 16:07	MM
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	97.0	%	80-120				
4-Bromofluorobenzene	97.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606090-06
TRIP BLANK
Sample Matrix: WATER

Date Collected: 21-APR-2006 12:00
Date Received : 01-MAY-2006
Date Reported : 08-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2				16 524.2		0503 11:27	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606090-06
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0503 11:27	MM
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	97.0	%	80-120				
4-Bromofluorobenzene	93.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606090

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606090-04, WG237970-3)					
Turbidity	15	16	NTU	6	
Color, Apparent for sample(s) 01-04 (L0606090-03, WG237972-1)					
Color, Apparent	7.0	7.0	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606090-01, WG238463-3)					
Alkalinity, Total	78	75	mg CaCO3/L	4	4
Solids, Total Dissolved for sample(s) 01-04 (L0606038-01, WG238265-3)					
Solids, Total Dissolved	480	480	mg/l	0	11
Anions by Ion Chromatography for sample(s) 01-04 (L0606090-01, WG238454-4)					
Chloride	150	150	mg/l	0	20
Sulfate	29	29	mg/l	0	20
pH for sample(s) 01-04 (L0606090-01, WG237976-2)					
pH	6.6	6.6	SU	0	
Hardness for sample(s) 01-04 (L0606038-01, WG238067-1)					
Hardness	170	170	mg/l	0	
Total Metals for sample(s) 01-04 (L0606038-01, WG238067-1)					
Aluminum, Total	ND	ND	mg/l	NC	
Calcium, Total	51	51	mg/l	0	
Copper, Total	ND	ND	mg/l	NC	
Iron, Total	0.08	0.07	mg/l	15	
Magnesium, Total	11	11	mg/l	0	
Manganese, Total	ND	ND	mg/l	NC	
Potassium, Total	4.2	4.2	mg/l	0	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	
Volatile Organics by GC/MS 524.2 for sample(s) 05 (L0606078-01, WG238166-2)					
Methylene chloride	ND	ND	ug/l	NC	20
1,1-Dichloroethane	ND	ND	ug/l	NC	20
Chloroform	ND	ND	ug/l	NC	20
Carbon tetrachloride	ND	ND	ug/l	NC	20
1,2-Dichloropropane	ND	ND	ug/l	NC	20
Dibromochloromethane	ND	ND	ug/l	NC	20
1,1,2-Trichloroethane	ND	ND	ug/l	NC	20
Tetrachloroethene	ND	ND	ug/l	NC	20
Chlorobenzene	ND	ND	ug/l	NC	20
Trichlorofluoromethane	ND	ND	ug/l	NC	20
1,2-Dichloroethane	ND	ND	ug/l	NC	20
1,1,1-Trichloroethane	ND	ND	ug/l	NC	20
Bromodichloromethane	ND	ND	ug/l	NC	20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606090

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 524.2 for sample(s) 05 (L0606078-01, WG238166-2)					
Bromoform	ND	ND	ug/l	NC	20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	20
Benzene	ND	ND	ug/l	NC	20
Toluene	ND	ND	ug/l	NC	20
Ethylbenzene	ND	ND	ug/l	NC	20
p/m-Xylene	ND	ND	ug/l	NC	20
Chloromethane	ND	ND	ug/l	NC	20
Bromomethane	ND	ND	ug/l	NC	20
Vinyl chloride	ND	ND	ug/l	NC	20
Chloroethane	ND	ND	ug/l	NC	20
1,1-Dichloroethene	ND	ND	ug/l	NC	20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	20
Trichloroethene	ND	ND	ug/l	NC	20
1,2-Dichlorobenzene	ND	ND	ug/l	NC	20
1,3-Dichlorobenzene	ND	ND	ug/l	NC	20
1,4-Dichlorobenzene	ND	ND	ug/l	NC	20
Styrene	ND	ND	ug/l	NC	20
o-Xylene	ND	ND	ug/l	NC	20
1,1-Dichloropropene	ND	ND	ug/l	NC	20
2,2-Dichloropropane	ND	ND	ug/l	NC	20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC	20
1,2,3-Trichloropropane	ND	ND	ug/l	NC	20
Bromochloromethane	ND	ND	ug/l	NC	20
n-Butylbenzene	ND	ND	ug/l	NC	20
Dichlorodifluoromethane	ND	ND	ug/l	NC	20
Hexachlorobutadiene	ND	ND	ug/l	NC	20
Isopropylbenzene	ND	ND	ug/l	NC	20
p-Isopropyltoluene	ND	ND	ug/l	NC	20
Naphthalene	ND	ND	ug/l	NC	20
n-Propylbenzene	ND	ND	ug/l	NC	20
sec-Butylbenzene	ND	ND	ug/l	NC	20
tert-Butylbenzene	ND	ND	ug/l	NC	20
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC	20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC	20
Bromobenzene	ND	ND	ug/l	NC	20
o-Chlorotoluene	ND	ND	ug/l	NC	20
p-Chlorotoluene	ND	ND	ug/l	NC	20
Dibromomethane	ND	ND	ug/l	NC	20
1,2-Dibromoethane	ND	ND	ug/l	NC	20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC	20
1,3-Dichloropropane	ND	ND	ug/l	NC	20
Methyl tert butyl ether	ND	ND	ug/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606090

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 524.2 for sample(s) 05 (L0606078-01, WG238166-2)					
Surrogate(s)	Recovery				QC Criteria
1,2-Dichlorobenzene-d4	98.0	97.0	%	20	80-120
4-Bromofluorobenzene	98.0	94.0	%	20	80-120
Volatile Organics by GC/MS 524.2 for sample(s) 01-04,06 (L0606090-02, WG238271-2)					
Methylene chloride	ND	ND	ug/l	NC	20
1,1-Dichloroethane	ND	ND	ug/l	NC	20
Chloroform	ND	ND	ug/l	NC	20
Carbon tetrachloride	ND	ND	ug/l	NC	20
1,2-Dichloropropane	ND	ND	ug/l	NC	20
Dibromochloromethane	ND	ND	ug/l	NC	20
1,1,2-Trichloroethane	ND	ND	ug/l	NC	20
Tetrachloroethene	ND	ND	ug/l	NC	20
Chlorobenzene	ND	ND	ug/l	NC	20
Trichlorofluoromethane	ND	ND	ug/l	NC	20
1,2-Dichloroethane	ND	ND	ug/l	NC	20
1,1,1-Trichloroethane	ND	ND	ug/l	NC	20
Bromodichloromethane	ND	ND	ug/l	NC	20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	20
Bromoform	ND	ND	ug/l	NC	20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	20
Benzene	ND	ND	ug/l	NC	20
Toluene	ND	ND	ug/l	NC	20
Ethylbenzene	ND	ND	ug/l	NC	20
p/m-Xylene	ND	ND	ug/l	NC	20
Chloromethane	ND	ND	ug/l	NC	20
Bromomethane	ND	ND	ug/l	NC	20
Vinyl chloride	ND	ND	ug/l	NC	20
Chloroethane	ND	ND	ug/l	NC	20
1,1-Dichloroethene	ND	ND	ug/l	NC	20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	20
Trichloroethene	ND	ND	ug/l	NC	20
1,2-Dichlorobenzene	ND	ND	ug/l	NC	20
1,3-Dichlorobenzene	ND	ND	ug/l	NC	20
1,4-Dichlorobenzene	ND	ND	ug/l	NC	20
Styrene	ND	ND	ug/l	NC	20
o-Xylene	ND	ND	ug/l	NC	20
1,1-Dichloropropene	ND	ND	ug/l	NC	20
2,2-Dichloropropane	ND	ND	ug/l	NC	20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC	20
1,2,3-Trichloropropane	ND	ND	ug/l	NC	20
Bromochloromethane	ND	ND	ug/l	NC	20
n-Butylbenzene	ND	ND	ug/l	NC	20
Dichlorodifluoromethane	ND	ND	ug/l	NC	20
Hexachlorobutadiene	ND	ND	ug/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606090

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 524.2 for sample(s) 01-04,06 (L0606090-02, WG238271-2)					
Isopropylbenzene	ND	ND	ug/l	NC	20
p-Isopropyltoluene	ND	ND	ug/l	NC	20
Naphthalene	ND	ND	ug/l	NC	20
n-Propylbenzene	ND	ND	ug/l	NC	20
sec-Butylbenzene	ND	ND	ug/l	NC	20
tert-Butylbenzene	ND	ND	ug/l	NC	20
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC	20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC	20
Bromobenzene	ND	ND	ug/l	NC	20
o-Chlorotoluene	ND	ND	ug/l	NC	20
p-Chlorotoluene	ND	ND	ug/l	NC	20
Dibromomethane	ND	ND	ug/l	NC	20
1,2-Dibromoethane	ND	ND	ug/l	NC	20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC	20
1,3-Dichloropropane	ND	ND	ug/l	NC	20
Methyl tert butyl ether	ND	ND	ug/l	NC	20

Surrogate(s)	Recovery				QC Criteria
1,2-Dichlorobenzene-d4	97.0	99.0	%	20	80-120
4-Bromofluorobenzene	96.0	96.0	%	20	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG237970-2)		
Turbidity	106	
Alkalinity, Total LCS for sample(s) 01-04 (WG238463-2)		
Alkalinity, Total	105	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG238265-2)		
Solids, Total Dissolved	92	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG238454-2)		
Chloride	95	90-110
Sulfate	95	90-110
pH LCS for sample(s) 01-04 (WG237976-1)		
pH	99	
Hardness LCS for sample(s) 01-04 (WG238067-4)		
Hardness	89	
Total Metals LCS for sample(s) 01-04 (WG238067-4)		
Aluminum, Total	95	
Calcium, Total	88	
Copper, Total	91	
Iron, Total	94	
Magnesium, Total	90	
Manganese, Total	92	
Potassium, Total	88	
Silver, Total	91	
Zinc, Total	92	
Volatile Organics by GC/MS 524.2 LCS for sample(s) 05 (WG238166-3)		
Methylene chloride	102	70-130
1,1-Dichloroethane	114	70-130
Chloroform	94	70-130
Carbon tetrachloride	102	70-130
1,2-Dichloropropane	106	70-130
Dibromochloromethane	106	70-130
1,1,2-Trichloroethane	111	70-130
Tetrachloroethene	109	70-130
Chlorobenzene	100	70-130
Trichlorofluoromethane	113	70-130
1,2-Dichloroethane	104	70-130
1,1,1-Trichloroethane	102	70-130
Bromodichloromethane	110	70-130
trans-1,3-Dichloropropene	96	70-130
cis-1,3-Dichloropropene	99	70-130
Bromoform	106	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Benzene	102	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 05 (WG238166-3)		
Toluene	103	70-130
Ethylbenzene	102	70-130
p/m-Xylene	103	70-130
Chloromethane	102	70-130
Bromomethane	128	70-130
Vinyl chloride	107	70-130
Chloroethane	110	70-130
1,1-Dichloroethene	100	70-130
trans-1,2-Dichloroethene	99	70-130
cis-1,2-Dichloroethene	99	70-130
Trichloroethene	105	70-130
1,2-Dichlorobenzene	100	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	100	70-130
Styrene	101	70-130
o-Xylene	100	70-130
1,1-Dichloropropene	103	70-130
2,2-Dichloropropane	118	70-130
1,1,1,2-Tetrachloroethane	107	70-130
1,2,3-Trichloropropane	126	70-130
Bromochloromethane	113	70-130
n-Butylbenzene	97	70-130
Dichlorodifluoromethane	95	70-130
Hexachlorobutadiene	106	70-130
Isopropylbenzene	97	70-130
p-Isopropyltoluene	102	70-130
Naphthalene	114	70-130
n-Propylbenzene	100	70-130
sec-Butylbenzene	100	70-130
tert-Butylbenzene	101	70-130
1,2,3-Trichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	97	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3,5-Trimethylbenzene	99	70-130
Bromobenzene	105	70-130
o-Chlorotoluene	106	70-130
p-Chlorotoluene	101	70-130
Dibromomethane	109	70-130
1,2-Dibromoethane	107	70-130
1,2-Dibromo-3-chloropropane	95	70-130
1,3-Dichloropropane	110	70-130
Methyl tert butyl ether	98	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	96	80-120
4-Bromofluorobenzene	100	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 01-04 (WG238271-3)		
Methylene chloride	102	70-130
1,1-Dichloroethane	114	70-130
Chloroform	94	70-130
Carbon tetrachloride	102	70-130
1,2-Dichloropropane	106	70-130
Dibromochloromethane	106	70-130
1,1,2-Trichloroethane	111	70-130
Tetrachloroethene	109	70-130
Chlorobenzene	100	70-130
Trichlorofluoromethane	113	70-130
1,2-Dichloroethane	104	70-130
1,1,1-Trichloroethane	102	70-130
Bromodichloromethane	110	70-130
trans-1,3-Dichloropropene	96	70-130
cis-1,3-Dichloropropene	99	70-130
Bromoform	106	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Benzene	102	70-130
Toluene	103	70-130
Ethylbenzene	102	70-130
p/m-Xylene	103	70-130
Chloromethane	102	70-130
Bromomethane	128	70-130
Vinyl chloride	107	70-130
Chloroethane	110	70-130
1,1-Dichloroethene	100	70-130
trans-1,2-Dichloroethene	99	70-130
cis-1,2-Dichloroethene	99	70-130
Trichloroethene	105	70-130
1,2-Dichlorobenzene	100	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	100	70-130
Styrene	101	70-130
o-Xylene	100	70-130
1,1-Dichloropropene	103	70-130
2,2-Dichloropropane	118	70-130
1,1,1,2-Tetrachloroethane	107	70-130
1,2,3-Trichloropropane	126	70-130
Bromochloromethane	113	70-130
n-Butylbenzene	97	70-130
Dichlorodifluoromethane	95	70-130
Hexachlorobutadiene	106	70-130
Isopropylbenzene	97	70-130
p-Isopropyltoluene	102	70-130
Naphthalene	114	70-130
n-Propylbenzene	100	70-130
sec-Butylbenzene	100	70-130
tert-Butylbenzene	101	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 01-04 (WG238271-3)		
1,2,3-Trichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	97	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3,5-Trimethylbenzene	99	70-130
Bromobenzene	105	70-130
o-Chlorotoluene	106	70-130
p-Chlorotoluene	101	70-130
Dibromomethane	109	70-130
1,2-Dibromoethane	107	70-130
1,2-Dibromo-3-chloropropane	95	70-130
1,3-Dichloropropane	110	70-130
Methyl tert butyl ether	98	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	96	80-120
4-Bromofluorobenzene	100	80-120
Volatile Organics by GC/MS 524.2 LCS for sample(s) 06 (WG238271-5)		
Methylene chloride	107	70-130
1,1-Dichloroethane	127	70-130
Chloroform	100	70-130
Carbon tetrachloride	104	70-130
1,2-Dichloropropane	111	70-130
Dibromochloromethane	104	70-130
1,1,2-Trichloroethane	116	70-130
Tetrachloroethene	113	70-130
Chlorobenzene	103	70-130
Trichlorofluoromethane	114	70-130
1,2-Dichloroethane	106	70-130
1,1,1-Trichloroethane	105	70-130
Bromodichloromethane	110	70-130
trans-1,3-Dichloropropene	98	70-130
cis-1,3-Dichloropropene	102	70-130
Bromoform	101	70-130
1,1,2,2-Tetrachloroethane	96	70-130
Benzene	108	70-130
Toluene	107	70-130
Ethylbenzene	105	70-130
p/m-Xylene	105	70-130
Chloromethane	108	70-130
Bromomethane	149	70-130
Vinyl chloride	125	70-130
Chloroethane	119	70-130
1,1-Dichloroethene	104	70-130
trans-1,2-Dichloroethene	107	70-130
cis-1,2-Dichloroethene	108	70-130
Trichloroethene	109	70-130
1,2-Dichlorobenzene	101	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 06 (WG238271-5)		
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	103	70-130
Styrene	103	70-130
o-Xylene	99	70-130
1,1-Dichloropropene	107	70-130
2,2-Dichloropropane	123	70-130
1,1,1,2-Tetrachloroethane	109	70-130
1,2,3-Trichloropropane	121	70-130
Bromochloromethane	117	70-130
n-Butylbenzene	100	70-130
Dichlorodifluoromethane	98	70-130
Hexachlorobutadiene	103	70-130
Isopropylbenzene	99	70-130
p-Isopropyltoluene	105	70-130
Naphthalene	118	70-130
n-Propylbenzene	102	70-130
sec-Butylbenzene	101	70-130
tert-Butylbenzene	102	70-130
1,2,3-Trichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	101	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3,5-Trimethylbenzene	102	70-130
Bromobenzene	105	70-130
o-Chlorotoluene	104	70-130
p-Chlorotoluene	102	70-130
Dibromomethane	111	70-130
1,2-Dibromoethane	106	70-130
1,2-Dibromo-3-chloropropane	93	70-130
1,3-Dichloropropane	110	70-130
Methyl tert butyl ether	97	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	95	80-120
4-Bromofluorobenzene	99	80-120
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606090-01, WG238463-4)		
Alkalinity, Total	96	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0606090-01, WG238454-3)		
Chloride	50	80-120
Sulfate	88	80-120
Hardness SPIKE for sample(s) 01-04 (L0606038-01, WG238067-2)		
Hardness	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606038-01, WG238067-2)		
Aluminum, Total	95	
Calcium, Total	80	
Copper, Total	89	
Iron, Total	88	
Magnesium, Total	80	
Manganese, Total	88	
Potassium, Total	108	
Silver, Total	88	
Zinc, Total	92	
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 05 (L0605934-05, WG238166-1)		
Methylene chloride	95	70-130
1,1-Dichloroethane	115	70-130
Chloroform	103	70-130
Carbon tetrachloride	98	70-130
1,2-Dichloropropane	101	70-130
Dibromochloromethane	101	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	103	70-130
Chlorobenzene	96	70-130
Trichlorofluoromethane	108	70-130
1,2-Dichloroethane	97	70-130
1,1,1-Trichloroethane	99	70-130
Bromodichloromethane	103	70-130
trans-1,3-Dichloropropene	91	70-130
cis-1,3-Dichloropropene	94	70-130
Bromoform	97	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Benzene	98	70-130
Toluene	100	70-130
Ethylbenzene	98	70-130
p/m-Xylene	99	70-130
Chloromethane	98	70-130
Bromomethane	130	70-130
Vinyl chloride	109	70-130
Chloroethane	104	70-130
1,1-Dichloroethene	97	70-130
trans-1,2-Dichloroethene	96	70-130
cis-1,2-Dichloroethene	101	70-130
Trichloroethene	101	70-130
1,2-Dichlorobenzene	94	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	96	70-130
Styrene	98	70-130
o-Xylene	95	70-130
1,1-Dichloropropene	100	70-130
2,2-Dichloropropane	113	70-130
1,1,1,2-Tetrachloroethane	100	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 05 (L0605934-05, WG238166-1)		
1,2,3-Trichloropropane	121	70-130
Bromochloromethane	112	70-130
n-Butylbenzene	95	70-130
Dichlorodifluoromethane	88	70-130
Hexachlorobutadiene	101	70-130
Isopropylbenzene	96	70-130
p-Isopropyltoluene	99	70-130
Naphthalene	111	70-130
n-Propylbenzene	96	70-130
sec-Butylbenzene	97	70-130
tert-Butylbenzene	97	70-130
1,2,3-Trichlorobenzene	97	70-130
1,2,4-Trichlorobenzene	93	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3,5-Trimethylbenzene	97	70-130
Bromobenzene	99	70-130
o-Chlorotoluene	98	70-130
p-Chlorotoluene	97	70-130
Dibromomethane	102	70-130
1,2-Dibromoethane	101	70-130
1,2-Dibromo-3-chloropropane	93	70-130
1,3-Dichloropropane	103	70-130
Methyl tert butyl ether	93	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	96	80-120
4-Bromofluorobenzene	100	80-120
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 01-04,06 (L0606090-01, WG238271-1)		
Methylene chloride	100	70-130
1,1-Dichloroethane	122	70-130
Chloroform	98	70-130
Carbon tetrachloride	101	70-130
1,2-Dichloropropane	106	70-130
Dibromochloromethane	96	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	112	70-130
Chlorobenzene	103	70-130
Trichlorofluoromethane	114	70-130
1,2-Dichloroethane	100	70-130
1,1,1-Trichloroethane	105	70-130
Bromodichloromethane	103	70-130
trans-1,3-Dichloropropene	90	70-130
cis-1,3-Dichloropropene	95	70-130
Bromoform	100	70-130
1,1,2,2-Tetrachloroethane	97	70-130
Benzene	105	70-130
Toluene	106	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606090

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 01-04,06 (L0606090-01, WG238271-1)		
Ethylbenzene	108	70-130
p/m-Xylene	106	70-130
Chloromethane	103	70-130
Bromomethane	145	70-130
Vinyl chloride	123	70-130
Chloroethane	115	70-130
1,1-Dichloroethene	102	70-130
trans-1,2-Dichloroethene	101	70-130
cis-1,2-Dichloroethene	102	70-130
Trichloroethene	107	70-130
1,2-Dichlorobenzene	101	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	103	70-130
Styrene	102	70-130
o-Xylene	99	70-130
1,1-Dichloropropene	106	70-130
2,2-Dichloropropane	122	70-130
1,1,1,2-Tetrachloroethane	106	70-130
1,2,3-Trichloropropane	123	70-130
Bromochloromethane	113	70-130
n-Butylbenzene	103	70-130
Dichlorodifluoromethane	92	70-130
Hexachlorobutadiene	108	70-130
Isopropylbenzene	103	70-130
p-Isopropyltoluene	109	70-130
Naphthalene	110	70-130
n-Propylbenzene	106	70-130
sec-Butylbenzene	107	70-130
tert-Butylbenzene	107	70-130
1,2,3-Trichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	97	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3,5-Trimethylbenzene	106	70-130
Bromobenzene	104	70-130
o-Chlorotoluene	102	70-130
p-Chlorotoluene	103	70-130
Dibromomethane	105	70-130
1,2-Dibromoethane	103	70-130
1,2-Dibromo-3-chloropropane	92	70-130
1,3-Dichloropropane	103	70-130
Methyl tert butyl ether	94	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	95	80-120
4-Bromofluorobenzene	102	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG237970-1)								
Turbidity	ND	NTU	0.20	44	180.1		0501 17:55	DP
Blank Analysis for sample(s) 01-04 (WG237973-1)								
Odor	NO ODOR	TON	1	30	2150B		0501 19:40	DP
Blank Analysis for sample(s) 01-04 (WG238463-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0505 11:59	JT
Blank Analysis for sample(s) 01-04 (WG238265-1)								
Solids, Total Dissolved	ND	mg/l	10	30	2540C		0504 16:10	DT
Blank Analysis for sample(s) 01-04 (WG238454-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0504 14:53	ED
Sulfate	ND	mg/l	1.0	44	300.0		0504 14:53	ED
Blank Analysis for sample(s) 01-04 (WG238621-1)								
Bacteria in Water				30	9223B		0501 17:10	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Blank Analysis for sample(s) 01-04 (WG238067-3)								
Hardness	ND	mg/l	1.7	19	200.7	0502 16:00	0503 13:54	CA
Blank Analysis for sample(s) 01-04 (WG238067-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Calcium, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Copper, Total	ND	mg/l	0.002	19	200.7	0502 16:00	0503 13:54	CA
Iron, Total	ND	mg/l	0.05	19	200.7	0502 16:00	0503 13:54	CA
Magnesium, Total	ND	mg/l	0.10	19	200.7	0502 16:00	0503 13:54	CA
Manganese, Total	ND	mg/l	0.01	19	200.7	0502 16:00	0503 13:54	CA
Potassium, Total	ND	mg/l	2.5	19	200.7	0502 16:00	0503 13:54	CA
Silver, Total	ND	mg/l	0.007	19	200.7	0502 16:00	0503 13:54	CA
Zinc, Total	ND	mg/l	0.050	19	200.7	0502 16:00	0503 13:54	CA
Blank Analysis for sample(s) 05 (WG238166-4)								
Volatile Organics by GC/MS 524.2				16	524.2		0502 11:14	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 05 (WG238166-4)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 11:14	MM
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 05 (WG238166-4)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 11:14	MM
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	105	%	80-120				
4-Bromofluorobenzene	91.0	%	80-120				
Blank Analysis for sample(s) 01-04 (WG238271-4)							
Volatile Organics by GC/MS 524.2				16 524.2		0502 11:14	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238271-4)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0502 11:14	MM
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	105	%	80-120				
4-Bromofluorobenzene	91.0	%	80-120				
Blank Analysis for sample(s) 06 (WG238271-6)							
Volatile Organics by GC/MS 524.2				16 524.2		0503 09:49	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 06 (WG238271-6)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0503 09:49	MM
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606090

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 06 (WG238271-6)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0503 09:49	MM
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	99.0	%	80-120				
4-Bromofluorobenzene	94.0	%	80-120				

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

16. Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/1

ALPHA Job #: L0606090

Client Information

Client: SEA Consultants Inc.

Address: 485 Massachusetts Avenue, Cambridge, MA 02139

Phone: (617) 497-7800

Fax: (617) 498-4775

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd

Project Location: Framingham

Project #: 2004194.10 A

Project Manager: P. Newton

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/8 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10-A

Regulatory Requirements/Report Limits

State/Fed Program: MA MCL / DW stds

Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Turb, TDS, Color, Cl; Total Metals, Hardness; Odor, pH, Alk, SO4; Coliform; 504.2

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Turb, TDS, Color, Cl	Total Metals, Hardness	Odor, pH, Alk, SO4	Coliform	504.2	Sample Specific Comments	TOTAL # BOTTLES
6090.1	TW-1	4/30/06	1725	DW	MA	X	X	X	X	X		6
2	TW-2	↓	1720	DW	MA	X	X	X	X	X		6
3	TW-3	↓	1730	DW	MA	X	X	X	X	X		6
4	TW-4	↓	1715	DW	MA	X	X	X	X	X		6
5	DUP	↓		DW	MA					X		2

Container Type	P	P	A	B	V
Preservative	A	C	A	A	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
5/1 10:10 Matt Andrews	5/1 10:10	John Branch	5/1 10:10
John Branch	5/1 1320		5/1 1320

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606169

Date Received: 02-MAY-2006

Date Reported: 09-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606169-01	TW-1	FRAMINGHAM, MA
L0606169-02	TW-2	FRAMINGHAM, MA
L0606169-03	TW-3	FRAMINGHAM, MA
L0606169-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606169

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606169-01
TW-1
Sample Matrix: DW

Date Collected: 02-MAY-2006 12:00
Date Received : 02-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.32	NTU	0.20	44 180.1		0502 20:15	DP
Odor	NO ODOR	TON	1	30 2150B		0502 20:10	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0502 21:15	DP
Alkalinity, Total	80	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	410	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	140	mg/l	5.0	44 300.0		0504 20:50	ED
Sulfate	29	mg/l	1.0	44 300.0		0504 17:26	ED
pH	6.5	SU	-	4 150.1		0502 17:20	DP
Hardness	190	mg/l	1.7	19 200.7	0503 16:30	0504 15:20	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0503 16:30	0504 15:20	RW
Calcium, Total	55	mg/l	0.10	19 200.7	0503 16:30	0504 15:20	RW
Copper, Total	ND	mg/l	0.002	19 200.7	0503 16:30	0504 15:20	RW
Iron, Total	ND	mg/l	0.05	19 200.7	0503 16:30	0504 15:20	RW
Magnesium, Total	12	mg/l	0.10	19 200.7	0503 16:30	0504 15:20	RW
Manganese, Total	ND	mg/l	0.01	19 200.7	0503 16:30	0504 15:20	RW
Potassium, Total	4.5	mg/l	2.5	19 200.7	0503 16:30	0504 15:20	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0503 16:30	0504 15:20	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0503 16:30	0504 15:20	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606169-02
TW-2
Sample Matrix: DW

Date Collected: 02-MAY-2006 12:00
Date Received : 02-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0502 20:15	DP
Odor	NO ODOR	TON	1	30 2150B		0502 20:10	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0502 21:15	DP
Alkalinity, Total	71	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	230	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	80	mg/l	5.0	44 300.0		0504 21:07	ED
Sulfate	23	mg/l	1.0	44 300.0		0504 17:43	ED
pH	6.5	SU	-	4 150.1		0502 17:20	DP
Hardness	91	mg/l	1.7	19 200.7	0503 16:30	0504 15:28	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0503 16:30	0504 15:28	RW
Calcium, Total	27	mg/l	0.10	19 200.7	0503 16:30	0504 15:28	RW
Copper, Total	0.002	mg/l	0.002	19 200.7	0503 16:30	0504 15:28	RW
Iron, Total	0.06	mg/l	0.05	19 200.7	0503 16:30	0504 15:28	RW
Magnesium, Total	6.0	mg/l	0.10	19 200.7	0503 16:30	0504 15:28	RW
Manganese, Total	0.05	mg/l	0.01	19 200.7	0503 16:30	0504 15:28	RW
Potassium, Total	3.4	mg/l	2.5	19 200.7	0503 16:30	0504 15:28	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0503 16:30	0504 15:28	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0503 16:30	0504 15:28	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606169-03
TW-3
Sample Matrix: DW

Date Collected: 02-MAY-2006 12:00
Date Received : 02-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.21	NTU	0.20	44 180.1		0502 20:15	DP
Odor	NO ODOR	TON	1	30 2150B		0502 20:10	DP
Color, Apparent	6.0	A.P.C.U.	5.0	30 2120B		0502 21:15	DP
Alkalinity, Total	63	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	310	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	120	mg/l	5.0	44 300.0		0504 21:24	ED
Sulfate	24	mg/l	1.0	44 300.0		0504 18:00	ED
pH	6.4	SU	-	4 150.1		0502 17:20	DP
Hardness	99	mg/l	1.7	19 200.7	0503 16:30	0504 15:31	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0503 16:30	0504 15:31	RW
Calcium, Total	30	mg/l	0.10	19 200.7	0503 16:30	0504 15:31	RW
Copper, Total	0.004	mg/l	0.002	19 200.7	0503 16:30	0504 15:31	RW
Iron, Total	4.4	mg/l	0.05	19 200.7	0503 16:30	0504 15:31	RW
Magnesium, Total	6.2	mg/l	0.10	19 200.7	0503 16:30	0504 15:31	RW
Manganese, Total	0.82	mg/l	0.01	19 200.7	0503 16:30	0504 15:31	RW
Potassium, Total	4.5	mg/l	2.5	19 200.7	0503 16:30	0504 15:31	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0503 16:30	0504 15:31	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0503 16:30	0504 15:31	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606169-04
TW-4
Sample Matrix: DW

Date Collected: 02-MAY-2006 12:00
Date Received : 02-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	8.4	NTU	0.20	44 180.1		0502 20:15	DP
Odor	NO ODOR	TON	1	30 2150B		0502 20:10	DP
Color, Apparent	17	A.P.C.U.	5.0	30 2120B		0502 21:15	DP
Alkalinity, Total	86	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	300	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	92	mg/l	5.0	44 300.0		0504 22:15	ED
Sulfate	22	mg/l	1.0	44 300.0		0504 18:51	ED
pH	7.2	SU	-	4 150.1		0502 17:20	DP
Hardness	130	mg/l	1.7	19 200.7	0503 16:30	0504 15:34	RW
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0503 16:30	0504 15:34	RW
Calcium, Total	40	mg/l	0.10	19 200.7	0503 16:30	0504 15:34	RW
Copper, Total	ND	mg/l	0.002	19 200.7	0503 16:30	0504 15:34	RW
Iron, Total	4.1	mg/l	0.05	19 200.7	0503 16:30	0504 15:34	RW
Magnesium, Total	7.0	mg/l	0.10	19 200.7	0503 16:30	0504 15:34	RW
Manganese, Total	0.76	mg/l	0.01	19 200.7	0503 16:30	0504 15:34	RW
Potassium, Total	4.0	mg/l	2.5	19 200.7	0503 16:30	0504 15:34	RW
Silver, Total	ND	mg/l	0.007	19 200.7	0503 16:30	0504 15:34	RW
Zinc, Total	ND	mg/l	0.050	19 200.7	0503 16:30	0504 15:34	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606169

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606169-04, WG238102-3)					
Turbidity	8.4	8.5	NTU	1	
Color, Apparent for sample(s) 01-04 (L0606169-03, WG238108-1)					
Color, Apparent	6.0	6.0	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606090-01, WG238463-3)					
Alkalinity, Total	78	75	mg CaCO3/L	4	4
Solids, Total Dissolved for sample(s) 01-04 (L0606169-04, WG238427-3)					
Solids, Total Dissolved	300	290	mg/l	3	11
Anions by Ion Chromatography for sample(s) 01-04 (L0606090-01, WG238454-4)					
Chloride	150	150	mg/l	0	20
Sulfate	29	29	mg/l	0	20
pH for sample(s) 01-04 (L0606169-01, WG238104-2)					
pH	6.5	6.4	SU	2	
Hardness for sample(s) 01-04 (L0606169-01, WG238212-1)					
Hardness	190	180	mg/l	5	
Total Metals for sample(s) 01-04 (L0606169-01, WG238212-1)					
Aluminum, Total	ND	ND	mg/l	NC	
Calcium, Total	55	53	mg/l	4	
Copper, Total	ND	0.002	mg/l	NC	
Iron, Total	ND	0.05	mg/l	NC	
Magnesium, Total	12	11	mg/l	9	
Manganese, Total	ND	ND	mg/l	NC	
Potassium, Total	4.5	4.3	mg/l	5	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606169

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG238102-2)		
Turbidity	108	
Alkalinity, Total LCS for sample(s) 01-04 (WG238463-2)		
Alkalinity, Total	105	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG238427-2)		
Solids, Total Dissolved	91	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG238454-2)		
Chloride	95	90-110
Sulfate	95	90-110
pH LCS for sample(s) 01-04 (WG238104-1)		
pH	100	
Hardness LCS for sample(s) 01-04 (WG238212-4)		
Hardness	91	
Total Metals LCS for sample(s) 01-04 (WG238212-4)		
Aluminum, Total	95	
Calcium, Total	90	
Copper, Total	91	
Iron, Total	94	
Magnesium, Total	91	
Manganese, Total	92	
Potassium, Total	90	
Silver, Total	92	
Zinc, Total	95	
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606090-01, WG238463-4)		
Alkalinity, Total	96	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0606090-01, WG238454-3)		
Chloride	50	80-120
Sulfate	88	80-120
Hardness SPIKE for sample(s) 01-04 (L0606169-01, WG238212-2)		
Hardness	76	
Total Metals SPIKE for sample(s) 01-04 (L0606169-01, WG238212-2)		
Aluminum, Total	95	
Calcium, Total	80	
Copper, Total	90	
Iron, Total	94	
Magnesium, Total	90	
Manganese, Total	88	
Potassium, Total	115	
Silver, Total	90	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606169

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606169-01, WG238212-2)		
Zinc, Total	91	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606169

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238102-1)								
Turbidity	ND	NTU	0.20	44	180.1		0502 20:15	DP
Blank Analysis for sample(s) 01-04 (WG238109-1)								
Odor	NO ODOR	TON	1	30	2150B		0502 20:10	DP
Blank Analysis for sample(s) 01-04 (WG238463-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0505 11:59	JT
Blank Analysis for sample(s) 01-04 (WG238427-1)								
Solids, Total Dissolved	ND	mg/l	10	30	2540C		0505 21:05	DT
Blank Analysis for sample(s) 01-04 (WG238454-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0504 14:53	ED
Sulfate	ND	mg/l	1.0	44	300.0		0504 14:53	ED
Blank Analysis for sample(s) 01-04 (WG238212-3)								
Hardness	ND	mg/l	1.7	19	200.7	0503 16:30	0504 15:13	RW
Blank Analysis for sample(s) 01-04 (WG238212-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0503 16:30	0504 15:13	RW
Calcium, Total	ND	mg/l	0.10	19	200.7	0503 16:30	0504 15:13	RW
Copper, Total	ND	mg/l	0.002	19	200.7	0503 16:30	0504 15:13	RW
Iron, Total	ND	mg/l	0.05	19	200.7	0503 16:30	0504 15:13	RW
Magnesium, Total	ND	mg/l	0.10	19	200.7	0503 16:30	0504 15:13	RW
Manganese, Total	ND	mg/l	0.01	19	200.7	0503 16:30	0504 15:13	RW
Potassium, Total	ND	mg/l	2.5	19	200.7	0503 16:30	0504 15:13	RW
Silver, Total	ND	mg/l	0.007	19	200.7	0503 16:30	0504 15:13	RW
Zinc, Total	ND	mg/l	0.050	19	200.7	0503 16:30	0504 15:13	RW

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/2/06

ALPHA Job #: L0606169

ALPHA
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: SEA Consultants
Address: 485 Mass Ave
Cambridge, MA 02139
Phone: 508 965 2037
Fax:
Email: peter.newton@seacon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Bicycle Rd
Project Location: Framingham, MA
Project #: 2004194.10
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/9/06 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Criteria
Mass MMCP Drinking water SDWS

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Turbidity, Color, TDS, Cl	Total metals, Mn, Fe	Color, pH, Alk, SO_4	Sample Specific Comments	TOTAL # BOTTLES
L0606169-01	JW-1	05/02	12:00	DW	KR	X	X	X		
02	JW-2	↓	↓	DW	CPP	X	X	X		
03	JW-3	↓	↓	DW	KR	X	X	X		
04	JW-4	↓	↓	DW	CPP	X	X	X		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	P	P	A
Preservative	A	C	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP? No

Relinquished By:	Date/Time	Received By:	Date/Time
Cristy Pierce-Pearson	5/2/06 1720	[illegible]	5/2/06 1420
[illegible]	5/2/06 1715	Gary Grosinski	5/2/06 1715

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606300

Date Received: 04-MAY-2006

Date Reported: 09-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606300-01	TW-1	FRAMINGHAM, MA
L0606300-02	TW-2	FRAMINGHAM, MA
L0606300-03	TW-3	FRAMINGHAM, MA
L0606300-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:_____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606300

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606300-01
TW-1
Sample Matrix: DW

Date Collected: 04-MAY-2006 13:30
Date Received : 04-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.23	NTU	0.20	44 180.1		0504 20:20	DP
Odor	NO ODOR	TON	1	30 2150B		0504 19:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0504 20:10	DP
Alkalinity, Total	82	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	390	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	140	mg/l	2.5	44 300.0		0508 15:47	ED
Sulfate	28	mg/l	1.0	44 300.0		0508 14:05	ED
pH	6.6	SU	-	4 150.1		0504 19:15	DP
Hardness	200	mg/l	1.7	19 200.7	0505 18:00	0508 10:57	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0505 18:00	0508 10:57	CA
Calcium, Total	58	mg/l	0.10	19 200.7	0505 18:00	0508 10:57	CA
Copper, Total	ND	mg/l	0.01	19 200.7	0505 18:00	0508 10:57	CA
Iron, Total	ND	mg/l	0.05	19 200.7	0505 18:00	0508 10:57	CA
Magnesium, Total	12	mg/l	0.10	19 200.7	0505 18:00	0508 10:57	CA
Manganese, Total	ND	mg/l	0.01	19 200.7	0505 18:00	0508 10:57	CA
Potassium, Total	4.9	mg/l	2.5	19 200.7	0505 18:00	0508 10:57	CA
Silver, Total	ND	mg/l	0.010	19 200.7	0505 18:00	0508 10:57	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0505 18:00	0508 10:57	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606300-02
TW-2
Sample Matrix: DW

Date Collected: 04-MAY-2006 14:00
Date Received : 04-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44 180.1		0504 20:20	DP
Odor	NO ODOR	TON	1	30 2150B		0504 19:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0504 20:10	DP
Alkalinity, Total	70	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	240	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	87	mg/l	2.5	44 300.0		0508 16:04	ED
Sulfate	25	mg/l	5.0	44 300.0		0508 16:04	ED
pH	6.8	SU	-	4 150.1		0504 19:15	DP
Hardness	94	mg/l	1.7	19 200.7	0505 18:00	0508 11:07	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0505 18:00	0508 11:07	CA
Calcium, Total	28	mg/l	0.10	19 200.7	0505 18:00	0508 11:07	CA
Copper, Total	ND	mg/l	0.01	19 200.7	0505 18:00	0508 11:07	CA
Iron, Total	ND	mg/l	0.05	19 200.7	0505 18:00	0508 11:07	CA
Magnesium, Total	6.2	mg/l	0.10	19 200.7	0505 18:00	0508 11:07	CA
Manganese, Total	0.04	mg/l	0.01	19 200.7	0505 18:00	0508 11:07	CA
Potassium, Total	3.8	mg/l	2.5	19 200.7	0505 18:00	0508 11:07	CA
Silver, Total	ND	mg/l	0.010	19 200.7	0505 18:00	0508 11:07	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0505 18:00	0508 11:07	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606300-03
TW-3
Sample Matrix: DW

Date Collected: 04-MAY-2006 14:00
Date Received : 04-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.20	NTU	0.20	44 180.1		0504 20:20	DP
Odor	NO ODOR	TON	1	30 2150B		0504 19:40	DP
Color, Apparent	ND	A.P.C.U.	5.0	30 2120B		0504 20:10	DP
Alkalinity, Total	62	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	310	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	120	mg/l	2.5	44 300.0		0509 10:55	ED
Sulfate	24	mg/l	1.0	44 300.0		0508 14:39	ED
pH	6.5	SU	-	4 150.1		0504 19:15	DP
Hardness	110	mg/l	1.7	19 200.7	0505 18:00	0508 11:10	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0505 18:00	0508 11:10	CA
Calcium, Total	32	mg/l	0.10	19 200.7	0505 18:00	0508 11:10	CA
Copper, Total	ND	mg/l	0.01	19 200.7	0505 18:00	0508 11:10	CA
Iron, Total	4.8	mg/l	0.05	19 200.7	0505 18:00	0508 11:10	CA
Magnesium, Total	6.8	mg/l	0.10	19 200.7	0505 18:00	0508 11:10	CA
Manganese, Total	0.90	mg/l	0.01	19 200.7	0505 18:00	0508 11:10	CA
Potassium, Total	5.2	mg/l	2.5	19 200.7	0505 18:00	0508 11:10	CA
Silver, Total	ND	mg/l	0.010	19 200.7	0505 18:00	0508 11:10	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0505 18:00	0508 11:10	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606300-04
TW-4
Sample Matrix: DW

Date Collected: 04-MAY-2006 13:30
Date Received : 04-MAY-2006
Date Reported : 09-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	10	NTU	0.20	44 180.1		0504 20:20	DP
Odor	NO ODOR	TON	1	30 2150B		0504 19:40	DP
Color, Apparent	13	A.P.C.U.	5.0	30 2120B		0504 20:10	DP
Alkalinity, Total	85	mg CaCO3/L	2.0	30 2320B		0505 11:59	JT
Solids, Total Dissolved	270	mg/l	10	30 2540C		0505 21:05	DT
Anions by Ion Chromatography							
Chloride	87	mg/l	2.5	44 300.0		0509 11:12	ED
Sulfate	21	mg/l	1.0	44 300.0		0508 14:56	ED
pH	7.2	SU	-	4 150.1		0504 19:15	DP
Hardness	130	mg/l	1.7	19 200.7	0505 18:00	0508 11:14	CA
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0505 18:00	0508 11:14	CA
Calcium, Total	41	mg/l	0.10	19 200.7	0505 18:00	0508 11:14	CA
Copper, Total	ND	mg/l	0.01	19 200.7	0505 18:00	0508 11:14	CA
Iron, Total	4.3	mg/l	0.05	19 200.7	0505 18:00	0508 11:14	CA
Magnesium, Total	7.2	mg/l	0.10	19 200.7	0505 18:00	0508 11:14	CA
Manganese, Total	0.76	mg/l	0.01	19 200.7	0505 18:00	0508 11:14	CA
Potassium, Total	4.3	mg/l	2.5	19 200.7	0505 18:00	0508 11:14	CA
Silver, Total	ND	mg/l	0.010	19 200.7	0505 18:00	0508 11:14	CA
Zinc, Total	ND	mg/l	0.050	19 200.7	0505 18:00	0508 11:14	CA

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606300

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606300-04, WG238390-3)					
Turbidity	10	10	NTU	0	
Color, Apparent for sample(s) 01-04 (L0606300-04, WG238398-1)					
Color, Apparent	13	13	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606090-01, WG238463-3)					
Alkalinity, Total	78	75	mg CaCO3/L	4	4
Solids, Total Dissolved for sample(s) 01-04 (L0606169-04, WG238427-3)					
Solids, Total Dissolved	300	290	mg/l	3	11
Anions by Ion Chromatography for sample(s) 01-04 (L0606300-02, WG238706-4)					
Chloride	87	87	mg/l	0	20
Sulfate	25	25	mg/l	0	20
pH for sample(s) 01-04 (L0606278-01, WG238414-2)					
pH	7.9	8.0	SU	1	
Total Metals for sample(s) 01-04 (L0606348-06, WG238550-1)					
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606300

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG238390-2)		
Turbidity	108	
Alkalinity, Total LCS for sample(s) 01-04 (WG238463-2)		
Alkalinity, Total	105	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG238427-2)		
Solids, Total Dissolved	91	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG238706-2)		
Chloride	92	90-110
Sulfate	95	90-110
pH LCS for sample(s) 01-04 (WG238414-1)		
pH	100	
Hardness LCS for sample(s) 01-04 (WG238550-4)		
Hardness	94	
Total Metals LCS for sample(s) 01-04 (WG238550-4)		
Aluminum, Total	100	
Calcium, Total	91	
Copper, Total	92	
Iron, Total	95	
Magnesium, Total	94	
Manganese, Total	94	
Potassium, Total	98	
Silver, Total	94	
Zinc, Total	94	
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606090-01, WG238463-4)		
Alkalinity, Total	96	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0606300-02, WG238706-3)		
Chloride	88	80-120
Sulfate	88	80-120
Hardness SPIKE for sample(s) 01-04 (L0606348-06, WG238550-2)		
Hardness	88	
Total Metals SPIKE for sample(s) 01-04 (L0606348-06, WG238550-2)		
Aluminum, Total	95	
Calcium, Total	87	
Copper, Total	92	
Iron, Total	86	
Magnesium, Total	86	
Manganese, Total	91	
Potassium, Total	130	
Silver, Total	88	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606300

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606348-06, WG238550-2)		
Zinc, Total	92	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606300

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238390-1)								
Turbidity	ND	NTU	0.20	44	180.1		0504 20:20	DP
Blank Analysis for sample(s) 01-04 (WG238399-1)								
Odor	NO ODOR	TON	1	30	2150B		0504 19:40	DP
Blank Analysis for sample(s) 01-04 (WG238463-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0505 11:59	JT
Blank Analysis for sample(s) 01-04 (WG238427-1)								
Solids, Total Dissolved	ND	mg/l	10	30	2540C		0505 21:05	DT
Blank Analysis for sample(s) 01-04 (WG238706-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0508 13:14	ED
Sulfate	ND	mg/l	1.0	44	300.0		0508 13:14	ED
Blank Analysis for sample(s) 01-04 (WG238550-3)								
Hardness	ND	mg/l	1.7	19	200.7	0505 18:00	0508 10:47	CA
Blank Analysis for sample(s) 01-04 (WG238550-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0505 18:00	0508 10:47	CA
Calcium, Total	ND	mg/l	0.10	19	200.7	0505 18:00	0508 10:47	CA
Copper, Total	ND	mg/l	0.01	19	200.7	0505 18:00	0508 10:47	CA
Iron, Total	ND	mg/l	0.05	19	200.7	0505 18:00	0508 10:47	CA
Magnesium, Total	ND	mg/l	0.10	19	200.7	0505 18:00	0508 10:47	CA
Manganese, Total	ND	mg/l	0.01	19	200.7	0505 18:00	0508 10:47	CA
Potassium, Total	ND	mg/l	2.5	19	200.7	0505 18:00	0508 10:47	CA
Silver, Total	ND	mg/l	0.010	19	200.7	0505 18:00	0508 10:47	CA
Zinc, Total	ND	mg/l	0.050	19	200.7	0505 18:00	0508 10:47	CA

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 of

Date Rec'd in Lab: 5/4

ALPHA Job #: L0606300

ALPHA
WOODS HOLE
WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193
RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: SEA
Address: 485 Mass Ave
Phone: 508 743 7882
Fax: 508 444 8922
Email: Peter.Newton@Seacon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Birch Rd
Project Location: Framingham
Project #: 2004194.10-A
Project Manager: Newton
ALPHA Quote #: Jim O

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved)

Date Due: 5/9/06 Time: 4 PM

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MAMCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: See Con #Pa Quote

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS	Sample Specific Comments	TOTAL # BOTTLES
6300.1	TW-1	5/4/06	1330	DW	PN	✓		3
2	TW-2	↓	1400	DW	PN	✓		3
3	TW-3	↓	1400	DW	PN	✓		3
4	TW-4	↓	1330	DW	PN	✓		3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type			
Preservative			

Relinquished By:	Date/Time	Received By:	Date/Time
Peter C. Newton	5/4/06 1440	[signature]	5/4/06 1440
[signature]	5/4/06 1535	[signature]	5/4 1540

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606487

Date Received: 08-MAY-2006

Date Reported: 15-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606487-01	TW-1	FRAMINGHAM, MA
L0606487-02	TW-2	FRAMINGHAM, MA
L0606487-03	TW-3	FRAMINGHAM, MA
L0606487-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606487

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606487-01
TW-1
Sample Matrix: DW

Date Collected: 06-MAY-2006 14:10
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.21	NTU	0.20	44	180.1		0508 19:25	DP
Odor	NO ODOR	TON	1	30	2150B		0508 20:35	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30	2120B		0508 21:40	DP
Alkalinity, Total	81	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Solids, Total Dissolved	430	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	140	mg/l	2.5	44	300.0		0509 14:19	ED
Sulfate	31	mg/l	5.0	44	300.0		0509 14:19	ED
pH	6.5	SU	-	4	150.1		0508 21:25	DP
Hardness	130	mg/l	1.7	19	200.7	0509 15:30	0510 09:18	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 09:18	MG
Calcium, Total	40	mg/l	0.10	19	200.7	0509 15:30	0510 09:18	MG
Copper, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 09:18	MG
Iron, Total	4.1	mg/l	0.05	19	200.7	0509 15:30	0510 09:18	MG
Magnesium, Total	7.1	mg/l	0.10	19	200.7	0509 15:30	0510 09:18	MG
Manganese, Total	0.72	mg/l	0.01	19	200.7	0509 15:30	0510 09:18	MG
Potassium, Total	4.4	mg/l	2.5	19	200.7	0509 15:30	0510 09:18	MG
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 09:18	MG
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 09:18	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606487-02
TW-2
Sample Matrix: DW

Date Collected: 06-MAY-2006 14:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	ND	NTU	0.20	44	180.1		0508 19:25	DP
Odor	NO ODOR	TON	1	30	2150B		0508 20:35	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30	2120B		0508 21:40	DP
Alkalinity, Total	67	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Solids, Total Dissolved	280	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	86	mg/l	2.5	44	300.0		0509 14:36	ED
Sulfate	25	mg/l	5.0	44	300.0		0509 14:36	ED
pH	6.7	SU	-	4	150.1		0508 21:25	DP
Hardness	200	mg/l	1.7	19	200.7	0509 15:30	0510 09:21	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 09:21	MG
Calcium, Total	58	mg/l	0.10	19	200.7	0509 15:30	0510 09:21	MG
Copper, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 09:21	MG
Iron, Total	ND	mg/l	0.05	19	200.7	0509 15:30	0510 09:21	MG
Magnesium, Total	13	mg/l	0.10	19	200.7	0509 15:30	0510 09:21	MG
Manganese, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 09:21	MG
Potassium, Total	5.2	mg/l	2.5	19	200.7	0509 15:30	0510 09:21	MG
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 09:21	MG
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 09:21	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606487-03
TW-3
Sample Matrix: DW

Date Collected: 06-MAY-2006 13:30
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.28	NTU	0.20	44 180.1		0508 19:25	DP
Odor	NO ODOR	TON	1	30 2150B		0508 20:35	DP
Color, Apparent	13	A.P.C.U.	5.0	30 2120B		0508 21:40	DP
Alkalinity, Total	53	mg CaCO3/L	2.0	30 2320B		0514 15:13	JT
Solids, Total Dissolved	360	mg/l	10	30 2540C		0511 13:30	DT
Anions by Ion Chromatography							
Chloride	130	mg/l	2.5	44 300.0		0509 14:53	ED
Sulfate	26	mg/l	5.0	44 300.0		0509 14:53	ED
pH	6.6	SU	-	4 150.1		0508 21:25	DP
Hardness	95	mg/l	1.7	19 200.7	0509 15:30	0510 09:24	MG
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0509 15:30	0510 09:24	MG
Calcium, Total	28	mg/l	0.10	19 200.7	0509 15:30	0510 09:24	MG
Copper, Total	ND	mg/l	0.01	19 200.7	0509 15:30	0510 09:24	MG
Iron, Total	ND	mg/l	0.05	19 200.7	0509 15:30	0510 09:24	MG
Magnesium, Total	6.3	mg/l	0.10	19 200.7	0509 15:30	0510 09:24	MG
Manganese, Total	0.04	mg/l	0.01	19 200.7	0509 15:30	0510 09:24	MG
Potassium, Total	3.9	mg/l	2.5	19 200.7	0509 15:30	0510 09:24	MG
Silver, Total	ND	mg/l	0.010	19 200.7	0509 15:30	0510 09:24	MG
Zinc, Total	ND	mg/l	0.050	19 200.7	0509 15:30	0510 09:24	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606487-04
TW-4
Sample Matrix: DW

Date Collected: 06-MAY-2006 14:30
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,2-Plastic

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Turbidity	9.1	NTU	0.20	44 180.1		0508 19:25	DP
Odor	NO ODOR	TON	1	30 2150B		0508 20:35	DP
Color, Apparent	23	A.P.C.U.	5.0	30 2120B		0508 21:40	DP
Alkalinity, Total	81	mg CaCO3/L	2.0	30 2320B		0514 15:13	JT
Solids, Total Dissolved	290	mg/l	10	30 2540C		0511 13:30	DT
Anions by Ion Chromatography							
Chloride	88	mg/l	2.5	44 300.0		0509 15:10	ED
Sulfate	23	mg/l	5.0	44 300.0		0509 15:10	ED
pH	7.2	SU	-	4 150.1		0508 21:25	DP
Hardness	110	mg/l	1.7	19 200.7	0509 15:30	0510 09:27	MG
Total Metals				19 200.7			
Aluminum, Total	ND	mg/l	0.10	19 200.7	0509 15:30	0510 09:27	MG
Calcium, Total	34	mg/l	0.10	19 200.7	0509 15:30	0510 09:27	MG
Copper, Total	ND	mg/l	0.01	19 200.7	0509 15:30	0510 09:27	MG
Iron, Total	4.7	mg/l	0.05	19 200.7	0509 15:30	0510 09:27	MG
Magnesium, Total	7.1	mg/l	0.10	19 200.7	0509 15:30	0510 09:27	MG
Manganese, Total	0.91	mg/l	0.01	19 200.7	0509 15:30	0510 09:27	MG
Potassium, Total	5.5	mg/l	2.5	19 200.7	0509 15:30	0510 09:27	MG
Silver, Total	ND	mg/l	0.010	19 200.7	0509 15:30	0510 09:27	MG
Zinc, Total	ND	mg/l	0.050	19 200.7	0509 15:30	0510 09:27	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606487

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606487-04, WG238755-3)					
Turbidity	9.1	9.0	NTU	1	
Color, Apparent for sample(s) 01-04 (L0606487-03, WG238758-1)					
Color, Apparent	13	13	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606487-01, WG239414-3)					
Alkalinity, Total	81	82	mg CaCO3/L	1	4
Solids, Total Dissolved for sample(s) 01-04 (L0606476-04, WG239110-3)					
Solids, Total Dissolved	300	270	mg/l	11	11
Anions by Ion Chromatography for sample(s) 01-04 (L0606476-02, WG238862-4)					
Chloride	83	83	mg/l	0	20
Sulfate	23	23	mg/l	0	20
pH for sample(s) 01-04 (L0606487-01, WG238756-2)					
pH	6.5	6.6	SU	2	
Total Metals for sample(s) 01-04 (L0606470-02, WG238894-1)					
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	0.179	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606487

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG238755-2)		
Turbidity	106	
Alkalinity, Total LCS for sample(s) 01-04 (WG239414-2)		
Alkalinity, Total	103	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG239110-2)		
Solids, Total Dissolved	94	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG238862-2)		
Chloride	95	90-110
Sulfate	95	90-110
pH LCS for sample(s) 01-04 (WG238756-1)		
pH	100	
Hardness LCS for sample(s) 01-04 (WG238894-4)		
Hardness	94	
Total Metals LCS for sample(s) 01-04 (WG238894-4)		
Aluminum, Total	100	
Calcium, Total	93	
Copper, Total	92	
Iron, Total	88	
Magnesium, Total	95	
Manganese, Total	94	
Potassium, Total	100	
Silver, Total	96	
Zinc, Total	96	
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606487-02, WG239414-4)		
Alkalinity, Total	102	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0606476-02, WG238862-3)		
Chloride	85	80-120
Sulfate	93	80-120
Hardness SPIKE for sample(s) 01-04 (L0606470-02, WG238894-2)		
Hardness	86	
Total Metals SPIKE for sample(s) 01-04 (L0606470-02, WG238894-2)		
Aluminum, Total	100	
Calcium, Total	90	
Copper, Total	92	
Iron, Total	87	
Magnesium, Total	95	
Manganese, Total	92	
Potassium, Total	108	
Silver, Total	97	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606487

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606470-02, WG238894-2)		
Zinc, Total	98	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606487

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238755-1)								
Turbidity	ND	NTU	0.20	44	180.1		0508 19:25	DP
Blank Analysis for sample(s) 01-04 (WG238759-1)								
Odor	NO ODOR	TON	1	30	2150B		0508 20:35	DP
Blank Analysis for sample(s) 01-04 (WG239414-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Blank Analysis for sample(s) 01-04 (WG239110-1)								
Solids, Total Dissolved	ND	mg/l	10	30	2540C		0511 13:30	DT
Blank Analysis for sample(s) 01-04 (WG238862-1)								
Anions by Ion Chromatography								
Chloride	ND	mg/l	0.50	44	300.0		0509 09:30	ED
Sulfate	ND	mg/l	1.0	44	300.0		0509 09:30	ED
Blank Analysis for sample(s) 01-04 (WG238894-3)								
Hardness	ND	mg/l	1.7	19	200.7	0509 15:30	0510 08:32	MG
Blank Analysis for sample(s) 01-04 (WG238894-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Calcium, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Copper, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 08:32	MG
Iron, Total	ND	mg/l	0.05	19	200.7	0509 15:30	0510 08:32	MG
Magnesium, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Manganese, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 08:32	MG
Potassium, Total	ND	mg/l	2.5	19	200.7	0509 15:30	0510 08:32	MG
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 08:32	MG

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/8/06

ALPHA Job #: 10606487

ALPHA WOODS HOLE LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SEA Consultants
Address: 485 Mass Ave Cambridge 02139
Phone 617 498 4778
Fax: -4775
Email: peter.newton@seacon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch
Project Location: Framingham
Project #: 2004194.10
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/15/06 Time:

Report Information - Data Deliverables

☒ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Mass SMCLs Drinking water
OSRG

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Secondary cont (Total metals, hardness)	TDS Turbidity	color	pH alk SO4	odor	Sample Specific Comments	TOTAL # BOTTLES
6487.1	TW-1	5/6/06	1410	DW	KR	X	X	X	X	X		
2	TW-2	↓	1400	DW	KR	X	X	X	X	X		
3	TW-3	↓	1330	DW	KR	X	X	X	X	X		
4	TW-4	↓	1430	DW	KR	X	X	X	X	X		

Container Type	P	P	P	A	A
Preservative	C	A	A	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature] N. Tyson	5-8-06 1505	Paul Hyland	5-8-06 1505
Paul Hyland	5/8/06 1655	[signature]	5/8/06 1655

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606472

Date Received: 08-MAY-2006

Date Reported: 11-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606472-01	TW-1	FRAMINGHAM, MA
L0606472-02	TW-2	FRAMINGHAM, MA
L0606472-03	TW-3	FRAMINGHAM, MA
L0606472-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606472

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606472-01
TW-1
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hardness	43	mg/l	1.7	19	200.7	0509 15:30	0510 08:59	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:59	MG
Antimony, Total	ND	mg/l	0.002	3	200.9	0509 15:30	0510 14:50	
Arsenic, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Barium, Total	0.036	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Beryllium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Cadmium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Calcium, Total	13	mg/l	0.10	19	200.7	0509 15:30	0510 08:59	MG
Chromium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Copper, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Iron, Total	0.24	mg/l	0.05	19	200.7	0509 15:30	0510 08:59	MG
Lead, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Magnesium, Total	2.5	mg/l	0.10	19	200.7	0509 15:30	0510 08:59	MG
Manganese, Total	0.03	mg/l	0.01	19	200.7	0509 15:30	0510 08:59	MG
Mercury, Total	ND	mg/l	0.0002	4	245.2	0509 17:00	0510 11:49	DM
Nickel, Total	0.001	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Potassium, Total	2.5	mg/l	2.5	19	200.7	0509 15:30	0510 08:59	MG
Selenium, Total	ND	mg/l	0.002	3	200.8	0509 15:30	0510 21:17	BM
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 08:59	MG
Sodium, Total	5.7	mg/l	2.0	19	200.7	0509 15:30	0510 08:59	MG
Thallium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:17	BM
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 08:59	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606472-02
TW-2
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hardness	190	mg/l	1.7	19	200.7	0509 15:30	0510 09:02	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 09:02	MG
Antimony, Total	ND	mg/l	0.002	3	200.9	0509 15:30	0510 14:57	
Arsenic, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Barium, Total	0.033	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Beryllium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Cadmium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Calcium, Total	56	mg/l	0.10	19	200.7	0509 15:30	0510 09:02	MG
Chromium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Copper, Total	0.001	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Iron, Total	ND	mg/l	0.05	19	200.7	0509 15:30	0510 09:02	MG
Lead, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Magnesium, Total	12	mg/l	0.10	19	200.7	0509 15:30	0510 09:02	MG
Manganese, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 09:02	MG
Mercury, Total	ND	mg/l	0.0002	4	245.2	0509 17:00	0510 11:51	DM
Nickel, Total	0.002	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Potassium, Total	5.1	mg/l	2.5	19	200.7	0509 15:30	0510 09:02	MG
Selenium, Total	ND	mg/l	0.002	3	200.8	0509 15:30	0510 21:22	BM
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 09:02	MG
Sodium, Total	46	mg/l	2.0	19	200.7	0509 15:30	0510 09:02	MG
Thallium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:22	BM
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 09:02	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606472-03
TW-3
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hardness	100	mg/l	1.7	19	200.7	0509 15:30	0510 09:05	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 09:05	MG
Antimony, Total	ND	mg/l	0.002	3	200.9	0509 15:30	0510 15:24	
Arsenic, Total	0.004	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Barium, Total	0.093	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Beryllium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Cadmium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Calcium, Total	29	mg/l	0.10	19	200.7	0509 15:30	0510 09:05	MG
Chromium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Copper, Total	0.001	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Iron, Total	ND	mg/l	0.05	19	200.7	0509 15:30	0510 09:05	MG
Lead, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Magnesium, Total	6.6	mg/l	0.10	19	200.7	0509 15:30	0510 09:05	MG
Manganese, Total	0.04	mg/l	0.01	19	200.7	0509 15:30	0510 09:05	MG
Mercury, Total	ND	mg/l	0.0002	4	245.2	0509 17:00	0510 11:53	DM
Nickel, Total	0.005	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Potassium, Total	4.2	mg/l	2.5	19	200.7	0509 15:30	0510 09:05	MG
Selenium, Total	ND	mg/l	0.002	3	200.8	0509 15:30	0510 21:28	BM
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 09:05	MG
Sodium, Total	51	mg/l	2.0	19	200.7	0509 15:30	0510 09:05	MG
Thallium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:28	BM
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 09:05	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606472-04
TW-4
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Hardness	120	mg/l	1.7	19	200.7	0509 15:30	0510 09:08	MG
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 09:08	MG
Antimony, Total	ND	mg/l	0.002	3	200.9	0509 15:30	0510 15:31	
Arsenic, Total	0.002	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Barium, Total	0.094	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Beryllium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Cadmium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Calcium, Total	36	mg/l	0.10	19	200.7	0509 15:30	0510 09:08	MG
Chromium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Copper, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Iron, Total	4.8	mg/l	0.05	19	200.7	0509 15:30	0510 09:08	MG
Lead, Total	0.002	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Magnesium, Total	7.6	mg/l	0.10	19	200.7	0509 15:30	0510 09:08	MG
Manganese, Total	0.96	mg/l	0.01	19	200.7	0509 15:30	0510 09:08	MG
Mercury, Total	ND	mg/l	0.0002	4	245.2	0509 17:00	0510 11:58	DM
Nickel, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Potassium, Total	5.8	mg/l	2.5	19	200.7	0509 15:30	0510 09:08	MG
Selenium, Total	ND	mg/l	0.002	3	200.8	0509 15:30	0510 21:34	BM
Silver, Total	ND	mg/l	0.010	19	200.7	0509 15:30	0510 09:08	MG
Sodium, Total	63	mg/l	2.0	19	200.7	0509 15:30	0510 09:08	MG
Thallium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 21:34	BM
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 09:08	MG

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606472

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Total Metals for sample(s) 01-04 (L0606470-02, WG238894-1)					
Antimony, Total	ND	ND	mg/l	NC	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	0.179	ND	mg/l	NC	
Total Metals for sample(s) 01-04 (L0606470-02, WG238893-1)					
Barium, Total	0.004	0.004	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	ND	ND	mg/l	NC	20
Nickel, Total	0.004	0.004	mg/l	2	20
Selenium, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-04 (L0606472-03, WG238895-3)					
Mercury, Total	ND	ND	mg/l	NC	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606472

Parameter	% Recovery	QC Criteria
Hardness LCS for sample(s) 01-04 (WG238894-4)		
Hardness	94	
Total Metals LCS for sample(s) 01-04 (WG238894-4)		
Aluminum, Total	100	
Antimony, Total	102	
Calcium, Total	93	
Iron, Total	88	
Magnesium, Total	95	
Manganese, Total	94	
Potassium, Total	100	
Silver, Total	96	
Sodium, Total	100	
Zinc, Total	96	
Total Metals LCS for sample(s) 01-04 (WG238893-4)		
Arsenic, Total	94	85-115
Barium, Total	96	85-115
Beryllium, Total	94	85-115
Cadmium, Total	100	85-115
Chromium, Total	102	85-115
Copper, Total	97	85-115
Lead, Total	99	85-115
Nickel, Total	99	85-115
Selenium, Total	95	85-115
Thallium, Total	95	85-115
Total Metals LCS for sample(s) 01-04 (WG238895-1)		
Mercury, Total	92	
Hardness SPIKE for sample(s) 01-04 (L0606470-02, WG238894-2)		
Hardness	86	
Total Metals SPIKE for sample(s) 01-04 (L0606470-02, WG238894-2)		
Aluminum, Total	100	
Antimony, Total	83	
Calcium, Total	90	
Iron, Total	87	
Magnesium, Total	95	
Manganese, Total	92	
Potassium, Total	108	
Silver, Total	97	
Sodium, Total	104	
Zinc, Total	98	
Total Metals SPIKE for sample(s) 01-04 (L0606470-02, WG238893-2)		
Arsenic, Total	97	70-130
Barium, Total	94	70-130
Beryllium, Total	95	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606472

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 01-04 (L0606470-02, WG238893-2)		
Cadmium, Total	98	70-130
Chromium, Total	100	70-130
Copper, Total	98	70-130
Lead, Total	99	70-130
Nickel, Total	99	70-130
Selenium, Total	98	70-130
Thallium, Total	96	70-130
Total Metals SPIKE for sample(s) 01-04 (L0606472-03, WG238895-2)		
Mercury, Total	114	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606472

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238894-3)								
Hardness	ND	mg/l	1.7	19	200.7	0509 15:30	0510 08:32	MG
Blank Analysis for sample(s) 01-04 (WG238894-3)								
Total Metals				19	200.7			
Aluminum, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Antimony, Total	ND	mg/l	0.002	3	200.9	0509 15:30	0510 14:16	
Calcium, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Iron, Total	ND	mg/l	0.05	19	200.7	0509 15:30	0510 08:32	MG
Magnesium, Total	ND	mg/l	0.10	19	200.7	0509 15:30	0510 08:32	MG
Manganese, Total	ND	mg/l	0.01	19	200.7	0509 15:30	0510 08:32	MG
Potassium, Total	ND	mg/l	2.5	19	200.7	0509 15:30	0510 08:32	MG
Sodium, Total	ND	mg/l	2.0	19	200.7	0509 15:30	0510 08:32	MG
Zinc, Total	ND	mg/l	0.050	19	200.7	0509 15:30	0510 08:32	MG
Blank Analysis for sample(s) 01-04 (WG238893-3)								
Total Metals				3	200.8			
Arsenic, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Barium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Beryllium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Cadmium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Chromium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Copper, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Lead, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Nickel, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Selenium, Total	ND	mg/l	0.002	3	200.8	0509 15:30	0510 20:27	BM
Thallium, Total	ND	mg/l	0.001	3	200.8	0509 15:30	0510 20:27	BM
Blank Analysis for sample(s) 01-04 (WG238895-4)								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	4	245.2	0509 17:00	0510 11:44	DM

REFERENCES

3. Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/8/06

ALPHA Job #: L0606472

Client Information

Client: SEA Consultants

Address: 485 Massachusetts Ave.
Cambridge, MA 02139

Phone: ~~617 497-2800~~ 506 743

Fax: 617 498-4775

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd

Project Location: Framingham

Project #: 2004194.10-A

Project Manager: Peter Newton

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: * 5/12/06 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10-A

Regulatory Requirements/Report Limits

State/Fed Program: MA MCL / DW stds

Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Please have Total Metals by Noon Friday 5/12/06

ANALYSIS: Total Metals, Hardness, Coliform, S.A.2, Ra 228, F, NO3, NO2, SO4, Strontium, Uranium, Gross Alpha/Beta, Ra 226, TCN, NH3, Tritium

SAMPLE HANDLING: Filtration ☐ Done ☒ Not needed ☐ Lab to do; Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals, Hardness	Coliform	S.A.2	Ra 228	F, NO3, NO2, SO4	Strontium, Uranium	Gross Alpha/Beta	Ra 226	TCN	NH3	Tritium	Total # Bottles	Sample Specific Comments
6472 1	TW-1	5/8/06	13:00	DW	PN	X	(2) X	X	X	X	X	X	X	X	X	X	X	
2	TW-2	5/8/06	13:00	DW	CPP	X	(2) X	X	X	X	X	X	X	X	X	X	X	
3	TW-3	5/8/06	13:00	DW	KNR	X	(2) X	X	X	X	X	X	X	X	X	X	X	
4	TW-4	5/8/06	13:00	DW	CPP	X	(1) X	X	X	X	X	X	X	X	X	X	X	
	B-90	5/8/06	1400	GW	KNR		X											X
	MW-1R	5/8/06	1400	GW	KNR		X											

only one sample for TW-4 of T. Fecal Coliforms.

Container Type	I	P		B	V	P	P	P	P	P	P	P	P	A	A
Preservative		C		A	B	C	A	C	C	C	E	D			
													CO2	Perchlorate	Radon	EPH

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5/8/06 1505	Paul Aylward	5-8-06 15:05
Paul Aylward 5-8-06	1655	[illegible]	5/8/06 1655

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606476

Date Received: 08-MAY-2006

Date Reported: 15-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606476-01	TW-1	FRAMINGHAM, MA
L0606476-02	TW-2	FRAMINGHAM, MA
L0606476-03	TW-3	FRAMINGHAM, MA
L0606476-04	TW-4	FRAMINGHAM, MA
L0606476-05	8-90	FRAMINGHAM, MA
L0606476-06	MW-1R	FRAMINGHAM, MA
L0606476-07	TRIP BLANKS	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:_____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606476

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-01
TW-1
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Bacteria,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.29	NTU	0.20	44	180.1		0509 15:25	DP
Odor	NO ODOR	TON	1	30	2150B		0509 15:00	DP
Color, Apparent	ND	A.P.C.U.	5.0	30	2120B		0509 14:45	DP
Alkalinity, Total	83	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Carbon Dioxide	240	mg/l	2.0	30	4500CO2-D		0508 19:30	HG
Solids, Total Dissolved	390	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	130	mg/l	2.5	44	300.0		0509 11:29	ED
Sulfate	31	mg/l	5.0	44	300.0		0509 11:29	ED
Cyanide, Total	ND	mg/l	0.005	30	4500CN-CE	0510 11:00	0510 17:44	JH
Fluoride	ND	mg/l	0.20	30	4500F-C		0511 13:00	ST
pH	6.0	SU	-	4	150.1		0508 19:30	HG
Nitrogen, Ammonia	ND	mg/l	0.075	44	350.1	0510 14:30	0515 11:36	AT
Nitrogen, Nitrite	ND	mg/l	0.05	44	353.2		0509 19:53	DD
Nitrogen, Nitrate	1.3	mg/l	0.10	44	353.2		0509 21:25	DD
Bacteria in Water				30	9223B		0509 17:05	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Volatile Organics by GC/MS 524.2				16	524.2		0509 11:57	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					
Chloroform	ND	ug/l	0.50					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-01
TW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 11:57	MM
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-01
TW-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 11:57	MM
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	99.0	%	80-120				
4-Bromofluorobenzene	95.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-02
TW-2
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Bacteria,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.30	NTU	0.20	44	180.1		0509 15:25	DP
Odor	NO ODOR	TON	1	30	2150B		0509 15:00	DP
Color, Apparent	ND	A.P.C.U.	5.0	30	2120B		0509 14:45	DP
Alkalinity, Total	68	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Carbon Dioxide	290	mg/l	2.0	30	4500CO2-D		0508 19:30	HG
Solids, Total Dissolved	270	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	83	mg/l	2.5	44	300.0		0509 11:46	ED
Sulfate	23	mg/l	5.0	44	300.0		0509 11:46	ED
Cyanide, Total	ND	mg/l	0.005	30	4500CN-CE	0510 11:00	0510 17:44	JH
Fluoride	ND	mg/l	0.20	30	4500F-C		0511 13:00	ST
pH	5.8	SU	-	4	150.1		0508 19:30	HG
Nitrogen, Ammonia	ND	mg/l	0.075	44	350.1	0510 14:30	0515 11:37	AT
Nitrogen, Nitrite	ND	mg/l	0.05	44	353.2		0509 19:53	DD
Nitrogen, Nitrate	ND	mg/l	0.10	44	353.2		0509 21:26	DD
Bacteria in Water				30	9223B		0509 17:05	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Volatile Organics by GC/MS 524.2				16	524.2		0509 12:30	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					
Chloroform	ND	ug/l	0.50					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-02
TW-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 12:30	MM
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-02
TW-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 12:30	MM
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	100	%	80-120				
4-Bromofluorobenzene	96.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-03
TW-3
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Bacteria,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	0.63	NTU	0.20	44	180.1		0509 15:25	DP
Odor	NO ODOR	TON	1	30	2150B		0509 15:00	DP
Color, Apparent	7.0	A.P.C.U.	5.0	30	2120B		0509 14:45	DP
Alkalinity, Total	53	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Carbon Dioxide	320	mg/l	2.0	30	4500CO2-D		0508 19:30	HG
Solids, Total Dissolved	370	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	140	mg/l	2.5	44	300.0		0509 12:20	ED
Sulfate	26	mg/l	5.0	44	300.0		0509 12:20	ED
Cyanide, Total	ND	mg/l	0.005	30	4500CN-CE	0510 11:00	0510 17:45	JH
Fluoride	ND	mg/l	0.20	30	4500F-C		0511 13:00	ST
pH	5.7	SU	-	4	150.1		0508 19:30	HG
Nitrogen, Ammonia	0.148	mg/l	0.075	44	350.1	0510 14:30	0515 11:38	AT
Nitrogen, Nitrite	ND	mg/l	0.05	44	353.2		0509 19:54	DD
Nitrogen, Nitrate	0.13	mg/l	0.10	44	353.2		0509 21:30	DD
Bacteria in Water				30	9223B		0509 17:05	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Volatile Organics by GC/MS 524.2				16	524.2		0509 13:02	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					
Chloroform	ND	ug/l	0.50					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-03
TW-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 13:02	MM
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-03
TW-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 13:02	MM
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	98.0	%	80-120				
4-Bromofluorobenzene	96.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-04
TW-4
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Bacteria,4-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Turbidity	40	NTU	0.20	44	180.1		0509 15:25	DP
Odor	NO ODOR	TON	1	30	2150B		0509 15:00	DP
Color, Apparent	35	A.P.C.U.	25	30	2120B		0509 14:45	DP
Alkalinity, Total	80	mg CaCO3/L	2.0	30	2320B		0514 15:13	JT
Carbon Dioxide	320	mg/l	2.0	30	4500CO2-D		0508 19:30	HG
Solids, Total Dissolved	300	mg/l	10	30	2540C		0511 13:30	DT
Anions by Ion Chromatography								
Chloride	82	mg/l	2.5	44	300.0		0509 12:37	ED
Sulfate	23	mg/l	5.0	44	300.0		0509 12:37	ED
Cyanide, Total	ND	mg/l	0.005	30	4500CN-CE	0511 10:00	0511 16:07	JH
Fluoride	ND	mg/l	0.20	30	4500F-C		0511 13:00	ST
pH	5.9	SU	-	4	150.1		0508 19:30	HG
Nitrogen, Ammonia	ND	mg/l	0.075	44	350.1	0510 14:30	0515 11:39	AT
Nitrogen, Nitrite	ND	mg/l	0.05	44	353.2		0509 19:55	DD
Nitrogen, Nitrate	ND	mg/l	0.10	44	353.2		0509 21:31	DD
Bacteria in Water				30	9223B		0509 17:05	HS
Coliform, Total	Negative	col/100ml	0					
Escherichia Coli	Negative	col/100ml	0					
Volatile Organics by GC/MS 524.2				16	524.2		0509 13:35	MM
Methylene chloride	ND	ug/l	0.50					
1,1-Dichloroethane	ND	ug/l	0.50					
Chloroform	ND	ug/l	0.50					
Carbon tetrachloride	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	0.50					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-04
TW-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 13:35	MM
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-04
TW-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 13:35	MM
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	99.0	%	80-120				
4-Bromofluorobenzene	94.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-05
8-90
Sample Matrix: WATER

Date Collected: 08-MAY-2006 14:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2				16 524.2		0509 15:13	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-05
8-90

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 15:13	MM
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	97.0	%	80-120				
4-Bromofluorobenzene	95.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-05
8-90

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0509 16:15	0512 18:05	BN

Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Sample extraction method: Extracted Per the Method
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	122	ug/l	102
C19-C36 Aliphatics	4090	ug/l	102
C11-C22 Aromatics, Unadjusted	1270	ug/l	102
C11-C22 Aromatics, Adjusted	1270	ug/l	102

Surrogate(s)	Recovery		QC Criteria
Chloro-Octadecane	76.0	%	40-140
o-Terphenyl	74.0	%	40-140
2-Fluorobiphenyl	67.0	%	40-140
2-Bromonaphthalene	66.0	%	40-140

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-06
MW-1R
Sample Matrix: WATER

Date Collected: 08-MAY-2006 14:45
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2				16 524.2		0509 15:46	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-06
MW-1R

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 15:46	MM
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	1.2	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	95.0	%	80-120				
4-Bromofluorobenzene	95.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606476-07
TRIP BLANKS
Sample Matrix: WATER

Date Collected: 08-MAY-2006 14:45
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2				16 524.2		0511 11:03	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606476-07
TRIP BLANKS

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0511 11:03	MM
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	96.0	%	80-120				
4-Bromofluorobenzene	91.0	%	80-120				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606476

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Turbidity for sample(s) 01-04 (L0606476-03, WG238918-3)					
Turbidity	0.63	0.63	NTU	0	
Color, Apparent for sample(s) 01-04 (L0606476-03, WG238921-1)					
Color, Apparent	7.0	7.0	A.P.C.U.	0	
Alkalinity, Total for sample(s) 01-04 (L0606487-01, WG239414-3)					
Alkalinity, Total	81	82	mg CaCO3/L	1	4
Carbon Dioxide for sample(s) 01-04 (L0606476-01, WG238734-1)					
Carbon Dioxide	240	270	mg/l	12	
Solids, Total Dissolved for sample(s) 01-04 (L0606476-04, WG239110-3)					
Solids, Total Dissolved	300	270	mg/l	11	11
Anions by Ion Chromatography for sample(s) 01-04 (L0606476-02, WG238862-4)					
Chloride	83	83	mg/l	0	20
Sulfate	23	23	mg/l	0	20
Cyanide, Total for sample(s) 01-03 (L0606348-05, WG238947-4)					
Cyanide, Total	ND	ND	mg/l	NC	
Cyanide, Total for sample(s) 04 (L0606476-04, WG239089-4)					
Cyanide, Total	ND	ND	mg/l	NC	
Fluoride for sample(s) 01-04 (L0606476-02, WG239184-4)					
Fluoride	ND	ND	mg/l	NC	
pH for sample(s) 01-04 (L0606476-01, WG238859-2)					
pH	6.0	5.9	SU	2	
Nitrogen, Ammonia for sample(s) 01-04 (L0606476-03, WG239003-4)					
Nitrogen, Ammonia	0.148	0.150	mg/l	1	
Nitrogen, Nitrite for sample(s) 01-04 (L0606476-03, WG238884-4)					
Nitrogen, Nitrite	ND	ND	mg/l	NC	
Nitrogen, Nitrate for sample(s) 01-04 (L0606476-02, WG238883-4)					
Nitrogen, Nitrate	ND	ND	mg/l	NC	
Volatile Organics by GC/MS 524.2 for sample(s) 01-07 (L0606476-01, WG239137-2)					
Methylene chloride	ND	ND	ug/l	NC	20
1,1-Dichloroethane	ND	ND	ug/l	NC	20
Chloroform	ND	ND	ug/l	NC	20
Carbon tetrachloride	ND	ND	ug/l	NC	20
1,2-Dichloropropane	ND	ND	ug/l	NC	20
Dibromochloromethane	ND	ND	ug/l	NC	20
1,1,2-Trichloroethane	ND	ND	ug/l	NC	20
Tetrachloroethene	ND	ND	ug/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606476

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 524.2 for sample(s) 01-07 (L0606476-01, WG239137-2)					
Chlorobenzene	ND	ND	ug/l	NC	20
Trichlorofluoromethane	ND	ND	ug/l	NC	20
1,2-Dichloroethane	ND	ND	ug/l	NC	20
1,1,1-Trichloroethane	ND	ND	ug/l	NC	20
Bromodichloromethane	ND	ND	ug/l	NC	20
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	20
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	20
Bromoform	ND	ND	ug/l	NC	20
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	20
Benzene	ND	ND	ug/l	NC	20
Toluene	ND	ND	ug/l	NC	20
Ethylbenzene	ND	ND	ug/l	NC	20
p/m-Xylene	ND	ND	ug/l	NC	20
Chloromethane	ND	ND	ug/l	NC	20
Bromomethane	ND	ND	ug/l	NC	20
Vinyl chloride	ND	ND	ug/l	NC	20
Chloroethane	ND	ND	ug/l	NC	20
1,1-Dichloroethene	ND	ND	ug/l	NC	20
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	20
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	20
Trichloroethene	ND	ND	ug/l	NC	20
1,2-Dichlorobenzene	ND	ND	ug/l	NC	20
1,3-Dichlorobenzene	ND	ND	ug/l	NC	20
1,4-Dichlorobenzene	ND	ND	ug/l	NC	20
Styrene	ND	ND	ug/l	NC	20
o-Xylene	ND	ND	ug/l	NC	20
1,1-Dichloropropene	ND	ND	ug/l	NC	20
2,2-Dichloropropane	ND	ND	ug/l	NC	20
1,1,1,2-Tetrachloroethane	ND	ND	ug/l	NC	20
1,2,3-Trichloropropane	ND	ND	ug/l	NC	20
Bromochloromethane	ND	ND	ug/l	NC	20
n-Butylbenzene	ND	ND	ug/l	NC	20
Dichlorodifluoromethane	ND	ND	ug/l	NC	20
Hexachlorobutadiene	ND	ND	ug/l	NC	20
Isopropylbenzene	ND	ND	ug/l	NC	20
p-Isopropyltoluene	ND	ND	ug/l	NC	20
Naphthalene	ND	ND	ug/l	NC	20
n-Propylbenzene	ND	ND	ug/l	NC	20
sec-Butylbenzene	ND	ND	ug/l	NC	20
tert-Butylbenzene	ND	ND	ug/l	NC	20
1,2,3-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trichlorobenzene	ND	ND	ug/l	NC	20
1,2,4-Trimethylbenzene	ND	ND	ug/l	NC	20
1,3,5-Trimethylbenzene	ND	ND	ug/l	NC	20
Bromobenzene	ND	ND	ug/l	NC	20
o-Chlorotoluene	ND	ND	ug/l	NC	20
p-Chlorotoluene	ND	ND	ug/l	NC	20
Dibromomethane	ND	ND	ug/l	NC	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606476

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 524.2 for sample(s) 01-07 (L0606476-01, WG239137-2)					
1,2-Dibromoethane	ND	ND	ug/l	NC	20
1,2-Dibromo-3-chloropropane	ND	ND	ug/l	NC	20
1,3-Dichloropropane	ND	ND	ug/l	NC	20
Methyl tert butyl ether	ND	ND	ug/l	NC	20
Surrogate(s)	Recovery				QC Criteria
1,2-Dichlorobenzene-d4	99.0	98.0	%	20	80-120
4-Bromofluorobenzene	95.0	95.0	%	20	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Parameter	% Recovery	QC Criteria
Turbidity LCS for sample(s) 01-04 (WG238918-2)		
Turbidity	105	
Alkalinity, Total LCS for sample(s) 01-04 (WG239414-2)		
Alkalinity, Total	103	85-115
Solids, Total Dissolved LCS for sample(s) 01-04 (WG239110-2)		
Solids, Total Dissolved	94	72-121
Anions by Ion Chromatography LCS for sample(s) 01-04 (WG238862-2)		
Chloride	95	90-110
Sulfate	95	90-110
Cyanide, Total LCS for sample(s) 01-03 (WG238947-2)		
Cyanide, Total	103	
Cyanide, Total LCS for sample(s) 04 (WG239089-2)		
Cyanide, Total	88	
Fluoride LCS for sample(s) 01-04 (WG239184-2)		
Fluoride	97	
pH LCS for sample(s) 01-04 (WG238859-1)		
pH	100	
Nitrogen, Ammonia LCS for sample(s) 01-04 (WG239003-2)		
Nitrogen, Ammonia	90	
Nitrogen, Nitrite LCS for sample(s) 01-04 (WG238884-1)		
Nitrogen, Nitrite	101	
Nitrogen, Nitrate LCS for sample(s) 01-04 (WG238883-1)		
Nitrogen, Nitrate	98	
Volatile Organics by GC/MS 524.2 LCS for sample(s) 01-06 (WG239137-5)		
Methylene chloride	95	70-130
1,1-Dichloroethane	112	70-130
Chloroform	89	70-130
Carbon tetrachloride	94	70-130
1,2-Dichloropropane	98	70-130
Dibromochloromethane	97	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	106	70-130
Chlorobenzene	95	70-130
Trichlorofluoromethane	102	70-130
1,2-Dichloroethane	95	70-130
1,1,1-Trichloroethane	96	70-130
Bromodichloromethane	101	70-130
trans-1,3-Dichloropropene	89	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 01-06 (WG239137-5)		
cis-1,3-Dichloropropene	93	70-130
Bromoform	96	70-130
1,1,2,2-Tetrachloroethane	93	70-130
Benzene	97	70-130
Toluene	97	70-130
Ethylbenzene	96	70-130
p/m-Xylene	96	70-130
Chloromethane	95	70-130
Bromomethane	129	70-130
Vinyl chloride	99	70-130
Chloroethane	104	70-130
1,1-Dichloroethene	93	70-130
trans-1,2-Dichloroethene	95	70-130
cis-1,2-Dichloroethene	98	70-130
Trichloroethene	97	70-130
1,2-Dichlorobenzene	90	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	93	70-130
Styrene	98	70-130
o-Xylene	93	70-130
1,1-Dichloropropene	95	70-130
2,2-Dichloropropane	110	70-130
1,1,1,2-Tetrachloroethane	99	70-130
1,2,3-Trichloropropane	116	70-130
Bromochloromethane	106	70-130
n-Butylbenzene	88	70-130
Dichlorodifluoromethane	87	70-130
Hexachlorobutadiene	91	70-130
Isopropylbenzene	93	70-130
p-Isopropyltoluene	95	70-130
Naphthalene	112	70-130
n-Propylbenzene	93	70-130
sec-Butylbenzene	94	70-130
tert-Butylbenzene	95	70-130
1,2,3-Trichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	92	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3,5-Trimethylbenzene	95	70-130
Bromobenzene	98	70-130
o-Chlorotoluene	97	70-130
p-Chlorotoluene	93	70-130
Dibromomethane	100	70-130
1,2-Dibromoethane	100	70-130
1,2-Dibromo-3-chloropropane	86	70-130
1,3-Dichloropropane	102	70-130
Methyl tert butyl ether	92	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 01-06 (WG239137-5)		
Surrogate(s)		
1,2-Dichlorobenzene-d4	94	80-120
4-Bromofluorobenzene	101	80-120
Volatile Organics by GC/MS 524.2 LCS for sample(s) 07 (WG239137-9)		
Methylene chloride	94	70-130
1,1-Dichloroethane	110	70-130
Chloroform	86	70-130
Carbon tetrachloride	91	70-130
1,2-Dichloropropane	96	70-130
Dibromochloromethane	97	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	114	70-130
Chlorobenzene	94	70-130
Trichlorofluoromethane	99	70-130
1,2-Dichloroethane	94	70-130
1,1,1-Trichloroethane	93	70-130
Bromodichloromethane	100	70-130
trans-1,3-Dichloropropene	83	70-130
cis-1,3-Dichloropropene	91	70-130
Bromoform	94	70-130
1,1,2,2-Tetrachloroethane	90	70-130
Benzene	95	70-130
Toluene	95	70-130
Ethylbenzene	95	70-130
p/m-Xylene	94	70-130
Chloromethane	95	70-130
Bromomethane	123	70-130
Vinyl chloride	99	70-130
Chloroethane	106	70-130
1,1-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	92	70-130
cis-1,2-Dichloroethene	96	70-130
Trichloroethene	96	70-130
1,2-Dichlorobenzene	91	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	91	70-130
Styrene	96	70-130
o-Xylene	91	70-130
1,1-Dichloropropene	93	70-130
2,2-Dichloropropane	105	70-130
1,1,1,2-Tetrachloroethane	100	70-130
1,2,3-Trichloropropane	110	70-130
Bromochloromethane	107	70-130
n-Butylbenzene	88	70-130
Dichlorodifluoromethane	83	70-130
Hexachlorobutadiene	94	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 LCS for sample(s) 07 (WG239137-9)		
Isopropylbenzene	90	70-130
p-Isopropyltoluene	75	70-130
Naphthalene	114	70-130
n-Propylbenzene	92	70-130
sec-Butylbenzene	92	70-130
tert-Butylbenzene	93	70-130
1,2,3-Trichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	94	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3,5-Trimethylbenzene	92	70-130
Bromobenzene	99	70-130
o-Chlorotoluene	95	70-130
p-Chlorotoluene	93	70-130
Dibromomethane	97	70-130
1,2-Dibromoethane	98	70-130
1,2-Dibromo-3-chloropropane	82	70-130
1,3-Dichloropropane	98	70-130
Methyl tert butyl ether	88	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	94	80-120
4-Bromofluorobenzene	98	80-120
Alkalinity, Total SPIKE for sample(s) 01-04 (L0606487-02, WG239414-4)		
Alkalinity, Total	102	86-116
Anions by Ion Chromatography SPIKE for sample(s) 01-04 (L0606476-02, WG238862-3)		
Chloride	85	80-120
Sulfate	93	80-120
Cyanide, Total SPIKE for sample(s) 01-03 (L0606259-02, WG238947-3)		
Cyanide, Total	78	
Cyanide, Total SPIKE for sample(s) 04 (L0606476-04, WG239089-3)		
Cyanide, Total	78	
Fluoride SPIKE for sample(s) 01-04 (L0606476-04, WG239184-3)		
Fluoride	94	
Nitrogen, Ammonia SPIKE for sample(s) 01-04 (L0606476-04, WG239003-3)		
Nitrogen, Ammonia	96	
Nitrogen, Nitrite SPIKE for sample(s) 01-04 (L0606539-01, WG238884-3)		
Nitrogen, Nitrite	103	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Continued

Parameter	% Recovery	QC Criteria
Nitrogen, Nitrate SPIKE for sample(s) 01-04 (L0606476-01, WG238883-3)		
Nitrogen, Nitrate	100	
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 01-07 (L0606468-01, WG239137-1)		
Methylene chloride	96	70-130
1,1-Dichloroethane	111	70-130
Chloroform	88	70-130
Carbon tetrachloride	93	70-130
1,2-Dichloropropane	100	70-130
Dibromochloromethane	99	70-130
1,1,2-Trichloroethane	109	70-130
Tetrachloroethene	101	70-130
Chlorobenzene	96	70-130
Trichlorofluoromethane	103	70-130
1,2-Dichloroethane	101	70-130
1,1,1-Trichloroethane	94	70-130
Bromodichloromethane	102	70-130
trans-1,3-Dichloropropene	89	70-130
cis-1,3-Dichloropropene	95	70-130
Bromoform	101	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Benzene	97	70-130
Toluene	95	70-130
Ethylbenzene	96	70-130
p/m-Xylene	96	70-130
Chloromethane	92	70-130
Bromomethane	130	70-130
Vinyl chloride	96	70-130
Chloroethane	100	70-130
1,1-Dichloroethene	91	70-130
trans-1,2-Dichloroethene	92	70-130
cis-1,2-Dichloroethene	98	70-130
Trichloroethene	97	70-130
1,2-Dichlorobenzene	98	70-130
1,3-Dichlorobenzene	96	70-130
1,4-Dichlorobenzene	98	70-130
Styrene	99	70-130
o-Xylene	93	70-130
1,1-Dichloropropene	94	70-130
2,2-Dichloropropane	106	70-130
1,1,1,2-Tetrachloroethane	102	70-130
1,2,3-Trichloropropane	128	70-130
Bromochloromethane	113	70-130
n-Butylbenzene	88	70-130
Dichlorodifluoromethane	85	70-130
Hexachlorobutadiene	94	70-130
Isopropylbenzene	91	70-130
p-Isopropyltoluene	94	70-130
Naphthalene	112	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606476

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 524.2 SPIKE for sample(s) 01-07 (L0606468-01, WG239137-1)		
n-Propylbenzene	92	70-130
sec-Butylbenzene	93	70-130
tert-Butylbenzene	93	70-130
1,2,3-Trichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	94	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3,5-Trimethylbenzene	95	70-130
Bromobenzene	101	70-130
o-Chlorotoluene	97	70-130
p-Chlorotoluene	97	70-130
Dibromomethane	108	70-130
1,2-Dibromoethane	103	70-130
1,2-Dibromo-3-chloropropane	90	70-130
1,3-Dichloropropane	106	70-130
Methyl tert butyl ether	96	70-130
Surrogate(s)		
1,2-Dichlorobenzene-d4	95	80-120
4-Bromofluorobenzene	98	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606476

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Extractable Petroleum Hydrocarbons for sample(s) 05 (WG238874-2, WG238874-3)					
C9-C18 Aliphatics	59	58	2	25	40-140
C19-C36 Aliphatics	74	77	4	25	40-140
C11-C22 Aromatics	74	75	1	25	40-140
Naphthalene	60	60	0	25	40-140
2-Methylnaphthalene	61	60	2	25	40-140
Acenaphthylene	64	65	2	25	40-140
Acenaphthene	65	65	0	25	40-140
Fluorene	68	69	1	25	40-140
Phenanthrene	73	76	4	25	40-140
Anthracene	76	80	5	25	40-140
Fluoranthene	75	78	4	25	40-140
Pyrene	75	79	5	25	40-140
Benzo(a)anthracene	74	76	3	25	40-140
Chrysene	88	91	3	25	40-140
Benzo(b)fluoranthene	72	74	3	25	40-140
Benzo(k)fluoranthene	73	76	4	25	40-140
Benzo(a)pyrene	71	74	4	25	40-140
Indeno(1,2,3-cd)Pyrene	70	72	3	25	40-140
Dibenzo(a,h)anthracene	72	74	3	25	40-140
Benzo(ghi)perylene	73	75	3	25	40-140
Nonane (C9)	46	42	9	25	30-140
Decane (C10)	54	50	8	25	40-140
Dodecane (C12)	60	56	7	25	40-140
Tetradecane (C14)	61	61	0	25	40-140
Hexadecane (C16)	65	68	5	25	40-140
Octadecane (C18)	68	70	3	25	40-140
Nonadecane (C19)	70	73	4	25	40-140
Eicosane (C20)	72	75	4	25	40-140
Docosane (C22)	75	78	4	25	40-140
Tetracosane (C24)	74	78	5	25	40-140
Hexacosane (C26)	75	79	5	25	40-140
Octacosane (C28)	75	79	5	25	40-140
Triacontane (C30)	75	79	5	25	40-140
Hexatriacontane (C36)	77	80	4	25	40-140
Surrogate(s)					
Chloro-Octadecane	55	58	5		40-140
o-Terphenyl	84	84	0		40-140
2-Fluorobiphenyl	73	73	0		40-140
2-Bromonaphthalene	75	75	0		40-140
% Naphthalene Breakthrough	0	0			
% 2-Methylnaphthalene Breakthrough	0	0	NC		

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE FRACTIONATION CHECK

Laboratory Job Number: L0606476

Parameter	% Recovery	QC Criteria
Fractionation Check Standard Recoveries for Lot FISH52618		
C9-C18 Aliphatics	62	40-140
C19-C36 Aliphatics	71	40-140
C11-C22 Aromatics	80	40-140
Naphthalene	74	40-140
2-Methylnaphthalene	70	40-140
Acenaphthylene	69	40-140
Acenaphthene	72	40-140
Fluorene	72	40-140
Phenanthrene	72	40-140
Anthracene	77	40-140
Fluoranthene	75	40-140
Pyrene	75	40-140
Benzo(a)anthracene	74	40-140
Chrysene	88	40-140
Benzo(b)fluoranthene	72	40-140
Benzo(k)fluoranthene	74	40-140
Benzo(a)pyrene	73	40-140
Indeno(1,2,3-cd)Pyrene	72	40-140
Dibenzo(a,h)anthracene	73	40-140
Benzo(ghi)perylene	73	40-140
Nonane (C9)	57	30-140
Decane (C10)	62	40-140
Dodecane (C12)	65	40-140
Tetradecane (C14)	63	40-140
Hexadecane (C16)	64	40-140
Octadecane (C18)	64	40-140
Nonadecane (C19)	64	40-140
Eicosane (C20)	67	40-140
Docosane (C22)	71	40-140
Tetracosane (C24)	72	40-140
Hexacosane (C26)	72	40-140
Octacosane (C28)	73	40-140
Triacontane (C30)	73	40-140
Hexatriacontane (C36)	76	40-140
Surrogate(s)		
Chloro-Octadecane	57	40-140
o-Terphenyl	78	40-140
2-Fluorobiphenyl	72	40-140
2-Bromonaphthalene	72	40-140

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606476

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG238918-1)							
Turbidity	ND	NTU	0.20	44 180.1		0509 15:25	DP
Blank Analysis for sample(s) 01-04 (WG238920-1)							
Odor	NO ODOR	TON	1	30 2150B		0509 15:00	DP
Blank Analysis for sample(s) 01-04 (WG239414-1)							
Alkalinity, Total	ND	mg CaCO3/L	2.0	30 2320B		0514 15:13	JT
Blank Analysis for sample(s) 01-04 (WG239110-1)							
Solids, Total Dissolved	ND	mg/l	10	30 2540C		0511 13:30	DT
Blank Analysis for sample(s) 01-04 (WG238862-1)							
Anions by Ion Chromatography							
Chloride	ND	mg/l	0.50	44 300.0		0509 09:30	ED
Sulfate	ND	mg/l	1.0	44 300.0		0509 09:30	ED
Blank Analysis for sample(s) 01-03 (WG238947-1)							
Cyanide, Total	ND	mg/l	0.005	30 4500CN-CE	0510 11:00	0510 17:33	JH
Blank Analysis for sample(s) 04 (WG239089-1)							
Cyanide, Total	ND	mg/l	0.005	30 4500CN-CE	0511 10:00	0511 15:50	JH
Blank Analysis for sample(s) 01-04 (WG239184-1)							
Fluoride	ND	mg/l	0.20	30 4500F-C		0511 13:00	ST
Blank Analysis for sample(s) 01-04 (WG239003-1)							
Nitrogen, Ammonia	ND	mg/l	0.075	44 350.1	0510 14:30	0515 11:27	AT
Blank Analysis for sample(s) 01-04 (WG238884-2)							
Nitrogen, Nitrite	ND	mg/l	0.05	44 353.2		0509 19:59	DD
Blank Analysis for sample(s) 01-04 (WG238883-2)							
Nitrogen, Nitrate	ND	mg/l	0.10	44 353.2		0509 21:12	DD
Blank Analysis for sample(s) 01-04 (WG239421-1)							
Bacteria in Water				30 9223B		0509 17:05	HS

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606476

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG239421-1)							
Bacteria in Water cont'd				30 9223B		0509 17:05	HS
Coliform, Total	Negative	col/100ml	0				
Escherichia Coli	Negative	col/100ml	0				
Blank Analysis for sample(s) 01-06 (WG239137-6)							
Volatile Organics by GC/MS 524.2				16 524.2		0509 09:45	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606476

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-06 (WG239137-6)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0509 09:45	MM
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	96.0	%	80-120				
4-Bromofluorobenzene	93.0	%	80-120				
Blank Analysis for sample(s) 01-06 (WG239137-6)							
Volatile Organics by GC/MS 524.2				16 524.2		0509 09:45	MM
No Tentatively Identified Compounds							
Blank Analysis for sample(s) 07 (WG239137-10)							
Volatile Organics by GC/MS 524.2				16 524.2		0511 10:30	MM
Methylene chloride	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606476

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 07 (WG239137-10)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0511 10:30	MM
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.50				
Ethylbenzene	ND	ug/l	0.50				
p/m-Xylene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	0.50				
Bromomethane	ND	ug/l	0.50				
Vinyl chloride	ND	ug/l	0.50				
Chloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Styrene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	0.50				
2,2-Dichloropropane	ND	ug/l	0.50				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
1,2,3-Trichloropropane	ND	ug/l	0.50				
Bromochloromethane	ND	ug/l	0.50				
n-Butylbenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				
Hexachlorobutadiene	ND	ug/l	0.50				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	0.50				
n-Propylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trichlorobenzene	ND	ug/l	0.50				
1,2,4-Trimethylbenzene	ND	ug/l	0.50				
1,3,5-Trimethylbenzene	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	0.50				
p-Chlorotoluene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	0.50				
1,2-Dibromoethane	ND	ug/l	0.50				
1,2-Dibromo-3-chloropropane	ND	ug/l	0.50				
1,3-Dichloropropane	ND	ug/l	0.50				
Methyl tert butyl ether	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606476

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 07 (WG239137-10)							
Volatile Organics by GC/MS 524.2 cont'd				16 524.2		0511 10:30	MM
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichlorobenzene-d4	98.0	%	80-120				
4-Bromofluorobenzene	91.0	%	80-120				
Blank Analysis for sample(s) 05 (WG238874-1)							
Extractable Petroleum Hydrocarbons				61 EPH-04-1	0509 16:15	0512 12:14	BN
C9-C18 Aliphatics	ND	ug/l	100				
C19-C36 Aliphatics	ND	ug/l	100				
C11-C22 Aromatics, Unadjusted	ND	ug/l	100				
C11-C22 Aromatics, Adjusted	ND	ug/l	100				
Surrogate(s)	Recovery		QC Criteria				
Chloro-Octadecane	55.0	%	40-140				
o-Terphenyl	71.0	%	40-140				
2-Fluorobiphenyl	79.0	%	40-140				
2-Bromonaphthalene	80.0	%	40-140				

REFERENCES

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

16. Methods for the Determination of Organic Compounds in Drinking Water - Supplement II. EPA/600/R-92/129, August 1992.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

61. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH). Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004, Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
ug/cart	Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA WOODS HOLE LABS

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TEL: 508-822-9300
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Date Rec'd in Lab: 5/8/06

ALPHA Job #: L0606476

Client Information

Client: SEA Consultants
Address: 485 Massachusetts Ave.
Cambridge, MA 02139
Phone: ~~617 497 2800~~ 508 743
Fax: 617 498-4775
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd
Project Location: Framingham
Project #: 2004194.10-A
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard * ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/15/06 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10-A

Regulatory Requirements/Report Limits

State/Fed Program Criteria
MA MCL / DW stds

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Please have Total Metals by Noon Friday 5/12/06

SAMPLE HANDLING
Filtration
☐ Done
☑ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Metals, Hardness	Coliform	Sulfate	Ra 228	Ra 226	TCN	Sample Specific Comments
6476.1	TW-1	5/8/06	13:00	DW	PN	X	(2) X	X	X	X	X	
2	TW-2	5/8/06	13:00	DW	CPP	X	(2) X	X	X	X	X	
3	TW-3	5/8/06	13:00	DW	KNR	X	(2) X	X	X	X	X	
4	TW-4	5/8/06	13:00	DW	CPP	X	(2) X	X	X	X	X	
5	8-90	5/8/06	14:00	GW	KNR		X					X
6	MW-1R	5/8/06	14:15	GW	KNR		X					

only one sample for TW-4 of T.Fecal Coliforms.

Container Type	I	P	B	V	P	P	P	P	P	P	P	B	V	A
Preservative	G		A	B	C	A	C	C	C	E	D			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5/8/06 1505	Paul Aylward	5-8-06 15:05
Paul Aylward 5-8-06	1655	[illegible]	5/8/06 1655

FORMNO: 01-01 (rev. 10-OCT-05)

ALPHA
WOODS HOLE LABS

June 16, 2006

Mr. Peter Newton
SEA Consultants
404 County Street
New Bedford, MA 02740

RE: Subcontractor Report for Radiological Analysis
Alpha Job Number L0606481

Dear Mr. Newton,

Please find enclosed the report for the results of the Radiological analysis subcontracted to Hazen Research, Inc.

If you should have any questions on your report or require anything further, please do not hesitate to contact our Client Services Department at (508) 898-9220.

Sincerely,

Reporting Department
Alpha Woods Hole Labs

RD/hs
Enclosure

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	June 16, 2006
HRI PROJECT	009-458
HRI SERIES NO	E223/06
DATE REC'D.	5/11/2006
CUST. P.O.#	L0606481

Alpha Woods Hole Laboratories
Peter Henriksen
Eight Walkup Drive
Westborough, MA 01581-1019

REPORT OF ANALYSIS

SAMPLE NO. E223/06-1

SAMPLE IDENTIFICATION: L0606481.01 - sampled on 05/08/2006 @ 1300

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	0.9(+-2.1)	1.8	EPA 900.0	5/31/2006 @ 0740	JS
Gross Beta (+-Precision*), pCi/l (T)	3.3(+-2.3)	2.0	EPA 900.0	5/31/2006 @ 0740	JS
Radium-226 (+-Precision*), pCi/l (T)	0.5(+-0.3)	0.1	SM 7500-Ra B	6/7/2006 @ 1108	JS
Radium-228 (+-Precision*), pCi/l (T)	0.0(+-0.6)	0.6	EPA Ra-05	6/9/2006 @ 1109	AW
Radon (+-Precision*), pCi/l (T)	850(+-40)	18	SM 7500-Rn B	5/11/2006 @ 1455	EDF

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

By: _____
Robert Rostad
Laboratory Manager

Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory.

CODES: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved < = Less Than

An Employee-Owned Company

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	June 16, 2006
HRI PROJECT	009-458
HRI SERIES NO	E223/06
DATE REC'D.	5/11/2006
CUST. P.O.#	L0606481

Alpha Woods Hole Laboratories
Peter Henriksen
Eight Walkup Drive
Westborough, MA 01581-1019

REPORT OF ANALYSIS

SAMPLE NO. E223/06-2

SAMPLE IDENTIFICATION: L0606481.02 - sampled on 05/08/2006 @ 1300

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	0.3(+-1.4)	1.3	EPA 900.0	5/31/2006 @ 0742	JS
Gross Beta (+-Precision*), pCi/l (T)	0.4(+-2.1)	2.1	EPA 900.0	5/31/2006 @ 0742	JS
Radium-226 (+-Precision*), pCi/l (T)	0.1(+-0.3)	0.2	SM 7500-Ra B	6/7/2006 @ 1110	JS
Radium-228 (+-Precision*), pCi/l (T)	0.0(+-0.7)	0.7	EPA Ra-05	6/9/2006 @ 1110	AW
Radon (+-Precision*), pCi/l (T)	790(+-40)	18	SM 7500-Rn B	5/11/2006 @ 1457	EDF

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

By: _____
Robert Rostad
Laboratory Manager

Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory.

CODES: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved < = Less Than

An Employee-Owned Company

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	June 16, 2006
HRI PROJECT	009-458
HRI SERIES NO	E223/06
DATE REC'D.	5/11/2006
CUST. P.O.#	L0606481

Alpha Woods Hole Laboratories
Peter Henriksen
Eight Walkup Drive
Westborough, MA 01581-1019

REPORT OF ANALYSIS

SAMPLE NO. E223/06-3

SAMPLE IDENTIFICATION: L0606481.03 - sampled on 05/08/2006 @ 1300

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	1.8(+-2.2)	1.6	EPA 900.0	5/31/2006 @ 0744	JS
Gross Beta (+-Precision*), pCi/l (T)	3.3(+-2.3)	2.0	EPA 900.0	5/31/2006 @ 0744	JS
Radium-226 (+-Precision*), pCi/l (T)	0.1(+-0.3)	0.2	SM 7500-Ra B	6/7/2006 @ 1112	JS
Radium-228 (+-Precision*), pCi/l (T)	0.2(+-0.5)	0.5	EPA Ra-05	6/9/2006 @ 1112	AW
Radon (+-Precision*), pCi/l (T)	1120(+-50)	18	SM 7500-Rn B	5/11/2006 @ 1459	EDF

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory.

CODES: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved < = Less Than

By: Robert Rostad
Laboratory Manager

An Employee-Owned Company

Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

DATE	June 16, 2006
HRI PROJECT	009-458
HRI SERIES NO	E223/06
DATE REC'D.	5/11/2006
CUST. P.O.#	L0606481

Alpha Woods Hole Laboratories
Peter Henriksen
Eight Walkup Drive
Westborough, MA 01581-1019

REPORT OF ANALYSIS

SAMPLE NO. E223/06-4

SAMPLE IDENTIFICATION: L0606481.04 - sampled on 05/08/2006 @ 1300

PARAMETER	RESULT	DETECTION LIMIT	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	1.0(+-1.5)	1.0	EPA 900.0	5/31/2006 @ 0746	JS
Gross Beta (+-Precision*), pCi/l (T)	2.5(+-2.3)	2.0	EPA 900.0	5/31/2006 @ 0746	JS
Radium-226 (+-Precision*), pCi/l (T)	0.6(+-0.5)	0.2	SM 7500-Ra B	6/7/2006 @ 1114	JS
Radium-228 (+-Precision*), pCi/l (T)	1.3(+-0.6)	0.5	EPA Ra-05	6/9/2006 @ 1404	AW
Radon (+-Precision*), pCi/l (T)	760(+-40)	18	SM 7500-Rn B	5/11/2006 @ 1502	EDF

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.
Certification ID's: CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376610

By: Robert Rostad
Laboratory Manager

Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory.

CODES: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Recoverable
(PD) = Potentially Dissolved < = Less Than

An Employee-Owned Company

HAZEN

CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: Th2 - Th5

ALPHA Job #:

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: Alpha Woods Hole Labs

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location: MA

Project #:

Project Manager: Peter Henriksen

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are Drinking Water Samples Submitted?
☐ Yes ☐ No Have you met minimum field QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

** Run only if Hits,

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Radon 222	Gross Alpha/Beta	Radon	** Strontium	** Uranium	Sample Specific Comments	TOTAL # BOTTLES
	10606481.01	5/8/06	1300	DW		X	X	X	X			7
	.02	↓	1300	DW		X	X	X	X			7
	.03		1300	DW		X	X	X	X			7
	.04	↓	1300	DW		X	X	X	X			7

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

Container Type	P	P	V	P	A
Preservative	C	C	A	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5-10-06 1500	[illegible]	5-10-06 1500
[illegible]		Diane Hazeber	5-11 1000

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01(rev. 14-May-04)

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/8/06

ALPHA Job #: L0606481

Client Information

Client: SEA Consultants

Address: 485 Massachusetts Ave. Cambridge, MA 02139

Phone: ~~617 489 7800~~ 508 743

Fax: 617 498-4775

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd

Project Location: Framingham

Project #: 2004194.10-A

Project Manager: Peter Newton

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/3/06 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10-A

Regulatory Requirements/Report Limits

State/Fed Program: MA MCL / DW Stds

Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Please have Total Metals by Noon Friday 5/12/06

SAMPLE HANDLING

Filtration: ☐ Done ☒ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~Turb, TDS~~ Color, U	Total Metals, hardness	~~Odor, pH, ALK, SO4~~	Coliform	5211.2	Ra 228	F, NO3, NO2, SO4	Strontium, Uranium	Gross Alpha / Beta	Ra 226	TCN	Nitrate	Tritium	CO2	Perchlorate	Radon	EPH	Sample Specific Comments
6481.1	TW-1	5/8/06	13:00	DW	PN		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X		
2	TW-2	5/8/06	13:00	DW	CPP		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X		
3	TW-3	5/8/06	13:00	DW	KNR		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X		
4	TW-4	5/8/06	13:00	DW	CPP		X		(1) X	X	X	X	X	X	X	X	X	X	X	X	X		
	8-90	5/8/06	1400	GW	KNR					X												X	
	MW-1R	5/8/06	1445	GW	KNR only one sample for TW-4 of T.Fecal Coliforms.					X													

TOTAL # BOTTLES

Container Type	i	P		B	V	P	P	P	P	P	P	P	A	P	B	V	A
Preservative		C		A	B	C	A	C	C	C	E	D	A	A	A	A	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5/8/06 1505	Paul Aylward	5-8-06 15:05
Paul Aylward 5-8-06	1655	[signature]	5/8/06 1655

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA
WOODS HOLE LABS

May 30, 2006

Mr. Peter Newton
SEA Consultants
404 County Street
New Bedford, MA 02740

RE: Subcontractor Report for SOC Analysis in Drinking Water
Alpha Job Number L0606492

Dear Mr. Newton,

Please find enclosed the report for the results of the Synthetic Organic Contaminant analysis subcontracted to Underwriters Laboratories Inc.

If you should have any questions on your report or require anything further, please do not hesitate to contact our Client Services Department at (508) 898-9220.

Sincerely,

Reporting Department
Alpha Woods Hole Labs

RD/hs
Enclosure

Underwriters Laboratories Inc.®
Drinking Water Laboratory
110 South Hill Street
South Bend, IN 46617
TEL: 574.233.4777
800.332.4345
FAX: 574.233.8207
www.ul.com/water

Drinking Water Laboratory Report

This report contains 12 pages
(including the cover page).

ACCREDITED IN ACCORDANCE WITH nelac FLORIDA E87775

QUALITY ETHICS SERVICE

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

This report may not be reproduced, except in full, without written approval from Underwriters Laboratories Inc. ("UL") Drinking Water Laboratory. UL is accredited by the National Environmental Laboratory Accreditation Program ("NELAP").

MASSACHUSETTS DEP/DIVISION OF WATER SUPPLY
SYNTHETIC ORGANIC CONTAMINANTS REPORT
(FORM #9.3)

I. PWS INFORMATION:

1. PWS ID#: _____ 2. City/Town: _____
3. PWS Name: _____ 4. PWS Class (circle one): COM NTNC NC
5. DEP Source Code/Location ID _____ 6. Sample Location _____ 7. Date Collected 05/08/06 8. Collected by _____
9. Is the Source Treated? _____ 10. Was the Sample Collected after Treatment? _____
11. Manifolded (Multiple) [ ] If applicable, list the connected source: _____
12. Routine [ ] Special [ ] (explain below)
Notes: _____

II. LABORATORY ANALYTICAL INFORMATION:

Lab Name: _____ Lab Cert. #: _____
Subcontracted? (Y,N) Yes Lab Sample ID #: 1428230-34
(Use symbols to relate each analyte to a specific lab):
Sub. Lab Name: Underwriters Laboratories Inc. # M-IN035 Lab Symbol: ^
Sub. Lab Name: _____ # _____ Lab Symbol: _____

Composite [ ] If applicable, list the composited sources (DEP Source Code / Location ID#): _____
Notes: _____

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Carbofuran	< 0.9	40	0.9	531.1	N/A	05/18/2006	^
Oxamyl	< 2.0	200	2.0	531.1	N/A	05/18/2006	^
2,4-D	< 0.1	70	0.1	515.3	05/16/2006	05/18/2006	^
2,4,5-TP (Silvex)	< 0.1	50	0.1	515.3	05/16/2006	05/18/2006	^
Dalapon	< 1.0	200	1.0	515.3	05/16/2006	05/18/2006	^
Dinoseb	< 0.1	7	0.1	515.3	05/16/2006	05/18/2006	^
Picloram	< 0.1	500	0.1	515.3	05/16/2006	05/18/2006	^
Alachlor	< 0.7	2	0.7	525.2	05/17/2006	05/18/2006	^
Atrazine	< 0.3	3	0.3	525.2	05/17/2006	05/18/2006	^
Chlordane	< 0.2	2	0.2	505	05/12/2006	05/13/2006	^
Endrin	< 0.28	2	0.28	525.2	05/17/2006	05/18/2006	^
Heptachlor	< 0.04	0.4	0.04	525.2	05/17/2006	05/18/2006	^
Heptachlor epoxide	< 0.06	0.2	0.06	525.2	05/17/2006	05/18/2006	^
Lindane	< 0.07	0.2	0.07	525.2	05/17/2006	05/18/2006	^
Methoxychlor	< 0.8	40	0.8	525.2	05/17/2006	05/18/2006	^
PCB Aroclor 1016	< 0.08	£	0.08	505	05/12/2006	05/13/2006	^
PCB Aroclor 1221	< 20	£	20	505	05/12/2006	05/13/2006	^
PCB Aroclor 1232	< 0.5	£	0.5	505	05/12/2006	05/13/2006	^
PCB Aroclor 1242	< 0.3	£	0.3	505	05/12/2006	05/13/2006	^
PCB Aroclor 1248	< 0.1	£	0.1	505	05/12/2006	05/13/2006	^
PCB Aroclor 1254	< 0.1	£	0.1	505	05/12/2006	05/13/2006	^
PCB Aroclor 1260	< 0.2	£	0.2	505	05/12/2006	05/13/2006	^

PWS ID#: _____ (FORM #9.3) Town: _____

Report #: 164085

SOC

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
PCBs (decachlorobiphenyl)		0.5					
Pentachlorophenol	< 0.04	1	0.04	515.3	05/16/2006	05/18/2006	^
Toxaphene	< 1.0	3	1.0	505	05/12/2006	05/13/2006	^
Benzo(a)pyrene	< 0.1	0.2	0.1	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)adipate	< 0.6	400	0.6	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)phthalates	< 3.0	6	3.0	525.2	05/17/2006	05/18/2006	^
Hexachlorobenzene	< 0.1	1	0.1	525.2	05/17/2006	05/18/2006	^
Hexachlorocyclopentadiene	< 1.2	50	1.2	525.2	05/17/2006	05/18/2006	^
Simazine	< 2.0	4	2.0	525.2	05/17/2006	05/18/2006	^
Dibromochloropropane (DBCP) *	< 0.02	0.2	0.02	504.1	05/16/2006	05/16/2006	^
Ethylene dibromide (EDB) *	< 0.02	0.020	0.02	504.1	05/16/2006	05/16/2006	^
Diquat		20	**MONITORING FOR THESE COMPOUNDS HAS BEEN WAIVED ON A STATEWIDE BASIS FOR BOTH GROUND AND SURFACE WATER SOURCES. ****				
Endothall		100					
Glyphosate		700					
2,3,7,8-TCDD (Dioxin)		3e-05					

Compound: Unregulated - no MCL	Result ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Aldicarb	< 2.2	2.2	531.1	N/A	05/18/2006	^
Aldicarb sulfoxide	< 4.4	4.4	531.1	N/A	05/18/2006	^
Aldicarb sulfone	< 4.4	4.4	531.1	N/A	05/18/2006	^
Carbaryl	< 0.5	0.5	531.1	N/A	05/18/2006	^
3-Hydroxycarbofuran	< 0.5	0.5	531.1	N/A	05/18/2006	^
Methomyl	< 0.5	0.5	531.1	N/A	05/18/2006	^
Dicamba	< 0.10	0.10	515.3	05/16/2006	05/18/2006	^
Aldrin	< 0.18	0.18	525.2	05/17/2006	05/18/2006	^
Butachlor	< 0.84	0.84	525.2	05/17/2006	05/18/2006	^
Dieldrin	< 0.04	0.04	525.2	05/17/2006	05/18/2006	^
Metolachlor	< 1.65	1.65	525.2	05/17/2006	05/18/2006	^
Metribuzin	< 0.33	0.33	525.2	05/17/2006	05/18/2006	^
Propachlor	< 1.1	1.1	525.2	05/17/2006	05/18/2006	^

The QA/QC required matrix spike sample information is on file at our office.

* Monitoring for these two compounds has been waived on a statewide basis for SURFACE WATER SOURCES only. Unless specifically requested by DEP, SURFACE WATER SOURCES do not have to monitor for these compounds.

** If you have been specifically instructed by DEP to monitor for these compounds, please report them on a separate sheet.

^ UL has demonstrated it can achieve these detection limits in reagent water, as defined in the 40 CFR Part 136 Appendix B, but cannot document them in all sample matrices.

£ Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Report Summary: _____

Note: Alpha Woods Hole Laboratories, Inc. Sample #L0606492-01

Reviewed By: [signature] Date: 5/25/06 Finalized by: [signature] Date: 5-25-06

Note: This report may not be reproduced, except in full, without the written approval from Underwriters Laboratories, Inc. UL is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory. These results may not meet the NELAP standard but satisfy the requirements of this project.

Attention: Mail TWO copies of this report to your DEP Regional Office within 30 days of receipt of results and within10 days after the end of the reporting period.

FOR DEP/DWS USE ONLY: PLEASE INITIAL AS COMPLETED

Accepted:	Disapproved:	Data Entered into WQTS:
Comments:		

MASSACHUSETTS DEP/DIVISION OF WATER SUPPLY
SYNTHETIC ORGANIC CONTAMINANTS REPORT
(FORM #9.3)

I. PWS INFORMATION:

1. PWS ID#: _____ 2. City/Town: _____
3. PWS Name: _____ 4. PWS Class (circle one): COM NTNC NC
5. DEP Source Code/Location ID _____ 6. Sample Location _____ 7. Date Collected 05/08/06 8. Collected by _____
9. Is the Source Treated? _____ 10. Was the Sample Collected after Treatment? _____
11. Manifolded (Multiple) [ ] If applicable, list the connected source: _____
12. Routine [ ] Special [ ] (explain below)
Notes: _____

II. LABORATORY ANALYTICAL INFORMATION:

Lab Name: _____ Lab Cert. #: _____
Subcontracted? (Y,N) Yes Lab Sample ID #: 1428235-39
(Use symbols to relate each analyte to a specific lab):
Sub. Lab Name: Underwriters Laboratories Inc. # M-IN035 Lab Symbol: ^
Sub. Lab Name: _____ # _____ Lab Symbol: _____

Composite [ ] If applicable, list the composited sources (DEP Source Code / Location ID#): _____
Notes: _____

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Carbofuran	< 0.9	40	0.9	531.1	N/A	05/19/2006	^
Oxamyl	< 2.0	200	2.0	531.1	N/A	05/19/2006	^
2,4-D	< 0.1	70	0.1	515.3	05/16/2006	05/18/2006	^
2,4,5-TP (Silvex)	< 0.1	50	0.1	515.3	05/16/2006	05/18/2006	^
Dalapon	< 1.0	200	1.0	515.3	05/16/2006	05/18/2006	^
Dinoseb	< 0.1	7	0.1	515.3	05/16/2006	05/18/2006	^
Picloram	**0.1**	500	0.1	515.3	05/16/2006	05/18/2006	^
Alachlor	< 0.7	2	0.7	525.2	05/17/2006	05/18/2006	^
Atrazine	< 0.3	3	0.3	525.2	05/17/2006	05/18/2006	^
Chlordane	< 0.2	2	0.2	505	05/12/2006	05/13/2006	^
Endrin	< 0.28	2	0.28	525.2	05/17/2006	05/18/2006	^
Heptachlor	< 0.04	0.4	0.04	525.2	05/17/2006	05/18/2006	^
Heptachlor epoxide	< 0.06	0.2	0.06	525.2	05/17/2006	05/18/2006	^
Lindane	< 0.07	0.2	0.07	525.2	05/17/2006	05/18/2006	^
Methoxychlor	< 0.8	40	0.8	525.2	05/17/2006	05/18/2006	^
PCB Aroclor 1016	< 0.08	£	0.08	505	05/12/2006	05/13/2006	^
PCB Aroclor 1221	< 20	£	20	505	05/12/2006	05/13/2006	^
PCB Aroclor 1232	< 0.5	£	0.5	505	05/12/2006	05/13/2006	^
PCB Aroclor 1242	< 0.3	£	0.3	505	05/12/2006	05/13/2006	^
PCB Aroclor 1248	< 0.1	£	0.1	505	05/12/2006	05/13/2006	^
PCB Aroclor 1254	< 0.1	£	0.1	505	05/12/2006	05/13/2006	^
PCB Aroclor 1260	< 0.2	£	0.2	505	05/12/2006	05/13/2006	^

PWS ID#: _____ (FORM #9.3) Town: _____

Report #: 164085

SOC

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
PCBs (decachlorobiphenyl)		0.5					
Pentachlorophenol	< 0.04	1	0.04	515.3	05/16/2006	05/18/2006	^
Toxaphene	< 1.0	3	1.0	505	05/12/2006	05/13/2006	^
Benzo(a)pyrene	< 0.1	0.2	0.1	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)adipate	< 0.6	400	0.6	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)phthalates	< 3.0	6	3.0	525.2	05/17/2006	05/18/2006	^
Hexachlorobenzene	< 0.1	1	0.1	525.2	05/17/2006	05/18/2006	^
Hexachlorocyclopentadiene	< 1.2	50	1.2	525.2	05/17/2006	05/18/2006	^
Simazine	< 2.0	4	2.0	525.2	05/17/2006	05/18/2006	^
Dibromochloropropane (DBCP) *	< 0.02	0.2	0.02	504.1	05/16/2006	05/16/2006	^
Ethylene dibromide (EDB) *	< 0.02	0.020	0.02	504.1	05/16/2006	05/16/2006	^
Diquat		20	**MONITORING FOR THESE COMPOUNDS HAS BEEN WAIVED ON A STATEWIDE BASIS FOR BOTH GROUND AND SURFACE WATER SOURCES. ****				
Endothall		100					
Glyphosate		700					
2,3,7,8-TCDD (Dioxin)		3e-05					

Compound: Unregulated - no MCL	Result ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Aldicarb	< 2.2	2.2	531.1	N/A	05/19/2006	^
Aldicarb sulfoxide	< 4.4	4.4	531.1	N/A	05/19/2006	^
Aldicarb sulfone	< 4.4	4.4	531.1	N/A	05/19/2006	^
Carbaryl	< 0.5	0.5	531.1	N/A	05/19/2006	^
3-Hydroxycarbofuran	< 0.5	0.5	531.1	N/A	05/19/2006	^
Methomyl	< 0.5	0.5	531.1	N/A	05/19/2006	^
Dicamba	< 0.10	0.10	515.3	05/16/2006	05/18/2006	^
Aldrin	< 0.18	0.18	525.2	05/17/2006	05/18/2006	^
Butachlor	< 0.84	0.84	525.2	05/17/2006	05/18/2006	^
Dieldrin	< 0.04	0.04	525.2	05/17/2006	05/18/2006	^
Metolachlor	< 1.65	1.65	525.2	05/17/2006	05/18/2006	^
Metribuzin	< 0.33	0.33	525.2	05/17/2006	05/18/2006	^
Propachlor	< 1.1	1.1	525.2	05/17/2006	05/18/2006	^

The QA/QC required matrix spike sample information is on file at our office.

* Monitoring for these two compounds has been waived on a statewide basis for SURFACE WATER SOURCES only. Unless specifically requested by DEP, SURFACE WATER SOURCES do not have to monitor for these compounds.

** If you have been specifically instructed by DEP to monitor for these compounds, please report them on a separate sheet.

^ UL has demonstrated it can achieve these detection limits in reagent water, as defined in the 40 CFR Part 136 Appendix B, but cannot document them in all sample matrices.

£ Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Report Summary: _____

Note. Alpha Woods Hole Laboratories, Inc. Sample #L0606492-02

Reviewed By: Michelle Prough Date: 5/25/06 Finalized by: _____ Date: 5-25-06

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Accepted:	Disapproved:	Data Entered into WQTS:
Comments.		

MASSACHUSETTS DEP/DIVISION OF WATER SUPPLY
SYNTHETIC ORGANIC CONTAMINANTS REPORT
(FORM #9.3)

I. PWS INFORMATION:

1. PWS ID#: _____ 2. City/Town: _____
3. PWS Name: _____ 4. PWS Class (circle one): COM NTNC NC
5. DEP Source Code/Location ID _____ 6. Sample Location _____ 7. Date Collected 05/08/06 8. Collected by _____
9. Is the Source Treated? _____ 10. Was the Sample Collected after Treatment? _____
11. Manifolded (Multiple) [ ] If applicable, list the connected source: _____
12. Routine [ ] Special [ ] (explain below)
Notes: _____

II. LABORATORY ANALYTICAL INFORMATION:

Lab Name: _____ Lab Cert. #: _____
Subcontracted? (Y,N) Yes Lab Sample ID #: 1428240-44
(Use symbols to relate each analyte to a specific lab):
Sub. Lab Name: Underwriters Laboratories Inc. # M-IN035 Lab Symbol: ^
Sub. Lab Name: _____ # _____ Lab Symbol: _____

Composite [ ] If applicable, list the composited sources (DEP Source Code / Location ID#): _____
Notes: _____

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Carbofuran	< 0.9	40	0.9	531.1	N/A	05/19/2006	^
Oxamyl	< 2.0	200	2.0	531.1	N/A	05/19/2006	^
2,4-D	< 0.1	70	0.1	515.3	05/16/2006	05/18/2006	^
2,4,5-TP (Silvex)	< 0.1	50	0.1	515.3	05/16/2006	05/18/2006	^
Dalapon	< 1.0	200	1.0	515.3	05/16/2006	05/18/2006	^
Dinoseb	< 0.1	7	0.1	515.3	05/16/2006	05/18/2006	^
Picloram	< 0.1	500	0.1	515.3	05/16/2006	05/18/2006	^
Alachlor	< 0.7	2	0.7	525.2	05/17/2006	05/18/2006	^
Atrazine	< 0.3	3	0.3	525.2	05/17/2006	05/18/2006	^
Chlordane	< 0.2	2	0.2	505	05/16/2006	05/16/2006	^
Endrin	< 0.28	2	0.28	525.2	05/17/2006	05/18/2006	^
Heptachlor	< 0.04	0.4	0.04	525.2	05/17/2006	05/18/2006	^
Heptachlor epoxide	< 0.06	0.2	0.06	525.2	05/17/2006	05/18/2006	^
Lindane	< 0.07	0.2	0.07	525.2	05/17/2006	05/18/2006	^
Methoxychlor	< 0.8	40	0.8	525.2	05/17/2006	05/18/2006	^
PCB Aroclor 1016	< 0.08	£	0.08	505	05/16/2006	05/16/2006	^
PCB Aroclor 1221	< 20	£	20	505	05/16/2006	05/16/2006	^
PCB Aroclor 1232	< 0.5	£	0.5	505	05/16/2006	05/16/2006	^
PCB Aroclor 1242	< 0.3	£	0.3	505	05/16/2006	05/16/2006	^
PCB Aroclor 1248	< 0.1	£	0.1	505	05/16/2006	05/16/2006	^
PCB Aroclor 1254	< 0.1	£	0.1	505	05/16/2006	05/16/2006	^
PCB Aroclor 1260	< 0.2	£	0.2	505	05/16/2006	05/16/2006	^

PWS ID#: _____ (FORM #9.3) Town: _____

Report #: 164085

SOC

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
PCBs (decachlorobiphenyl)		0.5					
Pentachlorophenol	< 0.04	1	0.04	515.3	05/16/2006	05/18/2006	^
Toxaphene	< 1.0	3	1.0	505	05/16/2006	05/16/2006	^
Benzo(a)pyrene	< 0.1	0.2	0.1	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)adipate	< 0.6	400	0.6	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)phthalates	< 3.0	6	3.0	525.2	05/17/2006	05/18/2006	^
Hexachlorobenzene	< 0.1	1	0.1	525.2	05/17/2006	05/18/2006	^
Hexachlorocyclopentadiene	< 1.2	50	1.2	525.2	05/17/2006	05/18/2006	^
Simazine	< 2.0	4	2.0	525.2	05/17/2006	05/18/2006	^
Dibromochloropropane (DBCP) *	< 0.02	0.2	0.02	504.1	05/16/2006	05/16/2006	^
Ethylene dibromide (EDB) *	< 0.02	0.020	0.02	504.1	05/16/2006	05/16/2006	^
Diquat		20	MONITORING FOR THESE COMPOUNDS HAS BEEN WAIVED ON A STATEWIDE BASIS FOR BOTH GROUND AND SURFACE WATER SOURCES. **				
Endothall		100					
Glyphosate		700					
2,3,7,8-TCDD (Dioxin)		3e-05					

Compound: Unregulated - no MCL	Result ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Aldicarb	< 2.2	2.2	531.1	N/A	05/19/2006	^
Aldicarb sulfoxide	< 4.4	4.4	531.1	N/A	05/19/2006	^
Aldicarb sulfone	< 4.4	4.4	531.1	N/A	05/19/2006	^
Carbaryl	< 0.5	0.5	531.1	N/A	05/19/2006	^
3-Hydroxycarbofuran	< 0.5	0.5	531.1	N/A	05/19/2006	^
Methomyl	< 0.5	0.5	531.1	N/A	05/19/2006	^
Dicamba	< 0.10	0.10	515.3	05/16/2006	05/18/2006	^
Aldrin	< 0.18	0.18	525.2	05/17/2006	05/18/2006	^
Butachlor	< 0.84	0.84	525.2	05/17/2006	05/18/2006	^
Dieldrin	< 0.04	0.04	525.2	05/17/2006	05/18/2006	^
Metolachlor	< 1.65	1.65	525.2	05/17/2006	05/18/2006	^
Metribuzin	< 0.33	0.33	525.2	05/17/2006	05/18/2006	^
Propachlor	< 1.1	1.1	525.2	05/17/2006	05/18/2006	^

The QA/QC required matrix spike sample information is on file at our office.

* Monitoring for these two compounds has been waived on a statewide basis for SURFACE WATER SOURCES only. Unless specifically requested by DEP, SURFACE WATER SOURCES do not have to monitor for these compounds.

** If you have been specifically instructed by DEP to monitor for these compounds, please report them on a separate sheet.

^ UL has demonstrated it can achieve these detection limits in reagent water, as defined in the 40 CFR Part 136 Appendix B, but cannot document them in all sample matrices.

£ Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Report Summary: _____

Note: Alpha Woods Hole Laboratories, Inc. Sample #L0606492-03

Reviewed By: [signature] Date: 5/25/06 Finalized by: [signature] Date: 5-25-06

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Accepted:	Disapproved:	Data Entered into WQTS:
Comments:		

MASSACHUSETTS DEP/DIVISION OF WATER SUPPLY
SYNTHETIC ORGANIC CONTAMINANTS REPORT
(FORM #9.3)

I. PWS INFORMATION:

1. PWS ID#: _____ 2. City/Town: _____
3. PWS Name: _____ 4. PWS Class (circle one): COM NTNC NC
5. DEP Source Code/Location ID _____ 6. Sample Location _____ 7. Date Collected 05/08/06 8. Collected by _____
9. Is the Source Treated? _____ 10. Was the Sample Collected after Treatment? _____
11. Manifolded (Multiple) [ ] If applicable, list the connected source: _____
12. Routine [ ] Special [ ] (explain below)
Notes: _____

II. LABORATORY ANALYTICAL INFORMATION:

Lab Name: _____ Lab Cert. #: _____
Subcontracted? (Y,N) Yes Lab Sample ID #: 1428245-49
(Use symbols to relate each analyte to a specific lab):
Sub. Lab Name: Underwriters Laboratories Inc. # M-IN035 Lab Symbol: ^
Sub. Lab Name: _____ # _____ Lab Symbol: _____

Composite [ ] If applicable, list the composited sources (DEP Source Code / Location ID#): _____

Notes: _____

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Carbofuran	< 0.9	40	0.9	531.1	N/A	05/19/2006	^
Oxamyl	< 2.0	200	2.0	531.1	N/A	05/19/2006	^
2,4-D	< 0.1	70	0.1	515.3	05/16/2006	05/18/2006	^
2,4,5-TP (Silvex)	< 0.1	50	0.1	515.3	05/16/2006	05/18/2006	^
Dalapon	< 1.0	200	1.0	515.3	05/16/2006	05/18/2006	^
Dinoseb	< 0.1	7	0.1	515.3	05/16/2006	05/18/2006	^
Picloram	< 0.1	500	0.1	515.3	05/16/2006	05/18/2006	^
Alachlor	< 0.7	2	0.7	525.2	05/17/2006	05/18/2006	^
Atrazine	< 0.3	3	0.3	525.2	05/17/2006	05/18/2006	^
Chlordane	< 0.2	2	0.2	505	05/16/2006	05/17/2006	^
Endrin	< 0.28	2	0.28	525.2	05/17/2006	05/18/2006	^
Heptachlor	< 0.04	0.4	0.04	525.2	05/17/2006	05/18/2006	^
Heptachlor epoxide	< 0.06	0.2	0.06	525.2	05/17/2006	05/18/2006	^
Lindane	< 0.07	0.2	0.07	525.2	05/17/2006	05/18/2006	^
Methoxychlor	< 0.8	40	0.8	525.2	05/17/2006	05/18/2006	^
PCB Aroclor 1016	< 0.08	£	0.08	505	05/16/2006	05/17/2006	^
PCB Aroclor 1221	< 20	£	20	505	05/16/2006	05/17/2006	^
PCB Aroclor 1232	< 0.5	£	0.5	505	05/16/2006	05/17/2006	^
PCB Aroclor 1242	< 0.3	£	0.3	505	05/16/2006	05/17/2006	^
PCB Aroclor 1248	< 0.1	£	0.1	505	05/16/2006	05/17/2006	^
PCB Aroclor 1254	< 0.1	£	0.1	505	05/16/2006	05/17/2006	^
PCB Aroclor 1260	< 0.2	£	0.2	505	05/16/2006	05/17/2006	^

PWS ID#: _____ (FORM #9.3) Town: _____

Report #: 164085

SOC

Compound: Regulated - has MCL	Result ug/L	MCL ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
PCBs (decachlorobiphenyl)		0.5					
Pentachlorophenol	< 0.04	1	0.04	515.3	05/16/2006	05/18/2006	^
Toxaphene	< 1.0	3	1.0	505	05/16/2006	05/17/2006	^
Benzo(a)pyrene	< 0.1	0.2	0.1	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)adipate	< 0.6	400	0.6	525.2	05/17/2006	05/18/2006	^
Di(2-ethylhexyl)phthalates	< 3.0	6	3.0	525.2	05/17/2006	05/18/2006	^
Hexachlorobenzene	< 0.1	1	0.1	525.2	05/17/2006	05/18/2006	^
Hexachlorocyclopentadiene	< 1.2	50	1.2	525.2	05/17/2006	05/18/2006	^
Simazine	< 2.0	4	2.0	525.2	05/17/2006	05/18/2006	^
Dibromochloropropane (DBCP) *	< 0.02	0.2	0.02	504.1	05/16/2006	05/16/2006	^
Ethylene dibromide (EDB) *	< 0.02	0.020	0.02	504.1	05/16/2006	05/16/2006	^
Diquat		20	MONITORING FOR THESE COMPOUNDS HAS BEEN WAIVED ON A STATEWIDE BASIS FOR BOTH GROUND AND SURFACE WATER SOURCES. **				
Endothall		100					
Glyphosate		700					
2,3,7,8-TCDD (Dioxin)		3e-05					

Compound: Unregulated - no MCL	Result ug/L	^ Detection Limit ug/L	Analytical Method	Date Extracted	Date Analyzed	Lab Symbol
Aldicarb	< 2.2	2.2	531.1	N/A	05/19/2006	^
Aldicarb sulfoxide	< 4.4	4.4	531.1	N/A	05/19/2006	^
Aldicarb sulfone	< 4.4	4.4	531.1	N/A	05/19/2006	^
Carbaryl	< 0.5	0.5	531.1	N/A	05/19/2006	^
3-Hydroxycarbofuran	< 0.5	0.5	531.1	N/A	05/19/2006	^
Methomyl	< 0.5	0.5	531.1	N/A	05/19/2006	^
Dicamba	< 0.10	0.10	515.3	05/16/2006	05/18/2006	^
Aldrin	< 0.18	0.18	525.2	05/17/2006	05/18/2006	^
Butachlor	< 0.84	0.84	525.2	05/17/2006	05/18/2006	^
Dieldrin	< 0.04	0.04	525.2	05/17/2006	05/18/2006	^
Metolachlor	< 1.65	1.65	525.2	05/17/2006	05/18/2006	^
Metribuzin	< 0.33	0.33	525.2	05/17/2006	05/18/2006	^
Propachlor	< 1.1	1.1	525.2	05/17/2006	05/18/2006	^

The QA/QC required matrix spike sample information is on file at our office.

* Monitoring for these two compounds has been waived on a statewide basis for SURFACE WATER SOURCES only. Unless specifically requested by DEP, SURFACE WATER SOURCES do not have to monitor for these compounds.

** If you have been specifically instructed by DEP to monitor for these compounds, please report them on a separate sheet.

^ UL has demonstrated it can achieve these detection limits in reagent water, as defined in the 40 CFR Part 136 Appendix B, but cannot document them in all sample matrices.

£ Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 508A (MCL = 0.5 ug/L)

Report Summary: _____

Note: Alpha Woods Hole Laboratories, Inc. Sample #L0606492-04

Reviewed By: Michelle Prough Date: 5/25/06 Finalized by: _____ Date: 5-25-06

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Accepted:	Disapproved:	Data Entered into WQTS:
Comments:		

Underwriters Laboratories Inc.
110 S. Hill Street
South Bend, IN 46617
(800) 332-4345
fax (574) 233-4777

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Page ____ of ____

REPORT TO: Alpha Woods Hole Labs

BILL TO:

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes / No

STATE (of sample origin): MA

PWS ID#:

POPULATION SERVED:

SOURCE WATER:

PROJECT NAME:

PO#:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	1428230	5/8/2006	13:00			L0606492-01	531	1°C			2		
2	1428231						515				3		
3	1428232						504				2		
4	1428233						525				2		
5	1428234						505				2		
6													
7	1428235					L0606492-02	531	2.8°C			2		
8	1428236						515				3		
9	1428237						504				2		
10	1428238						525				2		
11	1428239						505				2		
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: [signature]	DATE 5-11-06	TIME 0930 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS **IN HOUSE COC**

CONDITIONS UPON RECEIPT (check one): X Iced: Wet / Blue ____ Ambient ____ °C Upon Receipt ____ N/A

Temperature:

MATRIX CODES:
DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	**IV*** = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 Working days)	50%	**IW*** = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	**SP*** = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

*Please call. Expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges

Shipping
UL-SBN-SHIP-F-002-04
Effective Date:
1/4/2005

Underwriters Laboratories Inc.
110 S. Hill Street
South Bend, IN 46617
(800) 332-4345
fax (574) 233-4777
www.ehl.cc

Please print legibly.

Order # 118913

Shaded area for lab use only

CHAIN OF CUSTODY RECORD

Page ____ of ____

REPORT TO: Alpha Woods Hole Labs

BILL TO:

SAMPLER (Signature)

COMPLIANCE MONITORING: Yes / No

STATE (of sample origin): MA

PWS ID#

POPULATION SERVED

SOURCE WATER

PROJECT NAME

PO#

	LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	1428240	5/8/2006	13:00			L0606492-03	531	2.4°C			2		
2	1428241						515				3		
3	1428242						504				2		
4	1428243						525				2		
5	1428244						505				2		
6													
7	1428245					L0606492-04	531	2°C			2		
8	1428246						515				3		
9	1428247						504				2		
10	1428248						525				2		
11	1428249						505				2		
12													
13	1428250	12/13/05	0900			L0606492-05 LTB	504	1°C			3		
14													

RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: S Gagon	DATE 5/11/06	TIME 0930 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS **IN HOUSE COC**

CONDITIONS UPON RECEIPT (check one): X Iced: Wet / Blue ____ Ambient ____ °C Upon Receipt ____ N/A

Temperature:

MATRIX CODES:
DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	**IV*** = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 Working days)	50%	**IW*** = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	**SP*** = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

*Please call. Expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges

Shipping
UL-SBN-SHIP-F-002-04
Effective Date: 1/4/2005

EHC

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab:

ALPHA Job #: 118913

ALPHA WOODS HOLE LABS

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: Alpha Woods Hole

Address:

Phone:

Fax:

Email:

❑ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location: Ma

Project #:

Project Manager: Peter Henriksen

ALPHA Quote #:

Turn-Around Time

☒ Standard ❑ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

❑ FAX ❑ EMAIL
❑ ADEx ❑ Add'l Deliverables

Billing Information

❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

❑ Yes ❑ No Are MCP Analytical Methods Required?
❑ Yes ❑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Pesticides; Chlorinated Acids; PCB/TOX; EDB DBCP; Carbamates

SAMPLE HANDLING
Filtration
❑ Done
❑ Not needed
❑ Lab to do
Preservation
❑ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Pesticides	Chlorinated Acids	PCB/TOX	EDB DBCP	Carbamates	Preservation	Sample Specific Comments	TOTAL # BOTTLES
	L0606492.01	5/8/06	1300	DW		X	X	X	X	X	10C		
	" .02	↓	↓	DW		↓	↓	↓	↓	↓	2.8°C		
	" .03			DW							2.4°C		
	" .04			DW							2°C		
	" .05			W					X		10°C	(Trips)	3

Container Type
Preservative

FLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	5/8/06	[illegible]	5-10-06 1500
[illegible]	5-10-06 1500	[illegible]	5/11-06 0930

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/8/06

ALPHA Job #: 10606492

ALPHA
WOODS HOLE LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SEA
Address: 485 Mass Ave Cambridge
Phone: 508-743-7882
Fax: 508 444-8922
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: ~~Fram~~ Birch Rd Well Site
Project Location: Framingham
Project #: 2004194.10
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: ~~5/12~~ 5/29/06 Time: ~~NEON~~

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MAMCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Pesticides	Chlorinated Acids	PCBs/TOX	EDB/DBCP	Carbamates	Sample Specific Comments	TOTAL # BOTTLES
6492.1	TW-1	5/8	1300	DW	PN	✓	✓	✓	✓	✓		
2	TW-2	5/8	1300	DW	PN	✓	✓	✓	✓	✓		
3	TW-3	5/8	1300	DW	PN	✓	✓	✓	✓	✓		
4	TW-4	5/8	1300	DW	PN	✓	✓	✓	✓	✓		

#TC VL, MC

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	A	✓	✓	✓	✓
Preservative	B	H	G	G	G

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5-8-05 15:05	Paul Hyland	5-8-06 15:05
Paul Hyland	5-8-06 1655	[illegible]	5/8/06 1655

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0606479

Date Received: 08-MAY-2006

Date Reported: 15-MAY-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606479-01	TW-1	FRAMINGHAM, MA
L0606479-02	TW-2	FRAMINGHAM, MA
L0606479-03	TW-3	FRAMINGHAM, MA
L0606479-04	TW-4	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:_____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606479

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Perchlorate by Method 314.0

The current calculated MDL for the analysis of Perchlorate is 0.16 ug/L.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606479-01
TW-1
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Bacteria

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	630	umhos/cm	10	30 2510B		0508 19:30	AI
Perchlorate by Method 314.0				58 314.0		0510 11:48	ED
Perchlorate	1.68	ug/l	1.00				
Perchlorate by Method 314.0				58 314.0		0510 13:15	ED
Perchlorate (Retest)	1.78	ug/l	1.00				
Perchlorate by Method 314.0				58 314.0		0510 15:34	ED
Perchlorate (Spike)	3.07	ug/l	1.00				
Spike Amount	1.70	ug/l	1.00				
Percent Recovery	82	%	-				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606479-02
TW-2
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Bacteria

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	450	umhos/cm	10	30	2510B		0508 19:30	AI
Perchlorate by Method 314.0				58	314.0		0510 12:05	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606479-03
TW-3
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Bacteria

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	590	umhos/cm	10	30	2510B		0508 19:30	AI
Perchlorate by Method 314.0				58	314.0		0510 12:23	ED
Perchlorate	0.279J	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606479-04
TW-4
Sample Matrix: DW

Date Collected: 08-MAY-2006 13:00
Date Received : 08-MAY-2006
Date Reported : 15-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Bacteria

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	460	umhos/cm	10	30	2510B		0508 19:30	AI
Perchlorate by Method 314.0				58	314.0		0510 12:40	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606479

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Specific Conductance for sample(s) 01-04 (L0606453-01, WG238746-2)					
Specific Conductance	230	230	umhos/cm	0	20
Perchlorate by Method 314.0 for sample(s) 01-04 (L0606479-04, WG239114-4)					
Perchlorate	ND	ND	ug/l	NC	15

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606479

Parameter	% Recovery	QC Criteria
Specific Conductance LCS for sample(s) 01-04 (WG238746-1)		
Specific Conductance	99	80-120
Perchlorate by Method 314.0 LCS for sample(s) 01-04 (WG239114-2)		
Perchlorate	94	85-115
Perchlorate by Method 314.0 SPIKE for sample(s) 01-04 (L0606479-01, WG239114-3)		
Perchlorate	82	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606479

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG239114-1)							
Perchlorate by Method 314.0				58 314.0		0510 10:38	ED
Perchlorate	ND	ug/l	1.00				

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

58. Determination of Perchlorate in Drinking Water Using Ion Chromatography. NERL-ORD, U.S. EPA, Cincinnati, OH. Revision 1.0, November 1999. (Additional requirements as defined in MA DEP letter dated February 18, 2004.)

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
J	Analyte concentration is below quantitation limit (RDL), but above the Method Detection Limit (MDL). Value is estimated.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA
WOODS HOLE LABS

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 5/8/06

ALPHA Job #: L0606479

Client Information

Client: SEA Consultants
Address: 485 Massachusetts Ave.
Cambridge, MA 02139
Phone: ~~617 497 2800~~ 508 743
Fax: 617 498-4775
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham Birch Rd
Project Location: Framingham
Project #: 2004194.10-A
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: * 5/15/06 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 2004194.10-A

Regulatory Requirements/Report Limits

State/Fed Program: MA MCL / DW Stds
Criteria:

MA MCP PRESUMPTIVE CERTAINTY — CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Please have Total Metals by Noon Friday 5/12/06

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~Turb, TDS, Color, Cl~~	Total Metals, hardness	~~Odor, pH, AlK, SO4~~	Coliform	524.2	Ra 228	F, NO3, NO2, SO4	Strontium, Uranium	Gross Alpha/Beta	Ra 226	TCN	NH3	Tritium	CO2	Perchlorate	Radon	EPH	Sample Specific Comments	TOTAL # BOTTLES
L0606479.1	TW-1	5/8/06	13:00	DW	PN		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X			
.2	TW-2	5/8/06	13:00	DW	CPP		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X			
.3	TW-3	5/8/06	13:00	DW	KNR		X		(2) X	X	X	X	X	X	X	X	X	X	X	X	X			
.4	TW-4	5/8/06	13:00	DW	CPP		X		(1) X	X	X	X	X	X	X	X	X	X	X	X	X			
	8-90	5/8/06	1400	GW	KNR					X													X	
	MW-1R	5/8/06	1445	GW	KNR					X														

only one sample for TW-4 of T.Fecal Coliforms.

Container Type	i	P		B	V	P	P	P	P	P	P	P	A	P	B	V	A
Preservative		C		A	B	C	A	C	C	C	E	D	A	A	A	A	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5/8/06 1505	Paul Aylward	5-8-06 15:05
Paul Aylward 5-8-06	1655	[illegible]	5/8/06 1655

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.10-A

Site: BIRCH ROAD WELL RE-ACTIVATION

Laboratory Job Number: L0607262

Date Received: 23-MAY-2006

Date Reported: 25-MAY-2006

Delivery Method: Client

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0607262-01	LC-1	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0607262

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Perchlorate

Perchlorate by Method 314.0

The current calculated MDL for the analysis of Perchlorate is 0.16 ug/L.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0607262-01
LC-1
Sample Matrix: WATER

Date Collected: 23-MAY-2006 15:45
Date Received : 23-MAY-2006
Date Reported : 25-MAY-2006

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1-Bacteria,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	420	umhos/cm	10	30	2510B		0523 20:10	DP
Perchlorate by Method 314.0				58	314.0		0524 12:31	AJ
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0607262

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Specific Conductance for sample(s) 01 (L0607262-01, WG240472-2)					
Specific Conductance	420	420	umhos/cm	0	20
Perchlorate by Method 314.0 for sample(s) 01 (L0607262-01, WG240503-3)					
Perchlorate	ND	ND	ug/l	NC	15

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0607262

Parameter	% Recovery	QC Criteria
Specific Conductance LCS for sample(s) 01 (WG240472-1)		
Specific Conductance	100	80-120
Perchlorate by Method 314.0 LCS for sample(s) 01 (WG240503-2)		
Perchlorate	86	85-115
Perchlorate by Method 314.0 SPIKE for sample(s) 01 (L0607262-01, WG240503-4)		
Perchlorate	82	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0607262

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG240503-1)							
Perchlorate by Method 314.0				58 314.0		0524 11:29	AJ
Perchlorate	ND	ug/l	1.00				

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

58. Determination of Perchlorate in Drinking Water Using Ion Chromatography. NERL-ORD, U.S. EPA, Cincinnati, OH. Revision 1.0, November 1999. (Additional requirements as defined in MA DEP letter dated February 18, 2004.)

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
J	Analyte concentration is below quantitation limit (RDL), but above the Method Detection Limit (MDL). Value is estimated.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/23

ALPHA Job #: L0607262

Client Information

Client: SEA

Address: 404 County Street New Bedford, MA 02740

Phone: 508 743 7882

Fax: 508 744 8922

Email: Peter.Newton@Seacon.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Bird Rd Well

Project Location: Framingham

Project #: 2004194.10-A

Project Manager: Newton

ALPHA Quote #:

Turn-Around Time

☐ Standard 5/25 ☑ RUSH (only confirmed if pre-approved!)

Date Due: 48hr Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?

☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 314 Perchlorate

SAMPLE HANDLING

Filtration: ☑ Done ☐ Not needed ☐ Lab to do

Preservation: ☐ Lab to do

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	314 Perchlorate	Sample Specific Comments	TOTAL # BOTTLES
72621.	LC-1	5/23/06	15:45	SW	PN	✓		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type: B

Preservative: A

Relinquished By:	Date/Time	Received By:	Date/Time
Peter Newton	5/23/06 1636	[signature]	5/23 1636

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 404 County Street

New Bedford, MA 02740

Attn: Mr. Peter Newton

Project Number: 2004194.12-A

Site: FRAMINGHAM BIRCH RD PILOT

Laboratory Job Number: L0608816

Date Received: 22-JUN-2006

Date Reported: 27-JUN-2006

Delivery Method: Client

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0608816-01	SEA-4	FRAMINGHAM, MA
L0608816-02	TW-1	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: Douglas Sheehy
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0608816

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Perchlorate

Perchlorate by Method 314.0

The current calculated MDL for the analysis of Perchlorate is 0.16 ug/L.

The WG244089 matrix spike recovery is outside of the method acceptance criteria. The sample that was utilized for the MS is considered to have matrix interference with the Perchlorate analysis.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0608816-01
SEA-4
Sample Matrix: DW

Date Collected: 22-JUN-2006 15:35
Date Received : 22-JUN-2006
Date Reported : 27-JUN-2006

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1-Bacteria,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	400	umhos/cm	10	30	2510B		0622 21:00	DP
Perchlorate by Method 314.0				58	314.0		0623 12:33	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0608816-02
TW-1
Sample Matrix: DW

Date Collected: 22-JUN-2006 14:11
Date Received : 22-JUN-2006
Date Reported : 27-JUN-2006

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1-Bacteria,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	430	umhos/cm	10	30	2510B		0622 21:00	DP
Perchlorate by Method 314.0				58	314.0		0623 12:51	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0608816

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Specific Conductance for sample(s) 01-02 (L0608816-01, WG243983-2)					
Specific Conductance	400	400	umhos/cm	0	20
Perchlorate by Method 314.0 for sample(s) 01-02 (L0608626-01, WG244089-4)					
Perchlorate	0.541J	0.605J	ug/l	NC	15

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0608816

Parameter	% Recovery	QC Criteria
Specific Conductance LCS for sample(s) 01-02 (WG243983-1)		
Specific Conductance	98	80-120
Perchlorate by Method 314.0 LCS for sample(s) 01-02 (WG244089-2)		
Perchlorate	94	85-115
Perchlorate by Method 314.0 SPIKE for sample(s) 01-02 (L0608816-02, WG244089-3)		
Perchlorate	60	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0608816

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02 (WG244089-1)							
Perchlorate by Method 314.0				58 314.0		0623 10:31	ED
Perchlorate	ND	ug/l	1.00				

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

58. Determination of Perchlorate in Drinking Water Using Ion Chromatography. NERL-ORD, U.S. EPA, Cincinnati, OH. Revision 1.0, November 1999. (Additional requirements as defined in MA DEP letter dated February 18, 2004.)

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
J	Analyte concentration is below quantitation limit (RDL), but above the Method Detection Limit (MDL). Value is estimated.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6/22

ALPHA Job #: L0608816

ALPHA
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SEA Consultants
Address: 485 Massachusetts Ave. Cambridge, MA 02139
Phone: 617.497.7800
Fax: 617.498.4775
Email: Peter.Newton@Seacon.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Framingham - Birch Rd.
Project Location: Framingham, MA
Project #: 2004194.12-A
Project Manager: Peter Newton
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 6/29 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MA MCP PRESUMPTIVE CERTAINTY — CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration: ☒ Done ☐ Not needed ☐ Lab to do
Preservation: ☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Perchlorate	EPH Deluxe	VPH Deluxe	Cond	TPH - PH1	Sample Specific Comments	Total # Bottles
	SEA-19	6/22/06	13:04	GW	KML		X	X		X	*IF DETECT, FINGERPRINT TPH	6
88816-1	SEA-4	↓	15:35	DW	↓	X			X			2
-2	TW-1	↓	14:11	DW	↓	X			X			2
	TRIP BLANK	↓		GW	↓			X				1

Container Type	B	A	V	P	A
Preservative	A	B	B	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	06/22/06 6:55	[signature]	6/22 1657

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: SEA Consultants

Address: 485 Massachusetts Avenue

Cambridge, MA 02139

Attn: Mr. David Michelsen

Project Number: 2004194.12-A

Site: FRAMINGHAM BIRCH RD PILOT

Laboratory Job Number: L0610156

Date Received: 19-JUL-2006

Date Reported: 26-JUL-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0610156-01	3-90-JUL19	FRAMINGHAM, MA
L0610156-02	TW-3-JUL19	FRAMINGHAM, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0610156

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Perchlorate

Perchlorate by Method 314.0

The current calculated MDL for the analysis of Perchlorate is 0.16 ug/L.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0610156-01
3-90-JUL19
Sample Matrix: D W

Date Collected: 19-JUL-2006 10:30
Date Received : 19-JUL-2006
Date Reported : 26-JUL-2006

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1-Bacteria,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	570	umhos/cm	10	30	2510B		0719 19:40	DP
Perchlorate by Method 314.0				58	314.0		0721 14:51	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0610156-02
TW-3-JUL19
Sample Matrix: D W

Date Collected: 19-JUL-2006 10:35
Date Received : 19-JUL-2006
Date Reported : 26-JUL-2006

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 1-Bacteria,1-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Specific Conductance	700	umhos/cm	10	30	2510B		0719 19:40	DP
Perchlorate by Method 314.0				58	314.0		0721 15:08	ED
Perchlorate	ND	ug/l	1.00					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0610156

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Specific Conductance for sample(s) 01-02 (L0610156-01, WG246992-2)					
Specific Conductance	570	570	umhos/cm	0	20
Perchlorate by Method 314.0 for sample(s) 01-02 (L0610156-01, WG247416-4)					
Perchlorate	ND	ND	ug/l	NC	15

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0610156

Parameter	% Recovery	QC Criteria
Specific Conductance LCS for sample(s) 01-02 (WG246992-1)		
Specific Conductance	97	80-120
Perchlorate by Method 314.0 LCS for sample(s) 01-02 (WG247416-2)		
Perchlorate	89	85-115
Perchlorate by Method 314.0 SPIKE for sample(s) 01-02 (L0610253-02, WG247416-3)		
Perchlorate	99	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0610156

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-02 (WG247416-1)							
Perchlorate by Method 314.0				58 314.0		0721 14:16	ED
Perchlorate	ND	ug/l	1.00				

REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

58. Determination of Perchlorate in Drinking Water Using Ion Chromatography. NERL-ORD, U.S. EPA, Cincinnati, OH. Revision 1.0, November 1999. (Additional requirements as defined in MA DEP letter dated February 18, 2004.)

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
J	Analyte concentration is below quantitation limit (RDL), but above the Method Detection Limit (MDL). Value is estimated.

LIMITATION OF LIABILITIES

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We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 7/19/06

ALPHA Job #: L0610156

ALPHA WOODS HOLE LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: SEA Consultants
Address: 485 Massachusetts Avenue Cambridge
Phone 617 498 4677
Fax: 617 498 4630
Email: david.michelsen@seacon.com

☐ These samples have been previously analyzed by Apha

Project Information

Project Name: Framingham Birch Rd RIOT
Project Location: Framingham, MA
Project #: 2004194.12-A
Project Manager: David Michelsen
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 7/26/06 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☑ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:
Project for Peter Newton included:
3-90-Jul 19 } perchlorate, conductivity
TW-3-Jul 19 }
sampler: Mike Loomer

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TSS	TSETTS	Fe and Mn (total)	Perchlorate	Conductivity	Sample Specific Comments	TOTAL # BOTTLES
	Zenon-M-Jul 19	7/19	9:00	XI	CPP	X	X	X				3
	BW-Comp P-Jul 19	7/19	+	XI	MSL	X					Results back in 24 hr	1
L0610156-01	3-90-Jul 19	7/19	10:30	GW	MSL				X	X		2
02	TW-3-Jul 19	7/19	10:35	GW	MSL				X	X		2

Container Type	P	P	P	B	P
Preservative	A	A	C	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7/19/06 1:00	[signature]	7/19/06 1:00
[signature]	7/19/06 2:15	[signature]	7/19/06 1415

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

APPENDIX H

RYZNAR STABILITY INDEX CALCULATION

S E A Consultants Inc.
Scientists/Engineers/Architects

485 Massachusetts Ave.
Cambridge, MA 02139
p. 617-497-7800
f. 617-498-4630

91 Montvale Ave.
Stoneham, MA 02180
p. 781-279-2288
f. 781-279-7993

Century Executive Park
200 Corporate Place
Rocky Hill, CT 06067
p. 860-563-7775
f. 860-563-6744

10 Ferry Street
Box #7, Suite 137
Concord, NH 03301
p. 603-225-7000
f. 603-225-0099

331 State Street
Augusta, ME 04330
p. 207-623-0648
f. 207-623-0486

Client:	Framingham	Job No.:	2004194.21	Page:	1 of 1
Project:	Birch Road wells Reactivation	Comptd. By:	KNR	Date:	10/11/06
Detail:	Ryznar Stability Index	Ck'd By:	PGN	Date:	9/13/07

Birch Road wells Prolonged Pumping Test
Ryznar Stability Index

$I = S - C - pH$ where S - determined graphically from Total Dissolved Solids (mg/L) and Fig 1 of Appendix 13.J, Driscoll, 1986

C - determined graphically from alkalinity and Calcium concentration and Fig 2 of Appendix 13.J Driscoll 1986.

Average water Quality well parameters

pH = 6.1 (average from pilot testing)
TDS = 337 mg/L (average all wells, prolonged pump test)
Alkalinity = 73 mg/L (average all wells, prolonged pump test)
Ca = 38 mg/L (average all wells, prolonged pump test)

S = 23.1
C = 6.9

$I = 23.1 - 6.9 - 6.1$

$I = 10.1$

Therefore since the Ryznar index, I is greater than 7, the water is considered corrosive.

APPENDIX I

ZONING CONTROLS

Recorded 12/28/2004 @8:38AM Document No. 1360110

The Commonwealth of Massachusetts

Secretary of the Commonwealth

State House, Boston, Massachusetts 02133

William Francis Galvin
Secretary of the
Commonwealth

December 3, 2004

To Whom it May Concern:

I hereby certify that according to the records in this office, a Certificate of Formation of Limited Partnership was filed in this office by

RIVERPATH ASSOCIATES LIMITED PARTNERSHIP

in accordance with the provisions of Massachusetts General Laws, Chapter 109, on **May 25, 1998.**

I also certify that the names of the General Partners as listed in the most recent filings are as follows:

NEW ENGLAND SAND & GRAVEL CO., INC.
Off Danforth Road
Framingham, MA 01701

FRANK W. GENERAZIO, JR.
C/O NEW ENGLAND SAND & GRAVEL CO., INC.
Off Danforth Road
Framingham, MA 01701

I hereby certify that said Limited Partnership has not filed a Certificate of Cancellation to date.

In testimony of which,
I have hereunto affixed the
Great Seal of the Commonwealth
on the date first above written.

William Francis Galvin

Secretary of the Commonwealth

Recorded on 12/28/2004 @8:38AM as Document No. 1360111
and noted on Transfer Certificate of Title No. 182833

CONSERVATION RESTRICTION FOR WATER SUPPLY PROTECTION

TOWN OF FRAMINGHAM

Riverpath Associates Limited Partnership, a Massachusetts limited partnership duly organized under the laws of the Commonwealth of Massachusetts with an address of c/o New England Sand & Gravel Co., Inc., P.O. Box 3248, Framingham, in Middlesex County, Massachusetts, 01701 (hereinafter referred to as the "Grantor"), for consideration paid and in full consideration of One Dollar ($1.00), the receipt and sufficiency of which is hereby acknowledged, hereby GRANTS in perpetuity to the Town of Framingham, a Massachusetts municipal corporation duly organized under the laws of the Commonwealth of Massachusetts and situated in Middlesex County having an address of 150 Concord Street, Framingham, Massachusetts 01702 (hereinafter the "Grantee"), with QUITCLAIM COVENANTS a Conservation Restriction (hereinafter defined) for the purposes of providing and promoting exclusive and perpetual protection of water supply and water quality within the wellfield known as the Birch Road Wellfield located on property adjacent to the Premises and to provide for conservation of soil and other natural resources within the Premises pursuant to the provisions of Massachusetts General Laws Chapter 184, Sections 31 through 33 inclusive, as amended, on that certain parcel of land situated in the Town of Framingham, Massachusetts, and being more particularly bounded and described as set forth on a plan dated October 6, 2003, entitled "Land Restricted in Favor of the Town of Framingham in Framingham, Mass.", by Metrowest Engineering, Inc. 75 Franklin St. Framingham, Massachusetts, attached hereto as Exhibit A and made a part hereof (hereinafter referred to as the "Premises"). "Conservation Restriction" shall mean a conservation restriction pursuant to the provisions of Massachusetts General Laws Chapter 184, Sections 31 through 33 inclusive, subject to the express rights, privileges and obligations hereinafter provided.

Said Premises are as follows: (i) a portion of Lot 12B as shown on Land Court Plan No.3857V dated June 26, 1924 and filed at the Land Registration Office of the Middlesex County South Registry District of the Land Court (the "Land Court") in Book 119, Page 85; and (ii) a portion of Lot 13 as shown on Land Court Plan No.3857L dated September 22, 1917 and filed at the Land Court in Book 58, Page 209, but only such portions of these lots shown as "Conservation Restriction Area 244,722 S.F. 5.62 Acres" on Exhibit A. The covenants and grant of rights under this Conservation Restriction are subject to title matters set forth in Exhibit A-1. For Grantor's title in the Premises see Certificate of Title No. 182833 filed at the Land Court in Book 1044, Page 83.

Grantee acquires this Conservation Restriction subject to the approval of the Department of Environmental Protection pursuant to Massachusetts General Laws Chapter 40, Sections 39B and 41.

Section I. Purpose

The purpose of this Conservation Restriction is to promote and to provide for the perpetual and exclusive protection of water supply and water quality in the Town of Framingham, and to provide for conservation of soil and other natural resources within the Premises. Therefore, the Grantor covenants for itself, its legal representatives, successors and assigns, including, without limitation, its successors in

title, that the Premises will at all times be held, used and conveyed subject to, and not used in violation of the following restrictions:

Section II. Prohibited Uses and Activities

1. All activities and uses of the Premises are prohibited except those structures built and uses and activities conducted by the Town of Framingham that are directly related to the public water system, or as are expressly permitted hereunder.

2. Neither the Grantor nor successors or assigns of the Grantor will perform nor give permission to nor allow others to perform any acts on the Premises other than those acts conducted by Town of Framingham which are directly related to the public water system, or as are expressly permitted hereunder. The Grantee shall not have the right to place any building or structure on the Premises other than fences, barriers and/or other security devices intended to limit or prohibit access to the Premises other than as expressly permitted under Section III hereof.

Section III. Permitted Uses and Activities

1. No other use shall be made of the Premises and no activity permitted thereon which, in the opinion of the Grantee, is or may become inconsistent with or threatening to the purpose and intent of this Conservation Restriction as hereinbefore stated, provided however:

a. The Grantor shall retain the right, with the permission of the Grantee, such permission not to be unreasonably withheld, to remove from time to time trash and other debris from the Premises but such right shall not include the right to remove gravel or fill;

b. Grantee may erect and maintain a fence, barrier and/or other security device along or within the perimeter of the Premises in order to limit or prohibit access to the Premises, provided that Grantee shall consult with Grantor regarding the appearance of any such fence, barrier or security device and use reasonable efforts to comply with the requests of the Grantor regarding the visual appearance of such fence, barrier or security device;

c. Passive outdoor recreation conducted so as to have no significant adverse impact on water quality may be allowed on the Premises if permitted by the Grantee and the Massachusetts Department of Environmental Protection (DEP) guidelines, policies and regulations. Such passive recreation may include walking, hiking, cross-country skiing, and bicycling. Subject to prior approval of the Grantee and as allowed by the DEP guidelines, policies and regulations and consistent with the use of the Premises for public water supply, the Grantor may maintain passive recreation walking trails on the Premises, subject to the obligation of the Grantor to indemnify the Grantee in connection with such use as provided below in Section IV;

d. The Grantor shall have the right at its sole expense and option to grade the Premises consistent with the plans approved therefor by the Planning Board and the Department of Public Works, and as allowed by DEP guidelines, policies and regulations, provided that any fill or other material used in such grading shall be appropriate for disposal within Zone I (as that term is used in 310 CMR 22.00, as may be amended). Such grading shall be completed within twelve (12) months after the MWRA completes the construction activity currently underway on the land of the MWRA adjacent to the Premises, but in any event no later than June 30, 2006, and shall not include the

removal of naturally occurring materials without the prior consent of the Grantee and unless allowed by DEP guidelines, policies and regulations.

Section IV. Indemnification

1. The Grantor shall indemnify, save and hold harmless the Grantee and all of the Grantee's officers, agents and employees and all municipal boards, commission departments from and against any and all claims, demands, lawsuits, costs, expenses, attorneys' fees and other liabilities and obligations arising in connection with the use of the Premises as provided in Sections III.1.a, III.1.b, III.1.c and III.1.d, by the Grantor and persons claiming rights by, through or under the Grantor, and in connection with the use of the Premises as provided in Paragraph III.1.c., by third parties.

2. Prior to making entry on the Premises for any of the foregoing uses, Grantor shall, at its sole cost and expense, obtain and maintain general liability policies of insurance in respect of the Premises in the amount of at least $1,000,000.00 per occurrence and $3,000,000.00 aggregate, with such deductibles as shall typically be maintained for commercial properties in the greater Framingham area.

Section V. General Provisions

1. Administration

This Restriction shall be administered, enforced and under control of the Town of Framingham Board of Selectmen in their role as Water Commissioners.

2. Access

For the purpose of this Conservation Restriction, the Grantee is hereby granted a permanent easement of access to enter the Premises, which permanent easement shall extend to the Grantee's officers, agents, employees, and personnel from all municipal boards, commissions and departments, including the DEP, at their own risk, without notice to the owners of the Premises, for the purposes of exercising all of the Grantee's rights hereunder and of inspecting the Premises to determine compliance with or to enforce this Conservation Restriction, or taking any and all actions with respect to the Premises as may be necessary or appropriate with or without order of court, to remedy or abate any violation, and without limiting the foregoing, to take all actions as may be necessary or appropriate, at the Grantee's discretion, to preserve, protect or maintain the public water supply and water quality, including without limitation actions to conserve the soil and other natural resources within the Premises.

The Conservation Restriction hereby conveyed does not grant to the general public or to any person or entity, other than the Grantee and parties identified above in this Section V.2, such easement for access nor such right to enter the Premises.

3. Assignability

a. Running of the Burden

This Conservation Restriction sets forth rights, liabilities, agreements and obligations upon and subject to which the Premises shall be held, improved, used, occupied, leased, sold, encumbered or conveyed. The rights, liabilities, agreements and obligations herein set forth shall run with the Premises and shall inure to the benefit of the Grantee and all parties claiming by, through or under the Grantee and shall bind the Grantor and all parties claiming by, through or under the Grantor and the Grantor's successors and assigns. The rights hereby granted to the Grantee

constitute the perpetual right of the Grantee to enforce this Conservation Restriction. The Grantor hereby covenants for itself to stand seized and hold title to the Premises subject to the terms of this Restriction. Any party which acquires ownership interest in the Premises by way of deed, by accepting such interest shall be deemed to have assumed all of the obligations of the Grantor hereunder.

b. Recording of Instruments

The Grantee shall have the right, and the Grantor hereby authorizes the Grantee, to record and/or register this Conservation Restriction and any additional documents that may be reasonably required by Town Counsel to effect such recording or registration, and to record or file any notices or instruments appropriate to assuring the perpetual enforceability of this Conservation Restriction, but no such instrument shall grant any rights of the Grantor in real property not included in the Premises. The Grantor on behalf of itself and its successors and assigns appoints the Grantee their attorney-in-fact to execute, acknowledge and deliver any such instruments on their behalf. Without limiting the foregoing, the Grantor agrees to execute any such instruments upon request.

4. Concurrence Presumed

It being agreed that all parties claiming by, through or under the Grantor shall be deemed to agree with the provisions herein set forth and to agree for and among themselves and any party claiming by, through or under them, and their respective agents, contractors, sub-contractors and employees, that the Conservation Restriction herein established shall be adhered to and not violated and that their respective interests in the Premises shall be subject to the provisions herein set forth.

5. Incorporation into Deeds, Mortgages, Leases and Instruments of Transfer

The Grantor hereby agrees to incorporate in full or by reference the terms of this Conservation Restriction in all deeds, easements, mortgages, leases, licenses, occupancy agreements or other instrument of transfer by which any interest in all or a portion of the Premises is transferred, including but not limited to a lease hold interest. The Grantor further agrees to give written notice to the Grantee of the proposed transfer of any interest in the Premises at least twenty (20) days prior to the proposed date of such transfer. The Grantor's failure to comply with its obligations in the preceding two sentences shall not affect the fact that this Conservation Restriction, including all of the Grantor's obligations hereunder, shall be binding upon all successor owners of the Premises and parties which acquire an interest in the Premises, as provided in Section V.3.a above.

6. Release

The Grantor intends this Conservation Restriction to be a restriction in gross in perpetuity. This Conservation Restriction may only be released, in whole or in part, by the Grantee pursuant to the procedures for approval by the Department of Environmental Protection established by Chapter 40, Section 15A and 15B, Chapter 184, Section 32 of the General Laws as amended, and in accordance with Article 97 of the Amendments to the Massachusetts Constitution and otherwise by law.

7. Legal Remedies of the Grantee

a. Legal and Injunctive Relief

Grantor expressly acknowledges that a violation of this Conservation Restriction could result in the exercising of the Grantee's right to enforce this Conservation Restriction by appropriate legal proceedings and to obtain injunctive and other equitable relief against violations, including, without limitations, relief requiring restoration of the Premises to its condition prior to the time of the injury complained of and shall be in addition to, and not in limitation of, any other rights and remedies available to the Grantee, except Grantor shall have no responsibility to restore the Premises as a result of damage or injury caused thereto by any act or omission by parties other than the Grantor, any persons claiming rights by, through, or under the Grantor, or third parties using the Premises as provided in Section III.1.c above.

b. Non-Waiver

Nothing herein shall impose upon the Grantee any duty to maintain or require that the Premises be maintained in any particular state or condition, notwithstanding the Grantee's acceptance hereof. Enforcement of the terms of this Restriction shall be at the discretion of the Grantee. Any election by the Grantee as to the manner and timing of the exercising of its right to enforce this Conservation Restriction or otherwise exercise its rights hereunder shall not be deemed or construed to be a waiver of such rights.

c. Grantee Disclaimer of Liability

By its acceptance of this Conservation Restriction, the Grantee does not assume any liability or obligation relating to the condition of the Premises, including compliance with hazardous materials or other environmental laws and regulations, unless such liability or obligation results from an act of the Grantee.

8. Extinguishment

In the event of any taking of the Premises by the Grantee by the exercise of the power of eminent domain, other than for water supply purposes, no award payable in connection therewith shall be attributable to the interest represented by this Conservation Restriction and proceeds thereof allocated thereto shall be payable to the Grantor.

9. Severability Clause

If any court or other tribunal determines that any provision of this instrument is invalid or unenforceable, such provision shall be deemed to have been modified automatically to conform to the requirements for validity and enforceability as determined by such court or tribunal. In the event any provision invalidated is of such a nature that it cannot be modified, the provision shall be deemed deleted from this Conservation Restriction as though it had never been included herein. In either case, the remaining provisions of this instrument shall remain in full force and effect.

10. Effective Date

This Conservation Restriction shall become effective upon its being duly executed by Grantor, Grantee, Department of Environmental Protection and Secretary of the Executive Office of Environmental Affairs, or their successors, and its registration with the Land Registration Office of the Middlesex County South Registry District.

WITNESS its hand and seal this 22 day of June, 2004.

RIVERPATH ASSOCIATES LIMITED PARTNERSHIP, a Massachusetts limited partnership

BY: New England Sand and Gravel, Co., Inc, a Massachusetts corporation, its general partner,

BY: Frank Generazio Jr.
Name:
Title Pres.

STATE OF Massachusetts
Middlesex, ss. June 22, 2004

Then personally appeared the above-named Frank Generazio Jr. as President of New England Sand & Gravel Co., Inc., and acknowledged the foregoing instrument to be his/her free act and deed, and the free act and deed of such corporation and of Riverpath Associates Limited Partnership, before me.

Richard J. Bassett
Notary Public
My Commission expires:
May 24, 2007

ACCEPTANCE BY TOWN OF FRAMINGHAM

We, the undersigned, being a majority of the Board of Selectmen of the Town of Framingham, Massachusetts, hereby certify that at a meeting duly held on April 15, 2004, the Board of Selectmen voted to accept the foregoing Conservation Restriction for Water Supply Protection to the Town of Framingham pursuant to M.G.L. c. 40, §39B and §41 and c.184, §32.

Board of Selectmen of the Town of Framingham:

Christopher Ross, Chair

Katherine Murphy

Charles J. Sisitsky

Esther Hopkins

A. Ginger Esty

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss

April ~~15~~ 22, 2004

Then personally appeared before me Christopher Ross, Katherine Murphy, Charles J. Sisitsky, Esther Hopkins and A. Ginger Esty, members of the Board of Selectmen, and acknowledged the foregoing instrument to be their free act and deed.

Notary Public

My Commission expires: 7/25/06

APPROVAL BY DEPARTMENT OF ENVIRONMENTAL PROTECTION

The undersigned Regional Director, Northeast Regional Office, Massachusetts Department of Environmental Protection, hereby certifies that the foregoing Conservation Restriction for Water Supply Protection has been reviewed and approved pursuant to Massachusetts General Laws, Chapter 40, §41.

7/14/04
Date

Edward Kunce
Edward Kunce, Deputy Commissioner,
Acting Northeast Regional Director

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss. July 14, 2004

Then personally appeared the above-named Edward Kunce and acknowledged the foregoing instrument to be his free act and deed, before me.

Judith A. Barber
Notary Public
My Commission expires: 8/16/07

APPROVAL BY EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

The undersigned Secretary of the Office of Environmental Affairs of the Commonwealth of Massachusetts hereby certifies that the foregoing Conservation Restriction for Water Supply Protection has been approved in the public interest, pursuant to M.G.L. c. 184, §32. Said approval is not to be construed as representing the existence or non-existence of any pre-existing rights of the public, if any, in and to the Premises, and any such pre-existing rights, if any, are not affected by the granting of this Conservation Restriction.

Sept 10, 2004
Date

Ellen Roy Herzfelder, Secretary,
Office of Environmental Affairs

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss

Sept 10, 2004

Then personally appeared the above-named Ellen Roy Herzfelder and acknowledged the foregoing instrument to be her free act and deed, before me.

Notary Public
My Commission expires:

NICOLE SICARD
Notary Public
My Commission Expires December 31, 2004

EXHIBIT A
to CONSERVATION RESTRICTION

EXHIBIT A – 1
to CONSERVATION RESTRICTION

Title Matters

1. Easements or claims of easements, discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey and/or inspection of the premises would disclose, and which are not shown by the public records.

2. Rights of way and easements set forth in a deed of Helen Seely to Framingham Housing Association, Inc., filed as Document No. 24315;

3. Taking by Boston Edison Company for rights and easements to operate transmission lines filed as Document No. 266978;

4. Grant of Easements to Boston Edison Company filed as Document No. 272093;

5. Order of Taking by Massachusetts Water Resources Authority dated March 6, 1996 and filed as Document No. 996657;

6. Order of Taking by Massachusetts Water Resources Authority dated March 27, 1996 and filed as Document No. 1000317.

For Grantor's title in the Premises see Certificate of Title No. 182833 filed at the Middlesex County South Registry District of the Land Court in Book 1044, Page 83.

600-76 Conservation Restriction Zone 1 (12-21-04)

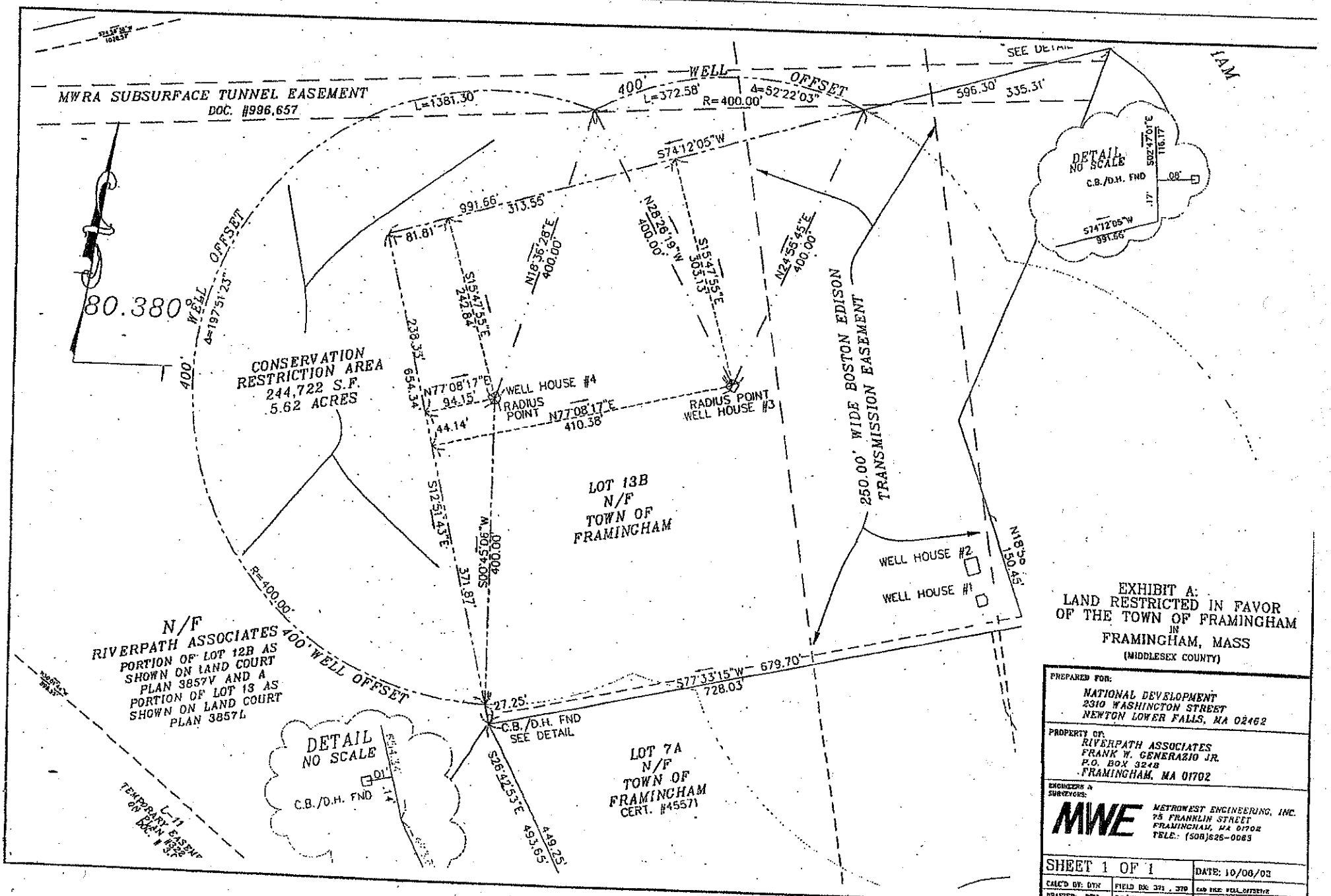


EXHIBIT A:
LAND RESTRICTED IN FAVOR OF THE TOWN OF FRAMINGHAM
IN
FRAMINGHAM, MASS
(MIDDLESEX COUNTY)

PREPARED FOR:
NATIONAL DEVELOPMENT
2310 WASHINGTON STREET
NEWTON LOWER FALLS, MA 02462

PROPERTY OF:
RIVERPATH ASSOCIATES
FRANK W. GENERAZIO JR.
P.O. BOX 3248
FRAMINGHAM, MA 01702

ENGINEERS & SURVEYORS:
MWE
METROWEST ENGINEERING, INC.
75 FRANKLIN STREET
FRAMINGHAM, MA 01702
TELE.: (508)626-0083

SHEET 1 OF 1		DATE: 10/06/03
CALC'D BY: DTN	FIELD BK: 371 , 370	CAD FILE: WELL_OFFSET/2
DRAFTER: DTN	PROJECT: FRM_ DANO	NOT TO SCALE

Town of Framingham

Valerie Mulvey, Town Clerk

Notice to Residents
January 21, 2005

Attached are the bylaw amendments adopted by the Framingham Special Town Meeting, which convened on October 19, 2004.

The amendments were submitted to the Office of the Attorney General and his approval and conditions are attached.

I hereby certify that the attached information is a true copy.

Valerie Mulvey

Valerie Mulvey
Town Clerk

Pursuant to the General Laws of Massachusetts, Chapter 40: Section 32:

Claims of invalidity by reason of any defect in the procedure of adoption or amendment of a zoning by-law may only be made within ninety days of this posting.

Memorial Building 150 Concord Street Framingham, Massachusetts 01702-8374
Phone: (508) 620-4862 Fax: (508) 628-1358 email: townclerk@framinghamma.org

THE COMMONWEALTH OF MASSACHUSETTS
OFFICE OF THE ATTORNEY GENERAL
WESTERN MASSACHUSETTS DIVISION
1350 MAIN STREET
SPRINGFIELD, MASSACHUSETTS 01103-1629

THOMAS F. REILLY
ATTORNEY GENERAL

(413) 784-1240
www.ago.state.ma.us

January 18, 2005

Valerie Mulvey, Town Clerk
150 Concord Street
Framingham, MA 01702

RE: Framingham Special Town Meeting of October 19, 2004 — Case # 3161
Warrant Articles # 2 and 3 (General)
Warrant Article # 1 (Zoning)

Dear Ms. Mulvey:

Articles 1 and 2 - I return with the approval of this Office the amendments to the town by-laws adopted under these Articles on the warrant for the Framingham special town meeting that convened on October 19, 2004, and the map pertaining to Article 1.

Article 1 - The amendments adopted under this Article amend the town's zoning by-laws by adding a new Section N, "Groundwater Protection District Bylaw," to Section III, "Use and Dimensional Regulations." Section 4 of the proposed by-law establishes the boundaries of the Water Resource District and Section 5 pertains to district boundary disputes. Section 5 provides as follows:

> If the location of the District boundary in relation to a particular parcel is in doubt, resolution of boundary disputes shall be through a Special Permit application to the Planning Board. Any application for a special permit for this purpose shall be accompanied by adequate documentation. The burden of proof shall be upon the owner(s) of the land to demonstrate that the location of the district boundary with respect to their parcel(s) of land is uncertain. At the request of the owner(s), the Town of Framingham may engage a professional engineer, hydrologist, geologist, or soil scientist to determine more accurately the boundaries of the district with respect to individual parcels of land, and may charge the owner(s) for the cost of the investigation.

Section 5 recognizes that lines on a map can only with limited precision be correlated with points on the surface of the land, and that such "line ambiguity" will occasionally need resolution. Section 5 therefore, provides a means by which to resolve doubt as to the location of a district boundary in relation to a particular parcel. That is, a district boundary – established by town meeting and shown on the map – may be verified on the ground, as distinct from established as part of the by-law.

We conclude that Section 5 is limited to the ministerial task of locating with precision on the ground the boundaries of the district as shown on the map, but is not a means of altering the district

boundaries themselves without the accompanying action of town meeting. We caution the town that Section 4 is in all instances controlling on the location of the district boundaries.

Article 2 - The amendments adopted under Article 2 add to the town's general by-laws a new Section 23, "Motor Scooters Prohibited." We call the town's attention to the recently enacted Chapter 396 of the Acts of 2004, "An Act Relative to the Operation of Motorized Scooters." The Act makes a number of statutory changes pertaining to the use of motorized scooters. The Act was approved by the Governor on November 18, 2004, and contained an emergency preamble making its provisions effective on November 18, 2004. We point out that the vote under Article 2 was October 25, 2004, approximately three weeks before the Act's effective date. Since the proposed by-law adopted under Article 2 is a general by-law, its provisions will take effect well after the effective date of the Act. G.L. c. 40, § 32.

Section 23.1 of the proposed by-laws provides as follows:

> The operation of so called "pocket bikes" and other motorized conveyances on public ways and town property jeopardizes public safety; their operation on public roadways and town-owned property is therefore prohibited.

Section 23.2.1 of the proposed by-law provides as follows:

> As used in this section, "motor scooter" specifically includes so-called "pocket bikes" miniature motorcycles and "go-carts". The term "motor scooter" shall also mean any two wheeled device that has handlebars, designed to be stood or sat upon by the operator, powered by an electric or gas powered motor that is capable of propelling the device with or without human propulsion except:
>
> (i) any "motorcycle" or "motorized bicycle" as defined in M.G.L. c. 90, §1;
>
> (ii) any vehicle registered as a motor vehicle by the registrar of motor vehicles or lawfully exempt from such registration;
>
> (iii) any wheelchair by a person with physical disabilities or any similar mobility-assisting device used by a person whose ambulatory mobility has been impaired by age, illness, or physical ailment; or,
>
> (iv) any vehicle owned or leased by the Town of Framingham.

Section 23.3 provides as follows:

> This by-law shall not prohibit the operation, on any paved sidewalk or marked pedestrian crosswalk, of any electric vehicle or personal conveyance which is incapable of speeds in excess of twelve and one-half miles per hour.

The first change adopted under Chapter 396 adds a definition of "Motorized Scooter" to the definitions in G.L. c. 90, § 1, and provides as follows:

> "Motorized scooter", any 2 wheeled tandem or 3 wheeled device, that has handlebars, designed to be stood or sat upon by the operator, powered by an electric or gas powered motor that is capable of propelling the device with or without human propulsion. The definition of "motorized scooter" shall not include a motorcycle or motorized bicycle or a 3 wheeled motorized wheelchair.

(Emphasis added.)

We point out that the definition of "motorized scooter" in G.L. c. 90, § 1, differs from the definition in the proposed by-law. First, the definition in G.L. c. 90, § 1, includes 3 wheeled devices. The definition in the proposed by-law does not include 3 wheeled devices. Moreover, just because a personal motorized vehicle may be exempt from the provisions of the proposed by-law does not mean such devices are exempt from G.L. c. 90, § 1E. Thus, we caution the town that the proposed by-law must be applied in a manner consistent with the new G.L. c. 90, § 1E.

Section 1E also provides that a person operating a motorized scooter upon a way shall have the right to use all public ways in the commonwealth except limited access or express state highways where signs specifically prohibiting scooters or bicycles have been posted. Thus, we caution the town that the prohibition in Section 23.1 must be applied in a manner consistent with the new G.L. c. 90, § 1E.

We next call the town's attention to the penalty provisions of Sections 23.4, 23.5, and 23.6. We suggest that, before the penalties are imposed for violations of the proposed by-law, the town discuss with the Middlesex District Attorney's Office and town counsel the application of the by-law and the principles of double jeopardy established under federal and state law. Great care must be given in implementing and enforcing this by-law because prosecution of a by-law violation – a lesser offense – might foreclose prosecution of a G.L. c. 90, § 1E, violation – a more serious offense – brought by the District Attorney.

We also call the town's attention to Section 23.7, which provides as follows:

> Whenever any police officer observes any person in violation of this bylaw, he or she may detain such person for purposes of the enforcement of this section and may remove such motor scooter to a secure area pending a disposition of such property by court order or otherwise by law.

(Emphasis added.)

In approving Section 23.7, we construe the power to arrest, as restated in the by-law amendment, to be derived exclusively and directly from the state statute, and not a power conferred by the by-law itself. Detention may be imposed only if and as authorized by state law, and not otherwise. The by-law thus restates state law rather than serving as authority to detain. We also construe the power to seize such devices, as stated in the proposed by-law, to be derived exclusively and directly from state law. Seizure of property, including motorized scooters, that is determined by law enforcement officers to be the instrumentality or evidence of criminal conduct is a matter comprehensively addressed by the General Laws of the Commonwealth. Section 23.7 may not be

construed as conferring the power to seize, upon local police officers, but rather as recognizing the existence of state law.

Chapter 396 amends the definition "Automobile law violation" in Section 1 of Chapter 90C to include motorized scooters. General Laws Chapter 90C pertains to civil motor vehicle infractions. Section 1 of Chapter 90C as amended provides in pertinent part as follows:

> Automobile law violation, any violation of any statute, ordinance, by-law or regulation relating to the operation or control of motor vehicles other than a violation (1) of any rule, regulation, order, ordinance or by-law regulating the parking of motor vehicles established by any city or town or by any commission or body empowered by law to make such rules and regulations therein, or (2) of any provision of chapter one hundred and fifty-nine B. A recreation vehicle and a snow vehicle, both as defined in section twenty of chapter ninety B, and a motorized bicycle and motorized scooter, both as defined in section 1 of chapter 90, shall be considered a motor vehicle for purposes of this chapter. A motor boat, as defined in section one of chapter ninety B, shall not be considered a motor vehicle for purposes of this chapter.

(Emphasis added.)

Section 1 also defines "civil motor vehicle infraction," which provides as follows:

> Civil Motor Vehicle Infraction, an automobile law violation for which the maximum penalty does not provide for imprisonment, excepting: (a) operation of a motor vehicle in violation of the first paragraph of section ten of chapter ninety; (b) a violation of section twenty-five of chapter ninety; and (c) any automobile law violation committed by a juvenile under the age of seventeen who does not hold a valid operators license.

(Emphasis added.)

As amended, Section 1 of Chapter 90C defines an automobile law violation to include by-laws that regulate the operation or control of motorized scooters. Section 1 then defines a civil motor vehicle infraction as an automobile law violation for which the maximum penalty does not provide for imprisonment. Thus, violations of the provisions of the proposed by-law may need to be enforced as civil motor vehicle infractions pursuant to the provisions of G.L. c. 90C, specifically, Section 2 and reported to the Registrar of Motor Vehicles, and not as criminal penalties for violations of the by-law. Therefore, we caution the Town to apply the provisions of the proposed by-law consistent with G.L. c. 90C. We suggest that the Town discuss this issue in more detail with Town Counsel.

Lastly, we call the town's attention to an amendment made to Article 2. An amendment to Article 2 was offered on the floor of town meeting that deleted "the words 'motor scooter' in the first four paragraphs and replacing them with the words 'so called pocket rocket or miniaturized motorcycle.'" However, based on letters submitted to us from the town, the town intended to delete the words " motor scooter" as they appear in the last four paragraphs in the proposed by-law. Based on this construction, we approve the amendments adopted under Article 2.

Article 3 - The amendment adopted under Article 3 deletes the current Article II, Section 1.1.3, and inserts new text that pertains to the authority of the selectmen and the planning board to develop a housing policy for the town. Presently, the Board of Selectmen-Town Manager Act provides that the board of selectmen shall be the chief policy making board of the town. We are informed that the town has sought a Special Act from the Legislature to amend Section 3 of Chapter 27 of the Acts of 1996, the Town Manager Act, to authorize the planning board to develop a housing policy jointly with the board of selectmen. The proposed amendments adopted under Article 3 would amend Section 1.1.3 of the town's general by-laws to be consistent with the anticipated act. As authorized by G.L. c. 40, § 32, we will retain for further review the vote taken under Article 3, and request that you send to us evidence that the Legislature has enacted the Act sought by the Town. Until then, the Attorney General has no basis to conclude consistency with state law. Were we not to retain the amendment, we would be compelled to disapprove the amendment as inconsistent with the town's existing special act charter. The Attorney General will then have ninety (90) days after receipt to review the by-law with the benefit of the information provided in response to this letter.

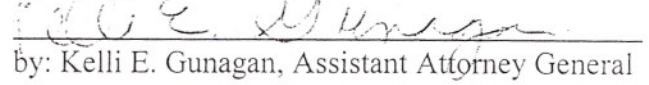
Note: **Under G.L. c. 40, § 32, neither general nor zoning by-laws take effect unless the town has first satisfied the posting/publishing requirements of this section. Once this statutory duty is fulfilled, (1) general by-laws and amendments take effect on the date that these posting and publishing requirements are satisfied unless a later effective date is prescribed in the by-law, and (2) zoning by-laws and amendments are deemed to have taken effect from the date they were voted by Town Meeting, unless a later effective date is prescribed in the by-law.**

If the Attorney General has disapproved and deleted one or more portions of any by-law or by-law amendment submitted for approval, only those portions approved are to be posted and published pursuant to G.L. c. 40, § 32. We ask that you forward to us a copy of the final text of the by-law or by-law amendments reflecting any such deletion. It will be sufficient to send us a copy of the text posted and published by the Town Clerk pursuant to this statute.

Nothing in the Attorney General's approval authorizes an exemption from any applicable state law or regulation governing the subject of the by-law submitted for approval.

Very truly yours,

THOMAS F. REILLY
ATTORNEY GENERAL



by: Kelli E. Gunagan, Assistant Attorney General
By-law Coordinator, Municipal Law Unit
1350 Main Street, 4th Floor
Springfield, MA 01103-1629
(413) 784-1240, x 117

enc.
pc: Town Counsel

Town of Framingham
Special Town Meeting
October 19, 2004

ARTICLE 1

To see if the Town will vote to amend the Town of Framingham Zoning By-Law in the following manner to establish a Groundwater Protection Overlay District Bylaw:

(1) Amend Section II.A., Establishment of Districts, by inserting a new section 11, Groundwater Protection District.

(2) Amend Section VI, Descriptions of Boundaries of Zoning Districts, the subsection entitled "Overlay Districts", to add "Groundwater Protection District" "(GPD)" after "Floodplain Districts" as shown below:

OVERLAY DISTRICTS:	
Planned Unit Development Districts	(PUD)
Highway Corridor Districts	(HC)
Regional Center District	(RC)
Adult Use District	(AU)
Floodplain Districts	See FIRM & Floodway Maps (FEMA)
Groundwater Protection District	(GPD)

(3) Amend Section III, Use and Dimensional Regulations, to insert new section N, Groundwater Protection District as printed in the background material.

As set forth in the Groundwater Protection Overlay District Bylaw printed in the background material, the Overlay District boundaries shall include at a minimum all areas within the proposed Interim Wellhead Protection Area associated with the Birch Road well site as defined in the Massachusetts Department of Environmental Protection (DEP) Division of Water Supply 88-03 until the designation of Zone II is approved by the DEP. At that time, the delineated Zone II shall become the designated boundary of the Groundwater Protection Overlay District.

A TRUE COPY ATTEST:
Valerie Mulvey
TOWN CLERK, FRAMINGHAM

Town of Framingham
Special Town Meeting
October 19, 2004

ARTICLE 1 (CONTINUED)

The Groundwater Protection Overlay District Bylaw reproduced in the background materials is in accordance with the Code of Massachusetts Regulation (310 CMR 22.21, Groundwater Supply Protection of Drinking Water Supply) and is modeled after the bylaw included in Appendix A.25 of the DEP document Making Wellhead Protection Work in Massachusetts.

Pass any vote or take any action relative thereto.

Sponsor: **Board of Selectmen**

Pass any vote or take any action relative thereto.

Sponsor: **Board of Selectmen**

October 19, 2004 Voted: That the Town amend the Town of Framingham Zoning Bylaw to establish a Groundwater Protection District Bylaw, as presented at the October 19, 2004 Special Town Meeting, in the following manner:

1. Amend Section II.A., Establishment of Districts, by inserting a new section 11, Groundwater Protection District.
2. Amend Section VI, Descriptions of Boundaries of Zoning Districts, the subsection entitled "Overlay Districts", to add "Groundwater Protection District" "(GPD)" after "Floodplain Districts"; and
3. Amend Section III, Use and Dimensional Regulations, to insert new section N, Groundwater Protection District.

136 Voting in favor; 3 opposed.

A TRUE COPY ATTEST:
Valerie Mulvey
TOWN CLERK, FRAMINGHAM

ARTICLE 1 Groundwater Protection District

To see if the Town will vote to amend the Town of Framingham Zoning By-Law in the following manner:.

(1) Amend Section II.A., Establishment of Districts, by inserting a new section 11, Groundwater Protection District.

(2) Amend Section VI, Descriptions of Boundaries of Zoning Districts, the subsection entitled "Overlay Districts", to add "Groundwater Protection District" "(GPD)" after "Floodplain Districts" as shown below:

OVERLAY DISTRICTS:	
Planned Unit Development Districts	(PUD)
Highway Corridor Districts	(HC)
Regional Center District	(RC)
Adult Use District	(AU)
Floodplain Districts	See FIRM & Floodway Maps (FEMA)
Groundwater Protection District	(GPD)

(3) Amend Section III, Use and Dimensional Regulations, to insert new section N, Groundwater Protection District as follows:

N. GROUNDWATER PROTECTION DISTRICT BYLAW

1. PURPOSE OF DISTRICT

The purpose of this Groundwater Protection District is to:

a. promote the health, safety, and general welfare of the community by ensuring an adequate quality and quantity of drinking water for the residents, institutions, and businesses of the Town of Framingham.

b. preserve and protect existing and potential sources of drinking water supplies;

c. conserve the natural resources of the town and

d. prevent temporary and permanent contamination of the environment.

2. SCOPE OF AUTHORITY

The Groundwater Protection District is an overlay district superimposed on the zoning districts. This overlay district shall apply to all new construction, reconstruction, or expansion of existing buildings and new or expanded uses. Applicable activities/uses in a portion of one of the underlying zoning districts that fall within the Groundwater Protection District must additionally comply with the requirements of this district. Uses prohibited in the underlying zoning districts shall not be permitted in the Groundwater Protection District.

3. DEFINITIONS

For the purposes of this section, the following terms are defined below:

Article 1

Aquifer: Geologic formation composed of rock, sand or gravel that contains significant amounts of potentially recoverable water.

Groundwater Protection District: The zoning district defined to overlay other zoning districts in the Town of Framingham. The groundwater protection district may include specifically designated recharge areas.

Hazardous Material: Any substance or mixture of physical, chemical, or infectious characteristics posing a significant, actual, or potential hazard to water supplies or other hazards to human health if such substance or mixture were discharged to land or water in the Town of Framingham. Hazardous materials include, without limitation: synthetic organic chemicals; petroleum products; heavy metals; radioactive or infectious wastes; acids and alkalis; solvents and thinners in quantities greater than normal household use; and all substances defined as hazardous or toxic under M.G.L. c. 21C and 21E and 310 CMR 30.00.

Impervious Surface: Material or structure on, above, or below the ground that does not allow precipitation or surface water to penetrate directly into the soil.

Landfill: A facility established in accordance with a valid site assignment for the purposes of disposing solid waste into or on the land, pursuant to 310 CMR 19.006.

Non-sanitary wastewater: Wastewater discharges from industrial and commercial facilities containing wastes from any activity other than collection of sanitary sewage, including, but not limited to, activities specified in the Standard Industrial Classification (SIC) Codes set forth in 310 CMR 15.004(6).

Open Dump: A facility which is operated or maintained in violation of the Resource Conservation and Recovery Act (42 U.S.C. 4004(a)(b)), or the regulations and criteria for solid waste disposal.

Potential Drinking Water Sources: Areas which could provide significant potable water in the future.

Recharge Areas: Areas that collect precipitation or surface water and carry it to aquifers. Recharge areas include areas designated by DEP as Zone I, Zone II, or Zone III.

Septage: The liquid, solid, and semi-solid contents of privies, chemical toilets, cesspools, holding tanks, or other sewage waste receptacles. Septage does not include any material which is a hazardous waste, pursuant to 310 CMR 30.000.

Sludge: The solid, semi-solid, and liquid residue that results from a process of wastewater treatment or drinking water treatment. Sludge does not include grit, screening, or grease and oil which are removed at the headworks of a facility.

Treatment Works: Any and all devices, processes and properties, real or personal, used in the collection, pumping, transmission, storage, treatment, disposal, recycling, reclamation, or reuse of waterborne pollutants, but not including any works receiving a hazardous waste from off the site of the works for the purpose of treatment, storage, or disposal.

Very Small Quantity Generator: Any public or private entity, other than residential, which produces less than 27 gallons (100 kilograms) a month of hazardous waste or waste oil, but not including any acutely hazardous waste as defined in 310 CMR 30.136.

Waste Oil Retention Facility: A waste oil collection facility for automobile service stations, retail outlets, and marinas which is sheltered and has adequate protection to contain a spill, seepage, or discharge of petroleum waste products in accordance with M.G.L. c. 21. s. 52A.

4. ESTABLISHMENT AND DELINEATION OF GROUNDWATER PROTECTION DISTRICT

For the purposes of this district, there are hereby established within the Town of Framingham certain groundwater protection areas, consisting of aquifers or recharge areas which are delineated on a map. This map is entitled Groundwater Protection District Map, Town of Framingham. This map is hereby made a part of the Town of Framingham Zoning By-Law and is on file in the Office of the Town Clerk.

5. DISTRICT BOUNDARY DISPUTES

If the location of the District boundary in relation to a particular parcel is in doubt, resolution of boundary disputes shall be through a Special Permit application to the Planning Board. Any application for a special permit for this purpose shall be accompanied by adequate documentation. The burden of proof shall be upon the owner(s) of the land to demonstrate that the location of the district boundary with respect to their parcel(s) of land is uncertain. At the request of the owner(s), the Town of Framingham may engage a professional engineer, hydrologist, geologist, or soil scientist to determine more accurately the boundaries of the district with respect to individual parcels of land, and may charge the owner(s) for the cost of the investigation.

6. PERMITTED USES

The following uses are permitted within the Groundwater Protection District, provided that all necessary permits, orders, or approvals required by local, state, or federal law are also obtained :

i. conservation of soil, water, plants, and wildlife;

ii. outdoor recreation, nature study, boating, fishing, and hunting where otherwise legally permitted;

iii. foot, bicycle and/or horse paths, and bridges;

iv. normal operation and maintenance of existing water bodies and dams, splash boards, and other water control, supply and conservation devices;

v. maintenance, repair, and enlargement of any existing structure, subject to Section 7 and Section 8 of this bylaw;

vi. residential and commercial development, subject to Section 7, Section 8, and Section 9 of this bylaw;

vii. farming, gardening, nursery, conservation, forestry, harvesting, and grazing, subject to Section 7 and Section 8 of this bylaw;

viii. construction, maintenance, repair, and enlargement of drinking water supply related facilities such as, but not limited to, wells, pipelines, aqueducts, and tunnels.

7. USES PERMITTED BY ADMINISTRATIVE APPROVAL

The following uses are permitted within the Groundwater Protection District, provided that all necessary permits, orders, or approvals required by local, state, or federal law are also obtained, and further provided that the use has been approved by the Department of Public Works (DPW) Director or his designee after review of plans and documentation deemed appropriate by the DPW Director.

i. lots occupied, or proposed to be occupied, by single or two family residences provided that recharge shall be attained through site design that incorporates natural drainage patterns and vegetation in order to maintain pre-development stormwater patterns and water quality to the greatest extent possible.

8. PROHIBITED USES

The following uses are prohibited within the Groundwater Protection District

i. landfills and open dumps as defined in 310 CMR 19.006;

ii. automobile graveyards and junkyards, as defined in M.G.L. c. 140B, §1;

iii. landfills receiving only wastewater and/or septage residuals including those approved by the Department pursuant to M.G.L.c. 21, §26 through §53; M.G.L.c. 111, §17; M.G.L c. 83, §6 and §7, and regulations promulgated thereunder;

iv. facilities that generate, treat, store, or dispose of hazardous waste that are subject to M.G.L.c. 21C and 310 CMR 30.00, except for:

a) very small quantity generators as defined under 310 CMR 30.000;
b) household hazardous waste centers and events under 310 CMR 30.390;
c). waste oil retention facilities required by M.G.L. c. 21, §52A;
d) water remediation treatment works approved by DEP for the treatment of contaminated ground or surface waters;

v. petroleum, fuel oil, and heating oil bulk stations and terminals including, but not limited to, those listed under Standard Industrial Classification (SIC) Codes 5983 and 5171, not including liquefied petroleum gas.

vi. storage of liquid hazardous materials, as defined in M.G.L.c. 21E, and/or liquid petroleum products unless such storage is:

a) above ground level, and;
b) on an impervious surface, and
c) either
(i) in container(s) or above ground tank(s) within a building, or;
(ii) outdoors in covered container(s) or above ground tank(s) in an area that has a containment system designed and operated to hold either 10% of the total possible storage capacity of all containers, or 110% of the largest container's storage capacity, whichever is greater;

vii. storage of sludge and septage, unless such storage is in compliance with 310 CMR 32.30 and 310 CMR 32.31;

viii. storage of deicing chemicals unless such storage, including loading areas, is within a structure designed to prevent the generation and escape of contaminated runoff or leachate;

ix. storage of animal manure unless covered or contained within a structure designed to prevent the generation and escape of contaminated runoff or leachate;

x. earth removal, consisting of the removal of soil, loam, sand, gravel, or any other earth material to within 4 feet of historical high groundwater as determined from monitoring wells and historical water table fluctuation data compiled by the United States Geological Survey, except for excavations for building foundations, swimming pools, roads, or utility works

xi. discharge to the ground of non-sanitary wastewater including industrial and commercial process waste water, except:

a. the replacement or repair of an existing treatment works that will not result in a design capacity greater than the design capacity of the existing treatment works;

b. treatment works approved by the Department designed for the treatment of contaminated ground or surface water and operating in compliance with 314 CMR 5.05(3) or 5.05(13);and

c. publicly owned treatment works.

xii. stockpiling and disposal of snow and ice containing deicing chemicals brought in from outside the district;

xiii. storage of commercial fertilizers, as defined in M.G.L. Chapter 128, §64, unless such storage is within a structure designed to prevent the generation and escape of contaminated runoff or leachate.

9 USES AND ACTIVITIES REQUIRING A SPECIAL PERMIT

The following uses and activities are permitted only upon the issuance of a Special Permit by the Planning Board under such conditions as they may require:

i. enlargement or alteration of existing uses that do not conform to the Groundwater Protection District;

ii. those activities that involve the handling of toxic or hazardous materials in quantities greater than those associated with normal household use, permitted in the underlying zoning (except as prohibited under Section 7). Such activities shall require a special permit to prevent contamination of groundwater;

iii. any use other than single-family and two-family residential use that will render impervious any lot or parcel more than 15% or 2,500 square feet, whichever is greater. A system for groundwater recharge must be provided which does not degrade groundwater quality. For lots occupied, or proposed to be occupied by other uses a stormwater management plan shall be developed which provides for the artificial recharge of precipitation to groundwater through site design that incorporates natural drainage patterns and vegetation and through the use of constructed (stormwater) wetlands, wet (detention) ponds, water quality swales, sand filters, organic filters or similar site appropriate best management practices capable of removing nitrogen and other contaminants from stormwater and meeting the Stormwater Management Standards and technical guidance contained in the Massachusetts Department of Environmental Protection's Stormwater Management Handbook, Volumes 1 and 2, dated March 1997, for the type of use proposed and the soil types present on the site. Such runoff shall not be discharged directly to rivers, streams, and other surface water bodies, wetlands or vernal pools. Dry wells shall be prohibited.

Except when used for roof runoff from non galvanized roofs, all such wetlands, ponds, swales or other infiltration facilities shall be preceded by oil, grease and sediment traps or other best management practices to facilitate control of hazardous materials spills and removal of contamination and to avoid sedimentation of treatment and leaching facilities. All such artificial recharge systems shall be maintained in full working order by the owner(s) under the provisions of an operations and maintenance plan approved by the permitting authority to ensure that systems function as designed. Infiltration systems greater than three (3) feet deep shall be located at least one hundred (100) feet from drinking water wells. Any infiltration basins or trenches shall be constructed with a three (1) foot minimum separation between the bottom of the structure and maximum groundwater elevation.

10. PROCEDURES FOR ISSUANCE OF SPECIAL PERMIT

A. The Special Permit Granting Authority (SPGA) under this bylaw shall be the Planning Board. Such special permit shall be granted if the Planning Board determines, in conjunction with the Board of Health, the Conservation Commission, and Department of Public Works, that the intent of this bylaw, as well as its specific criteria, are met. The Planning Board shall not grant a special permit under this section unless the petitioner's application materials include, in the Planning Board's opinion, sufficiently detailed, definite, and credible information to support positive findings in relation to the standards given in this section. The Planning Board shall document the basis for any departures from the recommendations of the other Town of Framingham boards or agencies in its decision.

B. Upon receipt of the special permit application, the Planning Board shall transmit one copy to the Board of Health, the Conservation Commission, and Department of Public Works for their written recommendations. Failure to respond in writing within 35 days of receipt by the Board shall indicate approval or no desire to comment by said agency. The necessary number of copies of the application shall be furnished by the applicant.

C. The Planning Board may grant the required special permit only upon finding that the proposed use meets the following standards, those specified in Section 7 of this bylaw, and any regulations or guidelines adopted by the Planning Board. The proposed use must:

   1. in no way, during construction or thereafter, adversely affect the existing or potential quality of quantity of water that is available in the Groundwater Protection District; and

   2. be designed to minimize disturbance of the soils, topography, drainage, vegetation, and other water-related natural characteristics of the site to be developed.

D. The Planning Board may adopt regulations to govern design features of projects. Such regulations shall be consistent with subdivision regulations adopted by the municipality.

E. The applicant shall file 15 copies of a site plan and attachments. The site plan shall be drawn at a proper scale as determined by the Planning Board and be stamped by a professional engineer. All additional submittals shall be prepared by qualified professionals. The site plan and its attachments shall at a minimum include the following information where pertinent:

Article 1.

1. a complete list of chemicals, pesticides, herbicides, fertilizers, fuels, and other potentially hazardous materials to be used or stored on the premises in quantities greater than those associated with normal household use;

2. for those activities using or storing such hazardous materials, a hazardous materials management plan shall be prepared and filed with the Hazardous Materials Coordinator, Fire Chief, and Board of Health. The plan shall include:

   a. provisions to protect against the discharge of hazardous materials or wastes to the environment due to spillage, accidental damage, corrosion, leakage, or vandalism, including spill containment and clean-up procedures;

   b. provisions for indoor, secured storage of hazardous materials and wastes with impervious floor surfaces;

   c. evidence of compliance with the Regulations of the Massachusetts Hazardous Waste Management Act 310 CMR 30, including obtaining an EPA identification number from the Massachusetts Department of Environmental Protection.

   d. proposed down-gradient location(s) for groundwater monitoring well(s), should the Planning Board deem the activity a potential groundwater threat.

F. The Planning Board shall hold a hearing, in conformity with the provision of MGL Chapter 40A, § 9, within 65 days after the filing of the application and after the review by the Town of Framingham Boards, Departments, and Commissions. Notice of the public hearing shall be given by publication and posting and by first-class mailings to "parties of interest" as defined in MGL Chapter 40A, §11. The decision of the Planning Board and any extension, modification, or renewal thereof shall be filed with the Planning Board and Town Clerk within 90 days following the closing of the public hearing. Failure of the Planning Board to act within 90 days shall be deemed as a granting of the permit.

11. ENFORCEMENT

A. Written notice of any violations of this bylaw shall be given by the Building Commissioner (Zoning Enforcement Officer) to the responsible person as soon as possible after detection of a violation or a continuing violation. Notice to the assessed owner of the property shall be deemed notice to the responsible person. Such notice shall specify the requirement or restriction violated and the nature of the violation, and may also identify the actions necessary to remove or remedy the violations and preventive measures required for avoiding future violations and a schedule of compliance.

A copy of such notice shall be submitted to the Town of Framingham Building Inspector, Board of Health, Conservation Commission and Public Works, and Water Department. The cost of containment, clean-up, or other action of compliance shall be borne by the owner and operator of the premises.

12. SEVERABLITY

A determination that any portion or provision of this overlay protection district is invalid shall not invalidate any other portion or provision thereof to the greatest extent permitted by law, nor shall it invalidate any special permit previously issued thereunder.

Town of Framingham, Massachusetts

Interim Groundwater Protection District Map

Legend

- Interim Groundwater Protection Area
- Birch Road Wells

Framingham Zoning

Zone_Type

- Business
- Commercial
- Educational
- Government
- Industrial
- Institution
- Large Institution
- Large Residential
- Open Land
- Residential

N

Scale 1:10,000

DATE: September 13, 2004

APPROVED

Office

1/16/05

10/19/04

A TRUE COPY ATTEST:

TOWN CLERK, FRAMINGHAM

Town of Framingham
Special Town Meeting
October 19, 2004

ARTICLE 2

To see if the Town will vote to amend Article V, Health and Safety, of the Town Bylaws, by inserting a new Section 23, which will prohibit mini / pocket bikes, scooters and tandem-wheeled personal conveyances on public ways and Town property within the Town of Framingham, the full text of which is provided for in the background materials.

Pass any vote or take any action relative thereto.

Sponsor: **Board of Selectmen**

October 19, 2004 Voted: That the Town amend Article V, Health and Safety, of the Town Bylaws, by inserting a new Section 23, which will prohibit mini/pocket bikes, scooters and tandem-wheeled personal conveyances on public ways and Town property within the Town of Framingham, as presented at the October 19, 2004 Special Town Meeting.

A TRUE COPY ATTEST:
Valerie Mahoney
TOWN CLERK, FRAMINGHAM

Town of Framingham
Special Town Meeting
October 19, 2004

ARTICLE 2 AMENDMENT

October 19, 2004 Voted: That Article 2 of the October 19, 2004 Special Town Meeting be amended by deleting the words "motor scooter" in the first four paragraphs and replacing them with the words "so called pocket rocket or miniaturized motorcycle".

A TRUE COPY ATTEST:
Patricia Mahoney
TOWN CLERK, FRAMINGHAM

Article 2

As presented at Town Meeting
October 19, 2004

Section 23. Motor Scooters Prohibited

23.1 Preamble

The operation of so called "pocket bikes" and other motorized conveyances on public ways and town property jeopardizes public safety; their operation on public roadways and town-owed property is therefore prohibited.

23.2 Definition

For the purpose of this bylaw, the following terms, phrases, words, and their derivations shall have the meanings given herein. When not inconsistent with the context, words used in the present tense include the future; words used in the plural number include the singular number, and words used in the singular number include the plural number. The word "shall" is always mandatory and not merely directory.

23.2.1 As used in this section, "motor scooter" specifically includes so-called "pocket bikes" miniature motorcycles and "go-carts". The term "motor scooter" shall also mean any two wheeled device that has handlebars, designed to be stood or sat upon by the operator, powered by an electric or gas powered motor that is capable of propelling the device with or without human propulsion except:

(i) any "motorcycle" or "motorized bicycle" as defined in M.G.L. c. 90, §1;

(ii) any vehicle registered as a motor vehicle by the registrar of motor vehicles or lawfully exempt from such registration;

(iii) any wheelchair by a person with physical disabilities or any similar mobility-assisting device used by a person whose ambulatory mobility has been impaired by age, illness or physical ailment; or,

(iv) any vehicle owned or leased by the Town of Framingham.

23.3 This bylaw shall not prohibit the operation, on any paved sidewalk or marked pedestrian crosswalk, of any electric vehicle or personal conveyance which is Incapable of speeds in excess of twelve and one-half miles per hour

23.4 Any person who operates any motor scooter on any portion of any public way in the Town of Framingham, including the public sidewalk, or on any other public property, including schools, parks, or playgrounds, within the Town of Framingham, shall be fined one-hundred dollars per incident.

23.5 Any parent who permits his or her minor child to operate a motor scooter in violation of this bylaw shall be fined one-hundred dollars per incident.

Article 2

As presented at Town Meeting
October 19, 2004

23.6 Any person who rides as a passenger on any motor scooter operated in violation of the above shall be fined fifty dollars per incident.

23.7 Whenever any police officer observes any person in violation of this bylaw, he or she may detain such person for purposes of the enforcement of this section and may remove such motor scooter to a secure area pending a disposition of such property by court order or otherwise by law.

Chapter 396 of the Acts of 2004

AN ACT RELATIVE TO THE OPERATION OF MOTORIZED SCOOTERS.

Whereas , The deferred operation of this act would tend to defeat its purpose, which is to regulate forthwith the operation of motorized scooters, therefore it is hereby declared to be an emergency law, necessary for the immediate preservation of the public convenience.<_O>>

Be it enacted by the Senate and House of Representatives in General Court assembled, and by the authority of the same, as follows:

SECTION 1. Section 1 of chapter 90 of the General Laws, as appearing in the 2002 Official Edition, is hereby amended by inserting after the definition of "Motorized bicycle" the following definition:-

"Motorized scooter", any 2 wheeled tandem or 3 wheeled device, that has handlebars, designed to be stood or sat upon by the operator, powered by an electric or gas powered motor that is capable of propelling the device with or without human propulsion. The definition of "motorized scooter" shall not include a motorcycle or motorized bicycle or a 3 wheeled motorized wheelchair.

SECTION 2. Said chapter 90 is hereby further amended by striking out section 1C, as so appearing, and inserting in place thereof the following section:-

Section 1C. Motorized bicycles and motorized scooters shall comply with all applicable federal motor vehicle safety standards.

SECTION 3. Said chapter 90 is hereby further amended by inserting after section 1D, as so appearing, the following section:-

Section 1E. A motorized scooter shall not be operated on any way by a person not possessing a valid driver's license or learner's permit, nor at a speed in excess of 20 miles per hour. A person operating a motorized scooter upon a way shall have the right to use all public ways in the commonwealth except limited access or express state highways where signs specifically prohibiting scooters or bicycles have been posted, and shall be subject to all traffic laws and regulations of the commonwealth and the regulations contained in this section, except that: (1) a scooter operator shall keep to the right side of the road at all times, including when passing a motor vehicle which is moving in the travel lane of the way; and (2) the scooter shall be equipped with operational stop and turn signals so that the operator can keep both hands on the handlebars at all times. No person shall operate a motor scooter upon any way at any time after sunset or before sunrise.

A person operating a motorized scooter shall wear protective headgear conforming with such minimum standards of construction and performance as the registrar may prescribe. No person operating a motorized scooter shall permit any other person to ride as a passenger on the scooter.

A person convicted of a violation of this section shall be punished by a fine of not more than $25 for the first violation, not less than $25 nor more than $50 for a second violation and not less than $50 nor more than $100 for a third or subsequent violation.

SECTION 4. Section 8B of said chapter 90, as appearing in the 2002 Official Edition, is hereby amended by inserting after the word "bicycle", in lines 18 and 19, the following words:- or motorized scooter.

SECTION 5. The definition of "Automobile law violation" in section 1 of chapter 90C of the General Laws, as so appearing, is hereby amended by striking out the second sentence and inserting in place thereof the following sentence:- A recreation vehicle and a snow vehicle, both as defined in section 20 of chapter 90B, a motorized bicycle and motorized scooter, both as defined in section 1 of chapter 90, shall be considered a motor vehicle for the purposes of this chapter.

Approved November 18, 2004.

Return to:
List of Laws passed in 2004 Session
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