Appendix 7

Highgate-Woodlands at North Salem
Water Supply Report

Highgate Woodlands at North Salem Water Supply Report

Highgate Woodlands at North Salem Residential Development
Croton Falls
Town of North Salem, Westchester County, New York

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HIGHGATE WOODLANDS At NORTH SALEM WATER SUPPLY REPORT
Town of North Salem, New York

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1.0 BACKGROUND

This report was prepared to summarize the results of a groundwater testing study conducted during the spring and summer of 2008, associated with the proposed Highgate Woodlands at North Salem residential development. The proposed development is located on 159.52 acres, in the Town of North Salem, Westchester County, New York.

The Highgate Woodlands at North Salem project is planned as a residential project. The pumping test and this analysis was completed with the assumption that the wells were to be used to supply sufficient water for up to 47 single family homes and 76 townhouse units. Subsequent to the testing, the number of residential units was reduced to 42 single family residences and 76 townhouse units. Seven (7) wells were drilled during earlier project proposals beginning in the 1980's. Well locations are shown in Figure 2. Previous testing indicated that the existing wells were productive but the testing protocols used during prior testing do not meet current standards for pumping tests. Additionally, some of the data that was developed during the earlier testing could not be found and needed to be redeveloped. With the advent of digital data loggers, a more accurate and comprehensive off-site monitoring program could be implemented.

As part of the preparation for the pumping test program the existing wells were first inspected and then "redeveloped" using hydrosurging. This is a process in which a piston device is used to force water into and out of the existing bedrock fractures in the wells to remove sediment, mineral encrustation, and improve yield. During the redevelopment process it was discovered that Well 3 had been vandalized to the extent that it was not usable. Well 3 was replaced by Well 3A, located approximately 30 feet away. A second well, Well 5, which originally had been drilled in the 1980's, was too close to one of the on-site wetlands. This well was replaced by Well 5A, outside the wetland buffer. Well 1 was found to be unusable as a production well since it was located too close to the proposed septic disposal area. Wells 6 and 7 were not located following a thorough survey of the property and therefore were not used as production wells or monitoring wells during the pump test. All wells that are not to be used for the community water supply, and can be located, will be properly abandoned per NYSDEC standards.

Recharge Analysis

The recharge area the project site generally corresponds to surface water drainage areas. As precipitation falls upon the site, a portion of that drainage will enter the soil and eventually drain to fractures in the bedrock. Since the project site occupies a topographic ridge, only a small off-site area provides surface water run-off onto the site. No off-site streams flow onto the site. Surface water drainage areas contributing to groundwater recharge are shown in Figure 1 Surface Water Drainage Map. In order to provide a conservative analysis, the recharge analysis considered the groundwater contribution from the actual property boundaries only, or 159.52 acres.

As described in Chapter 4.21 Groundwater, several studies have been completed to estimate groundwater recharge to aquifers in the Hudson Valley as well as Westchester and Putnam Counties. In general, these studies indicate that between 15 and 40 percent of annual precipitation is available to recharge local aquifers. The balance of total precipitation is either lost to evapotranspiration or flows via overland surface flow or shallow interflow to streams and rivers. The most accurate predictors of groundwater recharge utilize local precipitation records and account for local soil conditions.

The Chazen Companies (Chazen) have developed a model for estimating groundwater recharge utilizing local soils and to estimate how changes in land use affect recharge (*Wappinger Creek Watershed Groundwater Recharge and Stream Baseflow Evaluation Assessment, The Chazen Companies, March, 2006*, and *Dutchess County Aquifer Recharge Rates and Sustainable Septic System Density Recommendations, The Chazen Companies, April, 2006*). While the model was developed for watersheds in Dutchess County New York, the model can be applied to other drainage areas and properties. The Chazen Companies applied recharge models developed for Dutchess County in the *North Salem Aquifer Report, January, 2008.* The Chazen studies indicate that rates of groundwater recharge are primarily constrained by rainfall and local specific soil types in a watershed or on a property.

Table 1, Woodlands Property Soils Recharge Rates provides a summary of estimated recharge rates through on-site soils to the bedrock aquifer. This analysis considers the area of the project site only and does not consider the potential influence or recharge from off-site areas. Further discussion of recharge rates and analysis is provided in Chapter 4.21 Groundwater.

Table 1
Highgate Woodlands Property Soils Recharge Rates

On-site Soils Hydrogeologic Group	Acres of Soils per Group	Annual Groundwater Recharge (in) *	Correction Factor	Total Recharge (gallons/day)
Group A	0	N/A	N/A	N/A
Group B	62.4	14.7	74.4	68,464
Group C	89.6	7.6	74.4	50,777
Group D	8.0	4.2	74.4	2,500
Total	160			**121,741**

Source: Tim Miller Associates, Inc., and
Recharge formula from *Wappinger Creek Watershed Groundwater Recharge and Stream Baseflow Evaluation Assessment, The Chazen Companies, March 2006*
Recharge rates from Tenmile River Watershed per *Dutchess County Aquifer Recharge Rates & Sustainable Septic System Density Recommendations, The Chazen Companies, 2006.*

Table 2 - On-site Aquifer Recharge Calculations provides a summary of available rainfall for the Highgate Woodlands site and an estimation of recharge to the aquifer, on an annual and daily basis.

Table 2 On-site Aquifer Recharge Calculations	
Acres	160
Square Feet	6,987,024
Average rainfall per year (inches) *	48
Average rainfall per year (feet)	4
Cubic feet of precipitation per year	27,948,096
Gallons of precipitation per year	209,051,758
Amount, in gallons, available for recharge per day (*Estimated per Table 1 , above)*	**121,741**
Amount, in gallons, available for recharge per minute	**84.5**
Source: Tim Miller Associates, Inc. * 30 year average for 1951-1980 per *Mean Annual Runoff, Precipitation and Evapotranspiration in the Glaciated Northeast, 1951 - 1980, Allan D. Randall, USGS.*	

Based upon the Chazen model, current groundwater recharge rates to the bedrock aquifer are estimated to be 121,741 gallons per day or 84.5 gallons per minute. Under drought conditions (an estimated 30 percent reduction), recharge would be 85,219 gallons per day (gpd) or 59.2 gallons per minute (gpm).

The proposed average daily water demand for domestic purposes previously was 37,500 gpd or 26.0 gpm. Due to a reduction in the number of proposed residential units and bedroom mix, the current average daily demand is 33,000 gpd or 23.0 gpm. The pump testing and groundwater analysis completed for this Water Supply Report assumes the more conservative average daily demand of 37,500 gpd. Seasonal water demand for landscaping may add an additional 20,000 gallons per day for a total of up to 57,500 gpd or 40 gpm. Therefore, based upon the Chazen recharge model, adequate groundwater is available from precipitation on the project site to supply project water demands during normal and during drought conditions. Project groundwater impacts and groundwater balance are further described in Section 4.21 of the DEIS.

The recharge estimates provided above do not account for groundwater contributions from upgradient groundwater areas, surface water contribution, or water added to the local aquifer from the wastewater system. Although the recharge estimates, above, show a balance or surplus of groundwater contributions to the site, off-site impacts may still occur due to the irregular distribution of fractures, both on and off-site.

2.0 GEOLOGY

The project site and much of the Town of North Salem is located in the northern portion of the Manhattan Prong Physiographic province. The site and environs are underlain by crystalline bedrock units of Precambrian to Ordovician age, which consist of complexly folded and faulted metamorphic and igneous rocks.

The bedrock underlying the Woodlands site is mapped as the Manhattan formation, described as Ordovician age pelitic schist and amphibolite rock, and according to the *Geologic Map of New York, Lower Hudson Sheet* (New York State Museum, 1970). A north-east-south-west

trending band of gabbro, norite, hornblend diorite, part of the Croton Falls and Peach Lake formations is mapped through the property and the Manhattan Formation is mapped around the Croton Falls formation. The bedrock structure forms hills and valleys that generally trend southwest to northeast in northern Westchester and southern Putnam counties.

The Woodlands property is located in a section of North Salem with several mapped faults that parallel Route 684. Additionally the area is moderately fractured. The property is covered by relatively thin glacial till deposits with exposed bedrock in the highest portions of the property.

A review of published data, specifically the New York State Department of Environmental Conservation (NYSDEC) well data database and the Ground Water Resources of Westchester County, New York (USGS publication) did not provide detailed information regarding existing wells in the Woodlands area other than the existence of radio nuclides in some wells in Croton Falls.

3.0 WELL DRILLING

Seven (7) existing wells were drilled during the 1980's on the current Woodlands Highgate property and are shown on Figure 2. An air rotary well rig was employed to drill the two replacement wells (Wells 3A and 5A) for this project. Well 3, the existing well that was damaged by vandalism was reported to be a moderately productive well with a yield of between 40 and 60 gallons per minute. Its replacement was drilled to a depth 884 feet and had a total yield of 60 gpm upon completion. Well 5, a 15 to 20 gpm well when tested in the 1980's, was replaced by Well 5A, since the original Well 5 was located too close to a wetland. Well 5A was drilled to a depth of 1134 feet and had a final yield of 15 to 20 gpm upon completion.

A summary of the former wells and more recently drilled wells is provided in Table 3 Well Summary. The table provides details regarding the date of installation, well depth, and static water levels, where available. The drillers well logs for the on-site wells are provided in Attachment A. As indicated in the Table, on-site Wells 2, 3A, 4 and 5A are proposed to be used as water production wells in a future water supply system. Wells 1, 3, and 5 will be properly abandoned, per NYSDEC Water Supply Well Decommissioning Recommendations, following Site Plan approval.

Table 3 Highgate-Woodlands Property Well Summary						
Well Number	**Status**	**Year Installed**	**Well Depth**	**Well Yield**	**Fracture Depths**	**Static Water Level**
Well 1	To be Abandoned	1984	1005‘	30 gpm	unknown	Not tested
Well 2	**Production Well**	**1984**	**685’**	**16+ gpm**	**unknown**	37’
Well 3	Well damaged. To be Abandoned	1986	658’	42 gpm	130’	25‘
Well 3A	**Production Well**	**2008**	**884’**	**60 gpm**	**240’, 300’**	25’
Well 4	**Production Well**	**1986**	**883’**	**60 gpm**	**660’, 733’**	22’
Well 5	To be Abandoned	1986	605‘	2 gpm	unknown	21’
Well 5A	**Production Well**	**2008**	**1134’**	**16+ gpm**	**210’, 950’**	23’
Well 6	Not Located	1986	760‘	2 gpm	350’, 655’, 760’	Not tested
Well 7	Not Located	1986	unknown	unknown	unknown	Not tested
Notes: Well information is from available well logs. Wells with Bold text are proposed as water production wells for the project. A 72 hour pump test on Wells 2, 3A, 4 and 5A provided the well yields for those wells. The wells yields for the remaining wells is based upon drillers estimate or preliminary testing done in the 1980’s.						

4.0 PRIVATE WELL MONITORING

Establishment of Off-Site Well Monitoring Locations

The initial step in the off-site well monitoring program involved sending questionnaire regarding the construction and performance of their respective private wells was included in the monitoring request. In addition, property owners were contacted if responses were not received or if questions were raised. A copy of the letter, survey, and survey responses are provided in Attachment B, as well as a list of the recipients of the mailing.

Fourteen homeowners responded positively and all, except one, were included in the monitoring program. The one exception was Mr. James DeSalvo’s residence located at Map ID #21 shown on Figure 2. The well associated with this residence is buried on a slope with no clear indication as to the location of the well. The off-site monitoring wells are listed in Table 3 below as well as listed on Figure 2, with their corresponding Map ID numbers. The results of the monitoring are discussed in Section 8.0 Pumping Test Results.

Table 4 Homeowner Wells Monitored During the Pump Test	
Map ID	**Homeowner(s)**
3	Crosby Juengst Farm Association
5	Nicholas & Joanne Coschignano
6	John Keating & Helene Hall
9	McKeown Family Trust
11	Deborah Malanchuk
14	James & Carolyn Nesbitt
15	Robert & Nancy Brooks
17	Thomas & Marisa Daros
19	Anna Vasilevskey
22	Ors & Cathleen Deak
28	William King
29	Andrew Pelosi
30	Allison & Victor Lee

Digital data loggers were placed in each of the private wells and the on-site monitoring wells, several days before the start of the pumping test, to collect background water level data to be compared to the water level data collected during the pumping test and recovery period. The loggers were programmed to collect data every hour for the duration of the test. The data collected from the data loggers are shown in the attached charts in Attachment C.

5.0 TEST PROCEDURE

The Woodlands residential development requires that production wells produce a total of 57,500 gallons per day (gpd) or 40 gallons per minute (gpm) (average daily demand). This includes a domestic water demand of 37,500 gpd or 26.0 gpm. The revised actual water demand (2010 site Plan) is 33,000 gpd or 23 gpm.

The New York State Department of Health (NYSDOH) and Westchester County Department of Health (WCDOH) require that the developed wells produce twice the average daily demand (or peak daily demand) with the best well out of service. Therefore, the three wells tested for this project were required to produce a total minimum of 57,000 gallons per day, or 40 gpm for the primary well and a combined 40 gpm for the remaining two wells (80 gpm total). Additionally the Town required that the yield total be increased by fifteen percent. The 15% addition was imposed due to the testing having been planned to run in March, a particularly wet period. Although the testing was delayed until July, a dry period, the 15% addition was maintained. The pumping test was designed to prove a combined well yield of 92 gpm, with the best well out of service.

Two separate pumping tests were completed for this project. The first was a test of the primary well, Well 4, for 72 hours. The second was a combined test of Wells 3A, 5A and 2. This test confirmed that Well 4 could independently sustain a peak daily discharge of 60 gpm while the combined well system, without Well 4, could sustain a daily discharge of 92 gpm. Well 4 has sufficient yield to supply the project without the other wells.

Wetlands Monitoring

During the pumping test the on-site wetland, near Well 4, was monitored. A piezometer was

installed in the pond approximately 18 inches below the bottom of the pond, to refusal. A data logger was placed in the piezometer and in the open water of the pond adjacent to the piezometer. Both loggers were programmed to record water levels hourly. Due to the small changes expected in the pond levels during the test period, high sensitivity pressure transducers with barometric compensation were used for these points.

6.0 WATER QUALITY

Water samples were collected at the conclusion of the Well 4 test and after the recovery period from Wells 5A, 3A and 2 since the laboratory would not accept samples after noon on Thursday. The wells were restarted and allowed to run for a minimum of two hours, at the pump test rates, before the samples were collected. The samples were transported (same day) in iced coolers to a New York State certified laboratory for analysis using the parameters specified by the WCDOH, which were consistent with NYSDOH Subpart 5.1 parameters for public water supplies.

The quality of the water sampled on the property meets the New York State Drinking Water Standards, with the exception of coliform bacteria. Coliform bacteria is commonly found in newly installed wells and can be introduced into wells during the drilling and pump testing process, by the introduction of material and equipment into the wells from the surface. Disinfectant treatment of wells typically removes the coliform. The laboratory analytical results are compared to NYSDOH drinking water standard and included with the laboratory analytical reports that are attached to this report in see Attachment D.

In addition, Microscopic Particulate Analysis (MPA) was performed on samples from three wells that are located within 150 feet of a wetland, Wells 3A, 4 and 5A. These samples contained no giardia or cryptosporidium organisms; however, the three samples contained diatom and algae particles. These particles may be an indication of connection to surface water or may be contamination of the sample during sampling. Biological particles could be filtered as part of a community water supply system. The need for filtration would be determined by the Westchester County Department of Health (WCDOH), as part of the water treatment plant permitting process. At the writing of this DEIS, a water treatment plant permit application has not yet been submitted to the WCDOH, and the Department has not yet reviewed the analytical results. In general, microfiltration is provided as part of the water treatment process, in addition to chlorination, at the on-site water treatment facility.

These results along with the data loggers monitoring the wetland points would, together, provide an indication that groundwater was being influenced by surface water and if there could potentially be any dewatering of wetlands. As discussed further below in Section 8.0, there was no indication of wetland influence or dewatering of the wetland in connection with the pump test.

Off-site Water Quality

Based upon communication with two Town consultants and the Supervisor, local groundwater has exhibited elevated levels of radiological compounds, gross alpha activity and uranium. Annual Drinking Water Quality Reports for the Sunset Ridge Water District and the Croton Falls

1. Communication with Leggette Brashears & Graham, and VRI, Water District Operator. Town of North Salem Annual Drinking Water Quality Reports for 2007 through 2009.

Water District indicate that water from both districts contained levels of radium, gross alpha and uranium above State water quality standards[1]. The 2009 report from the Sunset Ridge District indicates that radiological compounds are within drinking water standards. In the summer of 2010, two new wells were drilled and put on-line for the Croton Falls Water District, replacing those wells impacted by radiological compounds. According to Mr. Warren Lucas, Town Supervisor, the new wells meet all State water quality requirements[2].

The radiological compounds found in the current samples from the Highgate-Woodlands wells were within NYS Drinking Water Standards. The Highgate Woodlands wells are installed into a different geologic formation and material than the off-site community wells. The Highgate-Woodlands water supply wells are installed into the bedrock underlying the project site, while the Croton Falls district wells are sand and gravel wells and the Sunset Ridge district wells are installed in a different geologic formation than the Highgate-Woodlands wells. This difference in geology, is the most likely explanation regarding the elevated radiological levels in samples from the Sunset Ridge and Croton Falls wells and the more typical results in samples from the Highgate Woodlands wells. Section 4.210 Groundwater in the DSEIS provides a further discussion of radiological compounds in local wells.

7.0 WEATHER DURING TEST PERIOD

Please refer to the Danbury Climate Chart (Figure 3) for this discussion. The pumping test period was during the later part of July and early August. The weather was typical for that time of year, warm with occasional thunder showers. Rain events occurred on July 23rd [.83 inches], July 24th [.79 inches], July 25th [trace], July 27th [1.05 inches], July 30th [.35 inches], July 31st [.1 inches], August 2nd [.39 inches], and August 6th [.35 inches].

8.0 PUMPING TEST RESULTS

Test Well Results

The first pumping test started with the pumping of the production Well 4 which started at 02:45 PM on July 21, 2008 (see charts 1, 2 and 3 for test wells and chart 4 for combined monitoring well data in Attachment C). The pumping rate was started at 60 gpm and was maintained at that rate for the duration of the test. The drawdown during the test reached a maximum of 190 feet with a stabilization period of greater than 12 hours. Two fracture dewatering episodes were observed during this test as were observed during the test on this well completed in the 1980's. Well 4 was shutdown after 72 hours of pumping and allowed to recover over 4 days before the start of the main test.

Fracture dewatering is a phenomenon that occurs when small contributing fractures that are high in the well column are drained during the test. Once the fracture is drained its contribution to the well yield is minimized and the pumping level in the well drops to a lower level. Fracture dewatering is characterized by a partial "false" stabilization. This occurred twice during this test and can be seen as steps on the test chart. The final stabilization, unlike the earlier dewatering, is characterized by a complete slope change with the water level in the well no-longer dropping but stabilizing and rising slightly. Water level rise does not occur during fracture dewatering. The deep fracture systems have a much wider recharge area due to their depth and are a more reliable water source. Once the upper fractures were dewatered during the test, the water level drawdown did achieve full stabilization, indicating the recharge to the fractures was equal to the

2. Telephone communication with Town Supervisor, Mr. Warren Lucas, January 25, 2011.

amount of water being taken out of the well during the test.

The second pumping test was started on July 29 at 02:00 PM for Well 2, 02:15 for Well 5A and 02:30 for Well 3A. The pumping rates for the three wells were pre-set to 16 gpm for Wells 2 and 5A and 60 gpm for Well 3A, a total of 92 gpm. Those pumping rates were maintained, with minor adjustments through the test period to compensate for pump pressure changes, at those rates.

The drawdown charts for Wells 3A and 5A show similar fracture dewatering as was evident in the well 4 chart. The Well 3A drawdown shows a single dewatering step with an extended stabilization for the last two days of the test. The Well 5A test chart shows two dewatering steps with about 8 hours of stabilization before the end of the test. The drawdown for Well 5A was limited to about 100 feet while the drawdown for Well 3a was about 125 feet. The Well 2 test chart does not show any dewatering and the drawdown was limited to about 45 feet.

Table 5 below, summarizes the total depth, static water level, drawdown during testing periods, stabilization, and pumping rates of the on-site wells testing wells.

Table 5
Well Testing Summary

Well Number	Total Depth	Static Water Level	Test Dates	Total Drawdown	Stabilization Period	Stabilized Pumping Rate	Recovery 24 hours	Recovery/ 48 hours
2	685	37	7-29-08 to 8-1-08	48 ft	6 hrs	16 gpm	80%	100%
3A	884	25	7-28-08 to 8-1-08	125 ft	18 hrs	60 gpm	100%	100%
4	883	22	7-21-08 to 7-24-08	187 ft	18 hrs	60 gpm	100%	100%
5A	1,134	23	7-29-08 to 8-1-08	100 ft	12 hrs	16 gpm	80%	100%

Source: SSEC, 2010

Off-site Well Monitoring Results

Due to justifiable concerns the Town of North Salem requested that a concerted effort be made to monitor as many off-site private wells as possible. Several attempts were made to enlist homeowners to allow the monitoring of their wells during the pumping test. Following assistance from the Town, the final list of private wells that was monitored was developed and is presented in Table 3 (above) Attachment B, and on Figure 2.

Each private well was fitted with a digital data logger at least 48 hours prior to the start of the pumping test. In most cases the loggers were installed at least 6 days prior to the start of the pumping test. One well owner, Vasilevskey, with the Town's assistance, gave permission after the start of the pumping test and, therefore, was not monitored during the first pumping test on well 4.

The data loggers were each programmed to record a water level hourly for the duration of the monitoring period. The data has been presented on individual charts (Attachment C). Each chart has been set on the same timescale (they all start and end at the same time) and all have the pumping test periods indicated on the Date/Time scale in yellow. A review of the data shows that none of the monitored wells were affected by the Woodlands pumping test.

A slight water level fluctuation was observed in the Brook's well, located approximately 1,750 feet southwest of test Well 4. Upon close examination of the water level data, it does not appear that the fluctuation observed in the Brook's well was the result of the Well 4 pump test. The drawdown observed in the Brook's well appears to have occurred at the very beginning of the Well 4 test period and does not continue through the test period. If the Brook's well was influenced by the Well 4 test, one would expect a delayed start to the drawdown considering the distance of approximately. The drawdown would be expected to increase with time until the test period end at which time there would be an observed recovery. What is observed is a lower water level at the start of the test period with a gradual rise in water level [average] that continues without slope change to a point 24-hours beyond the end of the pumping period. Therefore, there appears to be no connection between the Brook's well and the test wells.

Distance-Drawdown analysis is an exercise in which the size of the pumping cone of influence is determined using observed drawdown in both the pumping well and in the monitoring wells and then projecting the observed drawdown beyond the monitoring wells. Distance-Drawdown methodology is typically used in unconsolidated aquifers. The test wells at the Highgate-Woodlands site are bedrock wells that do not meet the criteria for the common distance drawdown testing methods. The well influence in the Highgate-Woodlands wells is restricted to the bedrock fractures that supply the wells and the geometry of those fractures is not well understood, given the limited scope of this study [and similar pump test studies]. Since no drawdown was observed off-site, the distance drawdown for off-site wells cannot reasonably be determined.

Wetlands Monitoring Results

The wetlands and small pond near Well 4 had standing water before the start of the pumping test. A piezometer was installed in this wetland, approximately 18 inches into the sediment below the pond as well as within the standing water next to the piezometer. A high resolution data logger was installed in the piezometer and a second high resolution logger was placed in the pond adjacent to the piezometer. The wetland near Well 3 was dry before the start of the test and was not monitored.

The water level data showed no influence from the pumping test. There were several water level fluctuations during the monitoring period. These were apparently caused by rain showers which are indicated on the data charts (Attachment C). The water level rise in response to the rain showers is delayed because of the time required for the rain that fell onto the ponds drainage basin to reach the pond.

Potential Impacts of Subsurface Wastewater Disposal System

As described in the DSEIS, the proposed Highgate Woodlands project will include a community wastewater treatment plant that will discharge treated effluent to a subsurface wastewater disposal system. The system is designed to meet WCDOH and NYCDEP standards for wastewater discharge. In general, subsurface wastewater disposal systems have the potential

to affect nearby water supply wells, both on-site and off-site. Well and septic system design standards have been developed to reduce the potential for wastewater impacts.

Production Well 2 is located closest to the subsurface wastewater disposal system and is approximately 260 feet upgradient from disposal system. The closest off-site well (Vasilevskey) is located approximately 250 feet downgradient from a reserve portion of the subsurface disposal system. Construction details for the Vasilevskey well were not available.

The applicant has completed a limited analysis of the potential impacts of nitrate on both on-site wells and nearby off-site wells. The analysis was completed by Leggette, Brashears & Graham, Inc. and is provided in the supplemental report dated January 19, 2011 (see Appendix 14). Based upon treatment system information, the average total nitrogen concentration for treated effluent entering the ground in the winter months (worst case) will be 2.2 mg/L. This concentration is less than the NYSDOH drinking water standard of 10 mg/L. The dilution analysis indicates that the nitrate-nitrogen concentration leaving the property would be approximately 1.3 mg/L.

Although the potential impact of the subsurface disposal system is quite low, the applicant has agreed to provide mitigation for the Vasilevskey property, which is the only private well downgradient/ cross gradient from the on-site subsurface wastewater disposal area. The DSEIS further describes the proposed mitigation. The applicant has agreed to provide for the monitoring of the Vasilevskey well. If the Vasilevskey well is impacted by the project, the applicant will either install a new deeper well, or connect the home to the Highgate-Woodlands water supply, subject to the approval of the homeowner. The details of this proposed mitigation will be developed in consultation with the Town, as part of the project Findings Statement.

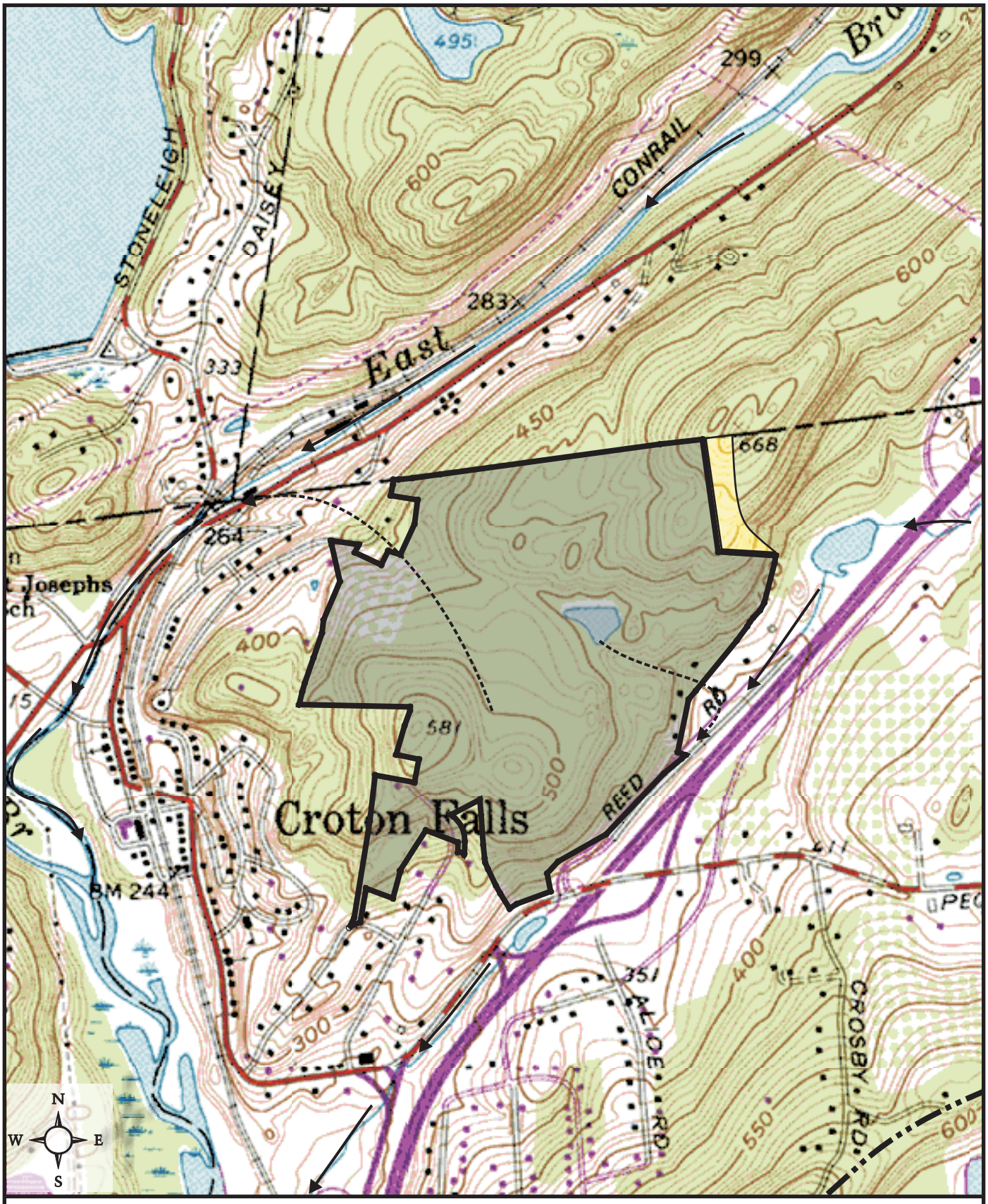
9.0 CONCLUSION

The production wells completed for the Woodlands site are suitable for use as a community well system. Use of these wells will not, based on observation of the wells used for monitoring during these tests, adversely impact off-site private wells. The following conclusions can be made:

1. The project requires that a total of 40 gpm be proven to meet the average daily demand (design flow). To meet the NYSDEC and NYSDOH requirements the project wells must meet twice the average daily demand (maximum-day based on site storage] or 80 gpm. The Town imposed an additional 30% requirement (based on 40 gpm) to “accommodate the fact that the test is occurring during a seasonally wet time of the year.” Although the test was delayed from March to July, the well test was completed at the 92 gpm pumping rate instead of the 80 gpm rate that would have been required.
2. The pumping test results show that Well 4 can produce 60 gpm, and that together Wells 2, 5a and 3a can provide 92 gpm, providing the necessary capacity redundancy required by NY State law for community water systems.
3. The use of the Woodlands wells is not expected to impact the long term use of off-site wells. None of the monitored wells showed any connection to the pumping test wells.
4. Drawdown projections for 90 and 180 day periods without recharge were analyzed, based upon the pumping test results (see Chart, attached). Rather than use the

stabilization period for the projection, the general slope of the drawdown curves, after the dewatering of the upper fractures, were used. The Well 2 projection shows a drawdown of 78 and 84 feet; Well 3a shows a projected drawdown of 145 and 148 feet; Well 5a shows a projected drawdown of 115 and 119 feet; and Well 4 shows a projected drawdown of 210 and 215 feet. All four wells appear to have more than sufficient available drawdown to meet the extended drawdown without recharge for three and six months without rain.

5. The applicant has completed a limited analysis of the potential impacts of nitrate on both on-site wells and nearby off-site wells. Based upon treatment system information, the average total nitrogen concentration for treated effluent entering the ground in the winter months (worst case) will be 2.2 mg/L. This concentration is less than the NYSDOH drinking water standard of 10 mg/L. The dilution analysis indicates that the nitrate-nitrogen concentration leaving the property would be approximately 1.3 mg/L. Although the potential impact of the subsurface disposal system is quite low, the applicant has agreed to provide mitigation for the Vasilevskey property, located downgradient/ cross gradient from the subsurface disposal system. The private well will be monitored, and if impacted by the project, the applicant will either install a new deeper well, or connect the home to the Highgate-Woodlands water supply, subject to the approval of the homeowner.



LEGEND

- Site Property Boundary
- Contributing Surface Water Drainage

Figure 1: Surface Water Drainage Map

Highgate-Woodlands at North Salem
Town of North Salem, Westchester County, NY
Base Map: USGS 7.5-minute Topographic Map,
Croton Falls Quad
Scale: 1" = 2,000'

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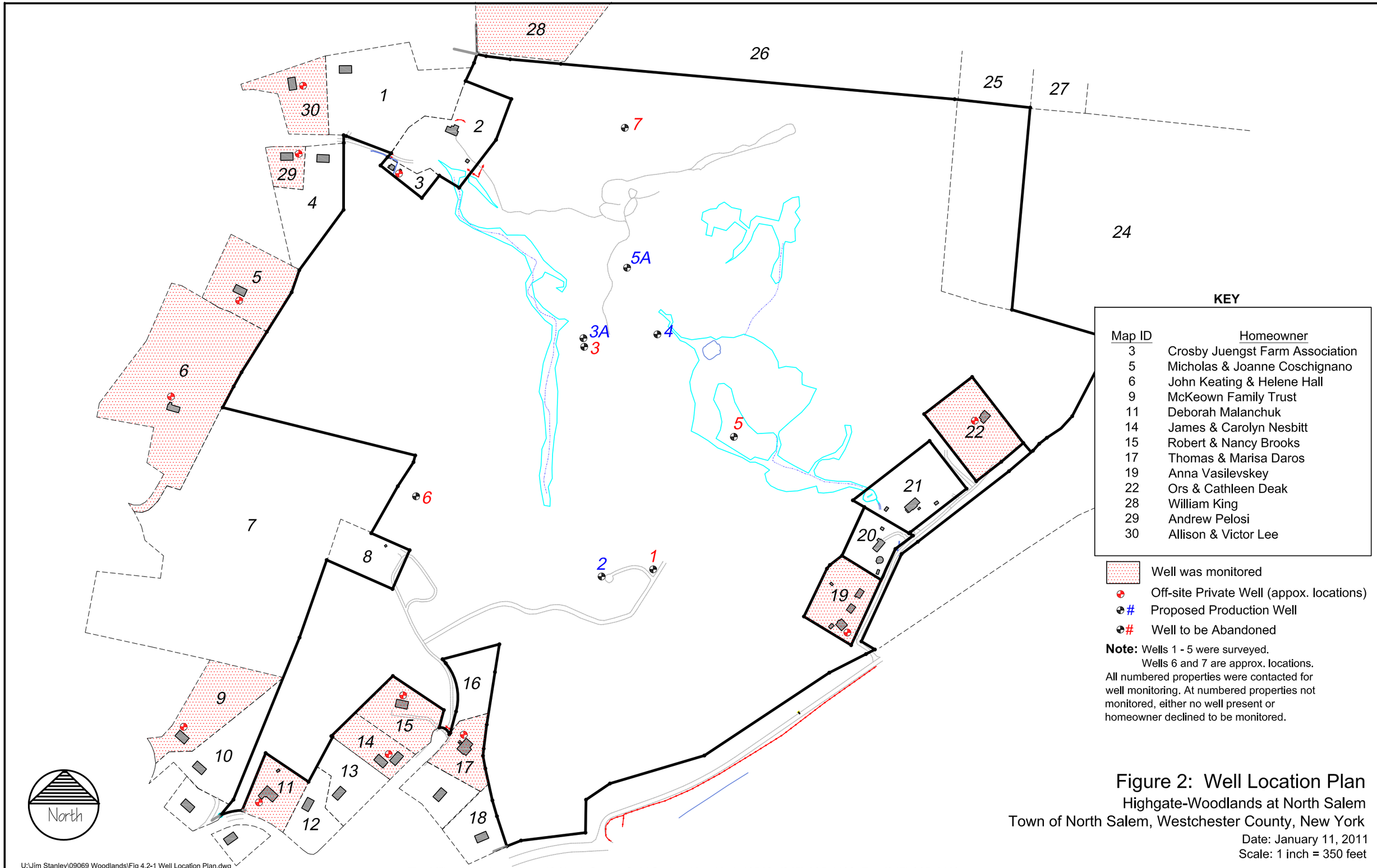


KEY

Map ID	Homeowner
3	Crosby Juengst Farm Association
5	Micholas & Joanne Coschignano
6	John Keating & Helene Hall
9	McKeown Family Trust
11	Deborah Malanchuk
14	James & Carolyn Nesbitt
15	Robert & Nancy Brooks
17	Thomas & Marisa Daros
19	Anna Vasilevskey
22	Ors & Cathleen Deak
28	William King
29	Andrew Pelosi
30	Allison & Victor Lee

Well was monitored

Off-site Private Well (appox. locations)

Proposed Production Well

Well to be Abandoned

Note: Wells 1 - 5 were surveyed.
Wells 6 and 7 are approx. locations.
All numbered properties were contacted for well monitoring. At numbered properties not monitored, either no well present or homeowner declined to be monitored.

Figure 2: Well Location Plan

Highgate-Woodlands at North Salem
Town of North Salem, Westchester County, New York
Date: January 11, 2011
Scale: 1 inch = 350 feet

U:\Jim Stanley\09069 Woodlands\Fig 4.2-1 Well Location Plan.dwg

Tim Miller Associates, Inc., 10 North Street, Cold Spring, New York 10516 (845) 265-4400 Fax (845) 265-4418

Attachment A

Well Logs

Ramada Inn 7-27-84
Croton Falls

Well 1

I
1005'
32'
30 gpm

Test Well

Well 2

II
685'
31'
30 gpm

7-30-84

Contracted by Sapperly Silverman

Well 3

Well 1

WELL OWNER Alvin Lukashok DATE COMPLETED 5-15 86
TELEPHONE #
WELL LOCATION Reed Rd. - Ramada Inn -
North Salem Croton Falls Sergio 201-845-0400

DEPTH 658
CASING 31
DRIVE SHOE ? ✓
SET-UP
OTHER
TEST 42
COMMENTS
Billed

FORMATION DESCRIPTION
0 - 18' Silt, sand & Clay Overbd
18' - 658' DK Green Amphibolite changing to Wh. to grey Gneiss, Seam w/ water @ 130'

DRILLER: Chuck
DIII

Bureau of Environmental Quality

WELL COMPLETION REPORT: WCDH File No.

This report is to be completed by well driller and submitted to Health Department, together with laboratory report of analysis of water sample indicating water is of satisfactory bacterial quality, before certificate of construction compliance is issued.

Well 3A

Well construction to be in accordance with Bulletin SD-62, "RULES AND REGULATIONS RELATING TO INDIVIDUAL WATER SUPPLIES"

Located at: WELL 3A, SUN VALLEY RD - WOODLANDS HIGHGATE Section: Block:

Well Location Municipality: CROTON - NORTH SALEM Lot:

Owner Last Name: LUKASHOK Owner First Name: ALVIN

St. #: 300 St. Name: EAST 14TH ST. Municipality: NEW YORK State: NY Zip Code: 10021

Well Driller (WD) Company Name: BOYD ARTESIAN WELL CO, INC.

Well Pit and Pump Equipment Details: Pitless Adapter: Other - Describe:

Pump Make: Pump Type: Pump Capacity: Pump GPM:

Storage Tank Type: Storage Tank Capacity:

Well Details:

Casing Length: 51 Ft. Yield Test Type: CONSTANT RATE Measured from Land Surface:

Casing Diameter 6 In. Yield Test Duration: 72 Hrs. Water Level, Static: 25' Ft.

Casing Material: STEEL Well Yield: 60 G.P.M. Water Level, Pumped: 150' Ft.

SIXTY — 60gpm with 125' DRAW DOWN

Screen Make: Screen Diameter: In.

Screen Length: Ft. Screen Slot Size: TOTAL WELL DEPTH: 884 Ft.

WELL LOG:

Depth From Ground Surface	Give description of formation penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, sandstone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard). For example: 0 ft. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.
0 Ft. to 2 Ft.	Well Geology, 1st Strata: ORGANIC SOIL
2 Ft. to 25 Ft.	Well Geology, 2nd Strata: BROWN CLAY TILL
25 Ft. to 884 Ft.	Well Geology, 3rd Strata: ROCK - 25-230 DARK GNEISS - 230-300 WHITE + RED/BLK
Ft. to Ft.	Well Geology, 4th Strata: 300-420 SOFT DARK GNEISS - 420-884 HARD/DARK GNEISS
Ft. to Ft.	Well Geology, 5th Strata: FRACTURES 244' - 25 gpm - 300' 15 gpm - 450 - 20 gpm

I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.

Date Well Was Completed: 6/13/08 Date of Signature: 8/27/08

Sworn to before me this 28 day of August 2008.

DONNA DAZI
Notary Public, State of New York
No. 01DA6130464
Qualified in Dutchess County
Term Expires August 6, 2009

Notary Public, Westchester County.

Well Driller Signature:

BOYD ARTESIAN WELL CO., INC.
1054 ROUTE 52
CARMEL, NY 10512
(845) 225-3196

Well 4

Well 2 ✓

WELL OWNER Alvin Lukashok DATE COMPLETED 5-19-86

TELEPHONE #

WELL LOCATION Reed Rd - Ramada Inn Site 2 Well 4
North Salem - Sergio 201-845-0400

DEPTH 883'

CASING 31

DRIVE SHOE ? -

SET-UP

OTHER

TEST 50 gpm

COMMENTS

Billed

FORMATION DESCRIPTION

0-20' Tan-Orange Silty sand, 20-883'
DK Mafic rock alternating to Lt. Granite Gneiss
35 G.P.M. @ 660'
50 GPM @ 733'
Picked up water @ 690'

VIII DRILLER: Chuck

Well 5

Well 5 Site 3

WELL OWNER Alvin Lukasholk DATE COMPLETED 5-22-86

TELEPHONE #

WELL LOCATION Reed Rd Ramada Inn
N. Salem - Sergio 201-845-0400

DEPTH 605

CASING 31

DRIVE SHOE ? ✓

SET-UP

OTHER

TEST 2gpm.

COMMENTS

FORMATION DESCRIPTION

0-10' Tan - Grey Sandy Overburden

10' - Wh. Granitic Gneiss

DRILLER Church

B Ward

Well 6

WELL OWNER Alvin Lukasholk DATE COMPLETED 7-23-86

TELEPHONE #

WELL LOCATION Reed Rd.
N - Salem

DEPTH 760

CASING 31

DRIVE SHOE ? ✓

SET-UP

OTHER

TEST 2gpm.

COMMENTS

FORMATION DESCRIPTION

0-19 hard pan, [redacted]

19 feet hit rock Grey and White

100ft Small Seam

350 Small Seam 6GS 1/4 p.m

760 2.6 p.m

DRILLER Charlee

Drilled

Drill

Bureau of Environmental Quality

WELL COMPLETION REPORT: WCDH File No. [-]

This report is to be completed by well driller and submitted to Health Department, together with laboratory report of analysis of water sample indicating water is of satisfactory bacterial quality, before certificate of construction compliance is issued.

Well 5A

Well construction to be in accordance with Bulletin SD-62, "RULES AND REGULATIONS RELATING TO INDIVIDUAL WATER SUPPLIES"

Located at: WELL 5A SUN VALLEY RD. - WOODLANDS PARK Section: Block:

Well Location Municipality: CROTON - NORTH SALEM Lot:

Owner Last Name: LUKASHOK Owner First Name: ALVIN

St #: 300 St. Name: EAST 14 ST. Municipality: NEW YORK State: NY Zip Code: 10921

Well Driller (WD) Company Name: BOYD ARTESIAN WELL CO., INC.

Well Pit and Pump Equipment Details: Pitless Adapter: [ ] Other - Describe:

Pump Make: Pump Type: Pump Capacity: [ ] Pump GPM: [ ]

Storage Tank Type: Storage Tank Capacity:

Well Details:

Casing Length: 51 Ft. Yield Test Type: CONSTANT Rate Measured from Land Surface:

Casing Diameter 6 In. Yield Test Duration: 72 Hrs. Water Level, Static: 23 Ft.

Casing Material: STEEL Well Yield: 16+ G.P.M. Water Level, Pumped: 123 Ft.
DRAW DOWN 100' @ 16 gpm

Screen Make: Screen Diameter: [ ] In.

Screen Length: [ ] Ft. Screen Slot Size: [ ] TOTAL WELL DEPTH: 1134 Ft

WELL LOG:

Depth From Ground Surface	Give description of formation penetrated, such as: peat, silt, sand, gravel, clay, hardpan, shale, sandstone, granite, etc. Include size of gravel (diameter) and sand (fine, medium, coarse), color of material, structure (loose, packed, cemented, soft, hard). For example: 0 ft. to 27 ft. fine, packed, yellow sand; 27 ft. to 134 ft. gray granite.
0 Ft. to 2 Ft.	Well Geology, 1st Strata: ORGANIC SOIL
2 Ft. to 22 Ft.	Well Geology, 2nd Strata: Reddish Clay + Gravel Till
22 Ft. to 1134 Ft.	Well Geology, 3rd Strata: ROCK -22-90-DARK GREY GNEISS 90-150 Red Rock
[ ] Ft. to [ ] Ft.	Well Geology, 4th Strata: 150-210 - GNEISS-DARK 180-210 white + Red Rock
[ ] Ft. to [ ] Ft.	Well Geology, 5th Strata: 210-900 DARK GNEISS -900-950-White Rock-950-1134 DARK GNEISS

I Certify that the individual water supply indicated above was installed as per the rules and regulations of Bulletin SD.62 of the Westchester County Department of Health.

Date Well Was Completed: 6/20/08 Date of Signature: 8/27/08

Sworn to before me this 28 day of August 2008.

DONNA DAZI
Notary Public, State of New York
No. 01DA6130464
Qualified in Dutchess County
Term Expires August 8, 2009

Notary Public - Westchester County.

Well Driller Signature:

BOYD ARTESIAN WELL CO., INC
1054 ROUTE 52
CARMEL, NY 10512
(845) 225-3196

Attachment B

Off-Site Monitoring Request Letter and Questionnaire

**TIM
MILLER
ASSOCIATES, INC.**

---

10 North Street, Cold Spring, NY 10516 (845) 265-4400 265-4418 fax www.timmillerassociates.com

January 18, 2008

Property Owner
North Salem, New York

RE: **The Woodlands at North Salem Property**
Well Testing

Dear Property Owner:

The applicant for the proposed development known as the Woodlands at North Salem has engaged our firm to evaluate the groundwater supply system for the project and to evaluate any potential off-site well impacts. The results of this study will be provided to the Town as part of the environmental review process. We seek your cooperation in enabling us to conduct the ground water testing program.

Water for the Woodlands project will be supplied from groundwater wells on the project site. The applicant is required to test existing wells as part of securing Health Department approvals. As an initial step in this process, we are sending questionnaires to homes in the vicinity of the project to collect basic information on existing wells, including water quantity and quality. We encourage you to fill out as much information as possible on the form and submit it to us in the enclosed pre-stamped envelope within ten (10) days of the receipt of this letter.

The second part of the groundwater program involves the pump testing of the wells installed on the property while simultaneously monitoring water levels in a select number of private wells in the project vicinity. To that end, we request that you indicate on the attached letter whether you would be willing to allow your well to be monitored, while we pump the project's wells. Consent does not mean that your well will be monitored; but we need to secure consent before finalizing the testing program.

If your well is selected to be monitored, the process will not exceed a period of two weeks. The monitoring procedure will require the insertion of an electronic water level monitoring probe that is disinfected prior to entry into your well to measure the water level in your well.

A professional experienced in this work will visit the well to install and then periodically monitor the probe, typically each day during the testing period. Collection of the water level information typically takes about 15 minutes per visit. We will endeavor not to disturb you during the monitoring visits, which will take place outside of your house. After the conclusion of the testing, the technician will remove the probe and properly close your well.

Well monitoring should have no detrimental effects - it assesses water levels in your well before, during and after the on-site wells are pump tested. Although no effects are

anticipated, the applicant will be responsible for any damage to your well as a result of the monitoring program, but will not be responsible for any pre-existing conditions.

Occasionally, especially in older wells or wells with high iron and/or manganese, insertion of a test probe will cause the well water to become temporarily cloudy. This is due to the agitation of fine particles that have settled in the well over time. This condition typically clears within 24 hours and is not a health concern.

By consenting to allow us to monitor your well, you will help protect existing water supplies during the construction and long-term occupancy of the proposed project. The monitoring data from your well will be made available to you, at no charge, and may prove useful to you in ascertaining existing conditions of your well.

The sponsor of the project has made a significant effort to select sites for the wells on this property so that there would be no adverse impact on your wells. Monitoring provides us with vital information that will allow us to confirm that we have indeed selected well locations that will not affect your well. We want to be sure that we safeguard the proper performance of your wells by choosing the right monitoring locations for our proposed pump test. To accomplish this, we need your help to gather the necessary data through this monitoring process.

By checking the first line below and signing this letter, you hereby agree to permit TMA and its agents to enter upon your property, with prior notice, for the purpose of monitoring your well. If you do not want your well monitored, please check the second line.

Please sign and print your name, address, telephone number, and email address on the next page. Please mail this page, along with the completed questionnaire in the enclosed envelope by **February 1, 2008**. If you have any questions about this process please feel free to call me at (845) 265-4400. Thank you for your cooperation in this matter.

Sincerely,

Jon P. Dahlgren
Vice President/ Senior Geologist
TIM MILLER ASSOCIATES, INC.

Please check one:

_____***I agree to permit my well to be monitored as described above.***

_____I do not agree to allow my well to be monitored.

Signature _____

Print Name _____ *Date* _____

Address _____*Zip* _____

Eve. Telephone _____ *Day Telephone* _____

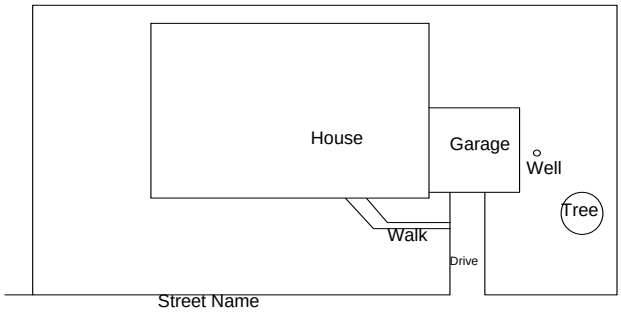
Email _____

Woodlands at North Salem Homeowner Well Monitoring Questionnaire

This questionnaire is being sent to homeowners within the vicinity of the proposed property development known as the Woodlands at North Salem on Reed Road in the Town of North Salem, NY, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name _____

Address _____

Telephone Number (indicate whether day or evening number) _____

What year was your well installed?

What is the total depth of your well?

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well?

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well?

How far is your well from your or your neighbor's septic leaching field?

Does your well ever run dry?

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Additional Comments:

Highgate-Woodlands Pump Test
Monitoring Property List

Map Number	Recipient Address	Property Address	Response	Monitored/Not Monitored
1	**1.-1732-4** Jason Kriskey & Jennifer Prittie PO Box 955 Croton Falls,NY 10519	3 Juengst Road North Salem, New York	**No Response**	Not Monitored
2	**2.-1734-80** Joseph Bryson PO Box 594 Croton Falls, NY 10519	1 Juengst Road North Salem, NY	**No Response**	Not Monitored
3	**2.-1734-48** Crosby Juengst Farm Assoc PO Box 908 Croton Falls, NY 10519	Juengstville Road 311 Res Vac Land North Salem, NY	**YES, per letter (2nd letter).**	**MONITORED**
4	**1.-1733-22** Steven & Angela Garcia PO Box 386 Croton Falls,NY 10519	2 Juengst Road North Salem, New York	**NO, via email from C. Curtis on 3/10/08**	Does not have own well, on community supply from Crosby Juengst Farm Assoc.
5	**1.-1733-30** Nicholas A. & M. Joanne Coschignano PO Box 47 Croton Falls,NY 10519	20 Juengst Road North Salem, New York	**YES (via letter)**	**MONITORED**
6	**1.-1733-13** John Keating & Helene Hall PO Box 481 Croton Falls,NY 10519	8 Close Hill Road North Salem, New York	**YES (via letter)**	**MONITORED**
7	**1.-1733-14** Kenneth J. & Virginia F. Ryan PO Box 716 Croton Falls,NY 10519	14 Juengst Road North Salem, New York	**NOT Interested, via phone conversation 12/19/07 and second letter.**	**No, not interested.**
8	**1.-1734-68** Croton Falls Fire District PO Box 5 Croton Falls, NY 10519	40 Sun Valley Dr. North Salem ,NY	**NO**	No well located on the Property per conversation with Drew Outhouse on 2/21.
9	**1.-1734-78** McKeown Family Trust Trustee: Charles S. McKeown PO Box 448 Croton Falls, NY 10519	10 Harvey Road North Salem, NY	**YES, Phone 1/9/08 with JD, Letter Back 05/05/08.**	**MONITORED**
10	**1.-1734-77** Tim J. & Sulekha Dutta 12 Harvey Road PO Box 243 Croton Falls, NY 10516	12 Harvey Road North Salem, NY	**No Response**	Not Monitored
11	**1.-1734-44** Deborah Malanchuk PO Box 18 Croton Falls,NY 10519	18 Sun Valley Heights Road North Salem , NY	**YES (via phone 12/26/07. Received letter back.)**	**MONITORED**
12	**1.-1734-82** Thomas & Veronica E. Howley 14 Sun Valley Drive North Salem, NY 10560	Same	**No Response**	Not Monitored
13	**1.-1734-29** John M. & Jennifer W. Ryan 16 Sun Valley Drive North Salem, NY 10560	Same	**No Response**	Not Monitored

Highgate-Woodlands Pump Test
Monitoring Property List

Map Number	Recipient Address	Property Address	Response	Monitored/Not Monitored
14	**1.-1734-59** James & Carolyn Nesbitt 18 Sun Valley Drive North Salem, NY 10560	Same	**YES, per letter (1st and 2nd letter).**	**MONITORED**
15	**1.-1734-67** Robert A. & Nancy Brooks 20 Sun Valley Drive North Salem, NY 10560	Same	**YES (letter sent back, and 2nd letter back)**	**MONITORED**
16	**1.-1734-74** Harold & Lorraine Daros PO Box 573 Croton Falls, NY 10519	21 Sun Valley Drive North Salem, NY	**NO WELL ONSITE VACANT LAND**	No, NO WELL ONSITE vacant land
17	**1.-1734-64** Thomas E. & Marisa L. Daros 19 Sun Valley Drive North Salem, NY 10560	Same	**YES (via letter) BEWARE OF DOG, Call before going onsite.**	**MONITORED**
18	**1.-1734-76** John & Elaine Vaz 8 Hardscrabble Road North Salem, NY 10560	Same	**NO (letter sent back)**	No, letter stated they were not interested.
19	**2.-1734-18** Anna Vasilevskey PO Box 221 Croton Falls, NY 10519	26 Reed Road North Salem, NY	**Agreed to monitoring during site visit with her.**	**MONITORED**
20	**2.-1734-46** Charles & Eleanor Huber PO Box 953 Croton Falls, NY 10519	28 Reed Road North Salem, NY	**NO, Via 2nd letter.**	No, letter stated they were not interested.
21	**2.-1734-41** James & Rebecca DeSalvo PO Box 392 Croton Falls, NY 10519	30 Reed Road North Salem, NY	**YES, via 2nd letter.**	Well was not located. Will not monitor, but met with homeowner.
22	**2.-1734-45** Ors & Cathleen A. Deak PO Box 99 Croton Falls, NY 10519	32 Reed Road North Salem, NY	**YES, via phone conversation on 2/20.**	**MONITORED**
23	**1.-1734-16**		**Could not find address for parcel.**	
24	**2.-1734-17** Interstate 684 Associates Gedney Station PO Box 28 White Plains, NY 10605	1 Reed Road North Salem, NY	**No Response**	Not Monitored
25	**78.-1-90** Steven R. & Linda Vabero 324 Guinea Road Brewster, New York 10509	Same	**NO, via phone conversation.**	No, via phone conversation on 2/21.
26	**78.-1-1** Interstate 684 Associates Gedney Station PO Box 28 White Plains, New York 10605	321 Guinea Road Brewster, New York 10509	**No Response**	Not Monitored

Highgate-Woodlands Pump Test
Monitoring Property List

Map Number	Recipient Address	Property Address	Response	Monitored/Not Monitored
27	**78.-1-89**		**NO (letter sent back, 2nd letter sent back too)**	No, letter stated they were not interested.
	Antor Realty LLC.,	310 Guinea Road		
	Pastore Ronald Manager	Brewster, New York 10509		
	621 Halyard Lane			
	Longboat Key, Florida 34228			
28	**78.-1-42**		**YES, via 2nd letter.**	**MONITORED**
	William King	150 Route 22		
	51 Spruce Mt. Road	*Brewster, New York 10509*		
	Danbury, Connecticut 06810			
29		4 Juengst Road	**YES, via 2nd letter.**	**MONITORED**
	Andrew Pelosi	Croton Falls, New York 10519		
	PO Box 726			
	Croton Falls, New York 10519			
30			**YES, via faxed letter.**	**MONITORED**
	Allison and Victor Lee	Same		
	3 Burgess Street			
	PO Box 667			
	North Salem, NY 10560			

#3

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature CROSBY JUENGST FARM *

Print Name _____ *Date* _____

Address _____ *Zip* _____

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

*COMMUNITY WELL THAT SERVES 14 HOMES

CONTACT

DAVE SWEENEY (system operator)

A KEY TO WELL HOUSE WILL BE LEFT WITH CYNTHIA CURTIS OF THE PLANNING BOARD

/home office

#5

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Nicholas Coschignano

Print Name Nicholas Coschignano *Date* 12/19

Address 20 Juengst Rd *Zip* 10519

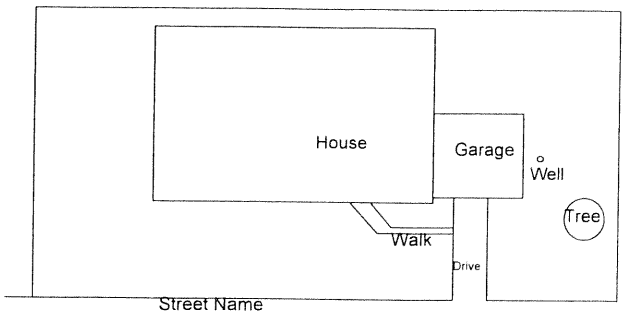
Eve. Telephone _____ *Day Telephone* _____

Email _____

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

This questionnaire is being sent to homeowners within the vicinity of the proposed property development known as the Woodlands at North Salem on Reed Road in the Town of North Salem, NY, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.



Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.

Name Nick Coschignano

Address 20 Tuengs Rd

Telephone Number (indicate whether day or evening number)

What year was your well installed? 1957

What is the total depth of your well? 175'

What is the approximate depth to the water table, if known? 20'

Does your well tap the bedrock or sand and gravel aquifer? NA

How much casing was used during the installation of your well? NA

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known? NA

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? 8GPM

How far is your well from your or your neighbor's septic leaching field? 350 FT

Does your well ever run dry? NO

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems? NO

Bacterial

Sulfur

Iron

Hardness

Cloudiness

Taste

Chemical

#6

Please check one:

X ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature John Keating

Print Name JOHN KEATING *Date* 12/19/07

Address 8 CLOSE HILL RD. *Zip* 10519
CROTON FALLS N.Y.

Eve. Telephone *Day Telephone*

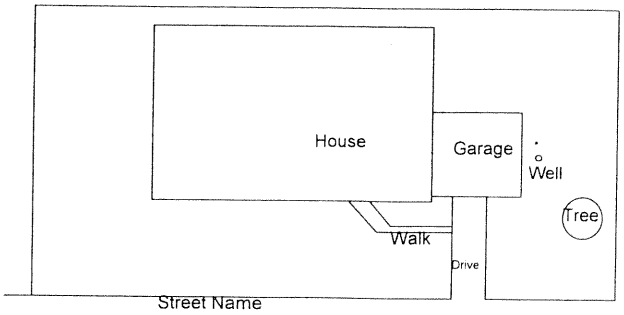
Email

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

This questionnaire is being sent to homeowners within the vicinity of the proposed property development known as the Woodlands at North Salem on Reed Road in the Town of North Salem, NY, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name JOHN KEATING

Address 8 CLOSE HILL RD CROTON FALLS N.Y. 10519

Telephone Number (indicate whether day or evening number)

What year was your well installed? 1987

What is the total depth of your well? 600 + FT

What is the approximate depth to the water table, if known? 50' - 80'

Does your well tap the bedrock or sand and gravel aquifer? BEDROCK

How much casing was used during the installation of your well? 100'

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known? NA

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? 20 - 30 GPM

How far is your well from your or your neighbor's septic leaching field? 1,000 +

Does your well ever run dry?

During high usage times NO

During dry weather periods NO

Because of mechanical/electrical problems NO

Does your well have water quality problems?

Bacterial

Sulfur

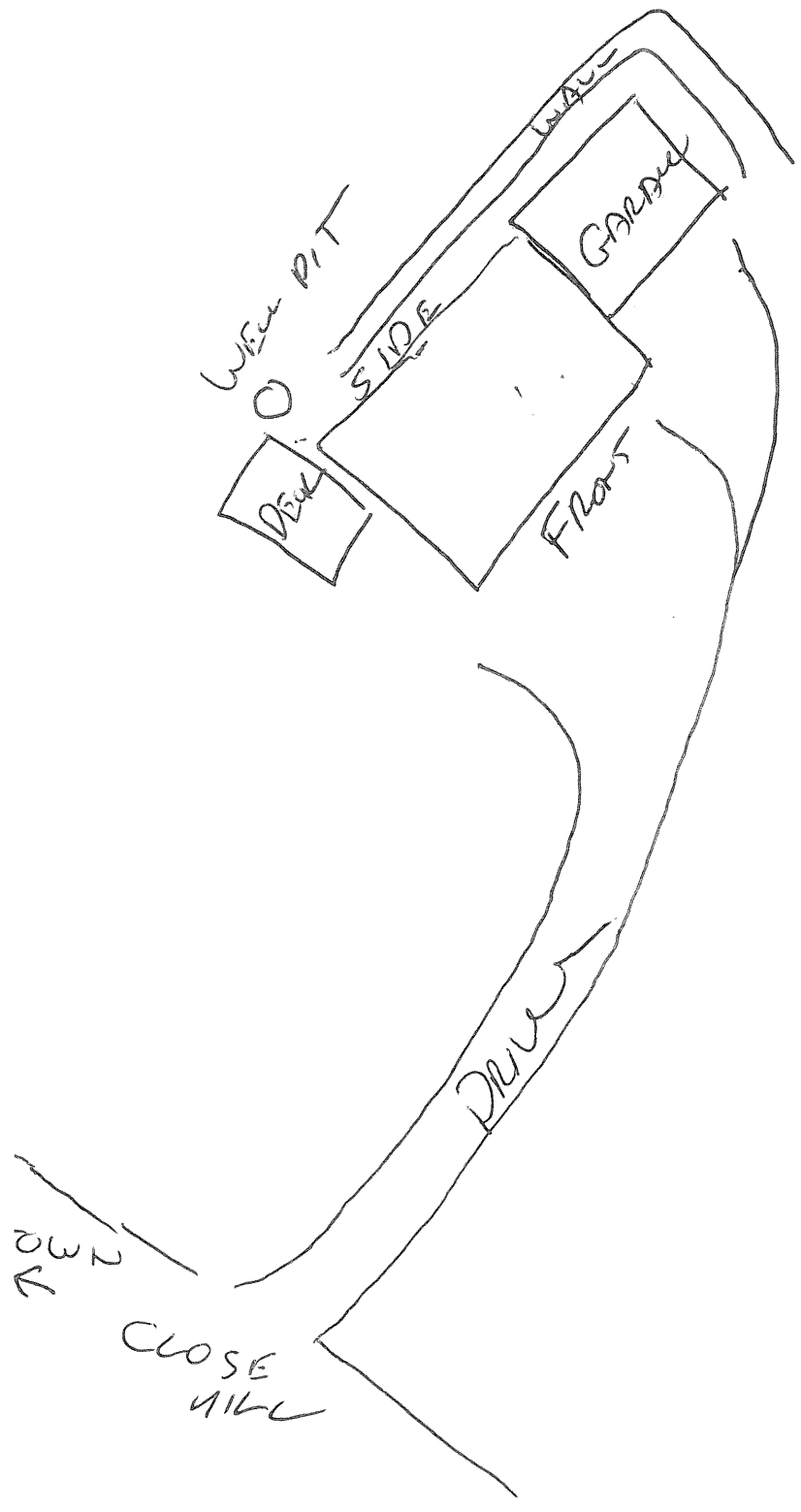
Iron NO SLIGHT

Hardness

Cloudiness TRACE - URANIUM - TESTED BY STATE - SAFE OK BY STATE

Taste

Chemical


WELL PIT
SLOPE
GARAGE
DECK
FLOWS
DRIVE
CLOSE
HILL

#9

Please check one:

____***I agree to permit my well to be monitored as described above.***

_____**I do not agree to allow my well to be monitored.**

Signature CHARLES McKEOWN

Print Name Charles McKeown *Date* 5/3/08

Address 10 HARLEY RD, PO BOX 448 *Zip* 10519-0448

Eve. Telephone __ *Day Telephone*

Email

Please send information to:

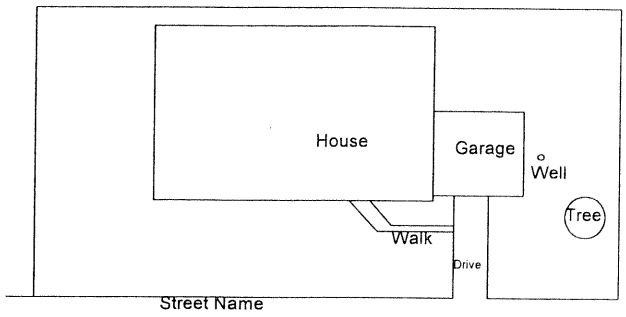
Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

This questionnaire is being sent to homeowners within the vicinity of the proposed property development known as the Woodlands at North Salem on Reed Road in the Town of North Salem, NY, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.

Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.



Name CHARLES McKEOWN

Address 10 HARLEY RD

Telephone Number (indicate whether day or evening number).

What year was your well installed? 1972

What is the total depth of your well? ~~205 feet~~ 205 feet

What is the approximate depth to the water table, if known? 26 feet

Does your well tap the bedrock or sand and gravel aquifer? BEDROCK

How much casing was used during the installation of your well? 22 feet

Is the top of your well above ground, in a well pit, buried, or other? above ground

What is the approximate depth to water-bearing fractures, if known?

Does your well have a submersible pump, a jet pump or a centrifugal pump? submersible

What is the approximate yield of your well? 7 gallons per minute

How far is your well from your or your neighbor's septic leaching field? 100 yards

Does your well ever run dry? NO

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems? NO

Bacterial

Sulfur

Iron

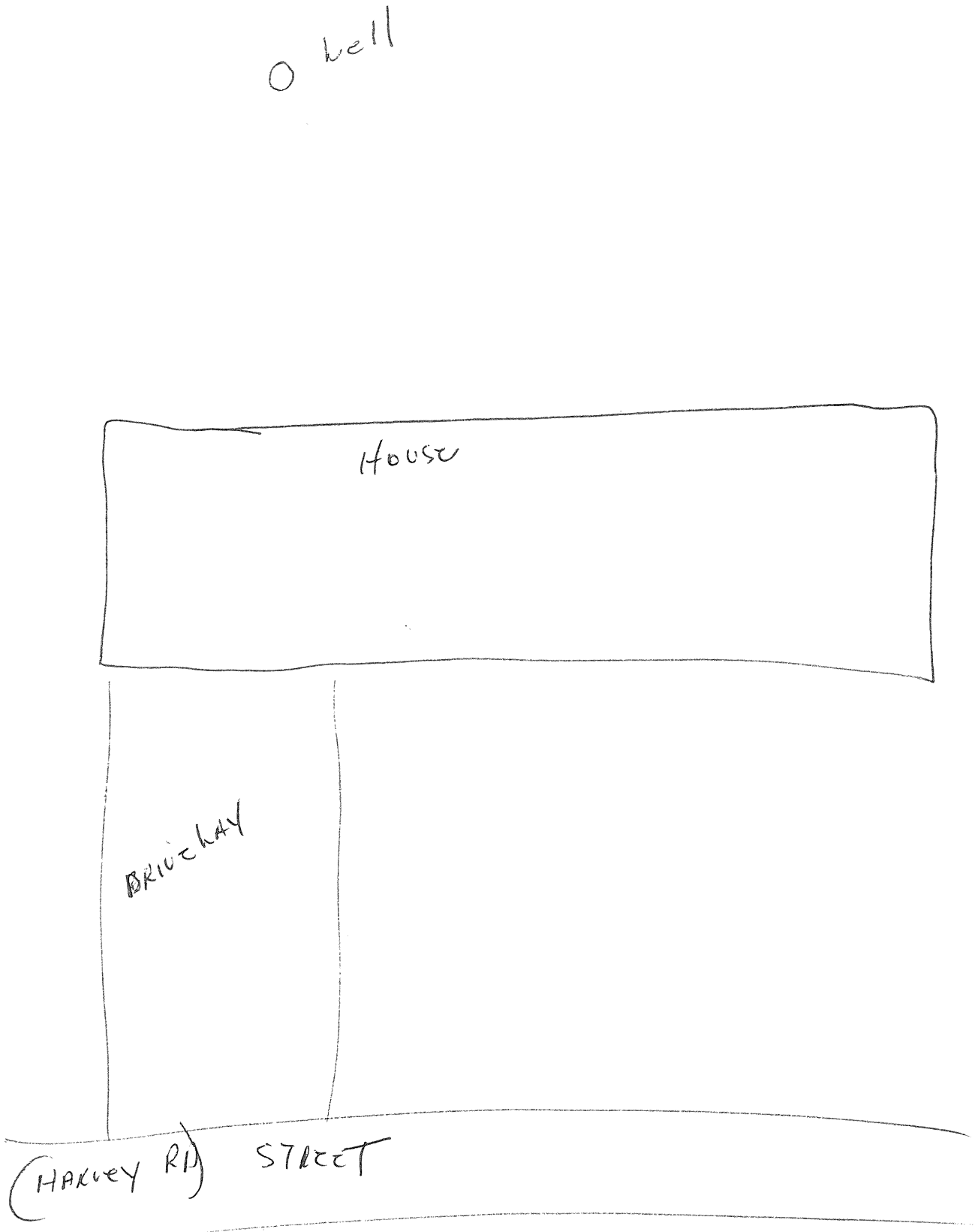
Hardness

Cloudiness

Taste

Chemical

Additional Comments:



#11

Please check one:

X ***I agree to permit my well to be monitored as described above.***

_____**I do not agree to allow my well to be monitored.**

Signature Deboran Malanchuk

Print Name Deboran Malanchuk *Date* 1/14/08

Address 18 Sun Valley Hgts Rd Croton Falls *Zip* 10519

Eve. Telephone *Day Telephone*

Email

Woodlands at North Salem — Homeowner Well Monitoring Questionnaire

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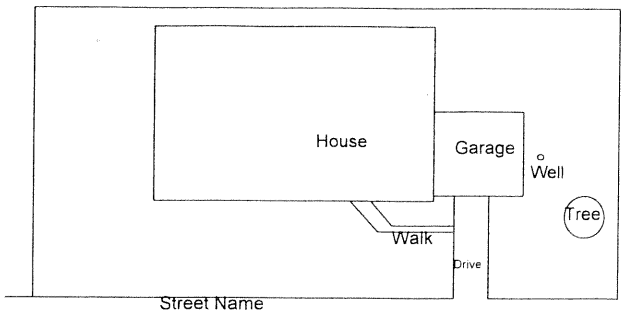


Name Deborah Malanchuk

Address 18 Sun Valley Heights Rd. Croton Falls, NY 10519

Telephone Number (indicate whether day or evening number) _____

What year was your well installed? 1956

What is the total depth of your well? 110 ft

What is the approximate depth to the water table, if known? 18 ft

Does your well tap the bedrock or sand and gravel aquifer? Bed Rock

How much casing was used during the installation of your well? 30' 6" pipe

Is the top of your well above ground, in a well pit, buried, or other? above ground

What is the approximate depth to water-bearing fractures, if known? 96'

Does your well have a submersible pump, a jet pump or a centrifugal pump? Submersible

What is the approximate yield of your well? 7 1/2 gal. / minute

How far is your well from your or your neighbor's septic leaching field? over 200 Ft

Does your well ever run dry? NO

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems? Not Known

Bacterial

Sulfur

Iron

Hardness

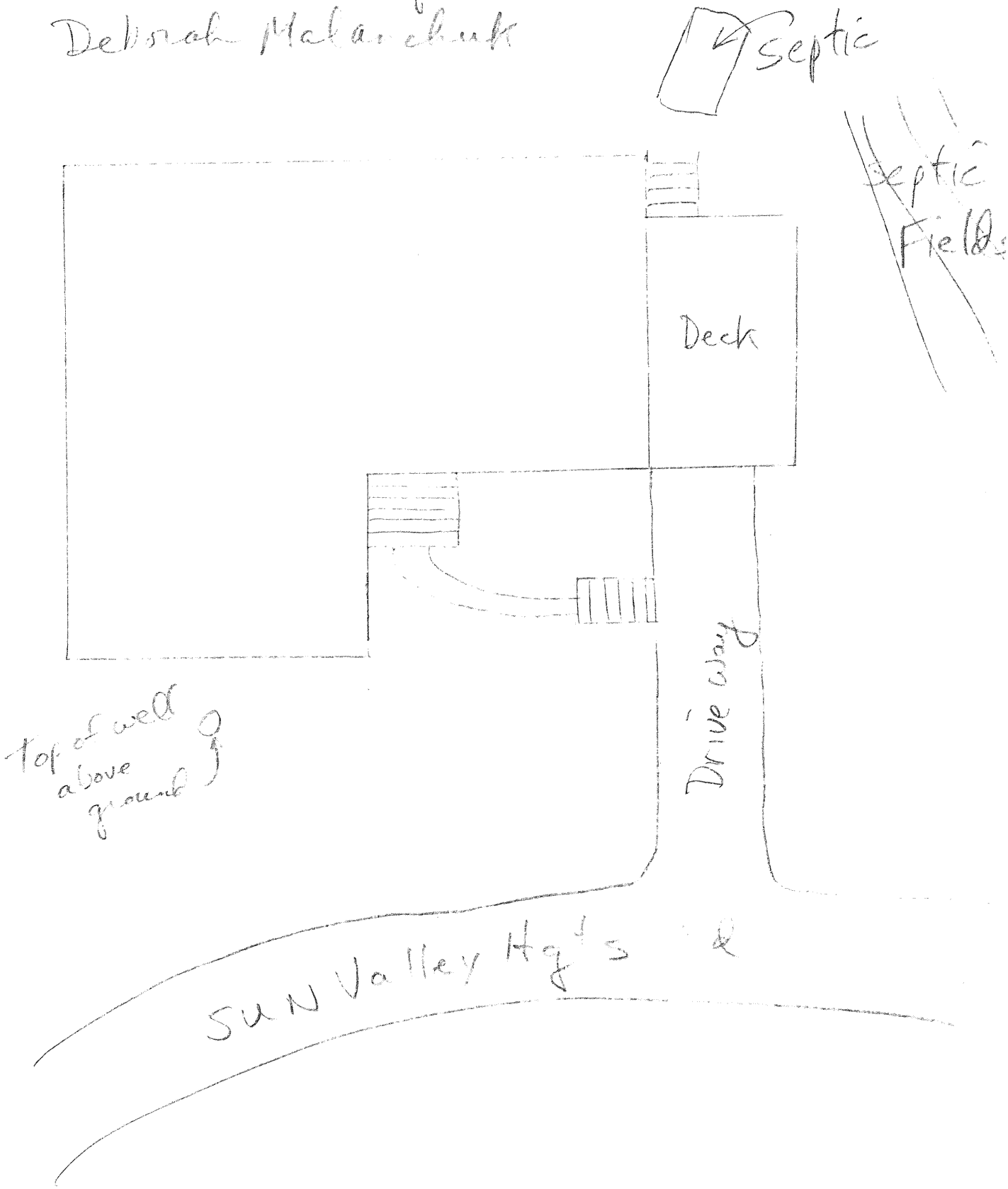
Cloudiness

Taste

Chemical

18 Sun Valley Hgts PB

Deborah Malanchuk



#14

Please check one:

X ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature James Nesbitt

Print Name James Nesbitt *Date* _____

Address 18 Sun Valley Drive N Salem *Zip* 10560

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

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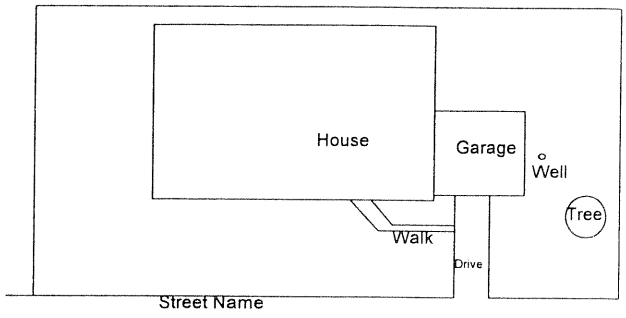


Name James + Carolyn Nesbitt

Address 18 Sunvalley Drive North Salem NY 10560

Telephone Number (indicate whether day or evening number)

What year was your well installed? 1959

What is the total depth of your well? 250'

What is the approximate depth to the water table, if known? ?

Does your well tap the bedrock or sand and gravel aquifer? ?

How much casing was used during the installation of your well? I think all the way down extended in 1996

Is the top of your well above ground, in a well pit, buried, or other? Aboveground

What is the approximate depth to water-bearing fractures, if known? ?

Does your well have a submersible pump, a jet pump or a centrifugal pump? Submersible

What is the approximate yield of your well? ?

How far is your well from your or your neighbor's septic leaching field? FAR 100'DS + 150'DS

Does your well ever run dry? NO

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems?

Bacterial

Sulfur

(Iron)

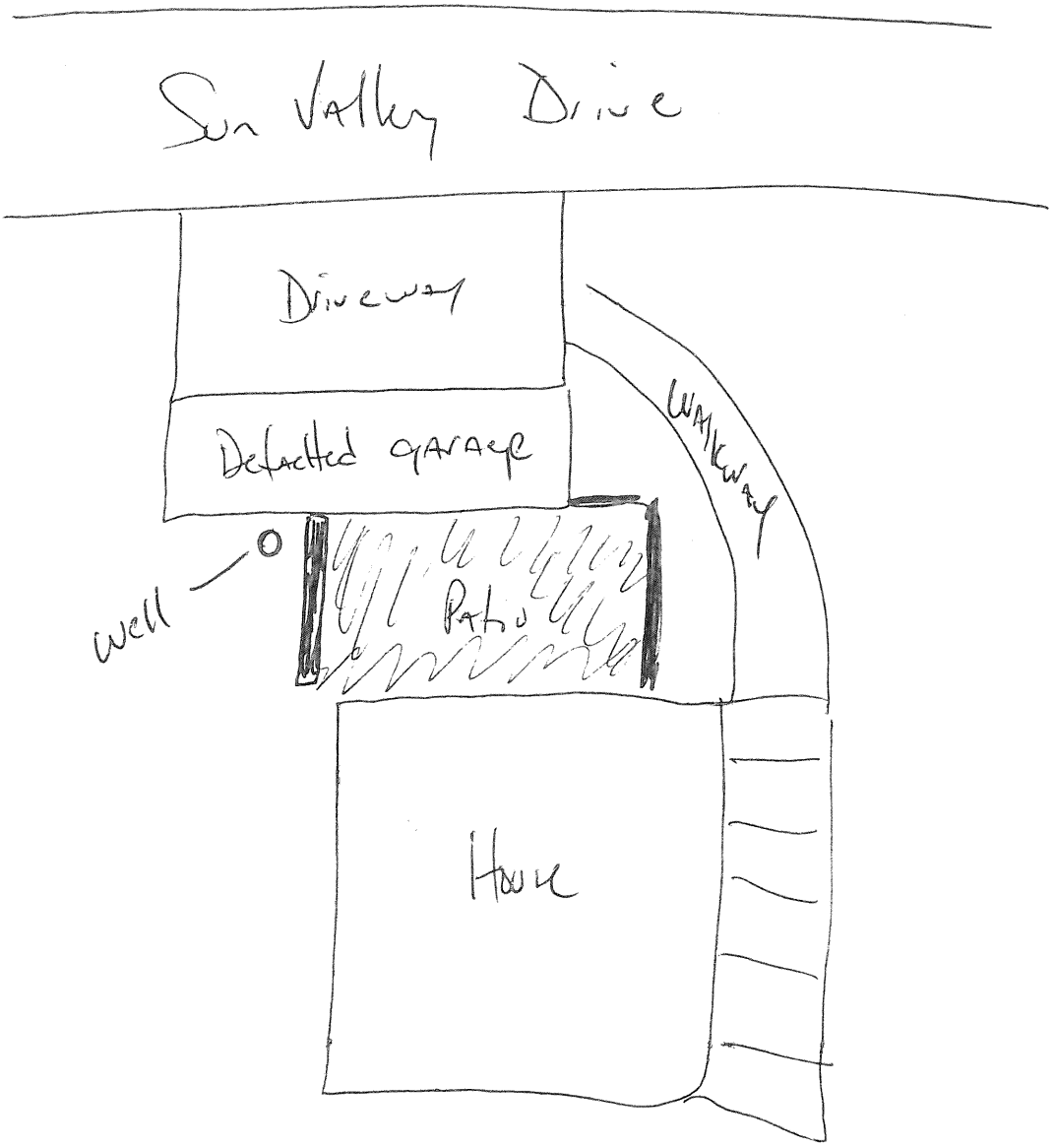
(Hardness)

Cloudiness

Taste

Chemical

Additional Comments:



#14

Please check one:

_____***I agree to permit my well to be monitored as described above.***

_____**I do not agree to allow my well to be monitored.**

Signature James Nesbitt

Print Name James Nesbitt *Date* _____

Address 18 Sun Valley Drive N. Salem NY *Zip* 10560

Eve. Telephone *Day Telephone*

Email

12/20/07

Due to the timing of your request, I need more time to review. Any information you can email me about your project aswell as well testing you have done so far, would be helpful.

I will contact you after the holidays

Jim Nesbitt

#15

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Nancy Brooks

Print Name Nancy Brooks *Date* 3/3/08

Address 20 Sun Valley Dr *Zip* 10562

Eve. Telephone *ay Telephone* same

Email

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem — Homeowner Well Monitoring Questionnaire

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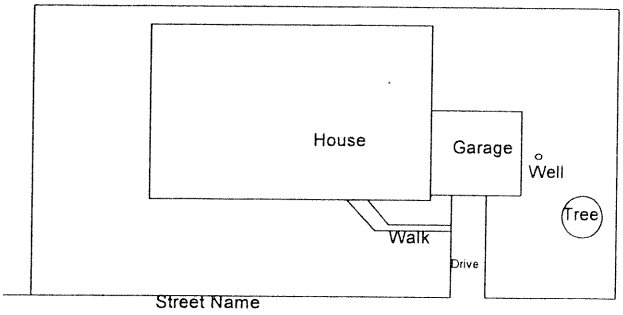


Name Brooks

Address 20 Sun Valley Dr N. Salem NY

Telephone Number (indicate whether day or evening number)

What year was your well installed? ?

What is the total depth of your well? ?

What is the approximate depth to the water table, if known? ?

Does your well tap the bedrock or sand and gravel aquifer? ?

How much casing was used during the installation of your well? ?

Is the top of your well above ground, in a well pit, buried, or other? ?

What is the approximate depth to water-bearing fractures, if known? ?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? ?

How far is your well from your or your neighbor's septic leaching field? ?

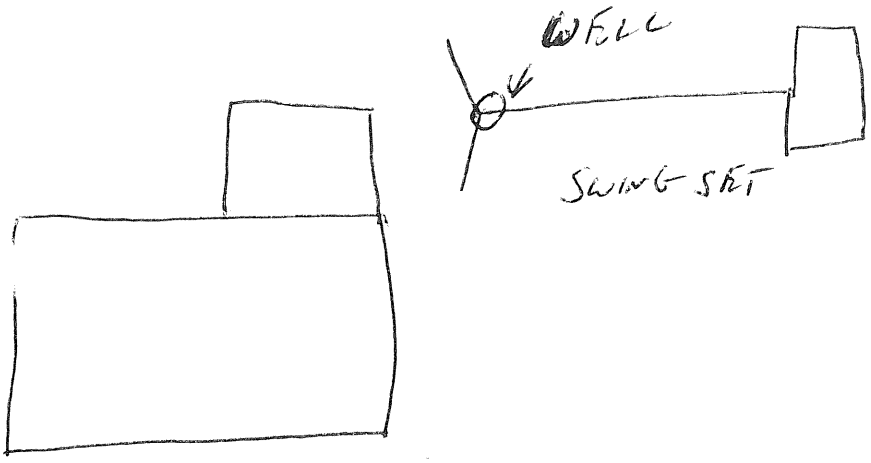
Does your well ever run dry?

- During high usage times ✓
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems? ?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Additional Comments:



#15

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Nancy Brooks

Print Name Nancy Brooks *Date* 12/21/07

Address 20 Sun Valley Dr N Salem NY *Zip* 10560

Eve. Telephone *Day Telephone* _____

Email [redacted]

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

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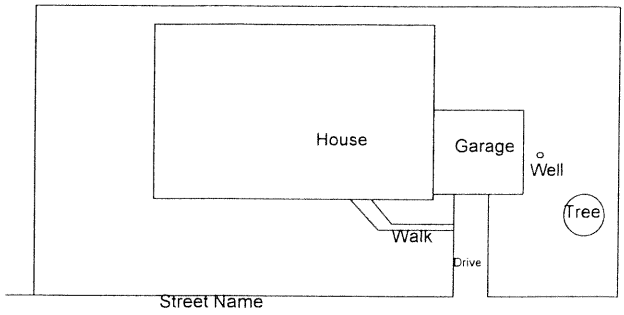


Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.

Name Nancy Brooks

Address 20 Sun Valley Dr N. Salem NY 10560

Telephone Number (indicate whether day or evening number) -

What year was your well installed? ?

What is the total depth of your well? ?

What is the approximate depth to the water table, if known? ?

Does your well tap the bedrock or sand and gravel aquifer? ?

How much casing was used during the installation of your well? ?

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known? ?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? ?

How far is your well from your or your neighbor's septic leaching field?

Does your well ever run dry? NO

During high usage times NO

During dry weather periods NO

Because of mechanical/electrical problems NO

Does your well have water quality problems? NO

Bacterial NO

Sulfur NO

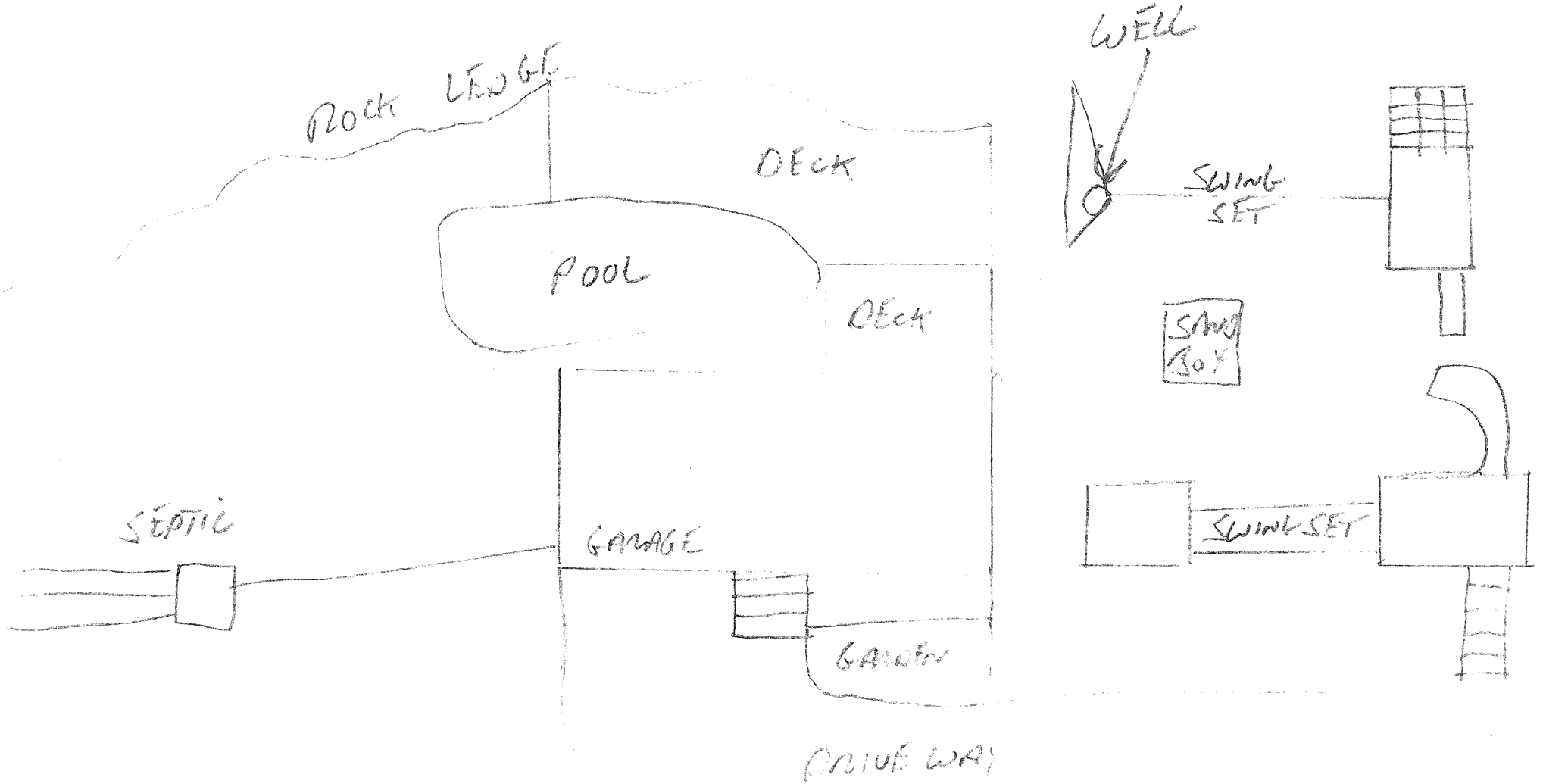
Iron NO

Hardness NO

Cloudiness NO

Taste NO

Chemical NO


ROCK LEDGE
DECK
POOL
DECK
SEPTIC
GARAGE
GARDEN
DRIVE WAY
WELL
SWING SET
SAND BOX
SWING SET

#17

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Thomas Daros

Print Name Thomas Daros *Date* 12/18/07

Address 19 Sun Valley Dr. No. Salem *Zip* 10560

Eve. Telephone *Day Telephone* Same

Email __

* Note - We have a dog - you should call 1st before coming on the property.

(Marisa Daros)

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

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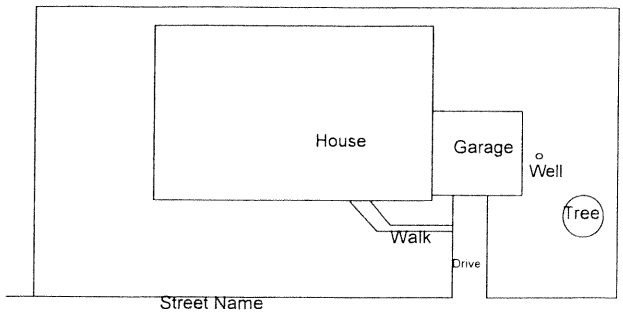

Name Thomas Davos

Address 19 Sun Valley Dr. No. Salem

Telephone Number (indicate whether day or evening number) Anytime

What year was your well installed? Circa 1968

What is the total depth of your well? N/A

What is the approximate depth to the water table, if known? N/A

Does your well tap the bedrock or sand and gravel aquifer? N/A

How much casing was used during the installation of your well? N/A

Is the top of your well above ground, in a well pit, buried, or other? Above Ground

What is the approximate depth to water-bearing fractures, if known? N/A

Does your well have a submersible pump, a jet pump or a centrifugal pump? Submersible

What is the approximate yield of your well? N/A

How far is your well from your or your neighbor's septic leaching field? 250' Approx

Does your well ever run dry? No

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems?

Bacterial

Sulfur

Iron un Known

Hardness

Cloudiness

Taste

Chemical

Additional Comments:

#21

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

PROVIDING ANY DAMAGE WILL BE CORRECTED TO MY SATISFACTION (WELL + OR PROPERTY)

_____ **I do not agree to allow my well to be monitored.**

Signature _____

Print Name JAMES DISPLAU *Date* 2/29/08

Address 30 RIBARD CROTON FALLS NY *Zip* 10519

Eve. Telephone *Day Telephone*

Email

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem — Homeowner Well Monitoring Questionnaire

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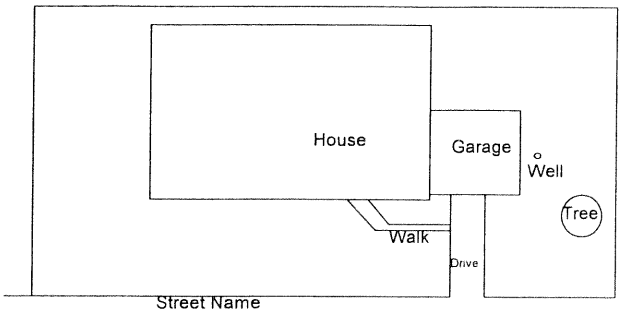

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Name JAMES DESALVO

Address 30 REED RD

Telephone Number (indicate whether day or evening number) _____

What year was your well installed?

What is the total depth of your well? 156'

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well?

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known?

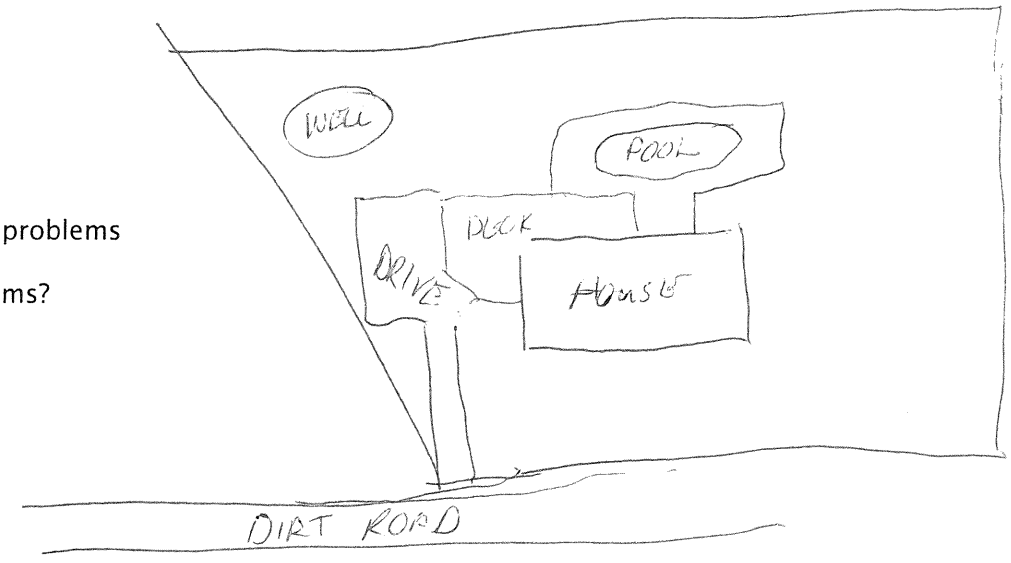
Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well?

How far is your well from your or your neighbor's septic leaching field?

Does your well ever run dry? NO

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems



Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

#28

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature William C King

Print Name William C King *Date* 3/5/08

Address 51 Spruce Mtn. Rd. *Zip* _____

Eve. Telephone *Day Telephone* SAME

Email _

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

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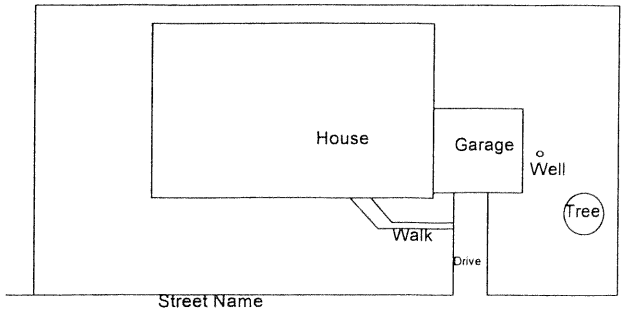


Name William C. King

Address 51 Spruce Mtn. Rd. Danbury Ct (Home address)

Telephone Number (indicate whether day or evening number) day or evening

What year was your well installed? 1975

What is the total depth of your well? 150 ft.

What is the approximate depth to the water table, if known?

Does your well tap the bedrock or sand and gravel aquifer? Bedrock

How much casing was used during the installation of your well? UNKNOWN

Is the top of your well above ground, in a well pit, buried, or other? in a well pit

What is the approximate depth to water-bearing fractures, if known? ?

Does your well have a submersible pump, a jet pump or a centrifugal pump? Submersible pump

What is the approximate yield of your well? 5 GPM.

How far is your well from your or your neighbor's septic leaching field? 75 ft.

Does your well ever run dry? NO

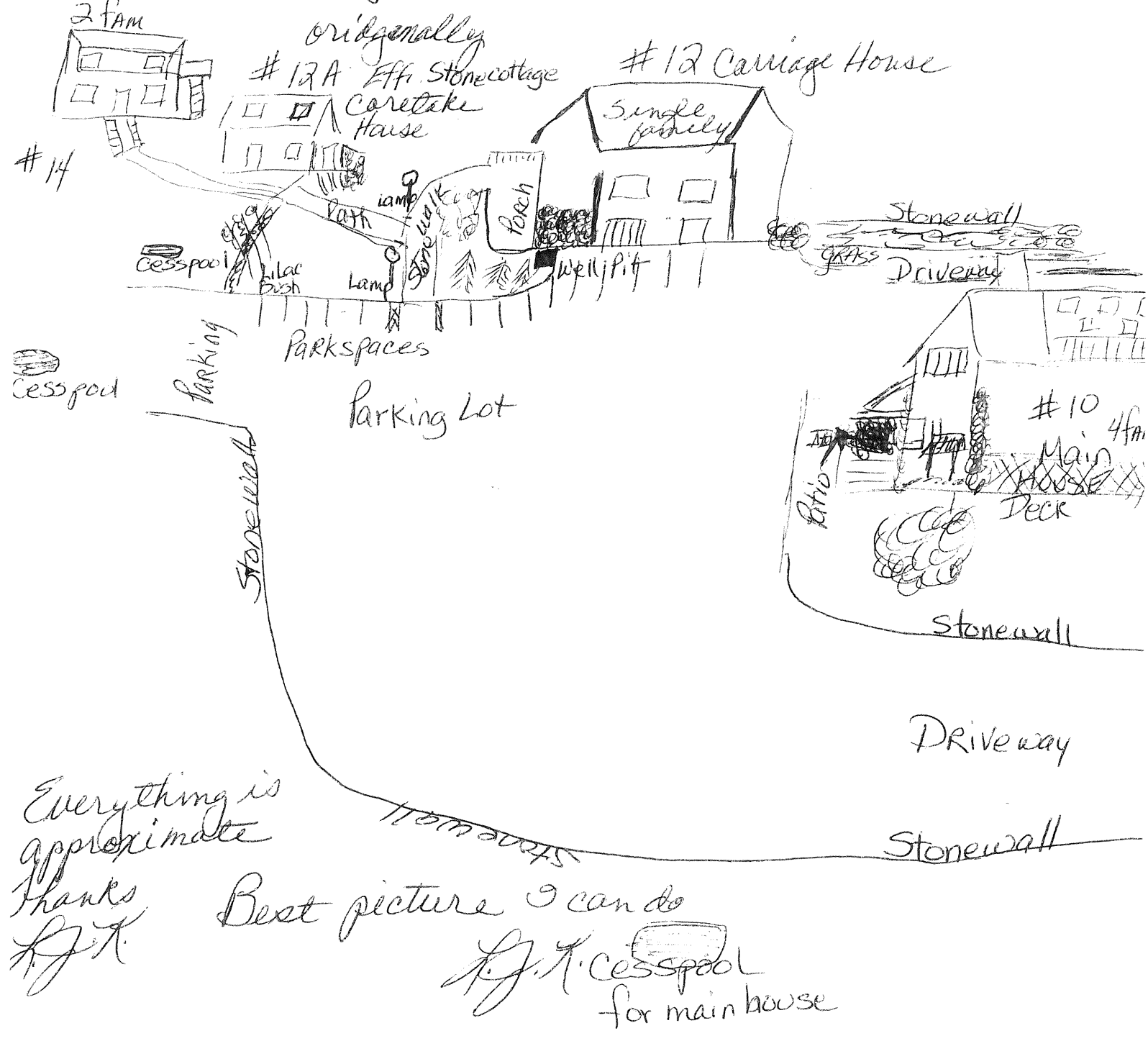
- During high usage times NO
- During dry weather periods NO
- Because of mechanical/electrical problems NO

Does your well have water quality problems? NO

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Additional Comments: The well was core drilled in 1975 by Beal Well drilling. They are still in business

Proprety is on King Lane, Town of Southeast .7 of a mile North of Weatchester & Putnam County line on Rte 22
78.1-40 TAX MAP



Everything is approximate
Thanks
L.J.K.

Best picture I can do

L.J.K. Cesspool for main house

#29

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Andrew Pelosi

Print Name ANDREW PELOSI *Date* 3/17/08

Address 4 JUENGST RD, CROTON FALLS, NY *Zip* 10519

Eve. Telephone *Day Telephone*

Email _

P.O. BOX 726

Thanks

Please send information to:

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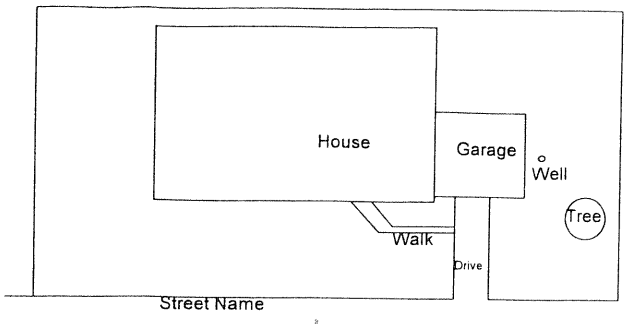


Name ANDREW PELOSI

Address 4 JUENGST RD, CROTON FALLS, NY

Telephone Number (indicate whether day or evening number) --

What year was your well installed? The house was built in 1920. Unsure about well installation

What is the total depth of your well? UNKNOWN

What is the approximate depth to the water table, if known? UNKNOWN

Does your well tap the bedrock or sand and gravel aquifer? NOT SURE

How much casing was used during the installation of your well? NOT SURE

Is the top of your well above ground, in a well pit, buried, or other? ABOVE GROUND

What is the approximate depth to water-bearing fractures, if known? NOT KNOWN

Does your well have a submersible pump, a jet pump or a centrifugal pump? SUBMERSIBLE PUMP

What is the approximate yield of your well? not measured

How far is your well from your or your neighbor's septic leaching field? At least 200 feet

Does your well ever run dry? NO

During high usage times

During dry weather periods

Because of mechanical/electrical problems

Does your well have water quality problems?

Bacterial NO

Sulfur NO

Iron Some

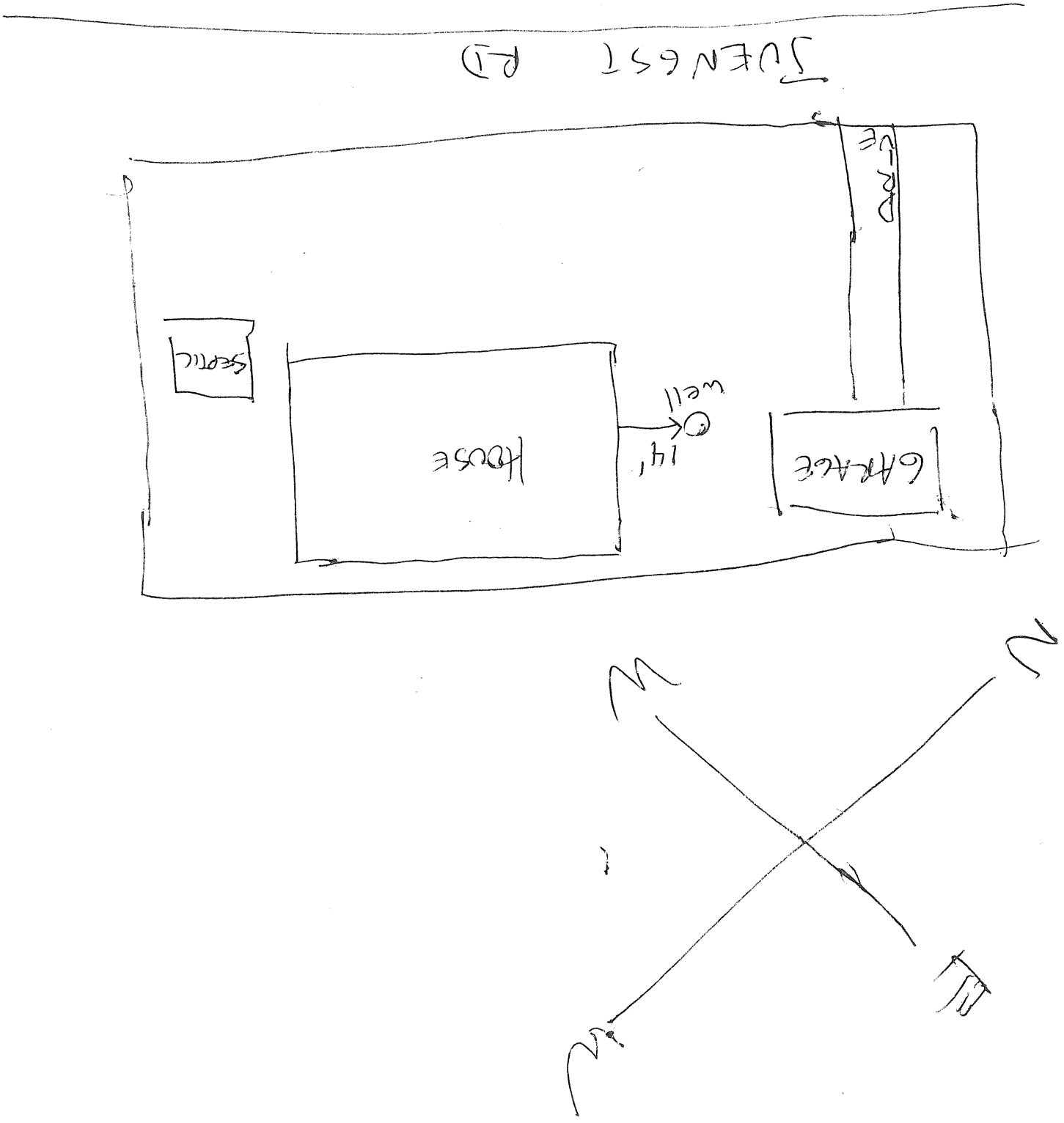
Hardness NO

Cloudiness NO

Taste NO

Chemical NO

Additional Comments:



Victor L. Lee

PO Box 667
North Salem, NY 10560
914-261-8656 (cell)
914-669-8921 (fax)

To: Maureen Fisher

Phone: 845-265-4400
Fax: 845-265-4418

Date: May 20, 2008

Subject: Well monitoring

Pages (inclusive): 4

Note:

The Woodlands at North Salem Well Monitoring
May 1, 2008

#30

Please check one:

✓ ***I agree to permit my well to be monitored as described above.***

_____ **I do not agree to allow my well to be monitored.**

Signature Allison Lee

Print Name ALLISON LEE *Date* _____

Address 3 BURGESS ST. CROTON FALLS *Zip* 10519

Eve. Telephone _ *Day Telephone*

Email _____

Please send information to:

Tim Miller Associates, Inc.
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Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
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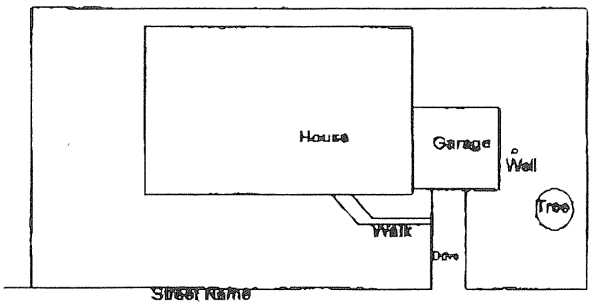


Name ALLISON LEE

Address 3 BURGESS ST CROTON FALLS NY 10519 MAILING ADD. PO BOX 66 N. SALEM NY 10560.

Telephone Number (indicate whether day or evening number)

What year was your well installed? 1995

What is the total depth of your well? ?

What is the approximate depth to the water table, if known? ?

Does your well tap the bedrock or sand and gravel aquifer? ?

How much casing was used during the installation of your well? ?

Is the top of your well above ground, in a well pit, buried, or other? ABOVE GROUND

What is the approximate depth to water-bearing fractures, if known? ?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well? ? I fill my hot tub and it never slows

How far is your well from your or your neighbor's septic leaching field? NO septic leaching fields cesspools are used.

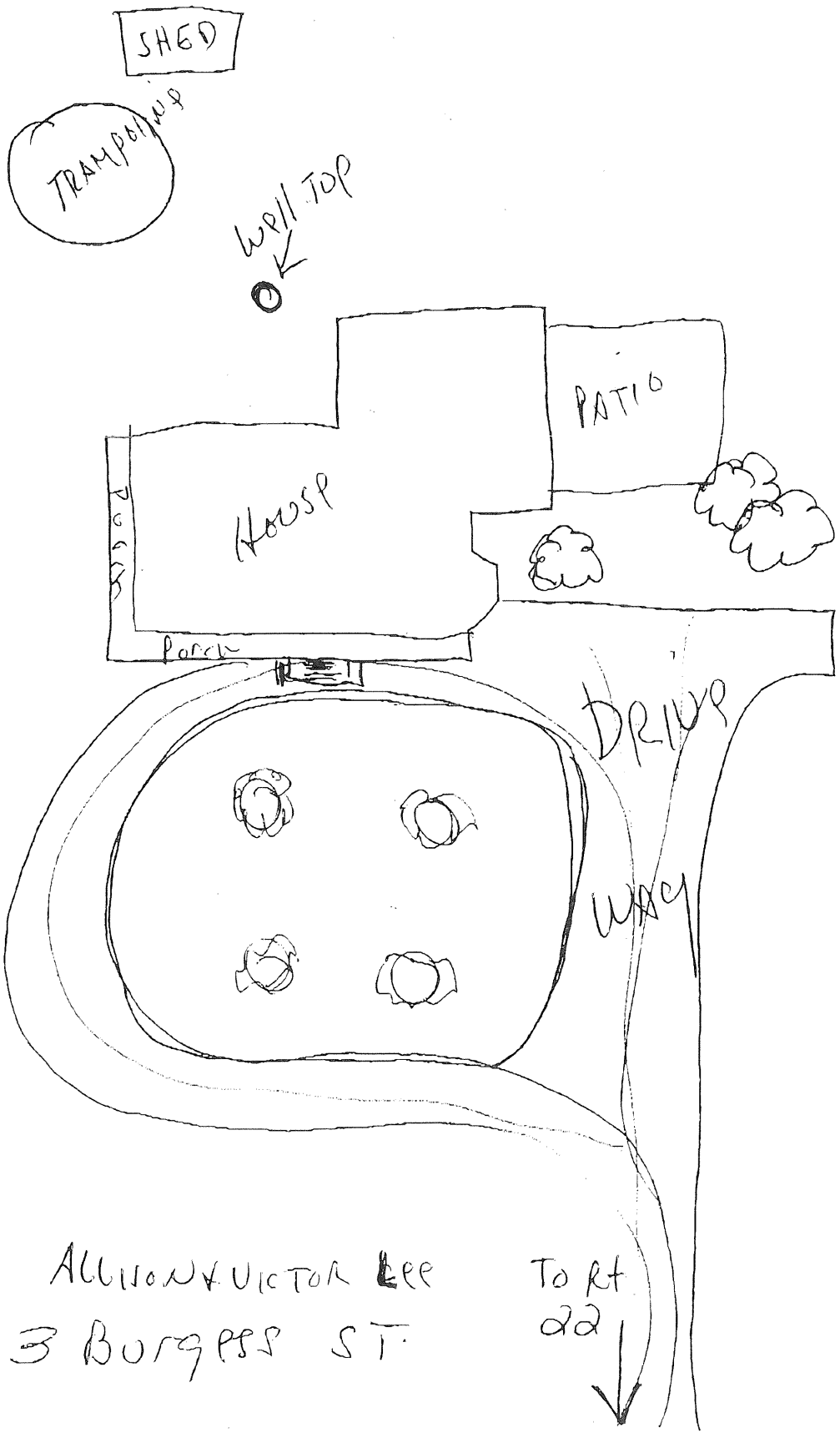
Does your well ever run dry? NO

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial NO
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Neighbors



Woods

Woods

Please check one:

_____***I agree to permit my well to be monitored as described above.***

_✓_**I do not agree to allow my well to be monitored.**

Signature Charles Huber III

Print Name CHARLES HUBER III *Date* 3/10/08

Address 28 REED RD. *Zip* 10519

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Please check one:

_____I agree to permit my well to be monitored as described above.

_____I do not agree to allow my well to be monitored.

Signature Lorraine Daros

Print Name Harold + Lorraine Daros *Date* 2/29/08

Address PO Box 513 Croton Falls NY 10519 *Zip* _____

Eve. Telephone _____ *Day Telephone* _____

Email _____

21 Sun Valley Drive
Croton Falls, N.Y.
Town of North Salem
is a vacant acre of
land. There is no well
to date.

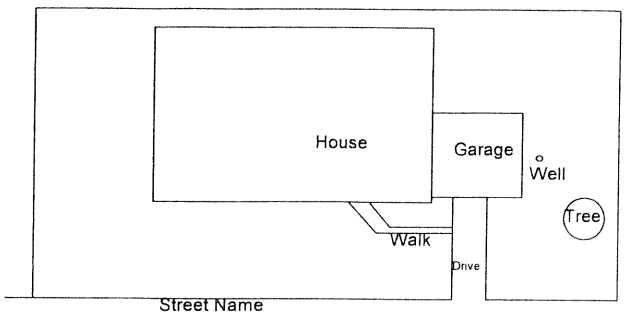
Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Woodlands at North Salem **Homeowner Well Monitoring Questionnaire**

This questionnaire is being sent to homeowners within the vicinity of the proposed property development known as the Woodlands at North Salem on Reed Road in the Town of North Salem, NY, in conjunction with a well monitoring program for the Project.

Please answer the questions below, if you can. If you do not have the necessary information or are unsure how to answer a question, please indicate so.



Please provide a sketch of your property, including well and septic location, as in the example. Use the back of this page for your sketch.

Name Harold + Lorraine Daros

Address 21 Sun Valley Drive Croton Falls.

Telephone Number (indicate whether day or evening number) _____

What year was your well installed?

What is the total depth of your well?

What is the approximate depth to the water table, if known?

There is no well on this vacant acre of land.

Does your well tap the bedrock or sand and gravel aquifer?

How much casing was used during the installation of your well?

Is the top of your well above ground, in a well pit, buried, or other?

What is the approximate depth to water-bearing fractures, if known?

Does your well have a submersible pump, a jet pump or a centrifugal pump?

What is the approximate yield of your well?

How far is your well from your or your neighbor's septic leaching field?

Does your well ever run dry?

- During high usage times
- During dry weather periods
- Because of mechanical/electrical problems

Does your well have water quality problems?

- Bacterial
- Sulfur
- Iron
- Hardness
- Cloudiness
- Taste
- Chemical

Please check one:

_____I agree to permit my well to be monitored as described above.

_____I do not agree to allow my well to be monitored.

Signature Lorraine A. Daros

Print Name Lorraine A Daros *Date* 12-13-07

Address PO Box 573 Croton Falls, NY *Zip* 10519

Eve. Telephone *Day Telephone*

Email _____

My husband Harold R. Daros and I own the property @ 21 Sun Valley Drive, Croton Falls NY. It is an acre of undeveloped land. There is no well to be monitored @ this time.

Please check one:

_____***I agree to permit my well to be monitored as described above.***

__√__ **I do not agree to allow my well to be monitored.**

Signature M. Elaine Van

Print Name M. Elaine Van *Date* 12/21/07

Address 8 Hardscrabble Rd North Salem, NY *Zip* 10560

Eve. Telephone _____ *Day Telephone* _____

Email _____

Antor Realty LLC.
621 Halyard Lane
Longboat Key, FL 34228

March 5, 2008

Tim Miller Associates, Inc.
10 North Street
Cold Springs, New York 10516

Attention: Maureen S. Fisher
Environmental Scientist

Dear Ms Fisher:

Enclosed is your Woodlands at North Salem Well Monitoring February 26, 2008 form.

As indicated on the form I do not agree to allow my well to be monitored.

This information was sent to Mr. Dahlgren via Certified Mail and signed for on January 31, 2008.

Very truly yours,

Ronald M. Pastore
Manager
Antor Realty LLC.

Cc: Dennis Case

Please check one:

_____ ***I agree to permit my well to be monitored as described above.***

X **I do not agree to allow my well to be monitored.**

Signature _____ manager

Print Name RONALD M PASTORE *Date* March 5, 2008

Address 621 HALYARD LANE LONGBOAT KEY, FLORIDA *Zip* 34228

Eve. Telephone _____ *Day Telephone* _____

Email _____

Please send information to:

Tim Miller Associates, Inc.
10 North Street
Cold Spring, New York 10516
Phone (845) 265-4400
Fax (845) 265-4418
Email: mfisher@timmillerassociates.com

Antor Realty Llc.
621 Halyard Lane
Longboat Key, FL 34228

January 28, 2008

Tim Miller Associates, Inc.
10 North Street
Cold Springs,New York l0516

Attention: Jon P. Dahlgren
Vice President/ Senior Geologist

Dear Mr. Dahlgren:

Enclosed is your Woodlands at North Salem Well Monitoring January 18, 2008 form.

As indicated on the form I do not agree to allow my well to be monitored.

Very truly yours,

Ronald M. Pastore
Manager
Antor Realty Llc.

cc: Dennis Case

Please check one:

_____ ***I agree to permit my well to be monitored as described above.***

__Y__ **I do not agree to allow my well to be monitored.**

Signature _____ manager

Print Name RONALD M PASTORE *Date* JAN 25, 08

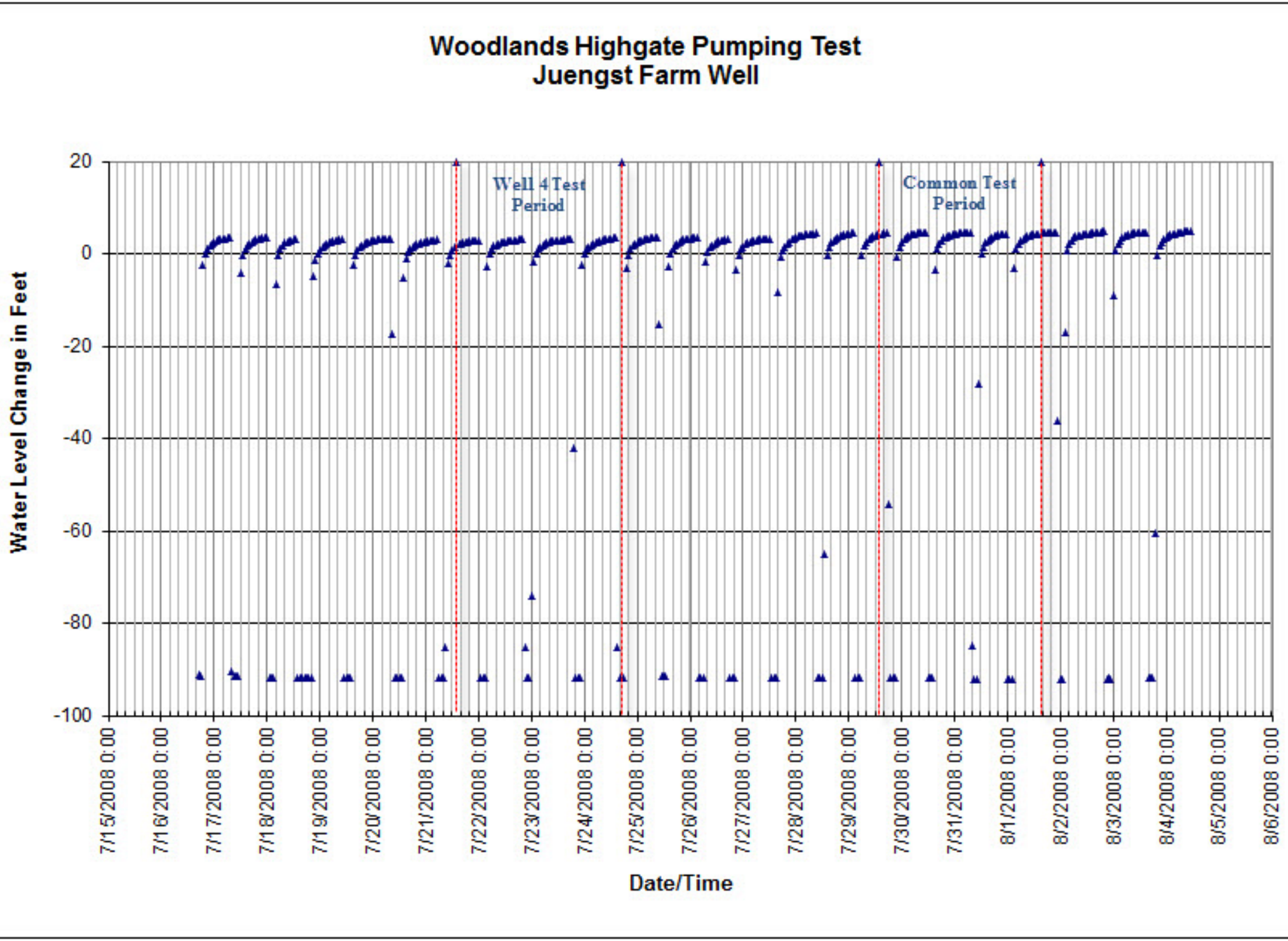
Address 621 HALYARD LANE LONGBOAT KEY FL *Zip* 34228

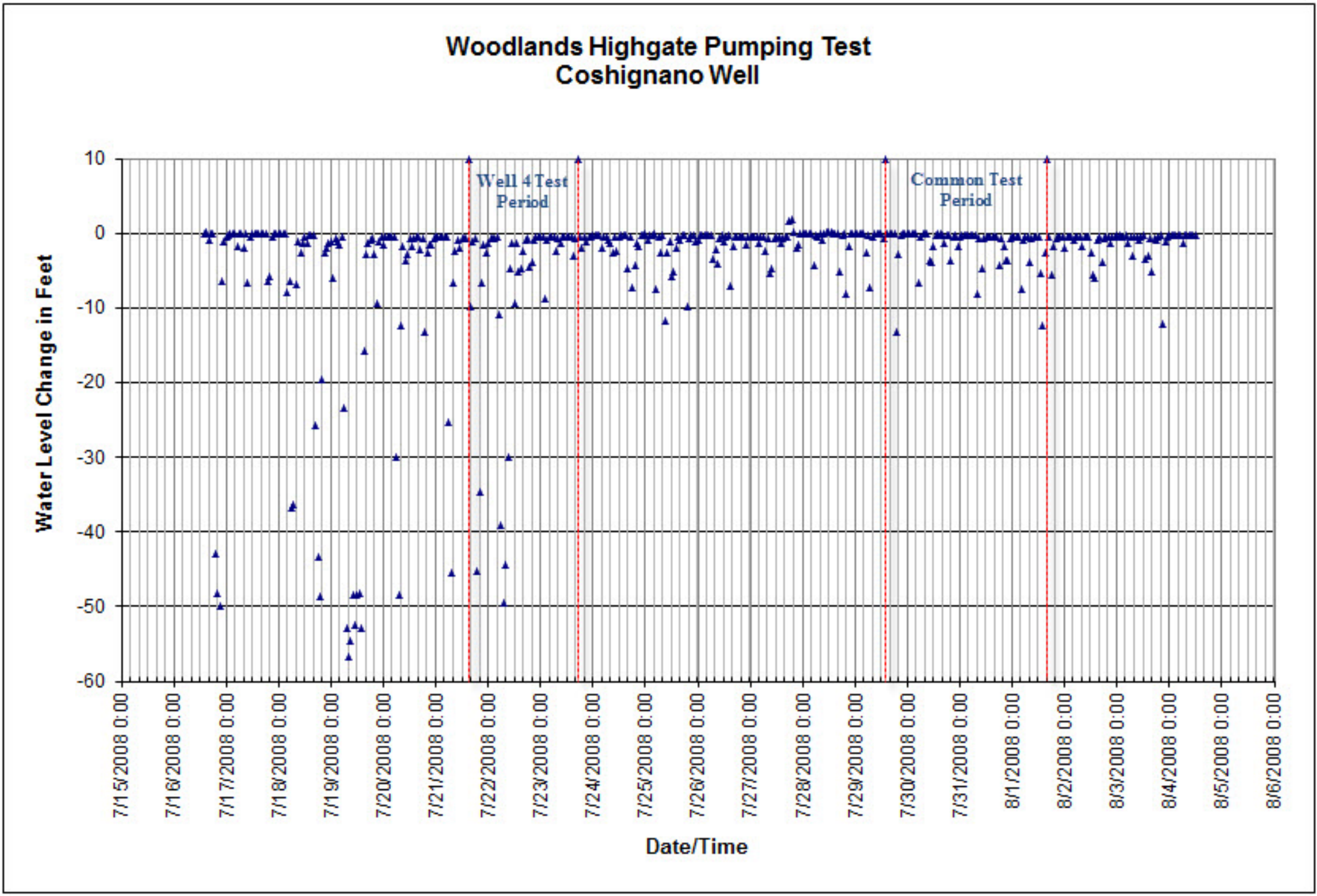
Eve. Telephone _____ *Day Telephone* _____

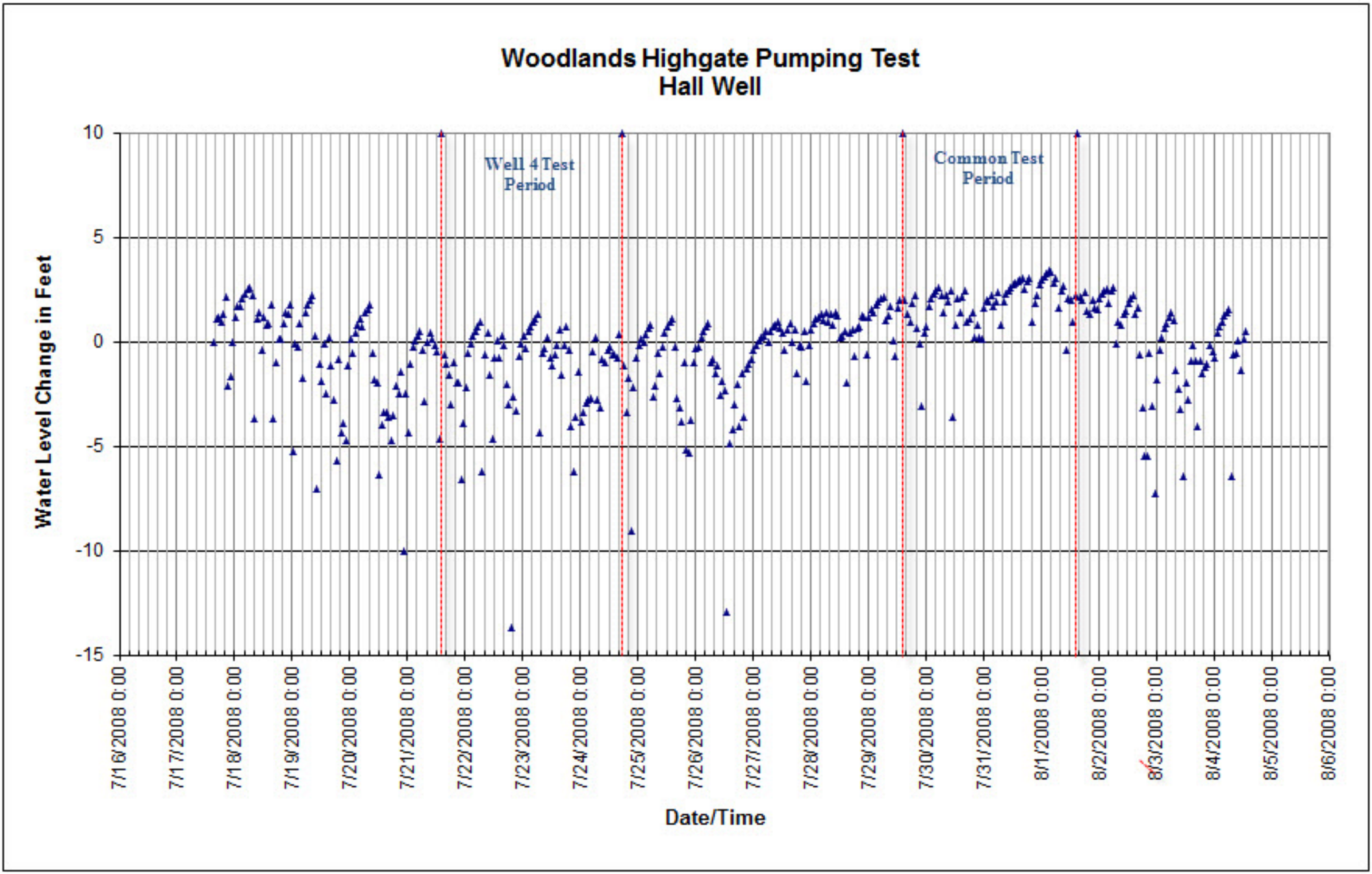
Email _____

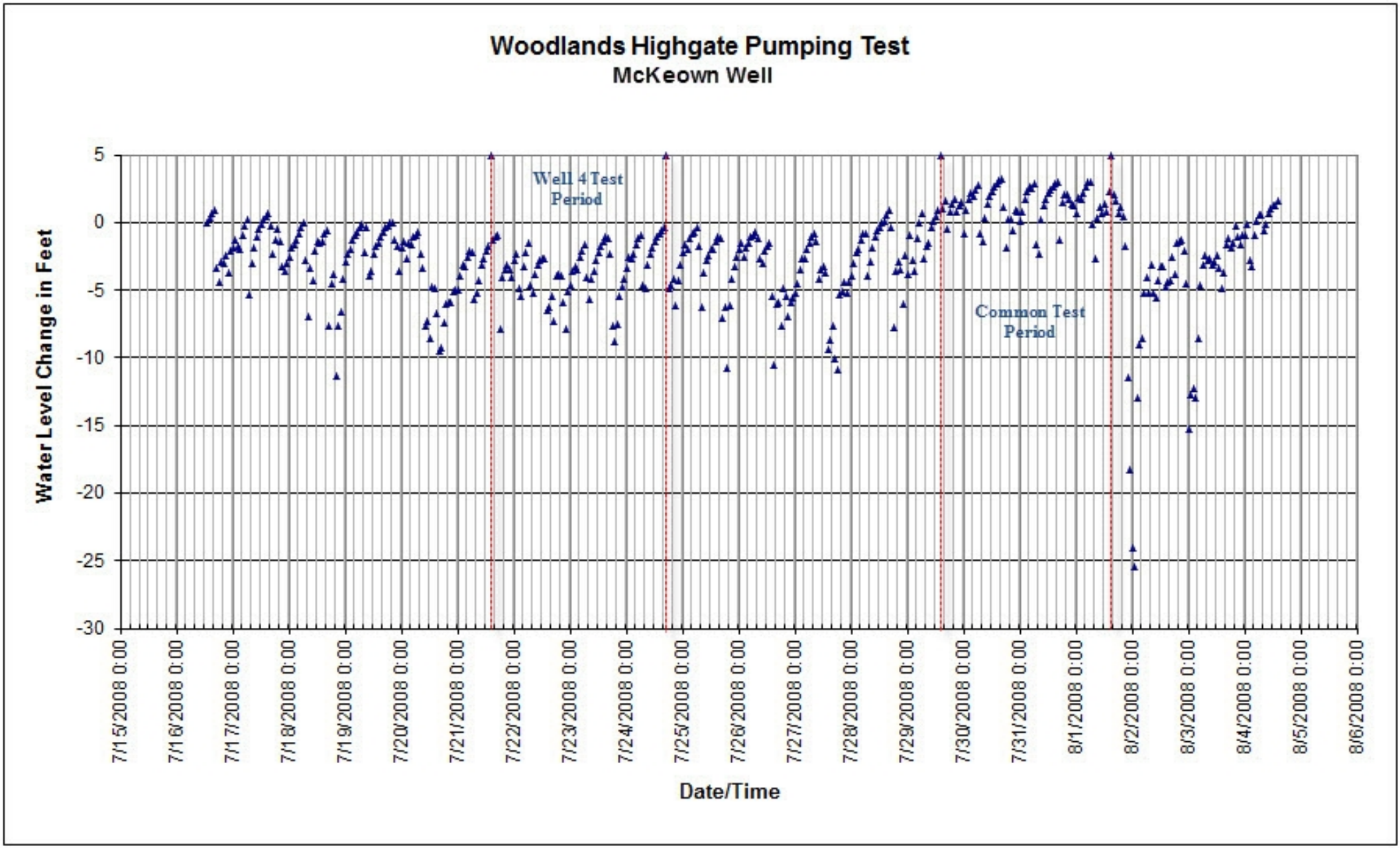
Attachment C

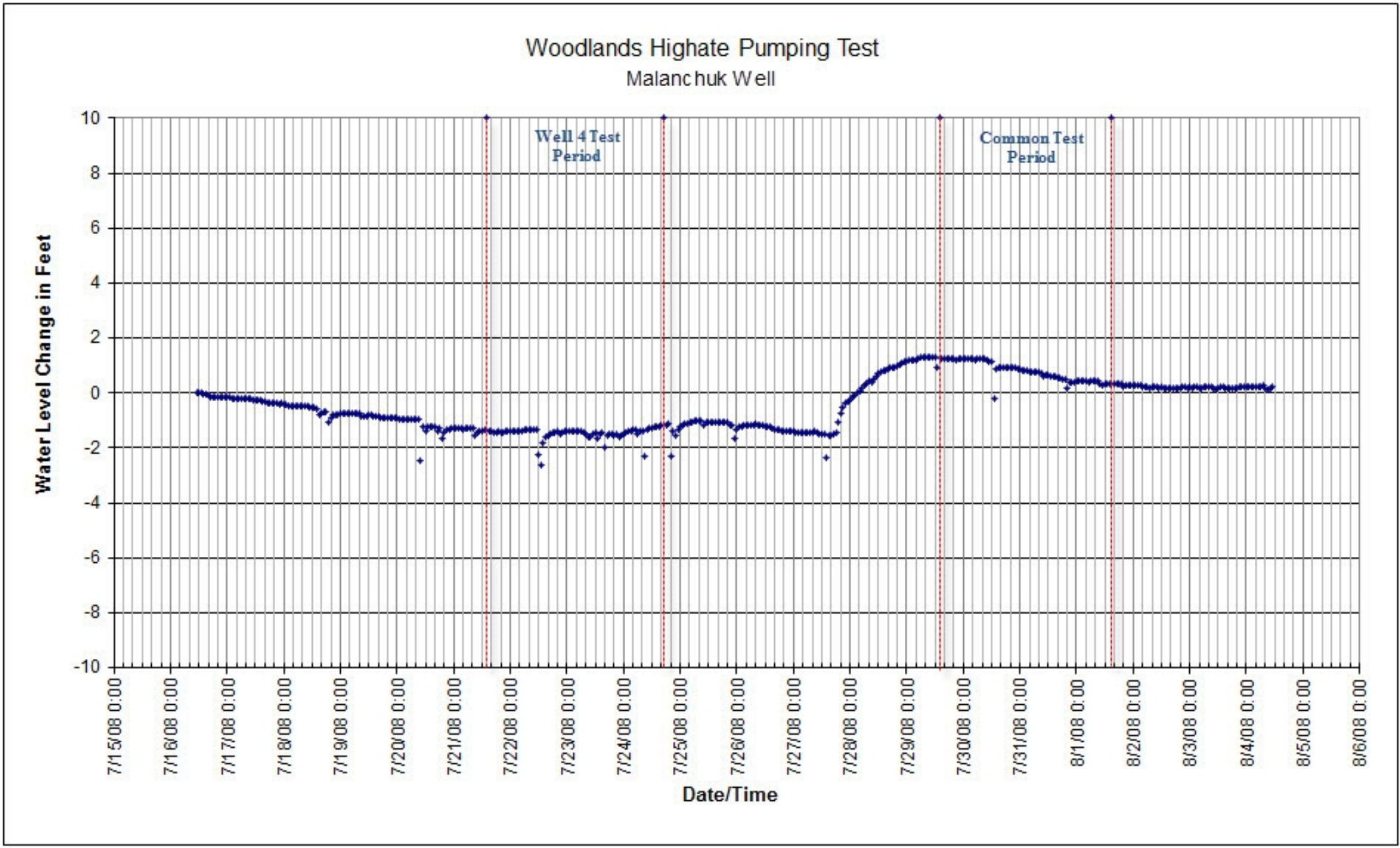
Pumping Test Charts

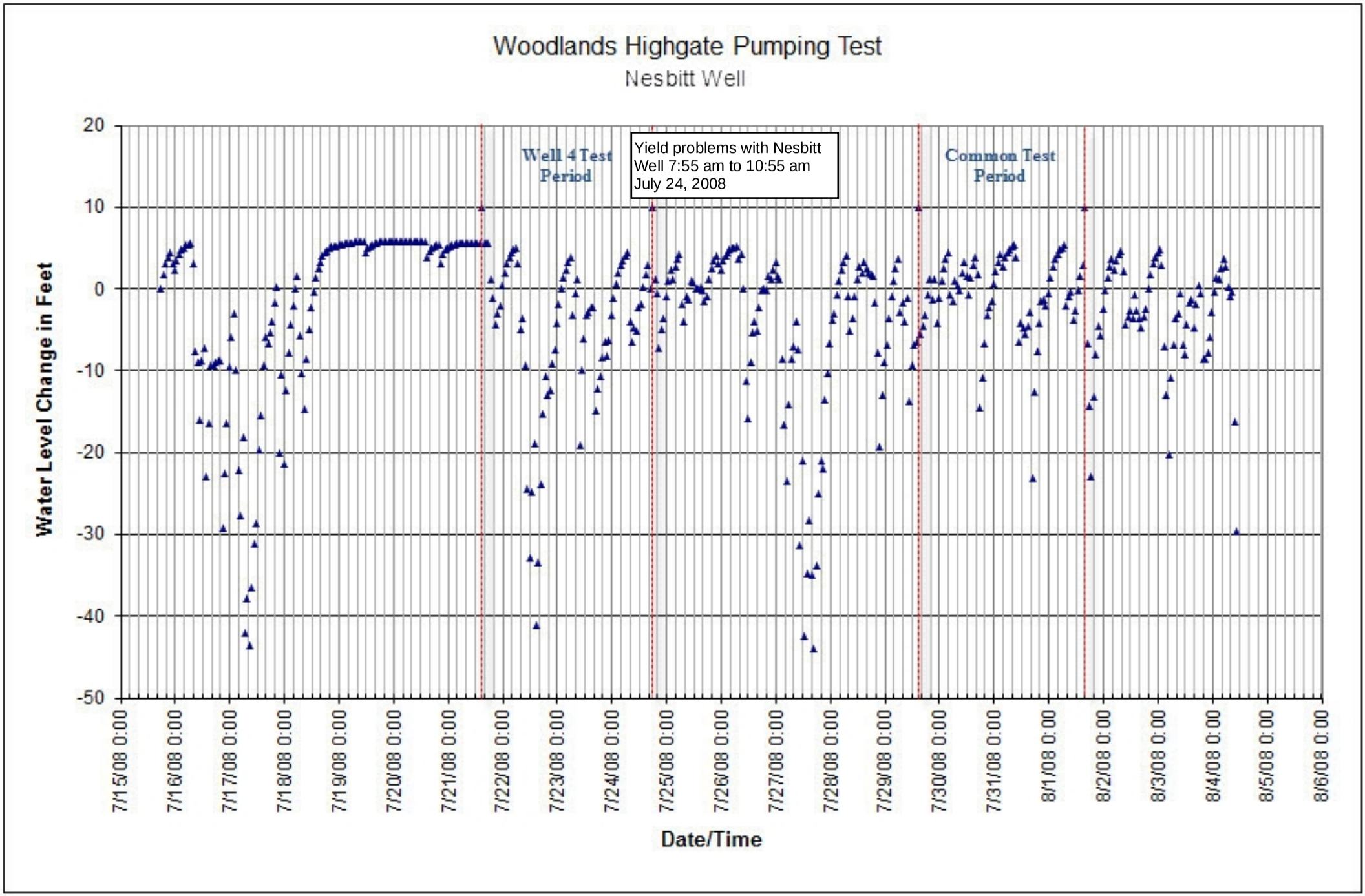

Woodlands Highgate Pumping Test
Juengst Farm Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
20
0
-20
-40
-60
-80
-100
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time

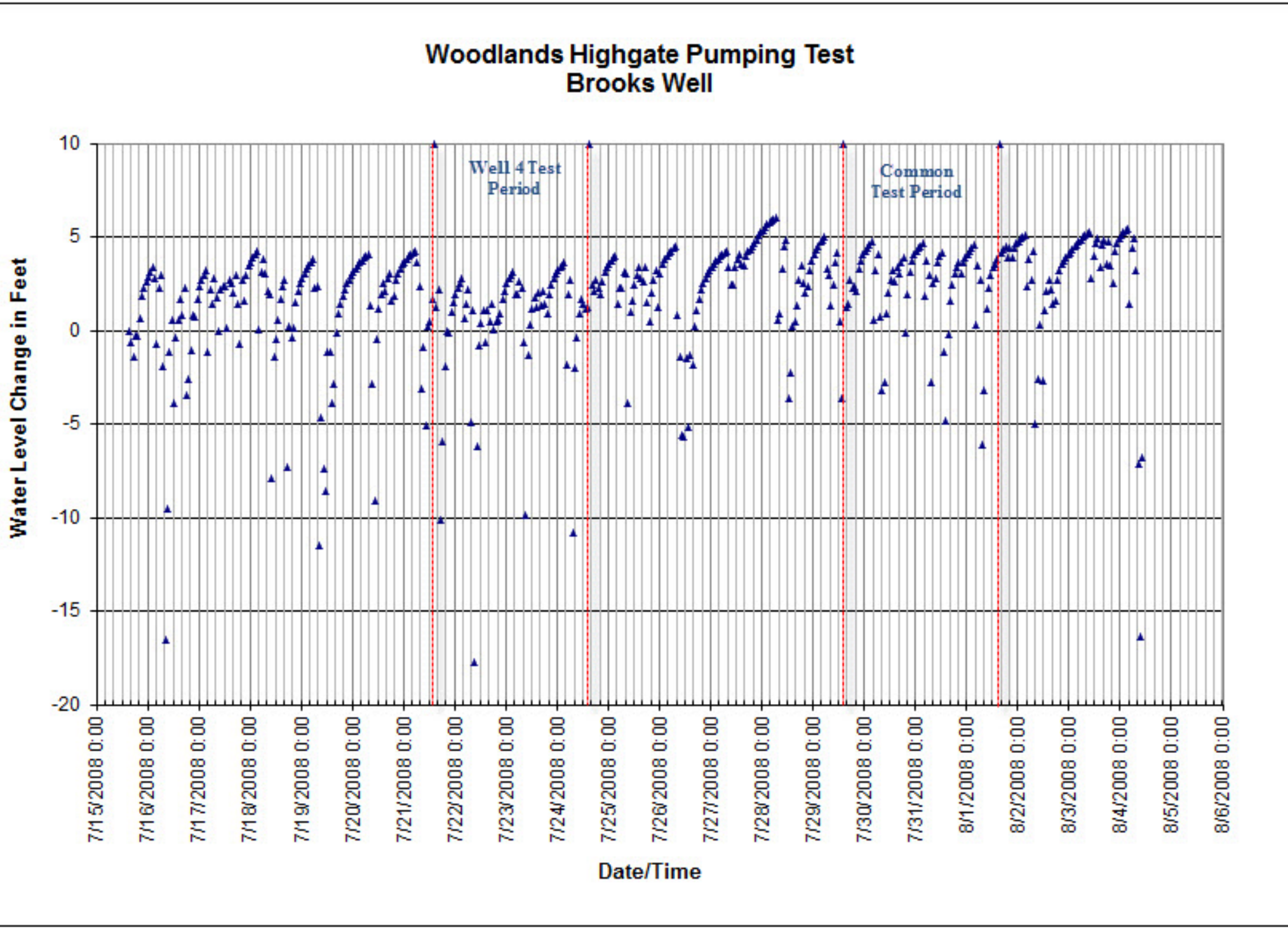

Woodlands Highgate Pumping Test
Coshignano Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
0
-10
-20
-30
-40
-50
-60
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time

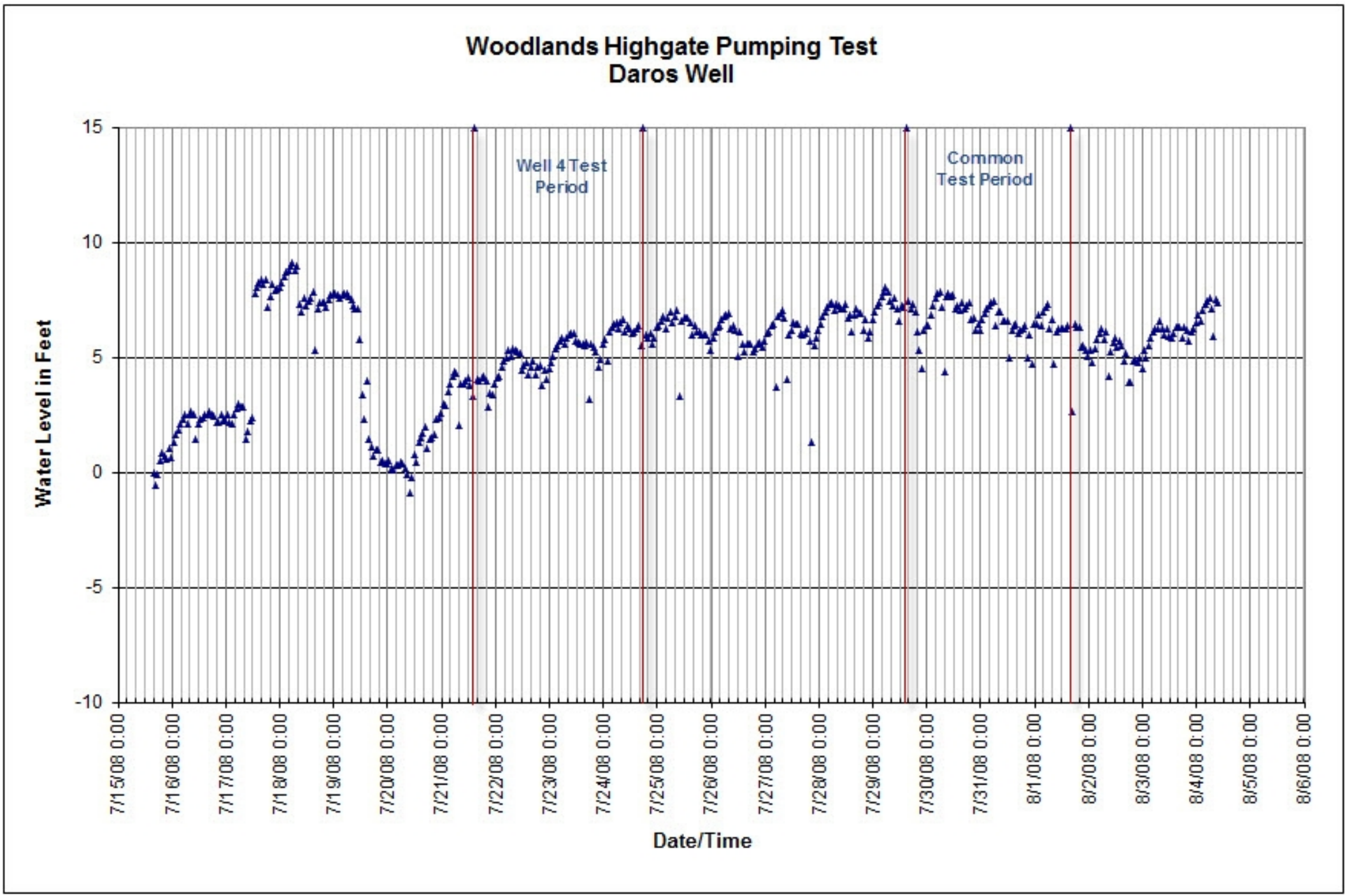

Woodlands Highgate Pumping Test
Hall Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
5
0
-5
-10
-15
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time

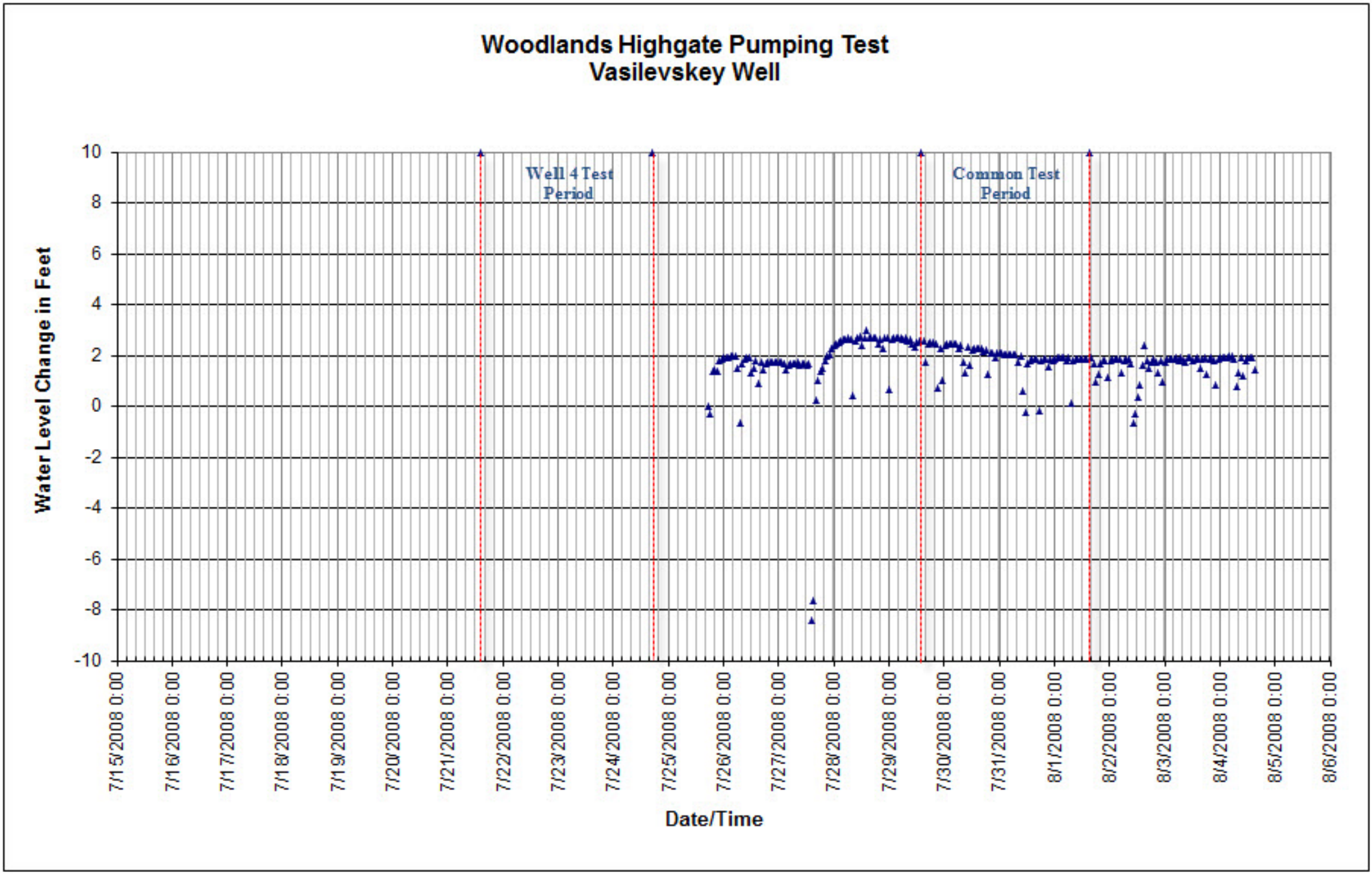

Woodlands Highgate Pumping Test
McKeown Well
Water Level Change in Feet
5
0
-5
-10
-15
-20
-25
-30
Well 4 Test Period
Common Test Period
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time

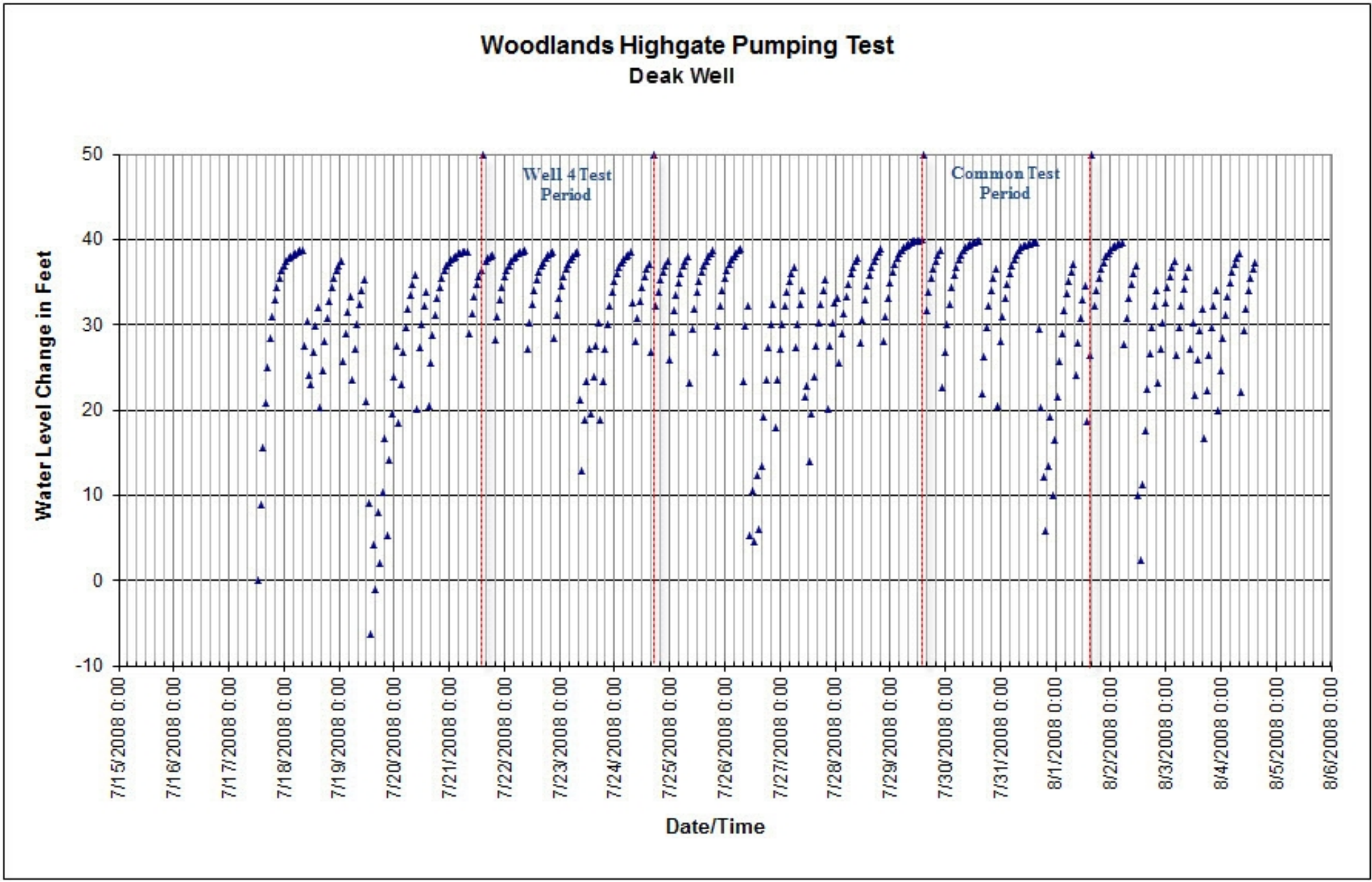

Woodlands Highate Pumping Test
Malanchuk Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
8
6
4
2
0
-2
-4
-6
-8
-10
7/15/08 0:00
7/16/08 0:00
7/17/08 0:00
7/18/08 0:00
7/19/08 0:00
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time

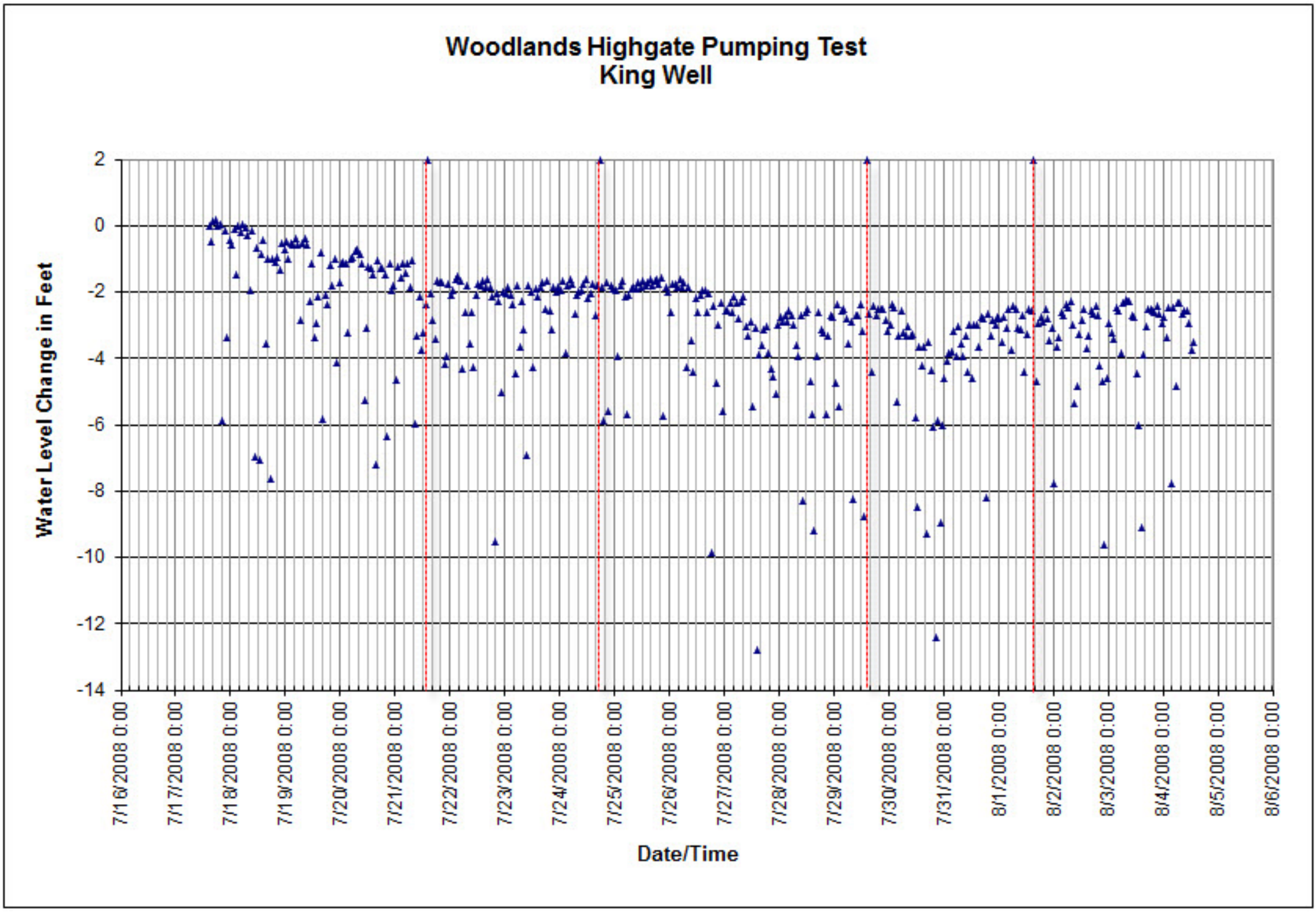

Woodlands Highgate Pumping Test
Nesbitt Well
Well 4 Test Period
Yield problems with Nesbitt Well 7:55 am to 10:55 am July 24, 2008
Common Test Period
Water Level Change in Feet
20
10
0
-10
-20
-30
-40
-50
7/15/08 0:00
7/16/08 0:00
7/17/08 0:00
7/18/08 0:00
7/19/08 0:00
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Brooks Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
5
0
-5
-10
-15
-20
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time


Woodlands Highgate Pumping Test
Daros Well
Well 4 Test Period
Common Test Period
Water Level in Feet
15
10
5
0
-5
-10
7/15/08 0:00
7/16/08 0:00
7/17/08 0:00
7/18/08 0:00
7/19/08 0:00
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Vasilevskey Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
8
6
4
2
0
-2
-4
-6
-8
-10
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time


Woodlands Highgate Pumping Test
Deak Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
50
40
30
20
10
0
-10
7/15/2008 0:00
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time


Woodlands Highgate Pumping Test
King Well
Water Level Change in Feet
2
0
-2
-4
-6
-8
-10
-12
-14
7/16/2008 0:00
7/17/2008 0:00
7/18/2008 0:00
7/19/2008 0:00
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
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7/26/2008 0:00
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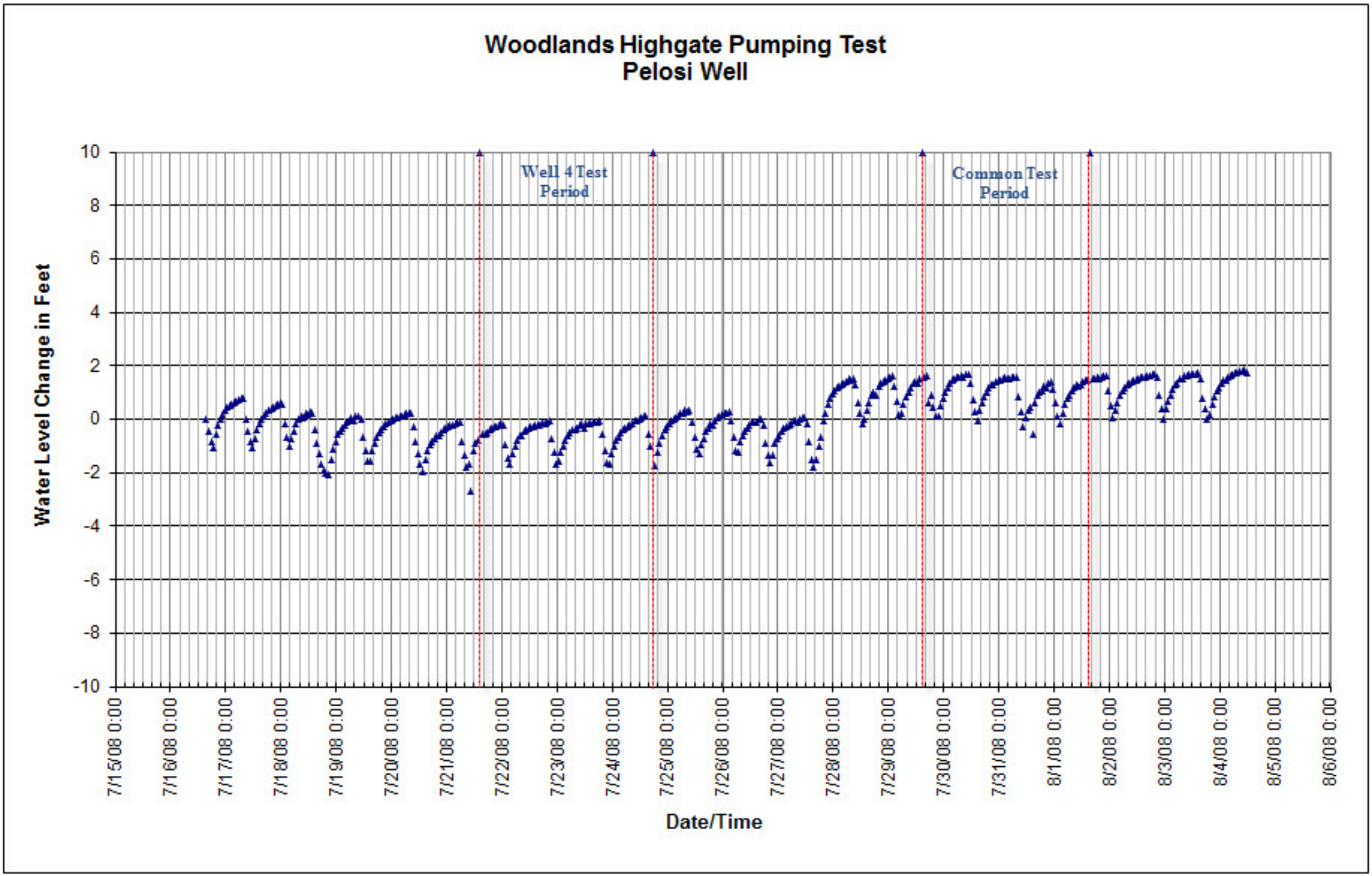
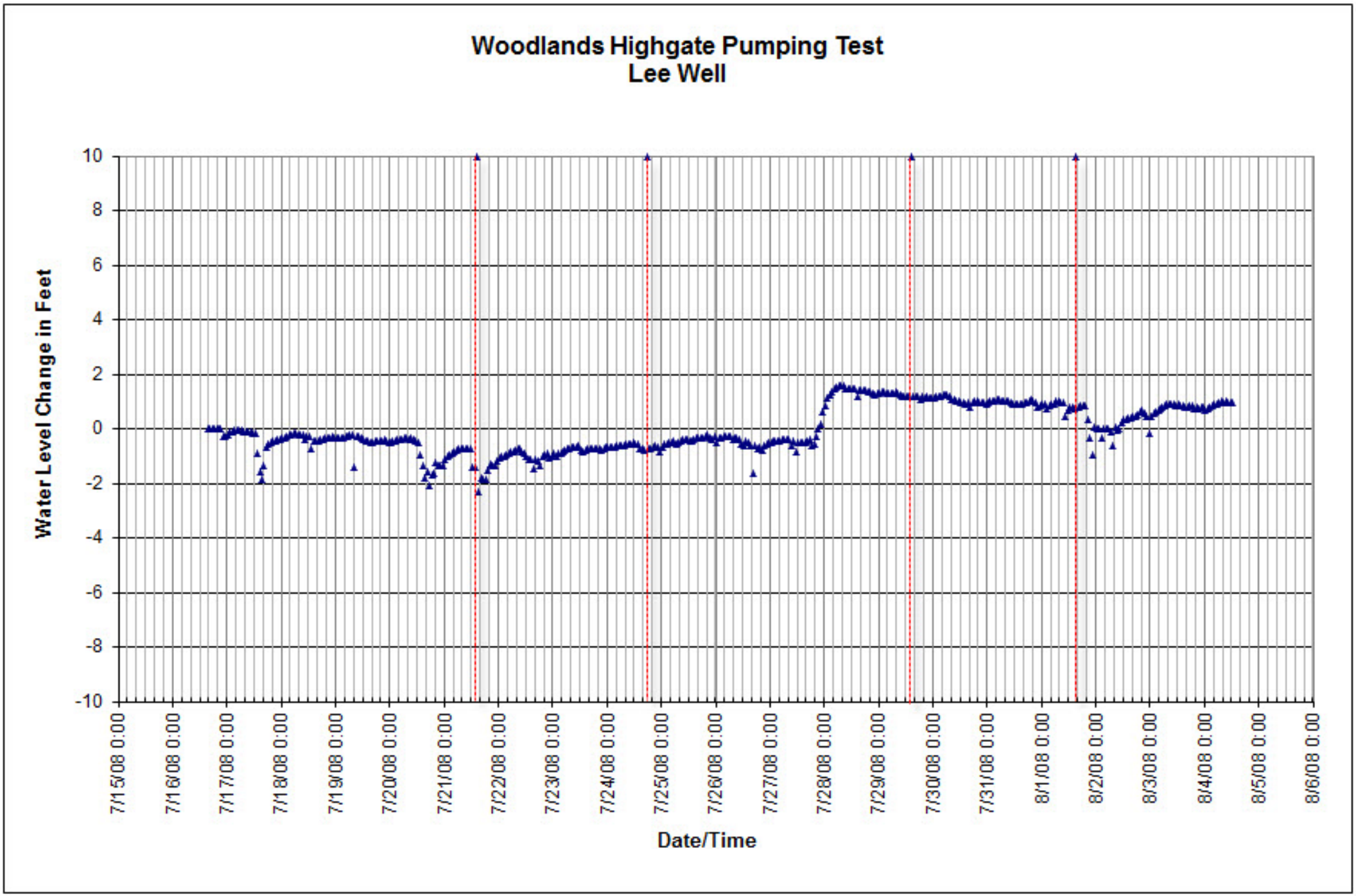
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time


Woodlands Highgate Pumping Test
Pelosi Well
Well 4 Test Period
Common Test Period
Water Level Change in Feet
10
8
6
4
2
0
-2
-4
-6
-8
-10
7/15/08 0:00
7/16/08 0:00
7/17/08 0:00
7/18/08 0:00
7/19/08 0:00
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Lee Well
Water Level Change in Feet
10
8
6
4
2
0
-2
-4
-6
-8
-10
7/15/08 0:00
7/16/08 0:00
7/17/08 0:00
7/18/08 0:00
7/19/08 0:00
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
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7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
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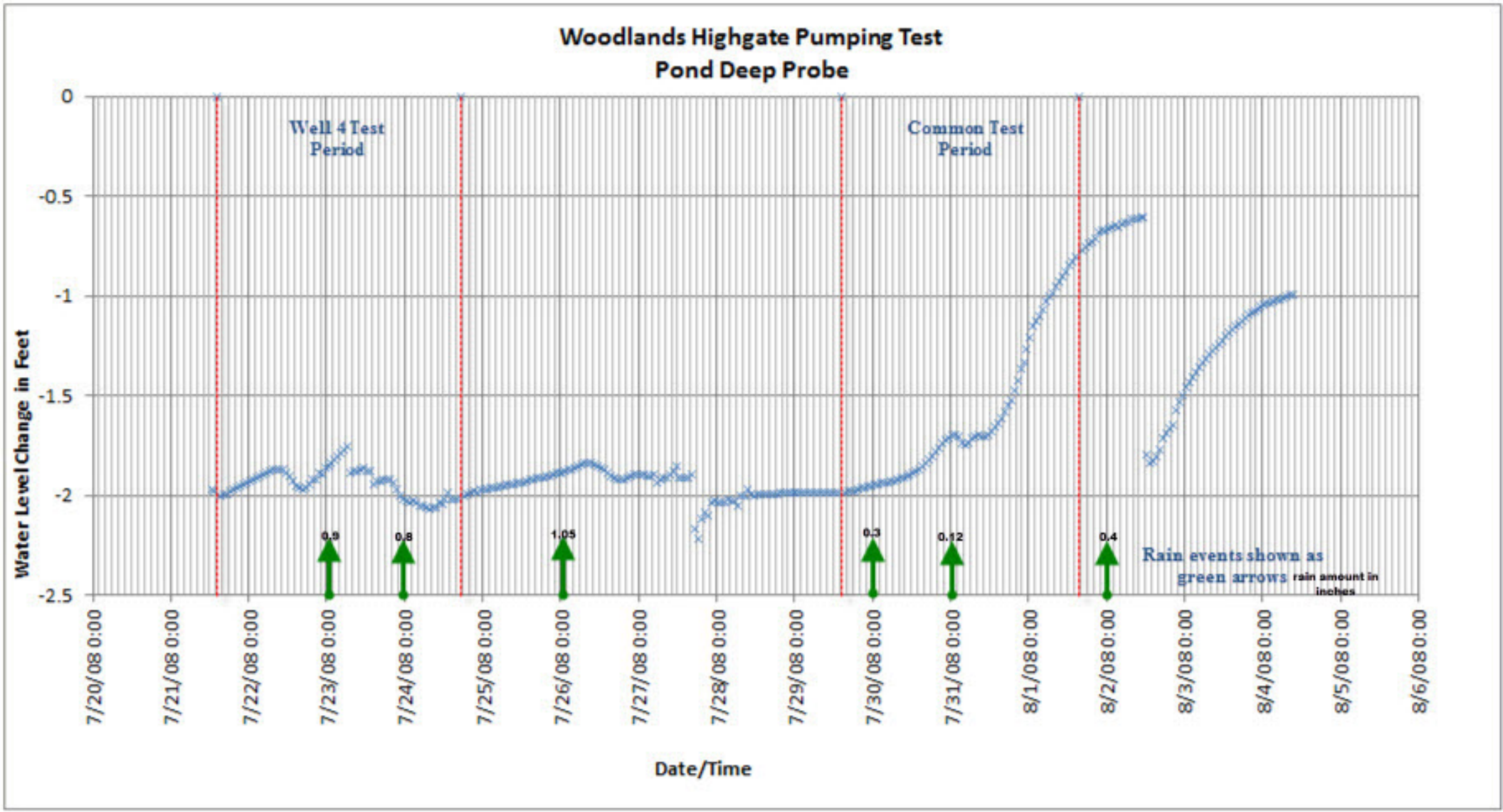
8/5/08 0:00
8/6/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Pond Deep Probe
Well 4 Test Period
Common Test Period
0
-0.5
-1
-1.5
-2
-2.5
Water Level Change in Feet
0.9
0.8
1.05
0.3
0.12
0.4
Rain events shown as green arrows
rain amount in inches
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/080:00
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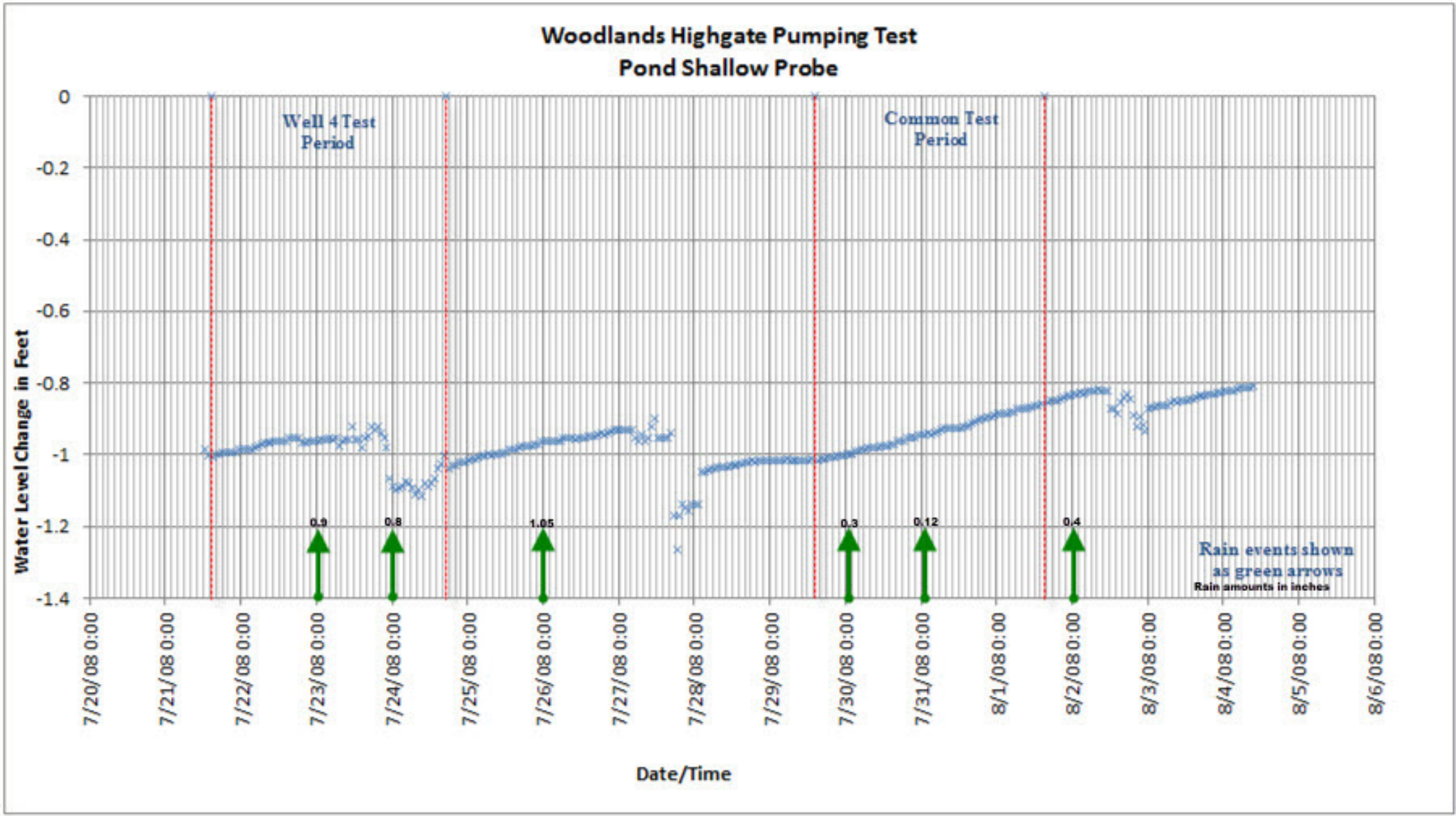
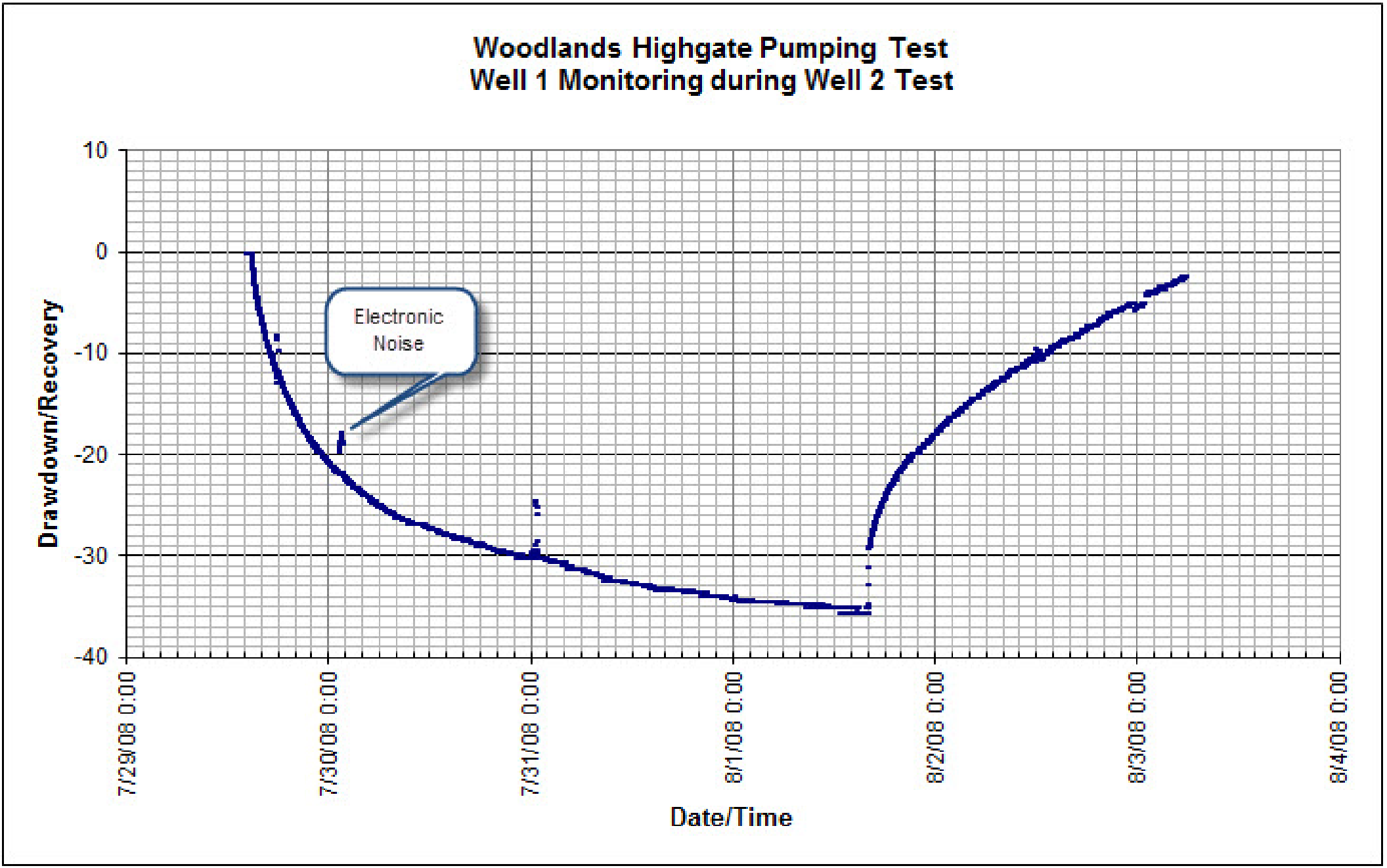
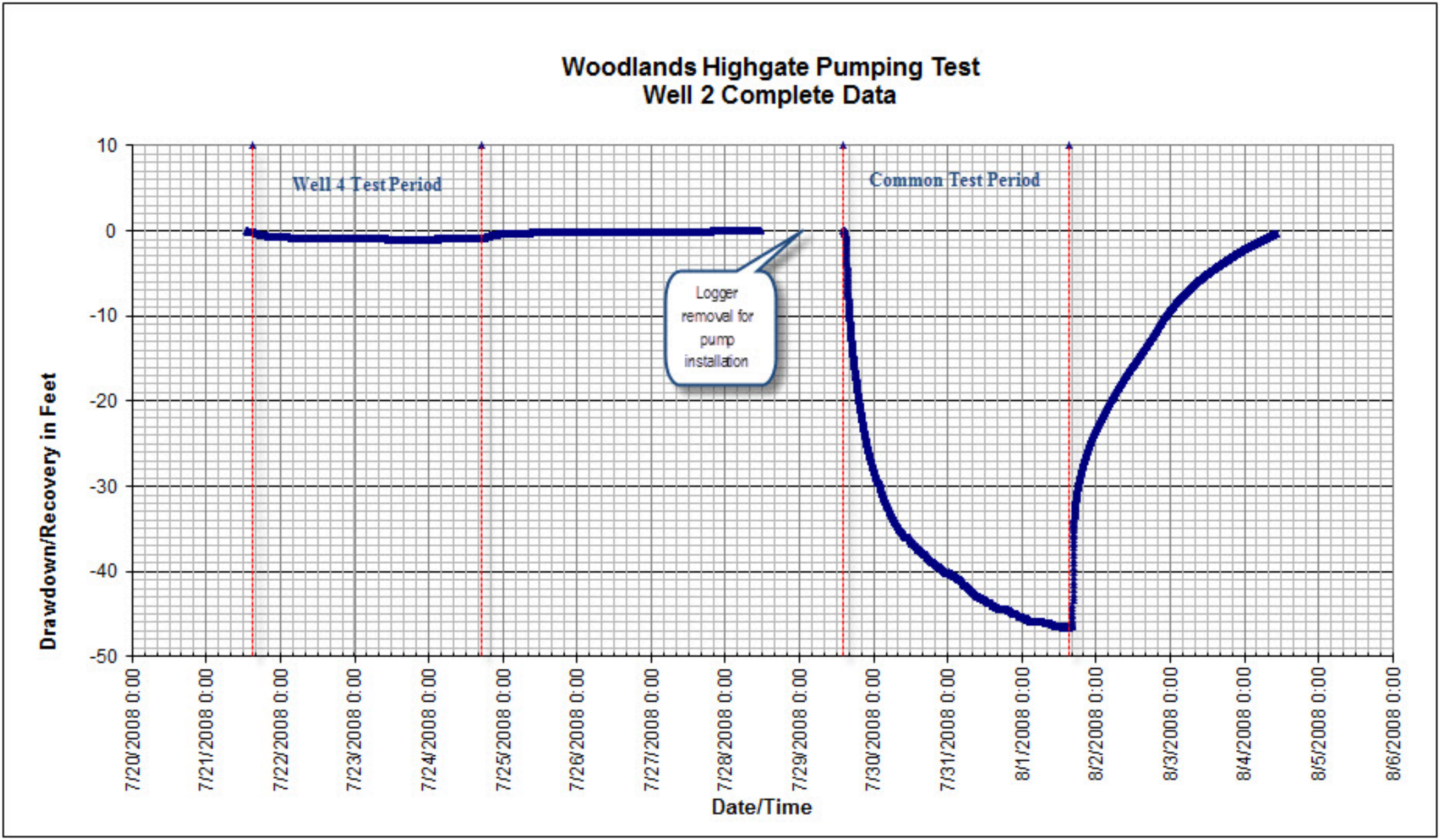
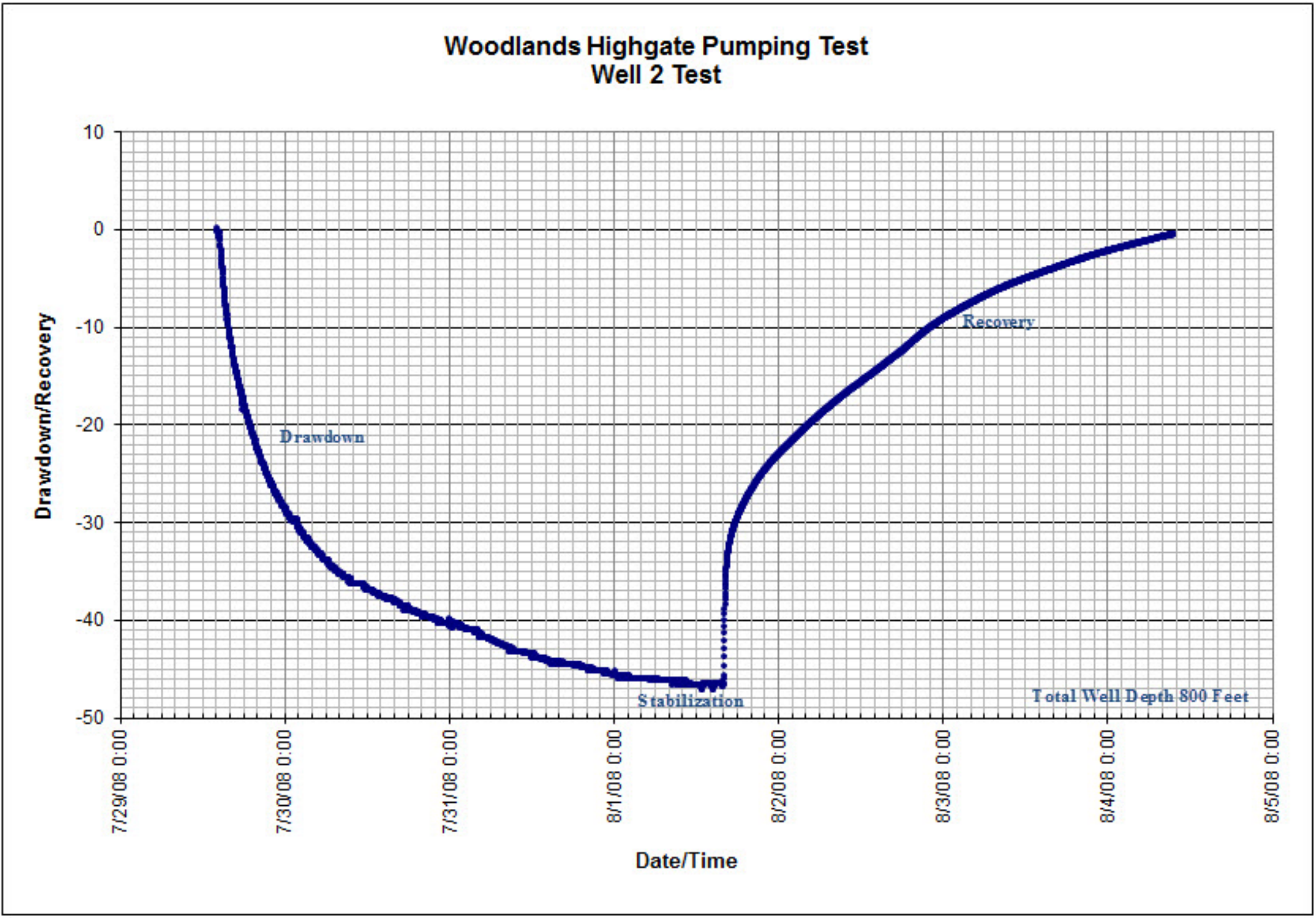
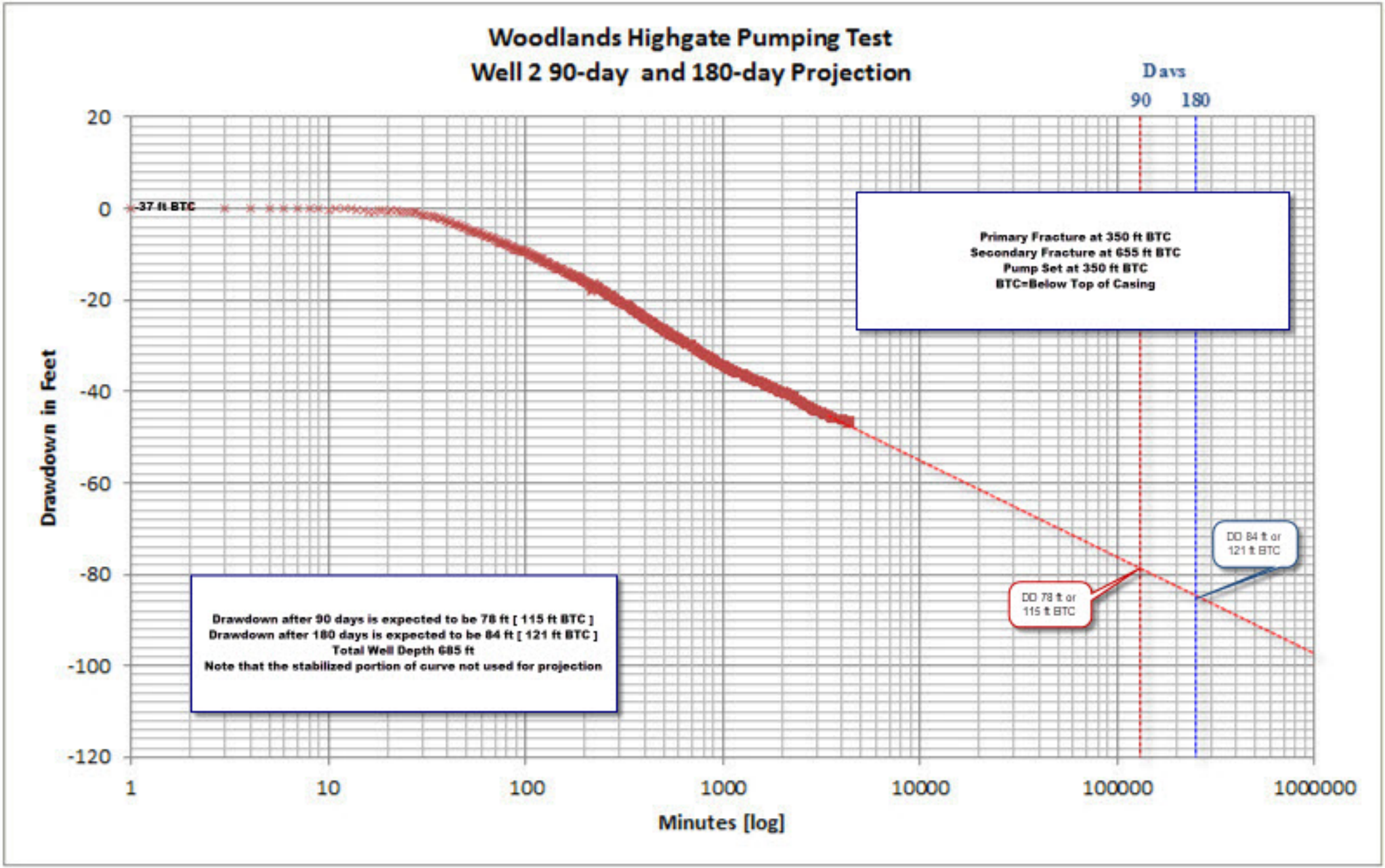
8/4/080:00
8/5/080:00
8/6/080:00
Date/Time

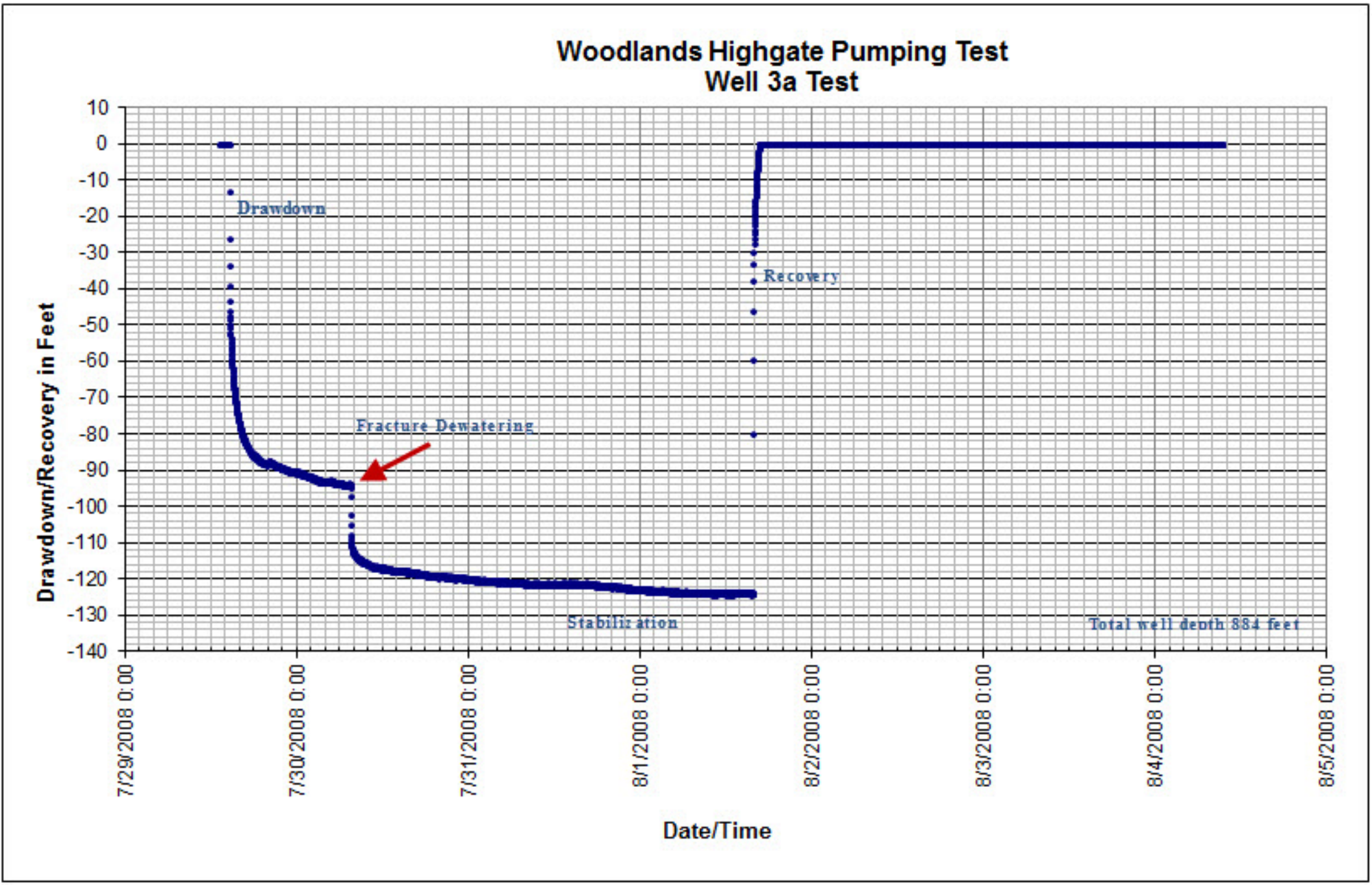

Woodlands Highgate Pumping Test
Pond Shallow Probe
Well 4 Test Period
Common Test Period
0
-0.2
-0.4
-0.6
-0.8
-1
-1.2
-1.4
Water Level Change in Feet
0.9
0.8
1.05
0.3
0.12
0.4
Rain events shown as green arrows
Rain amounts in inches
7/20/08 0:00
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time

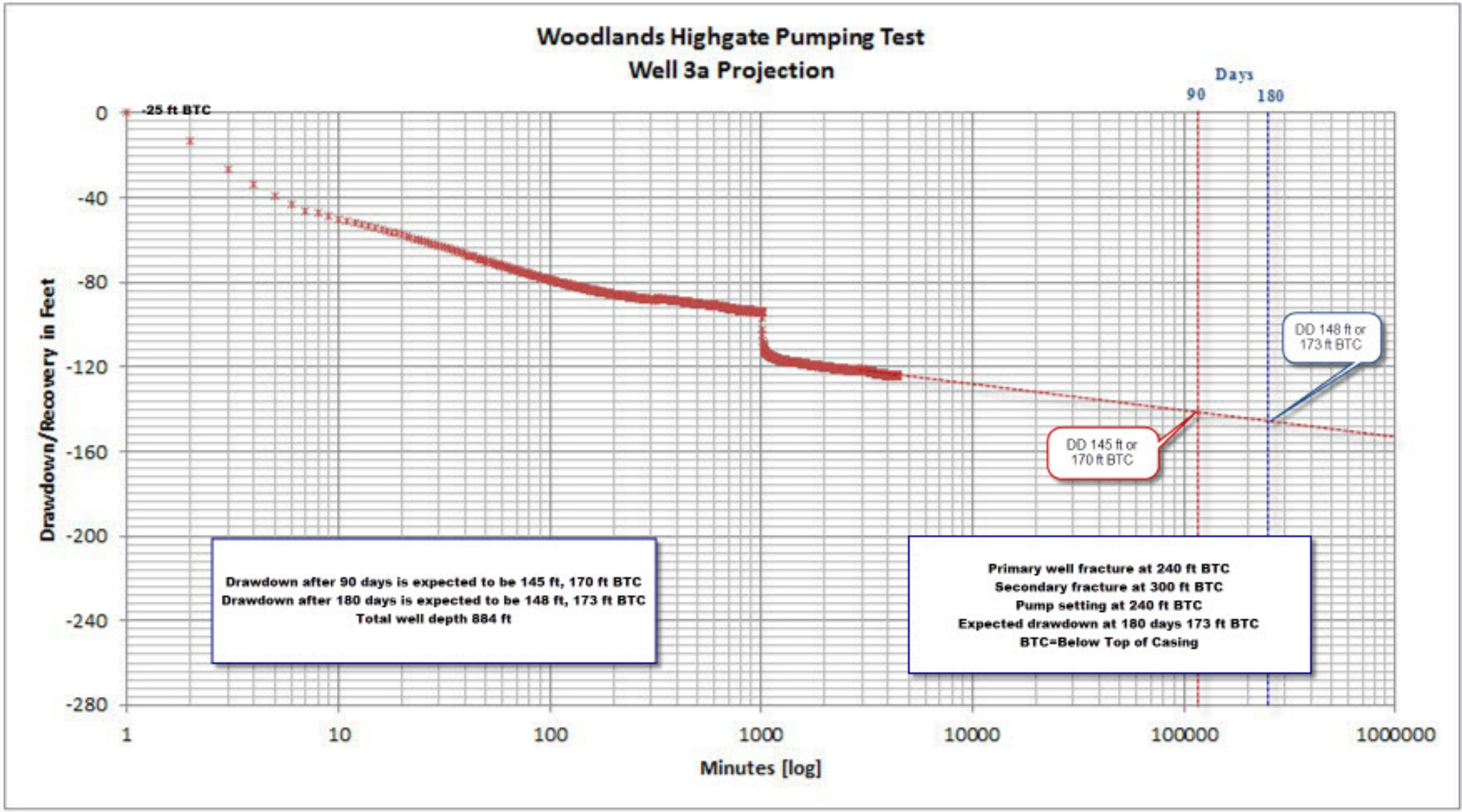

Woodlands Highgate Pumping Test
Well 1 Monitoring during Well 2 Test
Drawdown/Recovery
10
0
-10
-20
-30
-40
Electronic Noise
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
Date/Time

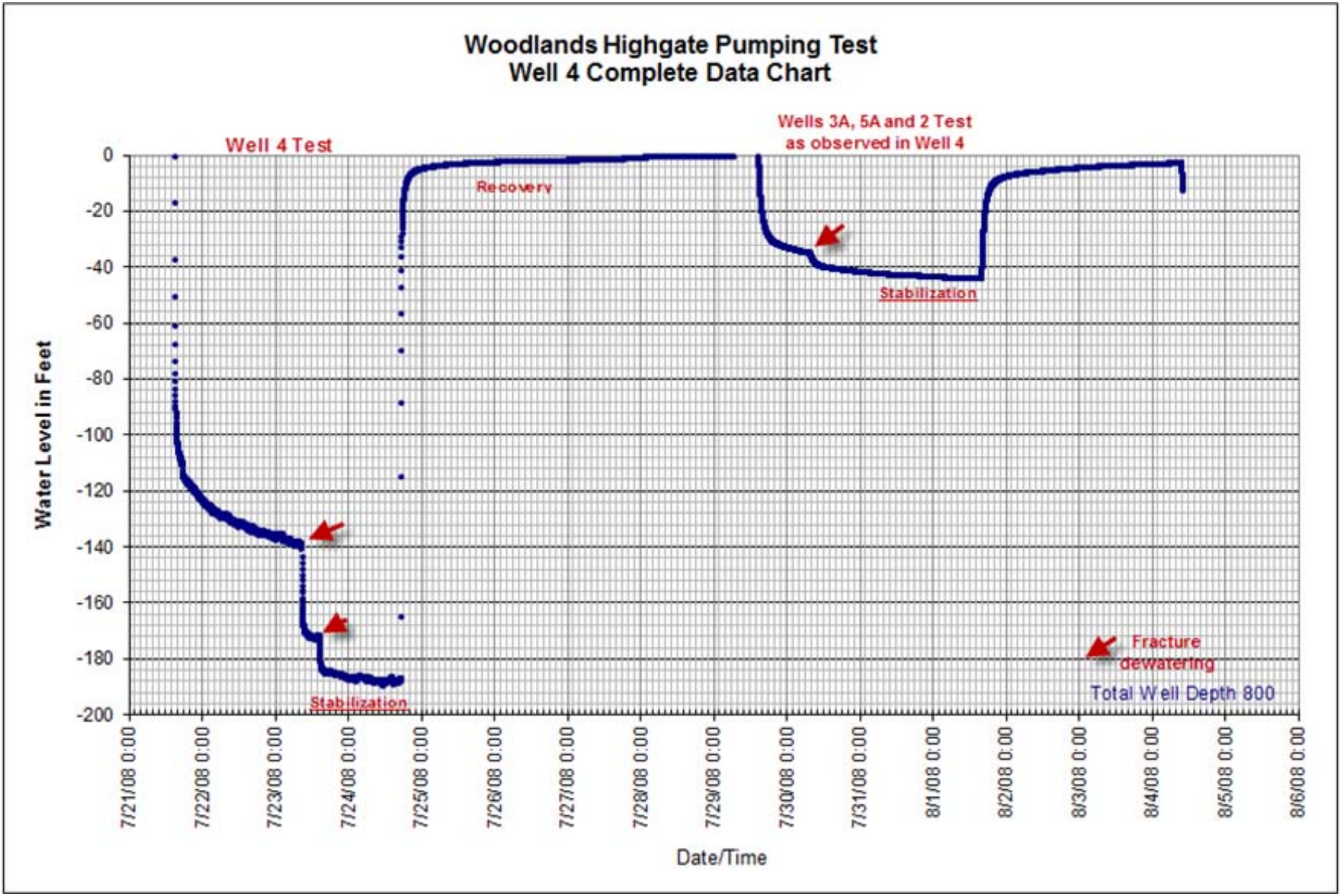

Woodlands Highgate Pumping Test
Well 2 Complete Data
Well 4 Test Period
Common Test Period
Logger removal for pump installation
Drawdown/Recovery in Feet
10
0
-10
-20
-30
-40
-50
7/20/2008 0:00
7/21/2008 0:00
7/22/2008 0:00
7/23/2008 0:00
7/24/2008 0:00
7/25/2008 0:00
7/26/2008 0:00
7/27/2008 0:00
7/28/2008 0:00
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
8/6/2008 0:00
Date/Time

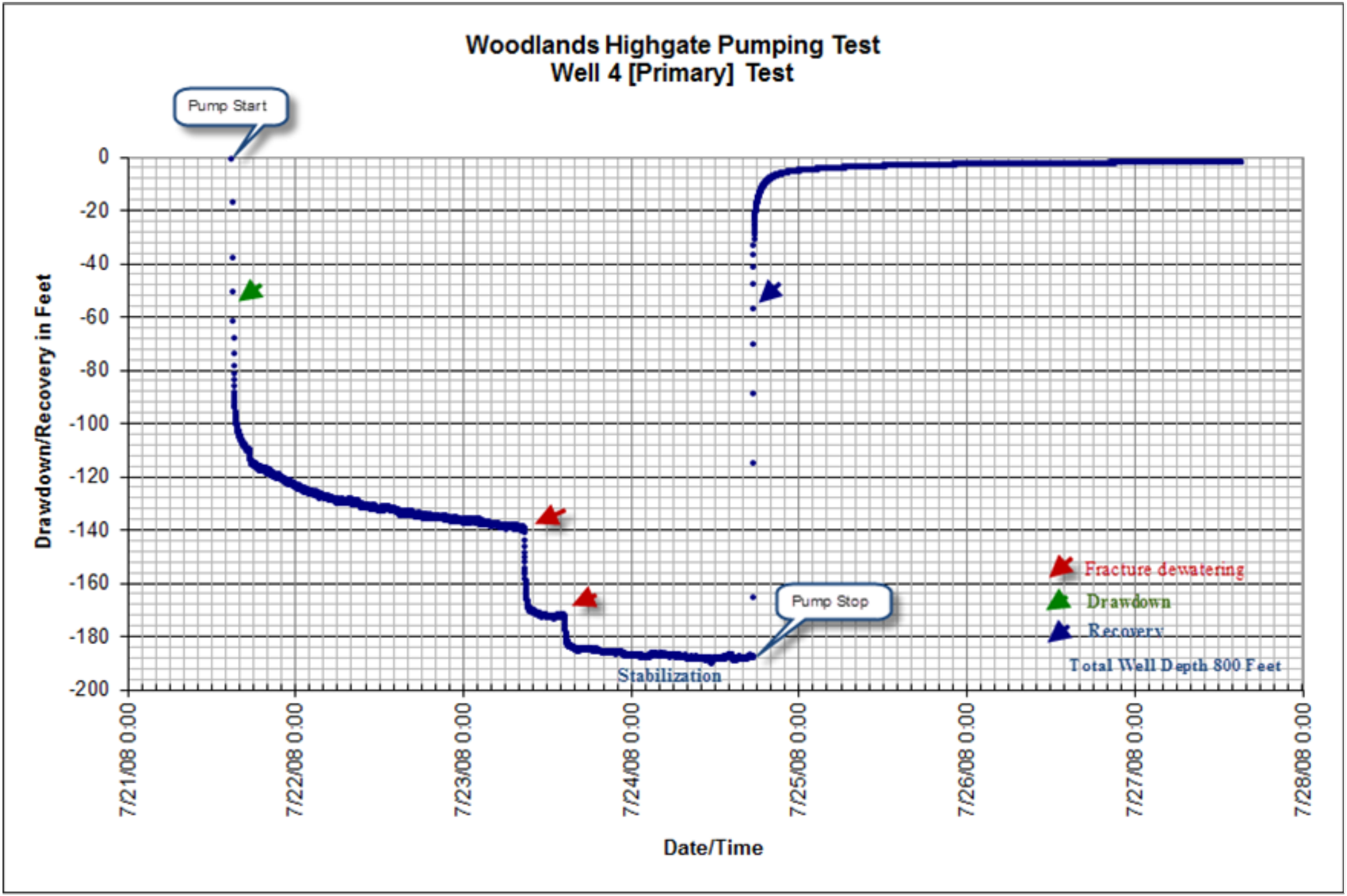

Woodlands Highgate Pumping Test
Well 2 Test
Drawdown/Recovery
10
0
-10
-20
-30
-40
-50
Drawdown
Stabilization
Recovery
Total Well Depth 800 Feet
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
Date/Time

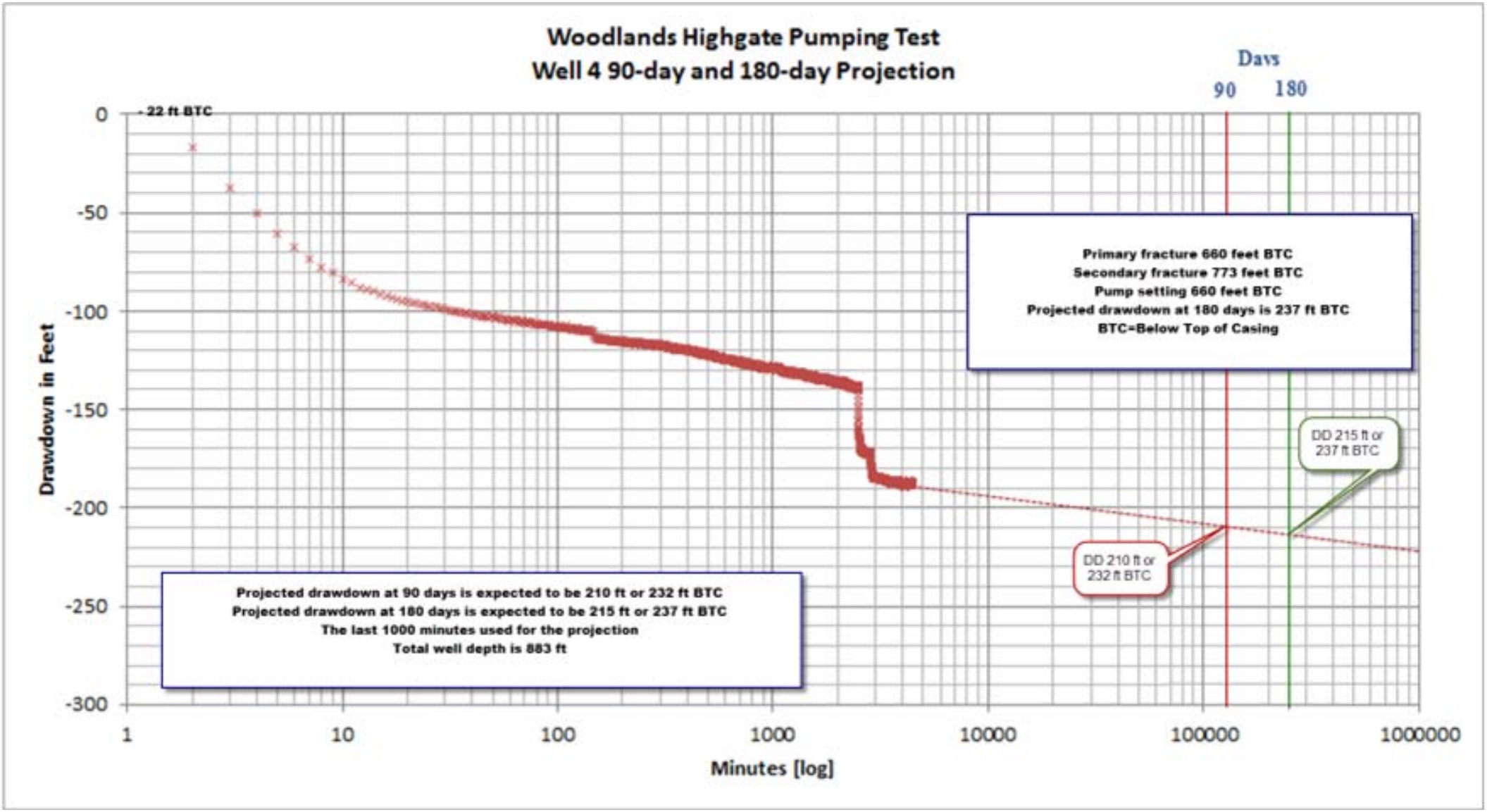

Woodlands Highgate Pumping Test
Well 2 90-day and 180-day Projection
Days
90
180
20
0
-20
-40
-60
-80
-100
-120
Drawdown in Feet
-37 ft BTC
Primary Fracture at 350 ft BTC
Secondary Fracture at 655 ft BTC
Pump Set at 350 ft BTC
BTC=Below Top of Casing
Drawdown after 90 days is expected to be 78 ft [115 ft BTC]
Drawdown after 180 days is expected to be 84 ft [121 ft BTC]
Total Well Depth 685 ft
Note that the stabilized portion of curve not used for projection
DD 78 ft or
115 ft BTC
DD 84 ft or
121 ft BTC
1
10
100
1000
10000
100000
1000000
Minutes [log]

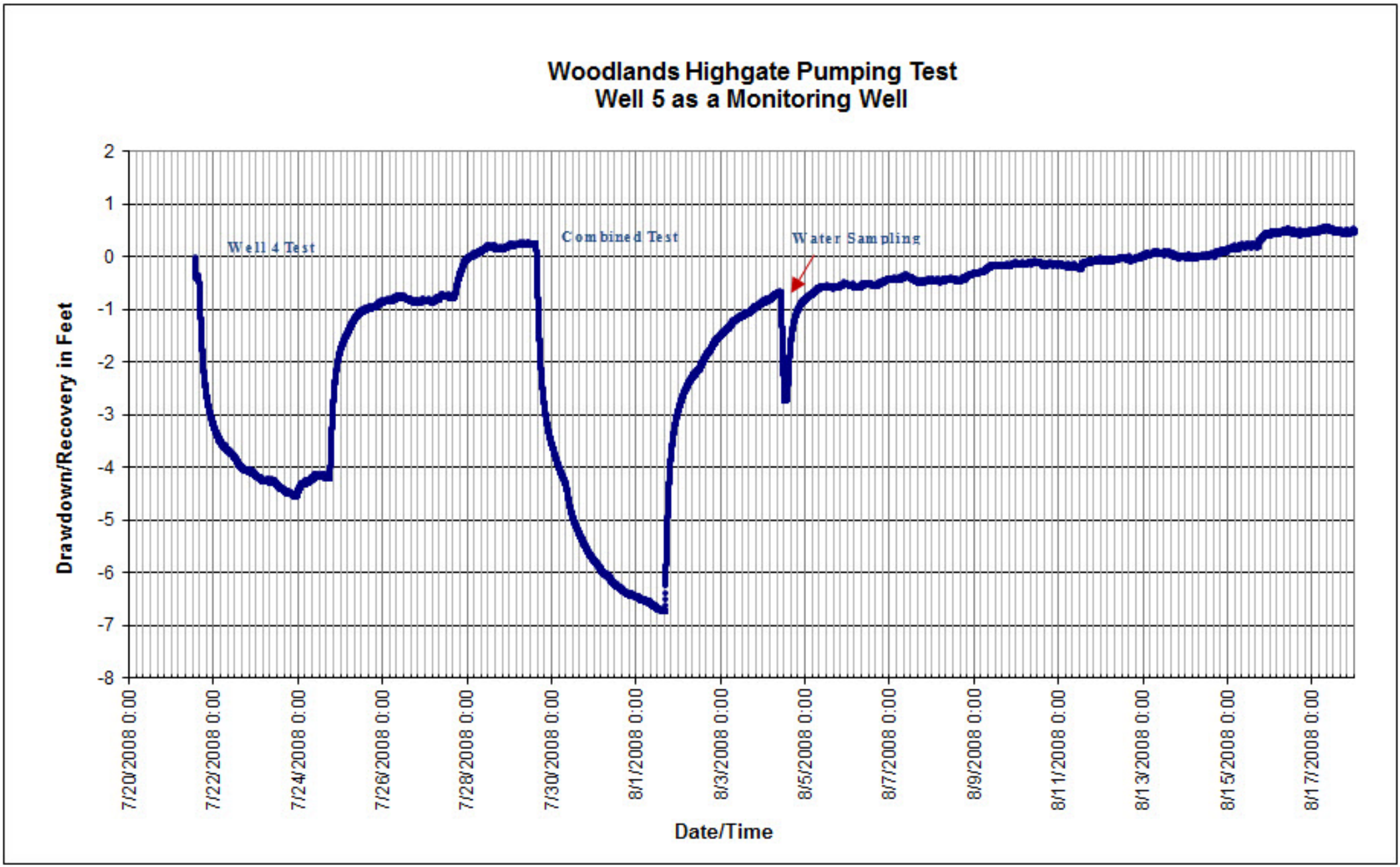

Woodlands Highgate Pumping Test
Well 3a Test
Drawdown/Recovery in Feet
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
Drawdown
Recovery
Fracture Dewatering
Stabilization
Total well depth 884 feet
7/29/2008 0:00
7/30/2008 0:00
7/31/2008 0:00
8/1/2008 0:00
8/2/2008 0:00
8/3/2008 0:00
8/4/2008 0:00
8/5/2008 0:00
Date/Time

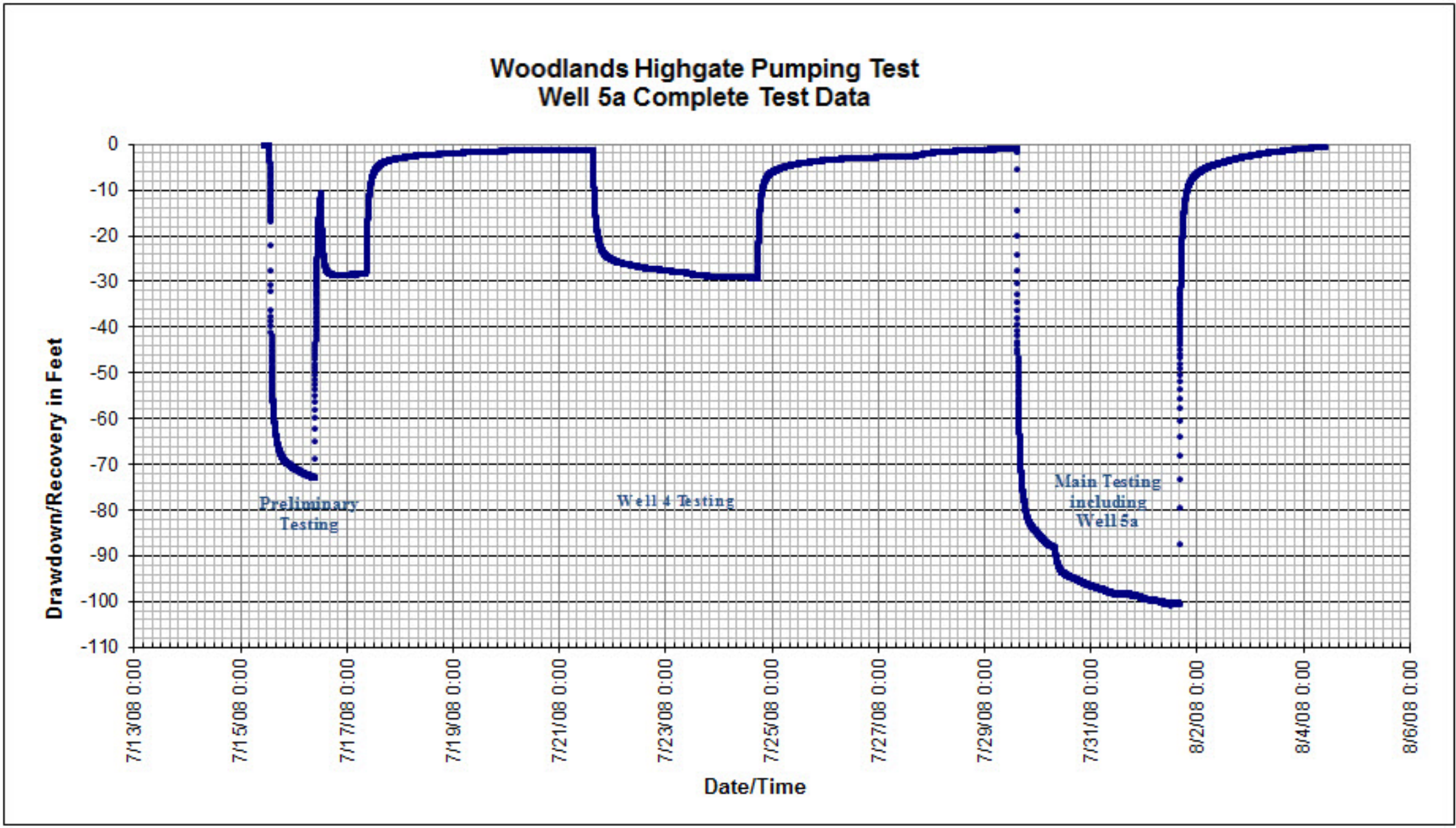

Woodlands Highgate Pumping Test
Well 3a Projection
Days
90
180
-25 ft BTC
0
-40
-80
-120
-160
-200
-240
-280
Drawdown/Recovery in Feet
1
10
100
1000
10000
100000
1000000
Minutes [log]
DD 148 ft or
173 ft BTC
DD 145 ft or
170 ft BTC
Drawdown after 90 days is expected to be 145 ft, 170 ft BTC
Drawdown after 180 days is expected to be 148 ft, 173 ft BTC
Total well depth 884 ft
Primary well fracture at 240 ft BTC
Secondary fracture at 300 ft BTC
Pump setting at 240 ft BTC
Expected drawdown at 180 days 173 ft BTC
BTC=Below Top of Casing

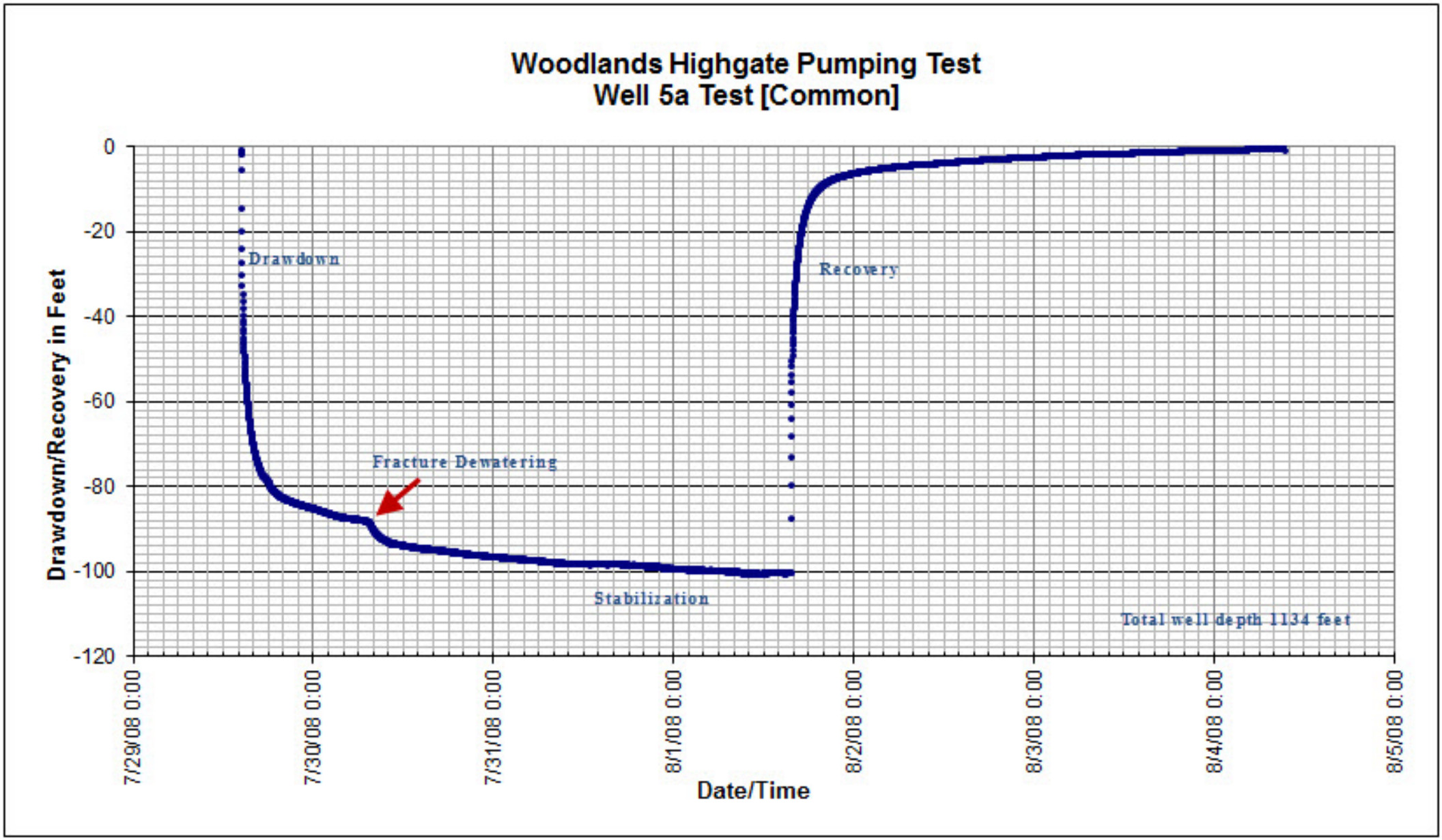

Woodlands Highgate Pumping Test
Well 4 Complete Data Chart
Well 4 Test
Recovery
Wells 3A, 5A and 2 Test
as observed in Well 4
Stabilization
Stabilization
Fracture
dewatering
Total Well Depth 800
Water Level in Feet
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
-200
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
8/6/08 0:00
Date/Time

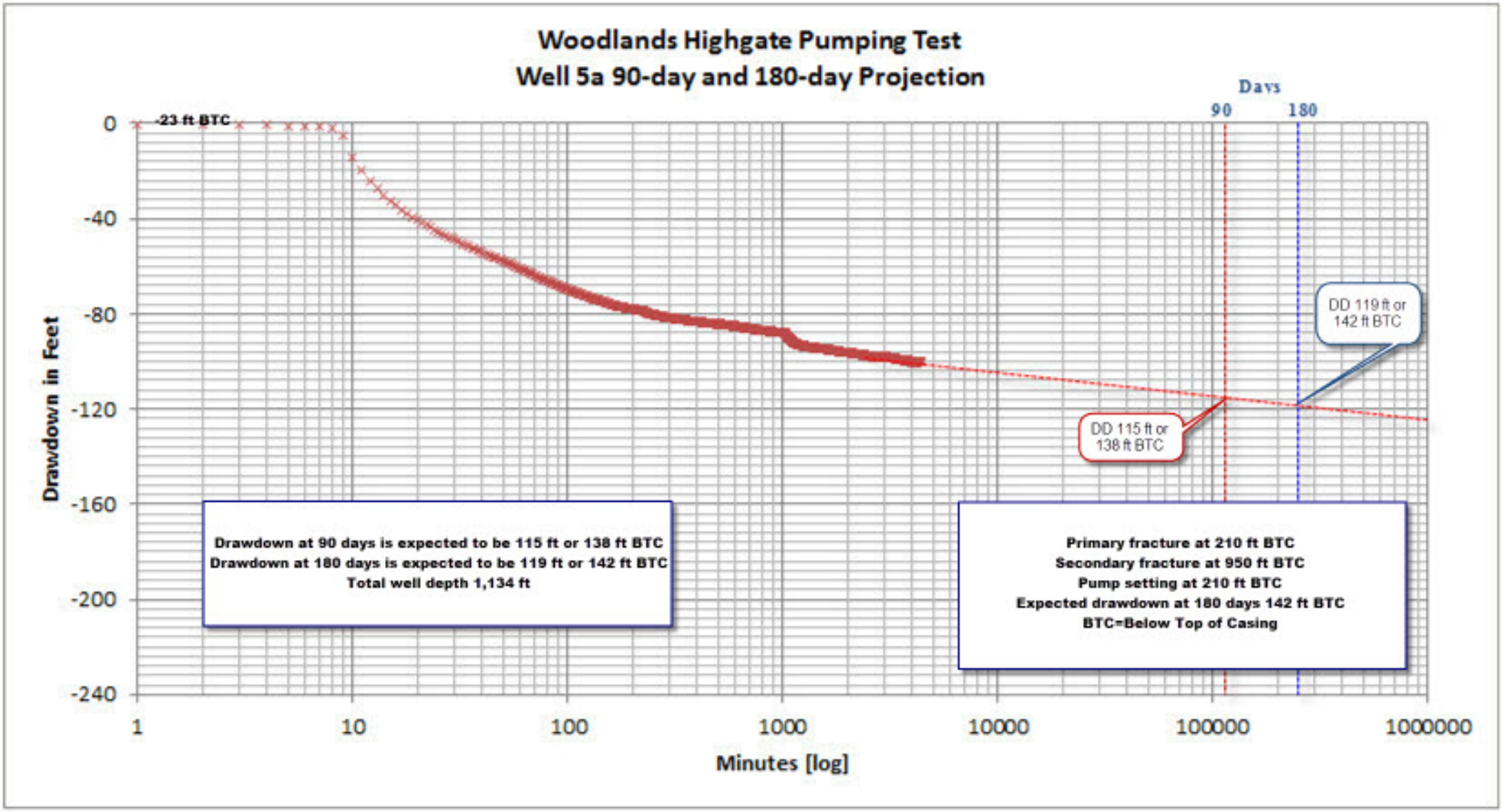

Woodlands Highgate Pumping Test
Well 4 [Primary] Test
Pump Start
Pump Stop
Stabilization
Fracture dewatering
Drawdown
Recovery
Total Well Depth 800 Feet
Drawdown/Recovery in Feet
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
-200
7/21/08 0:00
7/22/08 0:00
7/23/08 0:00
7/24/08 0:00
7/25/08 0:00
7/26/08 0:00
7/27/08 0:00
7/28/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Well 4 90-day and 180-day Projection
Days
90
180
- 22 ft BTC
0
-50
-100
-150
-200
-250
-300
Drawdown in Feet
1
10
100
1000
10000
100000
1000000
Minutes [log]
Primary fracture 660 feet BTC
Secondary fracture 773 feet BTC
Pump setting 660 feet BTC
Projected drawdown at 180 days is 237 ft BTC
BTC=Below Top of Casing
DD 215 ft or
237 ft BTC
DD 210 ft or
232 ft BTC
Projected drawdown at 90 days is expected to be 210 ft or 232 ft BTC
Projected drawdown at 180 days is expected to be 215 ft or 237 ft BTC
The last 1000 minutes used for the projection
Total well depth is 883 ft


Woodlands Highgate Pumping Test
Well 5 as a Monitoring Well
Well 4 Test
Combined Test
Water Sampling
Drawdown/Recovery in Feet
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
7/20/2008 0:00
7/22/2008 0:00
7/24/2008 0:00
7/26/2008 0:00
7/28/2008 0:00
7/30/2008 0:00
8/1/2008 0:00
8/3/2008 0:00
8/5/2008 0:00
8/7/2008 0:00
8/9/2008 0:00
8/11/2008 0:00
8/13/2008 0:00
8/15/2008 0:00
8/17/2008 0:00
Date/Time


Woodlands Highgate Pumping Test
Well 5a Complete Test Data
Drawdown/Recovery in Feet
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
Preliminary Testing
Well 4 Testing
Main Testing including Well 5a
7/13/08 0:00
7/15/08 0:00
7/17/08 0:00
7/19/08 0:00
7/21/08 0:00
7/23/08 0:00
7/25/08 0:00
7/27/08 0:00
7/29/08 0:00
7/31/08 0:00
8/2/08 0:00
8/4/08 0:00
8/6/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Well 5a Test [Common]
Drawdown/Recovery in Feet
0
-20
-40
-60
-80
-100
-120
Drawdown
Recovery
Fracture Dewatering
Stabilization
Total well depth 1134 feet
7/29/08 0:00
7/30/08 0:00
7/31/08 0:00
8/1/08 0:00
8/2/08 0:00
8/3/08 0:00
8/4/08 0:00
8/5/08 0:00
Date/Time


Woodlands Highgate Pumping Test
Well 5a 90-day and 180-day Projection
Days
90
180
-23 ft BTC
0
-40
-80
-120
-160
-200
-240
Drawdown in Feet
DD 119 ft or
142 ft BTC
DD 115 ft or
138 ft BTC
Drawdown at 90 days is expected to be 115 ft or 138 ft BTC
Drawdown at 180 days is expected to be 119 ft or 142 ft BTC
Total well depth 1,134 ft
Primary fracture at 210 ft BTC
Secondary fracture at 950 ft BTC
Pump setting at 210 ft BTC
Expected drawdown at 180 days 142 ft BTC
BTC=Below Top of Casing
1
10
100
1000
10000
100000
1000000
Minutes [log]

Attachment D

Water Quality Analytical Results

Highgate - Woodlands
Sub-Part 5 Analytical
August 4, 2008

Parameter	Method	Standard	W-2	W-3A	W-4	W-5A	Units
1,1,1,2-Tetrachloroethane	EPA 524.2	**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1,1-Trichloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1,2,2-Tetrachloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1,2-Trichloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1-Dichloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1-Dichloroethene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,1-Dichloropropene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2,3-Trichlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2,3-Trichloropropane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2,4-Trichlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2,4-Trimethylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2-Dichlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2-Dichloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,2-Dichloropropane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,3,5-Trimethylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,3-Dichlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,3-Dichloropropane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
1,4-Dichlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
2,2-Dichloropropane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
2-Chlorotoluene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
4-Chlorotoluene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Benzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Bromobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Bromochloromethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Bromomethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Carbon tetrachloride		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chlorobenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chloroethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chloromethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Dibromomethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Dichlorodifluoromethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Ethylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Hexachlorobutadiene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Isopropylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Methyl-tert-butyl-ether (MTBE)		**0.010**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Methylene Chloride		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Styrene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Tetrachloroethene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Toluene		**0.005**	0.0007	<0.0005	<0.0005	<0.0005	mg/L
Trichloroethene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Trichlorofluoromethane		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Vinyl chloride		**0.002**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
cis-1,2-Dichloroethene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
cis-1,3-Dichloropropene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
m&p-Xylene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
n-Butylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
n-Propylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
o-Xylene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
p-Isopropyltoluene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
sec-Butylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
tert-Butylbenzene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
trans-1,2-Dichloroethene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
trans-1,3-Dichloropropene		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Bromodichloromethane		**0.08**[C]	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Bromoform		**0.08**[C]	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chlorodibromomethane		**0.08**[C]	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chloroform		**0.08**[C]	0.0006	<0.0005	<0.0005	<0.0005	mg/L
Total Trihalomethanes		**0.08**[C]	0.0006	<0.0005	<0.0005	<0.0005	mg/L
1,2-Dibromo-3-chloropropane	EPA 504.1	**0.0002**	<0.0005	<0.00001	<0.00001	<0.00001	mg/L
1,2-Dibromoethane (EDB)		**0.00005**	<0.0005	<0.0005	<0.00001	<0.00001	mg/L
Chlordane	EPA 508	**0.002**	<0.00010	<0.00010	<0.0105	<0.00515	mg/L
PCBs as Aroclors (screen)		**0.0005**	Absent	Absent	Absent	Absent	mg/L
Toxaphene		**0.003**	<0.00026	<0.00026	<0.0263	<0.0129	mg/L

Highgate - Woodlands
Sub-Part 5 Analytical
August 4, 2008

Parameter	Method	Standard	W-2	W-3A	W-4	W-5A	Units
2,4,5-TP (Silvex)	EPA 515.3	**0.01**	<0.0003	<0.0003	<0.0003	<0.0003	mg/L
2,4-D		**0.05**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Dalapon		**0.005**	<0.0030	<0.0030	<0.0030	<0.0030	mg/L
Dicamba		**0.005**	<0.0003	<0.0003	<0.0003	<0.0003	mg/L
Dinoseb		**0.007**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Pentachlorophenol		**0.001**	<0.0003	<0.0003	<0.0003	<0.0003	mg/L
Picloram		**0.005**	<0.0003	<0.0003	<0.0003	<0.0003	mg/L
Alachlor	EPA 525.2	**0.002**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Aldrin		**0.005**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Atrazine		**0.003**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Benzo (a) pyrene		**0.0002**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Butachlor		**0.005**	<0.00105	<0.00105	<0.00115	<0.00105	mg/L
Di(2-ethylhexyl)adipate		**0.005**	<0.00211	<0.00211	<0.00230	<0.00211	mg/L
Di(2-ethylhexyl)phthalate		**0.006**	<0.00211	<0.00211	<0.00230	<0.00211	mg/L
Dieldrin		**0.005**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Endrin		**0.002**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
HCH-gamma (Lindane)		**0.0002**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Heptachlor		**0.0004**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Heptachlor epoxide		**0.0002**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Hexachlorobenzene		**0.001**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Hexachlorocyclopentadiene		**0.005**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Methoxychlor		**0.04**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
Metolachlor		**0.005**	<0.00105	<0.00105	<0.00115	<0.00105	mg/L
Metribuzin		**0.005**	<0.00105	<0.00105	<0.00115	<0.00105	mg/L
Propachlor		**0.005**	<0.00105	<0.00105	<0.00115	<0.00105	mg/L
Simazine		**0.004**	<0.00011	<0.00011	<0.00011	<0.00011	mg/L
3-Hydroxycarbofuran	EPA 531.1	**0.005**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Aldicarb		**0.003**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Aldicarb sulfone		**0.002**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Aldicarb sulfoxide		**0.004**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Carbaryl		**0.005**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Carbofuran		**0.04**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Methomyl		**0.005**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Oxamyl		**0.005**	<0.00100	<0.00100	<0.00100	<0.00100	mg/L
Glyphosphate	EPA 547	**0.005**	<0.05	<0.05	<0.05	<0.05	mg/L
Endothall	EPA 548	**0.005**	<9.0	<9.0	<0.0500	<9.0	mg/L
Diquat	EPA 549.2	**0.02**	<0.0008	<0.0008	<0.0008	<0.0008	mg/L
Dibromoacetic Acid	EPA 552.2	**0.06**	<0.0010	<0.0010	<0.0010	<0.0010	mg/L
Dichloroacetic Acid		**0.06**	<0.0010	<0.0010	<0.0010	<0.0010	mg/L
Monobromoacetic Acid		**0.06**	<0.0010	<0.0010	<0.0010	<0.0010	mg/L
Monochloroacetic Acid		**0.06**	<0.0020	<0.0020	<0.0020	<0.0020	mg/L
Trichloroacetic Acid		**0.06**	<0.0010	<0.0010	<0.0010	<0.0010	mg/L
Total HAA's		**0.06**	<0.0010	<0.0010	<0.0010	<0.0010	mg/L
Gross beta	EPA 900.0	**NVA**	5.61	6.68	2.77	3.85	pCi/L
Gross alpha	EPA 900.0	**15**	4.41	13.92	4.14	2.50	pCi/L
Asbestos	EPA 600/4-83-043	**7.0**	<0.14	<0.14	<0.02	<0.14	mf/L
Bromate	EPA 300.1	**0.010**	<2.5	<2.5	<0.0080	<2.5	mg/L
Chlorite	EPA 300.0	**1.0**	<0.02	<0.02	<0.02	<0.02	mg/L
Coliform, Total	9223B	*	Presence	Absence	Absence	Absence	------
E. Coliform	9223B	*	Absence	Absence	Absence	Absence	------
Alkalinity, Total as $CaCO_3$	2320B	**	46.0	60.0	43.0	48.0	mg/L
Corrosivity (Langelier Index)	2330B	**NA**	-1.9	-1.6	-2.4	-1.8	------
Color	2120B	**15 Units**	<5.0	<5.0	<5.0	<5.0	Pt/Co
Chloride	450Cl-C0	**250**	<4.00	<4.00	<4.00	<4.00	mg/L
Fluoride	EPA 340.2	**2.2**	<0.200	<0.200	<0.200	<0.200	mg/L
Hardness, Calcium (as $CaCO_3$)	3500CaD	**150[A]**	58.0	62.0	48.0	54.0	mg/L
Nitrate as N	Lachat	**10**	0.260	0.210	0.260	<0.20	mg/L
Nitrite as N	EPA 354.1	**1**	<0.0100	<0.0100	<0.0100	<0.0100	mg/L
Odor	2150	**3 Units**	None	None	None	None	------
pH	4500H+B	**	6.64	6.78	6.21	6.68	------
Sulfate	EPA 375.4	**250**	16.0	12.0	17.0	13.0	mg/L
Solids, Total Dissolved (TDS)	2540C	**NA**	92.0	97.0	95.0	93.0	mg/L
Turbidity	2130B	**5**	0.130	0.300	0.190	0.270	NTU

Highgate - Woodlands
Sub-Part 5 Analytical
August 4, 2008

Parameter	Method	Standard	W-2	W-3A	W-4	W-5A	Units
Cyanide, Free	4500CN C	**0.2**	<0.004	<0.004	<0.010	<0.004	mg/L
Arsenic (As)	EPA 200.8	**0.010**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Barium (Ba)		**2.00**	0.0565	0.0722	0.0918	0.0734	mg/L
Cadmium (Cd)		**0.005**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Chromium (Cr)		**0.10**	<0.0020	<0.0020	<0.0020	<0.0020	mg/L
Lead (Pb)		**0.015**	0.0008	<0.0005	<0.0005	0.0007	mg/L
Selenium (Se)		**0.05**	<0.0030	<0.0030	<0.0030	<0.0030	mg/L
Silver (Ag)		**0.1**	<0.0006	<0.0006	<0.0006	<0.0006	mg/L
Copper (Cu)		**1.3**	0.0009	0.0006	0.0024	0.0008	mg/L
Antimony (Sb)		**0.006**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Beryllium (Be)		**0.004**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Nickel (Ni)		**0.1**	0.0006	0.0008	0.0011	0.0007	mg/L
Thallium (Tl)		**0.002**	<0.0005	<0.0005	<0.0005	<0.0005	mg/L
Mercury (Hg)	EPA 245.1	**0.002**	<0.0002	<0.0002	<0.0002	<0.0002	mg/L
Iron (Fe)	EPA 200.7	**0.3**	0.010	0.035	0.015	0.031	mg/L
Manganese (Mn)		**0.3**	<0.002	0.010	0.002	0.004	mg/L
Iron & Manganese (Combined)		**0.5**	0.012	0.045	0.017	0.035	mg/L
Sodium (Na)		**20**[B]	3.05	5.38	9.63	3.79	mg/L
Zinc (Zn)		**5.0**	0.358	0.164	0.348	0.338	mg/L
Radium 226	EPA 903.0	**5 Combined**	0.68	1.24	0.62	0.93	pCi/L
Radium 228	EPA 904.0		-0.64	1.08	0.93	0.65	pCi/L
Uranium, U	EPA 200.8	**30**	1.49	13.44	1.49	1.34	mg/L
Uranium, (pci/L)	EPA 200.8	**NVA**	1.00	9.01	1.00	0.90	pCi/L
Giardia				0	0	0	
Cryptosporidium				0	0	0	
MPA				Detected	None	Detected	

Notes:

[A] - Guidance value to determine if the water is hard and is in need for a water softner system and/or a special septic engineer requirements for disposal of calcium build-up.

[B] - Water containing more than 20 mg/L of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/L should not be used for drinking by people on moderately restriced sodium diets.

[C] - Total Trihalomethanes can not exceed 80 ppb, considered a disinfection byproduct.

* - total coliform and e-coli can not be present in water supply systems that are currently supplying water to the puplic.

These samples collected for these spefic wells are raw water samples before any treatment.

** - Alkalinity, Total as CaCO3 ranging from 120-240 mg/L should have a pH of approximatly 7.0.

NA - Not Applicable

mf/L - million fibers per liter

mg/L - milligrams per liter (ppm-parts per million).

pCi/L - picocuries per liter

NVA - no value available

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Sample Number 242079-01
Federal ID
Description W-2
Location
Sample Point

Date Sampled 08/04/08 12:15
Sampler

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
1,1,1,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3,5-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Benzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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502.2 NY VOCs								
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dichlorodifluorometha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Styrene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Toluene	0.0007	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichlorofluoromethan	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,3-Dichloropropen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
m,p-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
o-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,2-Dichloroethe	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,3-Dichloroprop	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 THMs								
Bromodichloromethan	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Bromoform	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Chlorodibromomethan	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Chloroform	0.0006	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Total Trihalomethanes	0.0006	mg/L	EPA 524.2	0.080	08/07/08 6:10	08/07/08 6:10		
504.1 EDB/DBCP								
1,2-Dibromo-3-chloro	< 0.0005	mg/L	EPA 524.2	0.0002	08/06/08 21:21	08/06/08 21:21		
1,2-Dibromoethane (E	< 0.0005	mg/L	EPA 524.2	0.00005	08/06/08 21:21	08/06/08 21:21		
508 SOC PestPCBs								
Chlordane (tech)	< 0.00010	mg/L	EPA 508	0.002	08/19/08 19:47	08/19/08 19:47		
PCBs as Aroclors (scre	Absent	mg/L	EPA 508	0.0005	08/19/08 19:47	08/19/08 19:47		
Toxaphene	< 0.00026	mg/L	EPA 508	0.003	08/19/08 19:47	08/19/08 19:47		
515.3 NY Herb								
2,4,5-TP (Silvex)	< 0.0003	mg/L	EPA 515.3	0.01	08/12/08 6:38	08/12/08 6:38		
2,4-D	< 0.0005	mg/L	EPA 515.3	0.05	08/12/08 6:38	08/12/08 6:38		
Dalapon	< 0.0030	mg/L	EPA 515.3	0.2	08/12/08 6:38	08/12/08 6:38		
Dicamba	< 0.0003	mg/L	EPA 515.3		08/12/08 6:38	08/12/08 6:38		
Dinoseb	< 0.0005	mg/L	EPA 515.3	0.007	08/12/08 6:38	08/12/08 6:38		
Pentachlorophenol	< 0.0003	mg/L	EPA 515.3	0.001	08/12/08 6:38	08/12/08 6:38		
Picloram	< 0.0003	mg/L	EPA 515.3	0.5	08/12/08 6:38	08/12/08 6:38		
525.2 SVOC								
Alachlor	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 18:16	08/20/08 18:16		
Aldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 18:16	08/20/08 18:16		
Atrazine	< 0.00011	mg/L	EPA 525.2	0.003	08/20/08 18:16	08/20/08 18:16		
Benzo (a) pyrene	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:16	08/20/08 18:16		
Butachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:16	08/20/08 18:16		

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
525.2 SVOC								
Di(2-ethylhexyl)adipat	< 0.00211	mg/L	EPA 525.2	0.4	08/20/08 18:16	08/20/08 18:16		S
Di(2-ethylhexyl)phthal	< 0.00211	mg/L	EPA 525.2	0.006	08/20/08 18:16	08/20/08 18:16		
Dieldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 18:16	08/20/08 18:16		
Endrin	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 18:16	08/20/08 18:16		
HCH-gamma (Lindane	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:16	08/20/08 18:16		
Heptachlor	< 0.00011	mg/L	EPA 525.2	0.0004	08/20/08 18:16	08/20/08 18:16		
Heptachlor epoxide	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:16	08/20/08 18:16		
Hexachlorobenzene	< 0.00011	mg/L	EPA 525.2	0.001	08/20/08 18:16	08/20/08 18:16		
Hexachlorocyclopenta	< 0.00011	mg/L	EPA 525.2	0.05	08/20/08 18:16	08/20/08 18:16		
Methoxychlor	< 0.00011	mg/L	EPA 525.2	0.04	08/20/08 18:16	08/20/08 18:16		
Metolachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:16	08/20/08 18:16		
Metribuzin	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:16	08/20/08 18:16		
Propachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:16	08/20/08 18:16		
Simazine	< 0.00011	mg/L	EPA 525.2	0.004	08/20/08 18:16	08/20/08 18:16		
531.1 Carbamates								
3-Hydroxycarbofuran	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Aldicarb	< 0.00100	mg/L	EPA 531.1	0.003	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfone	< 0.00100	mg/L	EPA 531.1	0.002	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfoxide	< 0.00100	mg/L	EPA 531.1	0.004	08/12/08 12:20	08/12/08 12:20		
Carbaryl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Carbofuran	< 0.00100	mg/L	EPA 531.1	0.04	08/12/08 12:20	08/12/08 12:20		
Methomyl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Oxamyl	< 0.00100	mg/L	EPA 531.1	0.2	08/12/08 12:20	08/12/08 12:20		
547 Glyphosate								
Glyphosate	< 0.05	mg/L	EPA 547		08/14/08 20:18	08/14/08 20:18		

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg NY 12721

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Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 9/9/2008
Date Received 8/5/2008
Date Complete 9/9/2008

Sample Number 242079-01
Federal ID
Description W-2
Location
Sample Point

Date Sampled 08/04/08 12:15
Sampler

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
548.1 Endothall								
Endothall	<9.0	æg/L	EPA 548		08/08/08 0:00	08/08/08 0:00		
549.2 Diquat								
Diquat	< 0.0008	mg/L	EPA 549.2		08/19/08 18:00	08/19/08 18:00		
552.2 HAAs								
Dibromoacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Dichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monobromoacetic Aci	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monochloroacetic Aci	< 0.0020	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Trichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Total HAA's	< 0.0010	mg/L	EPA 552.2	0.060	08/08/08 10:39	08/08/08 10:39		
ALPHABETA								
Gross Beta	5.61	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
Gross Alpha	4.41	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
ASBESTOS								
Asbestos in Water	see attached						OL	AM
BROMATE								
Bromate	<2.5	æg/L	EPA 300.1		08/20/08 19:44	08/20/08 19:44		BM
Chlorite								
Chlorite	< 0.02	mg/L	EPA 300.0		08/13/08 12:48	08/13/08 12:48		BM
Part V Inorganics								
Total coliform (ONPG)	presence		9223B			08/04/08 16:00	LM	
E. coli	absence		9223B			08/04/08 16:00	LM	
Alkalinity as CaCO3	46.0	mg/L	2320B			08/12/08 0:00	SM	
Corrosivity Index (LI)	-1.9		2330B			08/19/08 0:00	LM	
Color	<5.0		2120B			08/05/08 14:50	SM	

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Part V Inorganics								
Chloride	<4.00	mg/L	450Cl-C0			08/05/08 0:00	LM	
Fluoride	<0.200	mg/L	EPA 340.2			08/05/08 0:00	LM	
Hardness as CaCO3, C	58.0	mg/L	3500CaD			08/05/08 13:40	SM	
Nitrate as N	0.260	mg/L	Lachat			08/06/08 0:00	LM	
Nitrite as N	<0.0100	mg/L	EPA 354.1			08/05/08 11:30	SM	
Odor	none		2150			08/04/08 16:20	LM	
pH	6.64		4500H+B			08/04/08 16:20	LM	
Sulfate	16.0	mg/L	EPA 375.4			08/14/08 0:00	LM	
Solids, Dissolved Total	92.0	mg/L	2540C			08/05/08 0:00	KG	
Turbidity	0.130	mg/L	2130B			08/05/08 15:00	SM	
Cyanide, Free	<0.004	mg/L	4500CN C			08/07/08 8:45	BA	BM
Part V Metals								
Arsenic, As	< 0.0005	mg/L	EPA 200.8	0.01	08/07/08 19:20	08/07/08 19:20		
Barium, Ba	0.0565	mg/L	EPA 200.8	2.00	08/07/08 19:20	08/07/08 19:20		
Cadmium, Cd	< 0.0005	mg/L	EPA 200.8	0.005	08/07/08 19:20	08/07/08 19:20		
Chromium, Cr	< 0.0020	mg/L	EPA 200.8	0.10	08/07/08 19:20	08/07/08 19:20		
Lead, Pb	0.0008	mg/L	EPA 200.8	0.015	08/11/08 18:29	08/11/08 18:29		
Mercury, Hg	< 0.0002	mg/L	EPA 245.1	0.002	08/07/08 13:03	08/07/08 13:03		
Selenium, Se	< 0.0030	mg/L	EPA 200.8	0.05	08/07/08 19:20	08/07/08 19:20		
Silver, Ag	< 0.0006	mg/L	EPA 200.8		08/11/08 19:19	08/11/08 19:19		
Copper, Cu	0.0009	mg/L	EPA 200.8	1.3	08/07/08 19:20	08/07/08 19:20		
Iron, Fe	0.010	mg/L	EPA 200.7	0.3	08/07/08 19:39	08/07/08 19:39		
Manganese, Mn	< 0.002	mg/L	EPA 200.7	0.3	08/07/08 19:39	08/07/08 19:39		
Sodium, Na	3.05	mg/L	EPA 200.7		08/07/08 19:39	08/07/08 19:39		
Zinc, Zn	0.358	mg/L	EPA 200.7		08/07/08 19:39	08/07/08 19:39		
Antimony, Sb	< 0.0005	mg/L	EPA 200.8	0.006	08/07/08 19:20	08/07/08 19:20		
Beryllium, Be	< 0.0005	mg/L	EPA 200.8	0.004	08/07/08 19:20	08/07/08 19:20		

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Sampler

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
Part V Metals								
Nickel, Ni	0.0006	mg/L	EPA 200.8		08/07/08 19:20	08/07/08 19:20		
Thallium, Tl	< 0.0005	mg/L	EPA 200.8	0.002	08/07/08 19:20	08/07/08 19:20		
R226								
Radium 226	0.68	pCi/L	EPA 903.0		08/23/08 0:00	08/23/08 0:00		BMC
R228								
Radium 228	-0.64	pCi/L	EPA 904.0		08/14/08 0:00	08/14/08 0:00		BMC
URANIUM								
Uranium, U	1.49	pCi/L	EPA 200.8	30	08/08/08 0:00	08/11/08 13:25		BMC
Uranium (pci/L)	1.00	pCi/L	EPA 200.8		08/08/08 0:00	08/11/08 13:25		BMC

VOC's, SOC's Metals analyzed by Benchmark Analytics NELAP#11216

Qualifiers
S = Spike Recovery outside accepted recovery limits
AM = Analysis by Amerisci NELAP#11480
BM = Analysis performed by Benchmark Analytics NELAP#11216

Approved By David M Kennedy
David Kennedy
Technical Director

AmeriSci Job #: **208081671**

Client Name: OCL Analytical Services

Table I

Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

Jon Dahlgren/Tim Miller Assoc.; 10 North St., Cold Spring, NY 10516

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01 W2	242079-01	0.015	0	NSD	NSD	0.14	<0.14	<0.14	----

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter. NYSDOH ELAP LAB ID 11480.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are i within four hours and refrigerated when necessary.

Reviewed By: _____ ; Analyzed By: _____ Date: 8/12/08

Marik Peysakhov

P.022/046

(FAX)

11/12/2008 10:57

CHAIN OF CUSTODY

OCL Analytical Services
35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	Jan DeVlieger Tim Miller Assoc
Address	10 North St.
City, State, Zip	Cold Spring NY 10516
Phone	845 265 4400

208081671

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c)
Sample rec'd on ice?
Sample set up in 6 hr?
Properly preserved?
Within holding times?
Reviewed by

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required Complete SOC Testing	Results
242019-01	W	8-4	12:15		✓	W2	1 L P	None		Asbestos *48hr HT*	
					✓		2 40ml G	thio		EPA 504	
					✓		2 1L G	thio		EPA 508	
					✓		1 250ml G	thio		EPA 515.3	
					✓		2 1L G	sulfite		EPA 525.2	
					✓		2 40ml G	thio		EPA 531.1	
					✓		1 1L G	thio		extra sample	
					✓		3 40ml G	thio		EPA 547 Glyphosate	
					✓		1 250ml G	none		EPA 548 Endothall	
					✓		1 1L G	thio		EPA 549 Diquat	
					✓		2-40 vials	Na_2SO_3		THM	
					✓		250ml G	NH4Cl		HAA	

Comments/Special Instructions:

Rush Requested? Client Code: Prepaid?

Sampled By:	print Steven Cutrignola	date: 08/04/08	Received By:	print K Powell	date: 8/4/08
	sign Steven Cutrignola (AM)	time: 21:20		sign	time: 2:30
Relinquished By:	print	date: 8/4/08	Received By:	print [illegible]	date: 8/5
	sign	time: 1530		sign	time: 12:1
Relinquished By:	print	date:	Received By:	print	date:
	sign	time:		sign	time:

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Description W-3A
Location
Sample Point

Date Sampled 08/04/08 11:00
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
1,1,1,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3,5-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Benzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dichlorodifluorometha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Styrene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Toluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichlorofluoromethan	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,3-Dichloropropen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
m,p-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
o-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,2-Dichloroethe	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,3-Dichloroprop	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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502.2 THMs								
Bromodichloromethan	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Bromoform	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Chlorodibromomethan	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Chloroform	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Total Trihalomethanes	< 0.0005	mg/L	EPA 524.2	0.080	08/07/08 6:10	08/07/08 6:10		
504.1 EDB/DBCP								
1,2-Dibromo-3-chloro	< 0.00001	mg/L	EPA 504.1	0.0002	08/15/08 1:09	08/15/08 1:09		
1,2-Dibromoethane (E	< 0.0005	mg/L	EPA 524.2	0.00005	08/06/08 21:21	08/06/08 21:21		
508 SOC PestPCBs								
Chlordane (tech)	< 0.00010	mg/L	EPA 508	0.002	08/19/08 21:02	08/19/08 21:02		
PCBs as Aroclors (scre	Absent	mg/L	EPA 508	0.0005	08/19/08 21:02	08/19/08 21:02		
Toxaphene	< 0.00026	mg/L	EPA 508	0.003	08/19/08 21:02	08/19/08 21:02		
515.3 NY Herb								
2,4,5-TP (Silvex)	< 0.0003	mg/L	EPA 515.3	0.01	08/12/08 6:38	08/12/08 6:38		
2,4-D	< 0.0005	mg/L	EPA 515.3	0.05	08/12/08 6:38	08/12/08 6:38		
Dalapon	< 0.0030	mg/L	EPA 515.3	0.2	08/12/08 6:38	08/12/08 6:38		
Dicamba	< 0.0003	mg/L	EPA 515.3		08/12/08 6:38	08/12/08 6:38		
Dinoseb	< 0.0005	mg/L	EPA 515.3	0.007	08/12/08 6:38	08/12/08 6:38		
Pentachlorophenol	< 0.0003	mg/L	EPA 515.3	0.001	08/12/08 6:38	08/12/08 6:38		
Picloram	< 0.0003	mg/L	EPA 515.3	0.5	08/12/08 6:38	08/12/08 6:38		
525.2 SVOC								
Alachlor	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 18:50	08/20/08 18:50		
Aldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 18:50	08/20/08 18:50		
Atrazine	< 0.00011	mg/L	EPA 525.2	0.003	08/20/08 18:50	08/20/08 18:50		
Benzo (a) pyrene	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:50	08/20/08 18:50		
Butachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:50	08/20/08 18:50		

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Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
525.2 SVOC								
Di(2-ethylhexyl)adipat	< 0.00211	mg/L	EPA 525.2	0.4	08/20/08 18:50	08/20/08 18:50		S
Di(2-ethylhexyl)phthal	< 0.00211	mg/L	EPA 525.2	0.006	08/20/08 18:50	08/20/08 18:50		
Dieldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 18:50	08/20/08 18:50		
Endrin	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 18:50	08/20/08 18:50		
HCH-gamma (Lindane	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:50	08/20/08 18:50		
Heptachlor	< 0.00011	mg/L	EPA 525.2	0.0004	08/20/08 18:50	08/20/08 18:50		
Heptachlor epoxide	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 18:50	08/20/08 18:50		
Hexachlorobenzene	< 0.00011	mg/L	EPA 525.2	0.001	08/20/08 18:50	08/20/08 18:50		
Hexachlorocyclopenta	< 0.00011	mg/L	EPA 525.2	0.05	08/20/08 18:50	08/20/08 18:50		
Methoxychlor	< 0.00011	mg/L	EPA 525.2	0.04	08/20/08 18:50	08/20/08 18:50		
Metolachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:50	08/20/08 18:50		
Metribuzin	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:50	08/20/08 18:50		
Propachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 18:50	08/20/08 18:50		
Simazine	< 0.00011	mg/L	EPA 525.2	0.004	08/20/08 18:50	08/20/08 18:50		
531.1 Carbamates								
3-Hydroxycarbofuran	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Aldicarb	< 0.00100	mg/L	EPA 531.1	0.003	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfone	< 0.00100	mg/L	EPA 531.1	0.002	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfoxide	< 0.00100	mg/L	EPA 531.1	0.004	08/12/08 12:20	08/12/08 12:20		
Carbaryl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Carbofuran	< 0.00100	mg/L	EPA 531.1	0.04	08/12/08 12:20	08/12/08 12:20		
Methomyl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Oxamyl	< 0.00100	mg/L	EPA 531.1	0.2	08/12/08 12:20	08/12/08 12:20		
547 Glyphosate								
Glyphosate	< 0.05	mg/L	EPA 547		08/14/08 20:18	08/14/08 20:18		

OCL Analytical Services
35 Goshen Turnpike
Bloomingburg NY 12721

Phone 845-733-1557
Fax 845-733-1944
Web odanalytical.com

Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 9/9/2008
Date Received 8/5/2008
Date Complete 9/9/2008

Sample Number 242080-01
Federal ID
Description W-3A
Location
Sample Point

Date Sampled 08/04/08 11:00
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
548.1 Endothall								
Endothall	<9.0	æg/L	EPA 548		08/08/08 0:00	08/08/08 0:00		
549.2 Diquat								
Diquat	< 0.0008	mg/L	EPA 549.2		08/19/08 18:00	08/19/08 18:00		
552.2 HAAs								
Dibromoacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Dichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monobromoacetic Aci	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monochloroacetic Aci	< 0.0020	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Trichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Total HAA's	< 0.0010	mg/L	EPA 552.2	0.060	08/08/08 10:39	08/08/08 10:39		
ALPHABETA								
Gross Beta	6.68	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
Gross Alpha	13.92	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
ASBESTOS								
Asbestos in Water	see attached						OL	AM
BROMATE								
Bromate	<2.5	æg/L	EPA 300.1		08/20/08 14:06	08/20/08 14:06		BM
Chlorite								
Chlorite	< 0.02	mg/L	EPA 300.0		08/13/08 13:11	08/13/08 13:11		BM
GIARDIA (cubit)								
Giardia/Cryptosporidia	see attached					08/18/08 0:00	OL	MV
MPA								
Microscopic Particulat	see attached						OL	MV

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Sample Number 242080-01
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Location
Sample Point

Date Sampled 08/04/08 11:00
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
Part V Inorganics								
Total coliform (ONPG)	absence		9223B			08/04/08 16:00	LM	
E. coli	absence		9223B			08/04/08 16:00	LM	
Alkalinity as CaCO3	60.0	mg/L	2320B			08/12/08 0:00	KG	
Corrosivity Index (LI)	-1.6		2330B			08/19/08 0:00	LM	
Color	<5.0		2120B			08/05/08 14:50	SM	
Chloride	<4.00	mg/L	450Cl-C0			08/05/08 0:00	LM	
Fluoride	<0.200	mg/L	EPA 340.2			08/05/08 0:00	LM	
Hardness as CaCO3, C	62.0	mg/L	3500CaD			08/05/08 13:40	SM	
Nitrate as N	0.210	mg/L	Lachat			08/06/08 0:00	LM	
Nitrite as N	<0.0100	mg/L	EPA 354.1			08/05/08 11:30	SM	
Odor	none		2150			08/04/08 16:30	LM	
pH	6.78		4500H+B			08/04/08 16:20	LM	
Sulfate	12.0	mg/L	EPA 375.4			08/14/08 0:00	LM	
Solids, Dissolved Total	97.0	mg/L	2540C			08/05/08 0:00	KG	
Turbidity	0.300	mg/L	2130B			08/05/08 15:00	SM	
Cyanide (total)	<0.004	mg/L	4500CN C			08/07/08 8:45	BA	BM
Part V Metals								
Arsenic, As	< 0.0005	mg/L	EPA 200.8	0.01	08/07/08 19:25	08/07/08 19:25		
Barium, Ba	0.0722	mg/L	EPA 200.8	2.00	08/07/08 19:25	08/07/08 19:25		
Cadmium, Cd	< 0.0005	mg/L	EPA 200.8	0.005	08/07/08 19:25	08/07/08 19:25		
Chromium, Cr	< 0.0020	mg/L	EPA 200.8	0.10	08/07/08 19:25	08/07/08 19:25		
Lead, Pb	< 0.0005	mg/L	EPA 200.8	0.015	08/07/08 19:25	08/07/08 19:25		
Mercury, Hg	< 0.0002	mg/L	EPA 245.1	0.002	08/07/08 13:05	08/07/08 13:05		
Selenium, Se	< 0.0030	mg/L	EPA 200.8	0.05	08/07/08 19:25	08/07/08 19:25		
Silver, Ag	< 0.0006	mg/L	EPA 200.8		08/11/08 19:25	08/11/08 19:25		
Copper, Cu	0.0006	mg/L	EPA 200.8	1.3	08/07/08 19:25	08/07/08 19:25		
Iron, Fe	0.035	mg/L	EPA 200.7	0.3	08/07/08 19:45	08/07/08 19:45		

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Project
Date Reported 9/9/2008
Date Received 8/5/2008
Date Complete 9/9/2008

Sample Number 242080-01
Federal ID
Description W-3A
Location
Sample Point

Date Sampled 08/04/08 11:00
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
Part V Metals								
Manganese, Mn	0.010	mg/L	EPA 200.7	0.3	08/07/08 19:45	08/07/08 19:45		
Sodium, Na	5.38	mg/L	EPA 200.7		08/07/08 19:45	08/07/08 19:45		
Zinc, Zn	0.164	mg/L	EPA 200.7		08/07/08 19:45	08/07/08 19:45		
Antimony, Sb	< 0.0005	mg/L	EPA 200.8	0.006	08/07/08 19:25	08/07/08 19:25		
Beryllium, Be	< 0.0005	mg/L	EPA 200.8	0.004	08/07/08 19:25	08/07/08 19:25		
Nickel, Ni	0.0008	mg/L	EPA 200.8		08/07/08 19:25	08/07/08 19:25		
Thallium, Tl	< 0.0005	mg/L	EPA 200.8	0.002	08/07/08 19:25	08/07/08 19:25		
R226								
Radium 226	1.24	pCi/L	EPA 903.0		08/23/08 0:00	08/23/08 0:00		BMC
R228								
Radium 228	1.08	pCi/L	EPA 904.0		08/14/08 0:00	08/14/08 0:00		BMC
URANIUM								
Uranium, U	13.44	æg/L	EPA 200.8	30	08/11/08 13:31	08/11/08 13:31		BMC
Uranium (pci/L)	9.01	pCi/L	EPA 200.8		08/11/08 13:31	08/11/08 13:31		BMC

VOC's, SOC's Metals analyzed by Benchmark Analytics NELAP#11216

Qualifiers

S = Spike Recovery outside accepted recovery limits
AM = Analysis by Amerisci NELAP#11480
BM = Analysis performed by Benchmark Analytics NELAP#11216
BMC = Analysis by Benchmark Analytics, Center Valley NELAP#11827
MV = Analysis by Mohawk Valley Water Authority

Approved By David M Kennedy

David Kennedy
Technical Director

meriSci Job #: **208081673**
Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

Jon Dahlgren/Tim Miller Assoc.; 10 North St., Cold Spring, NY 10516

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	242080-4 W-3A	0.015	0	NSD	NSD	0.14	<0.14	<0.14	---

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter. NYSDOH ELAP LAB ID 11480.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are filtered within four hours and refrigerated when necessary.

Reviewed By: _____ ; Analyzed By: _____ Date: 8/12/08

Marik Peysakhov

OCL Analytical Services

35 Goshen Turnpike, Bloomingburg, NY 12721
Phone (845)733-1557 Fax (845)733-1944

Client:

Name	Jon DahlGren Tim Miller Assoc
Address	10 North St.
City, State, Zip	Cold Spring NY 10516
Phone	845 265 4400

20808173

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c) 12.7
Sample rec'd on ice? ✓
Sample set up in 6 hr? ✓
Properly preserved? ✓
Within holding times? ✓
Reviewed by

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required Complete SOC Testing	Results
24280-4	W	8.4	1100		X	W-3A	1L P	None		Asbestos *48hr HT*	
					X	W-3A	2 40ml G	thio		EPA 504	
					X	W 3A	2 1L G	thio		EPA 508	
					✓	W 3A	1 250ml G	thio		EPA 515.3	
					✓	W 3A	2 1L G	sulfite		EPA 525.2	
					✓	W 3A	2 40ml G	thio		EPA 531.1	
					✓	W 3A	1 1L G	thio		extra sample	
					✓	W 3A	3 40ml G	thio		EPA 547 Glyphosate	
					✓	W 3A	1 250ml G	none		EPA 548 Endothall	
					✓	W 3A	1 1L G	thio		EPA 549 Diquat	
					✓	W 3A	2-40mm vials	Na_2SO_3		THM	
					✓	W 3A	250mL G	HCl		HAA	

Comments/Special Instructions:

Rush Requested? ____ Client Code: ____ Prepaid? ____

Sampled By:	print	Steven Cutinghole	date: 8/04/08	Received By:	print	V Powell	date: 8/4/08
	sign	Steve Cutinghole	time: 2:20		sign		time: 2:14
Relinquished By:	print		date: 8/4/08	Received By:	print		date:
	sign	(Via)	time: 1530		sign		time:
Relinquished By:	print		date:	Received By:	print		date: 8/5
	sign		time:		sign		time: 10:15

11/12/2008 10:58 (FAX) P.031/046

MOHAWK VALLEY WATER AUTHORITY

Final Result Report for *Giardia/Cryptosporidium*

Sample ID:	**08/04/08 OCL – WOODLANDS W3A**
LIMS #:	**24086**
Client:	**#591 – OCL Analytical Services**
Source:	**Woodlands W3A**

QUALITY CONTROL

Weekly Method Blank	***Giardia* Count: 0**	***Cryptosporidium* Count: 0**
Weekly OPR Sample	***Giardia* % Recovery: 42.0**	***Cryptosporidium* % Recovery: 22.0**

SAMPLE RESULTS

	Total FA Count	Volume Analyzed	# cysts/L
Giardia	0	10.0 L	0.000

	Total FA Count	Volume Analyzed	# oocysts/L
Cryptosporidium	0	10.0 L	0.000

MATRIX SPIKE RESULTS

	# Spiked:	# Recovered:	% Recovery
Giardia	N/A		

	# Spiked:	# Recovered:	% Recovery
Cryptosporidium	N/A		

Approved:

Philip A. Tangorra
QA Officer

1 Kennedy Plaza • PO Box 345 • Utica, NY 13503-0345 • Telephone (315) 792-0301 • Fax (315) 792-5201

MVWA WATER QUALITY LABORATORY

One Kennedy Plaza
Utica, NY 13502

Phone: (315) 792-0338
Fax: (315) 792-5201

MOHAWK VALLEY WATER AUTHORITY

Report of Examination

Microscopic Examination for Microorganisms (MPA)

Sample : Tim Miller Associates - Woodlands W3A
Sample Date: 8-04-08
Date completed: 8-06-08

Sample was analyzed using modified MPA and examined using phase contrast and epifluorescence microscopy.

10000.0 ml of the sample was examined.

Organisms seen:

Phylum Chlorophyta:

Unidentified spherical and ellipsoidal green algae exhibiting characteristic chlorophyll fluorescence

Phylum Diatoma:

Unidentified diatom species

A sample blank was prepared using distilled water and no organisms were observed in the blank.

A positive control culture of *Selenestrum sp* exhibited characteristics of chlorophyll fluorescence.

Telephone (315) 792-0301 One Kennedy Plaza • Utica, NY 13502 FAX (315) 792-5201

Analysis performed at:
New York State NELAP Laboratory No. 10319 and Pennsylvania State NELAP Laboratory No. 68-3428

MEMBER OF:
American Waterworks Association (AWWA) • AWWA Research Foundation • Underground Facilities Protective Organization

MOHAWK VALLEY WATER AUTHORITY
Water Quality Department
One Kennedy Plaza, 3rd Floor Lab
Utica, NY 13502
www.mvwa.us

Connie Schreppel, Director
Philip Tangorra, Research Scientist

Telephone: (315) 792-0338
Fax: (315) 792-5201

CHAIN OF CUSTODY

Sample ID: W 3A
Internal Tracking #: _____
(Internal use only)

Client:	Tim Miller Assoc
Source:	Woodlands

SAMPLE COLLECTION

Sampler	**Date of Collection**	**Time of Collection**	SC	8-4-08	11:00
Water Type (Raw, Finished, Stream, etc.)			Raw		
Temp. (°C)	**Turbidity (NTU)**		12.8	-10	.89
Type of Sample (circle)			**Filtered/(Grab)**		
Volume Filtered					

ANALYSES REQUESTED
(circle)

(*Giardia/Crypto*) — (MPA) — Total Coliform/*E. coli*
HPC — R2A — Chemistries*
Other*
***Details:** _____

CUSTODY TRANSFER(S)

Relinquished by: SC **Date:** 08/04/08 **Time:** 2:20
Received by: K Powell **Date:** 8/4/08 **Time:** 2:34

Relinquished by: _____ **Date:** _____ **Time:** _____
Received by: _____ **Date:** _____ **Time:** _____

Lab Receipt: Date: 8-5-08 **Time:** 10:20 **Temp:** 6.2 **Condition:** In Ice **Initials:** UH

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Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 10/20/2008
Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
1,1,1,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1,2,2-Tetrachloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2,4-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,3,5-Trimethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Benzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM

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Cold Spring, NY 10516

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Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Dichlorodifluoromethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Styrene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Toluene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Trichlorofluoromethane	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
cis-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
m,p-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
o-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
trans-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM

OCL Analytical Services
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Bloomingburg NY 12721

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Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 10/20/2008
Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
trans-1,3-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/02/08 13:00	08/02/08 13:00		BM
504.1 EDB/DBCP								
1,2-Dibromo-3-chloropropane	< 0.00001	mg/L	EPA 504.1	0.0002	07/29/08 22:21	07/29/08 22:21		BM
1,2-Dibromoethane (EDB)	< 0.00001	mg/L	EPA 504.1	0.00005	07/29/08 22:21	07/29/08 22:21		BM
508 SOC PestPCBs								
Chlordane (tech)	< 0.0105	mg/L	EPA 508	0.002	07/30/08 13:32	07/30/08 13:32		BM
PCBs as Aroclors (screen)	Absent	mg/L	EPA 508	0.0005	07/30/08 13:32	07/30/08 13:32		BM
Toxaphene	< 0.0263	mg/L	EPA 508	0.003	07/30/08 13:32	07/30/08 13:32		BM
515.3 NY Herb								
2,4,5-TP (Silvex)	< 0.0003	mg/L	EPA 515.3	0.01	08/06/08 2:52	08/06/08 2:52		BM
2,4-D	< 0.0005	mg/L	EPA 515.3	0.05	08/06/08 2:52	08/06/08 2:52		BM
Dalapon	< 0.0030	mg/L	EPA 515.3	0.2	08/06/08 2:52	08/06/08 2:52		BM
Dicamba	< 0.0003	mg/L	EPA 515.3		08/06/08 2:52	08/06/08 2:52		BM
Dinoseb	< 0.0005	mg/L	EPA 515.3	0.007	08/06/08 2:52	08/06/08 2:52		BM
Pentachlorophenol	< 0.0003	mg/L	EPA 515.3	0.001	08/06/08 2:52	08/06/08 2:52		BM
Picloram	< 0.0003	mg/L	EPA 515.3	0.5	08/06/08 2:52	08/06/08 2:52		BM
525.2 SVOC								
Alachlor	< 0.00011	mg/L	EPA 525.2	0.002	08/11/08 17:50	08/11/08 17:50		BM
Aldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/11/08 17:50	08/11/08 17:50		BM
Atrazine	< 0.00011	mg/L	EPA 525.2	0.003	08/11/08 17:50	08/11/08 17:50		BM
Benzo (a) pyrene	< 0.00011	mg/L	EPA 525.2	0.0002	08/11/08 17:50	08/11/08 17:50		BM
Butachlor	< 0.00115	mg/L	EPA 525.2	0.05	08/11/08 17:50	08/11/08 17:50		BM
Di(2-ethylhexyl)adipate	< 0.00230	mg/L	EPA 525.2	0.4	08/11/08 17:50	08/11/08 17:50		BM
Di(2-ethylhexyl)phthalate	< 0.00230	mg/L	EPA 525.2	0.006	08/11/08 17:50	08/11/08 17:50		BM

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Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
525.2 SVOC								
Dieldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/11/08 17:50	08/11/08 17:50		BM
Endrin	< 0.00011	mg/L	EPA 525.2	0.002	08/11/08 17:50	08/11/08 17:50		BM
HCH-gamma (Lindane)	< 0.00011	mg/L	EPA 525.2	0.0002	08/11/08 17:50	08/11/08 17:50		BM
Heptachlor	< 0.00011	mg/L	EPA 525.2	0.0004	08/11/08 17:50	08/11/08 17:50		BM
Heptachlor epoxide	< 0.00011	mg/L	EPA 525.2	0.0002	08/11/08 17:50	08/11/08 17:50		BM
Hexachlorobenzene	< 0.00011	mg/L	EPA 525.2	0.001	08/11/08 17:50	08/11/08 17:50		BM
Hexachlorocyclopentadiene	< 0.00011	mg/L	EPA 525.2	0.05	08/11/08 17:50	08/11/08 17:50		BM
Methoxychlor	< 0.00011	mg/L	EPA 525.2	0.04	08/11/08 17:50	08/11/08 17:50		BM
Metolachlor	< 0.00115	mg/L	EPA 525.2	0.05	08/11/08 17:50	08/11/08 17:50		BM
Metribuzin	< 0.00115	mg/L	EPA 525.2	0.05	08/11/08 17:50	08/11/08 17:50		BM
Propachlor	< 0.00115	mg/L	EPA 525.2	0.05	08/11/08 17:50	08/11/08 17:50		BM
Simazine	< 0.00011	mg/L	EPA 525.2	0.004	08/11/08 17:50	08/11/08 17:50		BM
531.1 Carbamates								
3-Hydroxycarbofuran	< 0.00100	mg/L	EPA 531.1		07/31/08 23:00	07/31/08 23:00		BM
Aldicarb	< 0.00100	mg/L	EPA 531.1	0.003	07/31/08 23:00	07/31/08 23:00		BM
Aldicarb sulfone	< 0.00100	mg/L	EPA 531.1	0.002	07/31/08 23:00	07/31/08 23:00		BM
Aldicarb sulfoxide	< 0.00100	mg/L	EPA 531.1	0.004	07/31/08 23:00	07/31/08 23:00		BM
Carbaryl	< 0.00100	mg/L	EPA 531.1		07/31/08 23:00	07/31/08 23:00		BM
Carbofuran	< 0.00100	mg/L	EPA 531.1	0.04	07/31/08 23:00	07/31/08 23:00		BM
Methomyl	< 0.00100	mg/L	EPA 531.1		07/31/08 23:00	07/31/08 23:00		BM
Oxamyl	< 0.00100	mg/L	EPA 531.1	0.2	07/31/08 23:00	07/31/08 23:00		BM
547 Glyphosate								
Glyphosate	< 0.05	mg/L	EPA 547		08/04/08 20:40	08/04/08 20:40		BM
548.1 Endothall								
Endothall	< 0.0500	mg/L	EPA 548.1		08/01/08 15:28	08/01/08 15:28		BM

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Project
Date Reported 10/20/2008
Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
549.2 Diquat								
Diquat	< 0.0008	mg/L	EPA 549.2		08/01/08 15:44	08/01/08 15:44		BM
ASBESTOS								
Asbestos in Water	see attached						OL	AM
BROMATE								
Bromate	< 0.0080	mg/L	EPA 300.0		07/29/08 0:00	07/29/08 0:00		BM
Chlorite								
Chlorite	< 0.02	mg/L	EPA 300.0		07/29/08 0:00	07/29/08 0:00		BM
Part V Inorganics								
Total coliform (ONPG)	absence		9223B			07/24/08 15:00	SM	
E. coli	absence		9223B			07/24/08 15:00	SM	
Alkalinity as CaCO3	43.0	mg/L	2320B			07/29/08 0:00	SM	
Corrosivity Index (LI)	-2.4		2330B			08/06/08 0:00	SM	
Color	<5.0		2120B			07/24/08 14:55	SM	
Chloride	<4.00	mg/L	450Cl-C0			08/05/08 0:00	LM	
Fluoride	<0.200	mg/L	EPA 340.2			08/05/08 0:00	LM	
Hardness as CaCO3, Calcium	48.0	mg/L	3500CaD			07/24/08 15:50	SM	
Nitrate as N	0.260	mg/L	Lachat			07/29/08 0:00	LM	LL
Nitrite as N	<0.0100	mg/L	EPA 354.1			07/24/08 14:40	SM	
Odor	none		2150			07/24/08 14:45	SM	
pH	6.21		4500H+B			07/24/08 14:25	SM	
Sulfate	17.0	mg/L	EPA 375.4			07/31/08 0:00	LM	
Solids, Dissolved Total	95.0	mg/L	2540C			07/30/08 0:00	KG	
Turbidity	0.190	mg/L	2130B			07/24/08 14:50	SM	
Cyanide (free)	< 0.010	mg/L	EPA 335.4		08/04/08 11:00	08/04/08 11:00		BM

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Project
Date Reported 10/20/2008
Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
Part V Metals								
Arsenic, As	< 0.0005	mg/L	EPA 200.8	0.01	08/02/08 15:47	08/02/08 15:47		BM
Barium, Ba	0.0918	mg/L	EPA 200.8	2.00	08/05/08 14:01	08/05/08 14:01		BM
Cadmium, Cd	< 0.0005	mg/L	EPA 200.8	0.005	08/02/08 15:47	08/02/08 15:47		BM
Chromium, Cr	< 0.0020	mg/L	EPA 200.8	0.10	08/02/08 15:47	08/02/08 15:47		BM
Lead, Pb	< 0.0005	mg/L	EPA 200.8	0.015	08/02/08 15:47	08/02/08 15:47		BM
Mercury, Hg	< 0.0002	mg/L	EPA 245.1	0.002	08/05/08 13:13	08/05/08 13:13		BM
Selenium, Se	< 0.0030	mg/L	EPA 200.8	0.05	08/02/08 15:47	08/02/08 15:47		BM
Silver, Ag	< 0.0006	mg/L	EPA 200.8		08/05/08 15:08	08/05/08 15:08		BM
Copper, Cu	0.0024	mg/L	EPA 200.8	1.3	08/02/08 15:47	08/02/08 15:47		BM
Iron, Fe	0.015	mg/L	EPA 200.7	0.3	08/04/08 12:29	08/04/08 12:29		BM
Manganese, Mn	0.002	mg/L	EPA 200.7	0.3	08/04/08 12:29	08/04/08 12:29		BM
Sodium, Na	9.63	mg/L	EPA 200.7		08/04/08 12:29	08/04/08 12:29		BM
Zinc, Zn	0.348	mg/L	EPA 200.7		08/04/08 12:29	08/04/08 12:29		BM
Antimony, Sb	< 0.0005	mg/L	EPA 200.8	0.006	08/02/08 15:47	08/02/08 15:47		BM
Beryllium, Be	< 0.0005	mg/L	EPA 200.8	0.004	08/02/08 15:47	08/02/08 15:47		BM
Nickel, Ni	0.0011	mg/L	EPA 200.8		08/02/08 15:47	08/02/08 15:47		BM
Thallium, Tl	< 0.0005	mg/L	EPA 200.8	0.002	08/02/08 15:47	08/02/08 15:47		BM
Radiologicals								
Gross Alpha	2.77	pCi/L	EPA 900.0	15	08/04/08 0:00	08/04/08 0:00		BM
Gross Beta	4.14	pCi/L	EPA 900.0		08/04/08 0:00	08/04/08 0:00		BM
Radium 226	0.62	pCi/L	EPA 903.0	5	08/14/08 0:00	08/14/08 0:00		BM
Radium 228	0.93	pCi/L	EPA 904.0	5	08/11/08 0:00	08/11/08 0:00		BM
Uranium, U	1.49	æg/L	EPA 200.8	30	08/04/08 16:31	08/04/08 16:31		BM
Uranium (pci/L)	1.00	pCi/L	EPA 200.8		08/04/08 16:31	08/04/08 16:31		BM

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Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 10/20/2008
Date Received 7/24/2008
Date Complete 8/21/2008

Sample Number 241807-01
Federal ID
Description Miceli - Woodlands
Location W-4
Sample Point

Date Sampled 07/24/08 10:00
Sampler Client

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers

Qualifiers
AM = Analysis by Amerisci NELAP#11480
BM = Analysis performed by Benchmark Analytics NELAP#11216
LL = LCS (laboratory control standard) recovery low. Results may be bias low.

Approved By David Kennedy
David Kennedy
Technical Director

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Certificate of Analysis

Tim Miller Associates
10 North Street
Cold Spring, NY 10516

Project
Date Reported 8/19/2008
Date Received 8/5/2008
Date Complete 8/19/2008

Sample Number 242078-01
Federal ID
Description W-4
Location
Sample Point

Date Sampled 08/04/08 12:45
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 THMs								
Bromodichloromethan	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		BM
Bromoform	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		BM
Chlorodibromomethan	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		BM
Chloroform	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		BM
Total Trihalomethanes	< 0.0005	mg/L	EPA 524.2	0.080	08/07/08 6:10	08/07/08 6:10		BM
552.2 HAAs								
Dibromoacetic Acid	< 0.0010	mg/L	EPA 552.2		08/07/08 13:46	08/07/08 13:46		BM
Dichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/07/08 13:46	08/07/08 13:46		BM
Monobromoacetic Aci	< 0.0010	mg/L	EPA 552.2		08/07/08 13:46	08/07/08 13:46		BM
Monochloroacetic Aci	< 0.0020	mg/L	EPA 552.2		08/07/08 13:46	08/07/08 13:46		BM
Trichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/07/08 13:46	08/07/08 13:46		BM
Total HAA's	< 0.0010	mg/L	EPA 552.2	0.060	08/07/08 13:46	08/07/08 13:46		BM
GIARDIA (cubit)								
Giardia/Cryptosporidia	see attached						OL	
MPA								
Microscopic Particulat	see attached						OL	

Qualifiers
BM = Analysis performed by Benchmark Analytics NELAP#11216

Approved By David M Kennedy
David Kennedy
Technical Director

AmeriSci Job #: **208075225**
Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Bulk Material)
Miceli-Woodlands; (Report Amended 11/12/2008)

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	241807-01 W-4	0.15	8	NSD	NSD	0.02	<0.02	<0.02	---

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter. NYSDOH ELAP LAB ID 11480.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are filtered within four hours and refrigerated when necessary.

Reviewed By: _____ ; Analyzed By: Glenn Massey Date: 7/28/2008

Glenn F. Massey

MOHAWK VALLEY WATER AUTHORITY

Final Result Report for *Giardia/Cryptosporidium*

Sample ID: 08/04/08 OCL – WOODLANDS W4
LIMS #: 24085
Client: #591 – OCL Analytical Services
Source: Woodlands W4

QUALITY CONTROL

Weekly Method Blank	***Giardia* Count: 0**	***Cryptosporidium* Count: 0**
Weekly OPR Sample	***Giardia* % Recovery: 42.0**	***Cryptosporidium* % Recovery: 22.0**

SAMPLE RESULTS

Giardia	**Total FA Count**	**Volume Analyzed**	**# cysts/L**
	0	10.0 L	0.000
Cryptosporidium	**Total FA Count**	**Volume Analyzed**	**# oocysts/L**
	0	10.0 L	0.000

MATRIX SPIKE RESULTS

Giardia	**# Spiked:**	**# Recovered:**	**% Recovery**
	N/A		
Cryptosporidium	**# Spiked:**	**# Recovered:**	**% Recovery**
	N/A		

Approved:

Philip A. Tangorra
QA Officer

1 Kennedy Plaza • PO Box 345 • Utica, NY 13503-0345 • Telephone (315) 792-0301 • Fax (315) 792-5201

MVWA WATER QUALITY LABORATORY

MOHAWK VALLEY WATER AUTHORITY

One Kennedy Plaza
Utica, NY 13502

Phone: (315) 792-0338
Fax: (315) 792-5201

Report of Examination

Microscopic Examination for Microorganisms (MPA)

Sample : Tim Miller Associates - Woodlands W4
Sample Date: 8-04-08
Date completed: 8-06-08

Sample was analyzed using modified MPA and examined using phase contrast and epifluorescence microscopy.

10000.0 ml of the sample was examined.

Organisms seen:

No organisms were observed that exhibited characteristics of chlorophyll fluorescence.

Iron bacteria was noted

Copious amounts of debris may have prevented the identification of organisms containing chlorophyll

A sample blank was prepared using distilled water and no organisms were observed in the blank.

A positive control culture of *Selenestrum sp* exhibited characteristics of chlorophyll fluorescence.

Telephone (315) 792-0301 One Kennedy Plaza • Utica, NY 13502 FAX (315) 792-5201

Analysis performed at:
New York State NELAP Laboratory No. 10319 and Pennsylvania State NELAP Laboratory No. 68-3428

MEMBER OF:
American Waterworks Association (AWWA) • AWWA Research Foundation • Underground Facilities Protective Organization

MOHAWK VALLEY WATER AUTHORITY
Water Quality Department
One Kennedy Plaza, 3rd Floor Lab
Utica, NY 13502
www.mvwa.us

Connie Schreppel, Director
Philip Tangorra, Research Scientist

Telephone: (315) 792-0338
Fax: (315) 792-5201

CHAIN OF CUSTODY

Sample ID: W-4
Internal Tracking #: _____
(Internal use only)

Client:	Tim Miller Assoc
Source:	Woodlands

SAMPLE COLLECTION

Sampler	**Date of Collection**	**Time of Collection**	SC	8.4.08	1245
Water Type (Raw, Finished, Stream, etc.)			Raw		
Temp. (°C)	**Turbidity (NTU)**		11.5	~10	259
Type of Sample (circle)			**Filtered/Grab**		
Volume Filtered					

ANALYSES REQUESTED
(circle)

(Giardia/Crypto)
HPC
Other*
*Details: _____

(MPA)
R2A

Total Coliform/*E. coli*
Chemistries*

CUSTODY TRANSFER(S)

Relinquished by: SC
Received by: K Rowell
Date: 08/04/08 **Time:** 2:20 pm
Date: 8/4/08 **Time:** 2:25 pm

Relinquished by: _____
Received by: _____
Date: _____ **Time:** _____
Date: _____ **Time:** _____

Lab Receipt: **Date:** 8-5-08 **Time:** 1012 **Temp:** 3.8 **Condition:** In Tact **Initials:** dbl

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Certificate of Analysis

Tim Miller Associates
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Cold Spring, NY 10516

Project
Date Reported 9/9/2008
Date Received 8/5/2008
Date Complete 9/9/2008

Sample Number 242081-01
Federal ID
Description W5A
Location
Sample Point

Date Sampled 08/04/08 11:30
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
1,1,1,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,1-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2,2-Tetrachloroetha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1,2-Trichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,1-Dichloropropene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,3-Trichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2,4-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3,5-Trimethylbenzen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,3-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
1,4-Dichlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2,2-Dichloropropane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
2-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
4-Chlorotoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Benzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromochloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Bromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Carbon tetrachloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chlorobenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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Location
Sample Point

Date Sampled 08/04/08 11:30
Sampler S. Cutignola

Test	Result	Units	Method	MCL	Prep Date	Test Date	Analyst	Qualifiers
502.2 NY VOCs								
Chloroethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Chloromethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dibromomethane	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Dichlorodifluorometha	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Ethylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Hexachlorobutadiene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Isopropylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methyl tert-butyl ether	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Methylene chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Styrene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Tetrachloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Toluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Trichlorofluoromethan	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
Vinyl chloride	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,2-Dichloroethene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
cis-1,3-Dichloropropen	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
m,p-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
n-Propylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
o-Xylene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
p-Isopropyltoluene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
sec-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
tert-Butylbenzene	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,2-Dichloroethe	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		
trans-1,3-Dichloroprop	< 0.0005	mg/L	EPA 524.2	.005	08/06/08 21:21	08/06/08 21:21		

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502.2 THMs								
Bromodichloromethan	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Bromoform	< 0.0005	mg/L	EPA 524.2		08/07/08 6:10	08/07/08 6:10		
Chlorodibromomethan	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Chloroform	< 0.0005	mg/L	EPA 524.2		08/06/08 21:21	08/06/08 21:21		
Total Trihalomethanes	< 0.0005	mg/L	EPA 524.2	0.080	08/07/08 6:10	08/07/08 6:10		
504.1 EDB/DBCP								
1,2-Dibromo-3-chloro	< 0.00001	mg/L	EPA 504.1	0.0002	08/15/08 1:43	08/15/08 1:43		
1,2-Dibromoethane (E	< 0.00001	mg/L	EPA 504.1	0.00005	08/15/08 1:43	08/15/08 1:43		
508 SOC PestPCBs								
Chlordane (tech)	< 0.00515	mg/L	EPA 508	0.002	08/21/08 14:55	08/21/08 14:55		
PCBs as Aroclors (scre	Absent	mg/L	EPA 508	0.0005	08/21/08 14:55	08/21/08 14:55		
Toxaphene	< 0.0129	mg/L	EPA 508	0.003	08/21/08 14:55	08/21/08 14:55		
515.3 NY Herb								
2,4,5-TP (Silvex)	< 0.0003	mg/L	EPA 515.3	0.01	08/12/08 6:38	08/12/08 6:38		
2,4-D	< 0.0005	mg/L	EPA 515.3	0.05	08/12/08 6:38	08/12/08 6:38		
Dalapon	< 0.0030	mg/L	EPA 515.3	0.2	08/12/08 6:38	08/12/08 6:38		
Dicamba	< 0.0003	mg/L	EPA 515.3		08/12/08 6:38	08/12/08 6:38		
Dinoseb	< 0.0005	mg/L	EPA 515.3	0.007	08/12/08 6:38	08/12/08 6:38		
Pentachlorophenol	< 0.0003	mg/L	EPA 515.3	0.001	08/12/08 6:38	08/12/08 6:38		
Picloram	< 0.0003	mg/L	EPA 515.3	0.5	08/12/08 6:38	08/12/08 6:38		
525.2 SVOC								
Alachlor	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 19:24	08/20/08 19:24		
Aldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 19:24	08/20/08 19:24		
Atrazine	< 0.00011	mg/L	EPA 525.2	0.003	08/20/08 19:24	08/20/08 19:24		
Benzo (a) pyrene	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 19:24	08/20/08 19:24		
Butachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 19:24	08/20/08 19:24		

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525.2 SVOC								
Di(2-ethylhexyl)adipat	< 0.00211	mg/L	EPA 525.2	0.4	08/20/08 19:24	08/20/08 19:24		S
Di(2-ethylhexyl)phthal	< 0.00211	mg/L	EPA 525.2	0.006	08/20/08 19:24	08/20/08 19:24		
Dieldrin	< 0.00011	mg/L	EPA 525.2	0.005	08/20/08 19:24	08/20/08 19:24		
Endrin	< 0.00011	mg/L	EPA 525.2	0.002	08/20/08 19:24	08/20/08 19:24		
HCH-gamma (Lindane	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 19:24	08/20/08 19:24		
Heptachlor	< 0.00011	mg/L	EPA 525.2	0.0004	08/20/08 19:24	08/20/08 19:24		
Heptachlor epoxide	< 0.00011	mg/L	EPA 525.2	0.0002	08/20/08 19:24	08/20/08 19:24		
Hexachlorobenzene	< 0.00011	mg/L	EPA 525.2	0.001	08/20/08 19:24	08/20/08 19:24		
Hexachlorocyclopenta	< 0.00011	mg/L	EPA 525.2	0.05	08/20/08 19:24	08/20/08 19:24		
Methoxychlor	< 0.00011	mg/L	EPA 525.2	0.04	08/20/08 19:24	08/20/08 19:24		
Metolachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 19:24	08/20/08 19:24		
Metribuzin	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 19:24	08/20/08 19:24		
Propachlor	< 0.00105	mg/L	EPA 525.2	0.05	08/20/08 19:24	08/20/08 19:24		
Simazine	< 0.00011	mg/L	EPA 525.2	0.004	08/20/08 19:24	08/20/08 19:24		
531.1 Carbamates								
3-Hydroxycarbofuran	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Aldicarb	< 0.00100	mg/L	EPA 531.1	0.003	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfone	< 0.00100	mg/L	EPA 531.1	0.002	08/12/08 12:20	08/12/08 12:20		
Aldicarb sulfoxide	< 0.00100	mg/L	EPA 531.1	0.004	08/12/08 12:20	08/12/08 12:20		
Carbaryl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Carbofuran	< 0.00100	mg/L	EPA 531.1	0.04	08/12/08 12:20	08/12/08 12:20		
Methomyl	< 0.00100	mg/L	EPA 531.1		08/12/08 12:20	08/12/08 12:20		
Oxamyl	< 0.00100	mg/L	EPA 531.1	0.2	08/12/08 12:20	08/12/08 12:20		
547 Glyphosate								
Glyphosate	< 0.05	mg/L	EPA 547		08/14/08 20:18	08/14/08 20:18		

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548.1 Endothall								
Endothall	<9.0	æg/L	EPA 548		08/08/08 0:00	08/08/08 0:00		
549.2 Diquat								
Diquat	< 0.0008	mg/L	EPA 549.2		08/19/08 18:00	08/19/08 18:00		
552.2 HAAs								
Dibromoacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Dichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monobromoacetic Aci	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Monochloroacetic Aci	< 0.0020	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Trichloroacetic Acid	< 0.0010	mg/L	EPA 552.2		08/08/08 10:39	08/08/08 10:39		
Total HAA's	< 0.0010	mg/L	EPA 552.2	0.060	08/08/08 10:39	08/08/08 10:39		
ALPHABETA								
Gross Beta	3.85	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
Gross Alpha	2.50	pCi/L	EPA 900.0		08/09/08 0:00	08/09/08 0:00		BMC
ASBESTOS								
Asbestos in Water	see attached						OL	
BROMATE								
Bromate	<2.5	æg/L	EPA 300.1		08/20/08 19:06	08/20/08 19:06		BM
Chlorite								
Chlorite	<0.02	mg/L	EPA 300.0			08/13/08 9:19	BA	BM
GIARDIA (cubit)								
Giardia/Cryptosporidia	see attached						OL	MV
MPA								
Microscopic Particulat	see attached						OL	MV

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Part V Inorganics								
Total coliform (ONPG)	absence		9223B			08/04/08 16:00	LM	
E. coli	absence		9223B			08/04/08 16:00	LM	
Alkalinity as CaCO3	48.0	mg/L	2320B			08/12/08 0:00	SM	
Corrosivity Index (LI)	-1.8		2330B			08/19/08 0:00	LM	
Color	<5.0		2120B			08/05/08 14:50	SM	
Chloride	<4.00	mg/L	450Cl-C0			08/05/08 0:00	LM	
Fluoride	<0.200	mg/L	EPA 340.2			08/05/08 0:00	LM	
Hardness as CaCO3, C	54.0	mg/L	3500CaD			08/05/08 13:40	SM	
Nitrate as N	<0.20	mg/L	Lachat			08/06/08 0:00	LM	
Nitrite as N	<0.0100	mg/L	EPA 354.1			08/05/08 11:30	SM	
Odor	none		2150			08/04/08 16:30	LM	
pH	6.68		4500H+B			08/04/08 16:20	LM	
Sulfate	13.0	mg/L	EPA 375.4			08/14/08 0:00	LM	
Solids, Dissolved Total	93.0	mg/L	2540C			08/05/08 0:00	KG	
Turbidity	0.270	mg/L	2130B			08/05/08 15:00	SM	
Cyanide	< 0.004	mg/L	SM#21 4500 C		08/07/08 13:30	08/07/08 13:30		
Part V Metals								
Arsenic, As	< 0.0005	mg/L	EPA 200.8	0.01	08/07/08 19:31	08/07/08 19:31		
Barium, Ba	0.0734	mg/L	EPA 200.8	2.00	08/07/08 19:31	08/07/08 19:31		
Cadmium, Cd	< 0.0005	mg/L	EPA 200.8	0.005	08/07/08 19:31	08/07/08 19:31		
Chromium, Cr	< 0.0020	mg/L	EPA 200.8	0.10	08/07/08 19:31	08/07/08 19:31		
Lead, Pb	0.0007	mg/L	EPA 200.8	0.015	08/11/08 18:34	08/11/08 18:34		
Mercury, Hg	< 0.0002	mg/L	EPA 245.1	0.002	08/07/08 13:08	08/07/08 13:08		
Selenium, Se	< 0.0030	mg/L	EPA 200.8	0.05	08/07/08 19:31	08/07/08 19:31		
Silver, Ag	< 0.0006	mg/L	EPA 200.8		08/11/08 19:36	08/11/08 19:36		
Copper, Cu	0.0008	mg/L	EPA 200.8	1.3	08/07/08 19:31	08/07/08 19:31		
Iron, Fe	0.031	mg/L	EPA 200.7	0.3	08/07/08 20:02	08/07/08 20:02		

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Part V Metals								
Manganese, Mn	0.004	mg/L	EPA 200.7	0.3	08/07/08 20:02	08/07/08 20:02		
Sodium, Na	3.79	mg/L	EPA 200.7		08/07/08 20:02	08/07/08 20:02		
Zinc, Zn	0.338	mg/L	EPA 200.7		08/07/08 20:02	08/07/08 20:02		
Antimony, Sb	< 0.0005	mg/L	EPA 200.8	0.006	08/07/08 19:31	08/07/08 19:31		
Beryllium, Be	< 0.0005	mg/L	EPA 200.8	0.004	08/07/08 19:31	08/07/08 19:31		
Nickel, Ni	0.0007	mg/L	EPA 200.8		08/07/08 19:31	08/07/08 19:31		
Thallium, Tl	< 0.0005	mg/L	EPA 200.8	0.002	08/07/08 19:31	08/07/08 19:31		
R226								
Radium 226	0.93	pCi/L	EPA 903.0		08/23/08 0:00	08/23/08 0:00		BMC
R228								
Radium 228	0.65	pCi/L	EPA 904.0		08/14/08 0:00	08/14/08 0:00		BMC
URANIUM								
Uranium, U	1.34	æg/L	EPA 200.8	30	08/11/08 13:33	08/11/08 13:33		BMC
Uranium (pci/L)	0.90	pCi/L	EPA 200.8		08/11/08 13:33	08/11/08 13:33		BMC

VOC's, SOC's Metals analyzed by Benchmark Analytics NELAP#11216

Qualifiers
S = Spike Recovery outside accepted recovery limits
BM = Analysis performed by Benchmark Analytics, Sayre NELAP#11216
BMC = Analysis by Benchmark Analytics, Center Valley NELAP#11827
MV = Analysis by Mohawk Valley Water Authority

Approved By David M Kennedy
David Kennedy
Technical Director

AmeriSci Job #: **208081672**
Client Name: OCL Analytical Services

Table I
Summary of Transmission Electron Microscopy (TEM) Results for Asbestos (Water)

Jon Dahlgren/Tim Miller Assoc.; 10 North St., Cold Spring, NY 10516

AmeriSci Sample #	Client Sample No./Location	Liquid Filtered (liters)	Temp (Celcius)	Structures Detected* (total)	Structures Detected* (>10 µm)	Analytical Sensitivity (MF/L)	Asbestos Conc (total) (MF/L)	Asbestos Conc (>10 µm) (MF/L)	Asbestos Type
01	242-081-01 W5A	0.015	0	NSD	NSD	0.14	<0.14	<0.14	----

*fiber criteria (>=0.5 microns, 5:1 aspect ratio); NAD/NSD = no asbestos detected, NA = not analyzed, MF/L = million fibers per liter. NYSDOH ELAP LAB ID 11480.

NOTE: Drinking water analysis by EPA-600/4-83-043 (100.1), waste water by EPA-600/4-80-005. Analytical sensitivity calculated as though 1 fiber had been detected on the TEM GRID area analyzed. Samples are within four hours and refrigerated when necessary.

Reviewed By: _____ ; Analyzed By: _____ Date: 8/12/08

Marik Peysakhov

CHAIN OF CUSTODY

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Client:

Name	Jon Dahlgren Tim Miller Assoc
Address	10 North St.
City, State, Zip	Cold Spring NY 10516
Phone	845 265 4400

208081672

Samples should be brought to the lab on ice with a receiving temp of 2 to 6 C.

Sample Temp (c)
Sample rec'd on ice?
Sample set up in 6 hr?
Properly preserved?
Within holding times?
Reviewed by

OCL#	Matrix	Collection Date	Collection Time	comp	grab	Sample Description/Location	Containers No/type	Preservative	cl resid	Analysis Required Complete SOC Testing	Results
242-08(-01	W	8.4	1130		✓	WSA	1L P	None		Asbestos *48hr HT*	
					✓		2 40ml G	thio		EPA 504	
					✓		2 1L G	thio		EPA 508	
					✓		1 250ml G	thio		EPA 515.3	
					✓		2 1L G	sulfite		EPA 525.2	
					✓		2 40ml G	thio		EPA 531.1	
					✓		1 1L G	thio		extra sample	
					✓		3 40ml G	thio		EPA 547 Glyphosate	
					✓		1 250ml G	none		EPA 548 Endothall	
					✓		1 1L G	thio		EPA 549 Diquat	
					✓		2-40mm vials	$NaSO_3$		THM	
					✓		250ml G	NH_4Cl		HAA	

Comments/Special Instructions:

Rush Requested? Client Code: Prepaid?

Sampled By:	print	Steven Caligiuri	date: 08/04/08	Received By:	print	K Powell	date: 8/4/08
	sign	Steve Caligiuri	time: 2:20		sign		time: 2:35
Relinquished By:	print		date: 8/4/08	Received By:	print	Jessica Driver	date: 8/5
	sign		time: 1530		sign		time: 12:15
Relinquished By:	print		date:	Received By:	print		date:
	sign		time:		sign		time:

MOHAWK VALLEY WATER AUTHORITY

Final Result Report for *Giardia/Cryptosporidium*

Sample ID:	**08/04/08 OCL – WOODCREST W5A**
LIMS #:	**24087**
Client:	**#591 – OCL Analytical Services**
Source:	**Woodcrest W5A**

QUALITY CONTROL

Weekly Method Blank	***Giardia* Count: 0**	***Cryptosporidium* Count: 0**
Weekly OPR Sample	***Giardia* % Recovery: 42.0**	***Cryptosporidium* % Recovery: 22.0**

SAMPLE RESULTS

Giardia	**Total FA Count**	**Volume Analyzed**	**# cysts/L**
	0	**10.0 L**	**0.000**
Cryptosporidium	**Total FA Count**	**Volume Analyzed**	**# oocysts/L**
	0	**10.0 L**	**0.000**

MATRIX SPIKE RESULTS

Giardia	**# Spiked:**	**# Recovered:**	**% Recovery**
	N/A		
Cryptosporidium	**# Spiked:**	**# Recovered:**	**% Recovery**
	N/A		

Approved:

Philip A. Tangorra
QA Officer

1 Kennedy Plaza • PO Box 345 • Utica, NY 13503-0345 • Telephone (315) 792-0301 • Fax (315) 792-5201

MVWA WATER QUALITY LABORATORY

One Kennedy Plaza
Utica, NY 13502

Phone: (315) 792-0338
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MOHAWK VALLEY WATER AUTHORITY

Report of Examination

Microscopic Examination for Microorganisms (MPA)

Sample : Tim Miller Associates - Woodlands W5A
Sample Date: 8-04-08
Date completed: 8-06-08

Sample was analyzed using modified MPA and examined using phase contrast and epifluorescence microscopy.

10000.0 ml of the sample was examined.

Organisms seen:

Phylum Chlorophyta:

Unidentified ellipsoidal green algae exhibiting characteristic chlorophyll fluorescence

Phylum Diatoma:

Unidentified diatom species

A sample blank was prepared using distilled water and no organisms were observed in the blank.

A positive control culture of *Selenestrum sp* exhibited characteristics of chlorophyll fluorescence.

Telephone (315) 792-0301 One Kennedy Plaza • Utica, NY 13502 FAX (315) 792-5201

Analysis performed at
New York State NELAP Laboratory No. 10319 and Pennsylvania State NELAP Laboratory No. 68-3428

MEMBER OF:
American Waterworks Association (AWWA) • AWWA Research Foundation • Underground Facilities Protective Organization

MOHAWK VALLEY WATER AUTHORITY
Water Quality Department
One Kennedy Plaza, 3rd Floor Lab
Utica, NY 13502
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Connie Schreppel, Director
Philip Tangorra, Research Scientist

Telephone: (315) 792-0338
Fax: (315) 792-5201

CHAIN OF CUSTODY

Sample ID: W5A
Internal Tracking #: _____
(Internal use only)

Client:	Tim Miller Assoc
Source:	Woodcrest

SAMPLE COLLECTION

Sampler	**Date of Collection**	**Time of Collection**	SC	8-4-08	1130
Water Type (Raw, Finished, Stream, etc.)			raw		
Temp. (°C)	**Turbidity (NTU)**		12.8	<1	
Type of Sample (circle)			**Filtered/Grab**		
Volume Filtered					

ANALYSES REQUESTED
(circle)

(*Giardia/Crypto*) HPC Other*

(MPA) R2A

Total Coliform/*E. coli* Chemistries*

***Details:** _____

CUSTODY TRANSFER(S)

Relinquished by: SC **Date:** 08/04/08 **Time:** 2:20
Received by: K Powell **Date:** 8/4/08 **Time:** 2:39

Relinquished by: _____ **Date:** _____ **Time:** _____
Received by: _____ **Date:** _____ **Time:** _____

Lab Receipt: Date: 8-5-08 **Time:** 10123 **Temp:** 7.1 **Condition:** Intact **Initials:** CEG