# GROUNDWATER EXPLORATION AND PUMPING TEST PROGRAM SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

Prepared For:

Silo Ridge Resort Community

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1 Pumping Test Site Map

# GROUNDWATER EXPLORATION AND PUMPING TEST PROGRAM SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

# **INTRODUCTION**

Leggette, Brashears & Graham, Inc. (LBG) has completed a groundwater exploration and 72-hour pumping test program on the Silo Ridge Resort Community property located at 4651 Route 22 in Amenia, New York (figure 1). The groundwater exploration and pumping test program were conducted to develop potable and irrigation water-supply sources for the proposed residential development and golf course on the project site.

A previous groundwater exploration program was conducted on the property by the Chazen Company (Chazen) between 2005 and 2007. Bedrock wells were drilled and yield tests were conducted for the proposed development at that time. Subsequent changes to the proposed layout of the golf course and residential development resulted in changes to the project's water demand requirements and rendered some of the previous well locations unsuitable for use as public water-supply sources based on the New York State Department of Health (NYSDOH) 100-foot property ownership and 200-foot sanitary control radius requirements for well siting. Therefore, additional bedrock test well drilling was conducted in April and May 2014 to secure suitable water-supply wells for the project. The proposed test well locations were submitted for review and approval to the Dutchess County Department of Health (DCDH) prior to drilling.

Following the completion of drilling, a 72-hour pumping test program was conducted which included the simultaneous pumping of five bedrock test wells, Wells 1, 2, 9, 11 and 25. The simultaneous pumping test was followed by an individual pumping test on Well 31, which is the most productive well on the project site. The 72-hour pumping test program, which included the simultaneous well test followed by the individual well test, was designed to meet the NYSDOH requirement of demonstrating twice a project's average water demand with the best well out of service. The pumping test program included water-level measurement collection from the onsite pumping wells, onsite bedrock monitoring wells, offsite monitoring wells and onsite surface-water features.

A Pumping Test Plan was prepared prior to the completion of the 72-hour pumping test program in accordance with the New York State Department of Environmental Conservation's (NYSDEC) Appendix 10, TOGS 3.2.1, "Pumping Test Procedures for Water Withdrawal Applications", March 2013. The Pumping Test Plan was reviewed and approved by the DCDH prior to the start of testing.

# **PROJECT WATER DEMAND**

The average potable water demand for the proposed Silo Ridge project is estimated to be 127,612 gpd (gallons per day) or about 88.6 gpm (gallons per minute). The table below is a summary of the water demand estimated for the Silo Ridge Resort Community based on the NYSDEC, Draft 2012 "Design Standards for Intermediate-Sized Wastewater Treatment Systems":

Usage Type	Subcategory	Number	Water Usage Rate	Water Demand (gpd)	Water Demand with 20% Reduction (gpd)	Twice Average Water Demand (gpd)
Residential	Total Bedroom Count	996 bedrooms	110 gpd/bedroom	109,560	109,560*	219,120
Lodge Clubhouse	Restaurant	167 seats	35/seat	5,845	4,676	9,352
	Store/Pro Shop	4 employees	15/employee	60	48	96
Clubhouse/Fitness	Pool	50 swimmers	10/swimmer	500	400	800
	Health Club	20 patrons	20/patron	400	320	640
Sales House - General	Store	5,000 sq.ft.	0.1/sq. ft.	500	400	800
Activity Barn	Pool	50 swimmers	10/swimmer	500	400	800
	Bowling	2 lanes	10/lane	20	16	32
	Theater	32 seats	75/seat	2,400	1,920	3,840
Winery Building	Restaurant	80 seats	35/seat	2,800	2,240	4,480
	Winery	allowance	2,000	2,000	1,600	3,200
Golf Academy		40 students	10/student	400	320	640
		5 teachers	10/teacher	50	40	80
Vineyard Villas Club		13 seats	35/seat	455	364	728
Equestrian Center	Wash Stalls	2 stalls	35/stall	70	56	112
	Boarded Horses	20 horses	12/horse	240	192	384
	Employees	5 employees	15/employee	75	60	120
Field House	Pool	50 swimmers	10/swimmer	500	400	800
Golf Maintenance Building	Building Size	11,500 sq. ft.	0.1/ sq. ft.	1,150	920	1,840
Employees		200 employees	15/employee	3,000	2,400	4,800
Comfort Stations	Snack Seating	16 seats	25/seat	400	320	640
Golf Course	Rounds of Golf	60 rounds	20/round	1,200	960	1,920
			Total Water D	emand (gpd)	127,612	255,224
			Total Water D		88.6	177.2

 Table 1: Summary of Potable Water Demand Estimate

sq. ft. square feet

gpd gallons per day

gpm gallons per minute

20% reduction not applied to residential water demand component per NYSDEC Draft 2012 "Design Standards for Wastewater Treatment Works".

To meet the NYSDOH requirement of demonstrating twice the average potable water demand for a project with the most productive well out of service, the Silo Ridge Resort Community requires a minimum water-supply source capacity of 255,224 gpd or 177.2 gpm with the best well out of service.

In addition to the proposed potable water demand, the existing golf course which is undergoing renovations will use irrigation wells to supplement water from the irrigation ponds on the golf course. Therefore, the bedrock wells developed to meet the potable water demand requirements of the project were pumped simultaneously with the proposed irrigation wells to demonstrate that the bedrock aquifer could meet both the potable and irrigation water-supply demands under simultaneous pumping conditions.

#### HYDROGEOLOGY

The project site is a 670 acre property located near the intersection of Route 22 and Route 44 in the Town of Amenia, New York (figure 1). Topography at the site ranges from approximately 1,100 ft amsl (feet above mean sea level) near the western property boundary to 480 ft amsl along the eastern property boundary.

There are several ponds located on the golf course. A small stream flows through the central portion of the site into the first of two large centrally located ponds, Ponds A and B, shown on Plate 1. Intermittent, seasonal overflow from these two ponds drains into a NYSDEC wetland feature (AM-15) located downstream on the southeastern region of the property. Several smaller wetland features which are not NYSDEC regulated are also located throughout the site (Plate 1).

Two other intermittent streams are located on the northern portion of the project site. These intermittent streams drain into the Amenia/Cascade Brook which flows near the eastern property boundary.

### Surficial Geology

The surficial materials underlying the study property are mapped as shallow bedrock, till and kame deposits. Bedrock, exposed or within 3 feet of the surface, is present on the western region of the property. Glacial till is mapped adjacent to the shallow bedrock on the central and eastern areas of the project site and smaller areas of kame deposits are mapped along the eastern property boundary.

Glacial till consists of non-sorted, non-stratified sediments deposited by glacial activity. The sediments contain varying proportions of clay, silt, sand, gravel and boulders. Till is generally not suitable for well development because, as a result of the unsorted character of the material, it does not transmit water in sufficient quantities to support moderate to high-yielding wells. Kame deposits consist of stratified sand and gravel which were also formed by glacial activity. A map of the surficial material for the study area is shown on figure 2.

### **Bedrock Geology**

Two bedrock formations are mapped underlying the project site. The Walloomsac formation, which is a metamorphic bedrock formation containing slate, phyllite, schist and metagraywacke, is mapped underlying the northern, western and southern areas of the property. Stockbridge marble, a carbonate metamorphic rock type, is present under the southeastern region of the property.

A fracture-trace analysis was completed as part of the groundwater exploration program to identify favorable areas for drilling high-yielding bedrock wells. Fracture-trace maps include the delineation of faults, fracture-trace joint systems, old river and stream courses and major unconformities. These features frequently are indications of fractured or weathered zones within the bedrock and their identification is useful for identifying major fracture conduits for groundwater recharge and in selecting favorable well sites to develop higher yield wells. A map of the bedrock geology underlying the project site along with the fracture-trace analysis and existing well locations are shown on figure 3.

#### **GROUNDWATER EXPLORATION PROGRAM**

Prior to the start of well drilling activities in 2014, there were 16 existing onsite bedrock wells (figure 3). Eleven (11) of the existing wells (Wells 2 through 12) were bedrock test wells drilled on the project site under the oversight of Chazen in 2005 and 2006. Well 1 was the existing bedrock supply well for the former golf course clubhouse; Wells 13 and 16 were used to monitor groundwater quality in relation to two former landfills located near the project site;

Well 15 was the supply well for the existing golf course maintenance building; and Well 14 was a former residential supply well (no longer in use) for structures to the north of the property. Well logs for Wells 2 through 12 are included in Appendix I. No well logs are available for Wells 1, 13, 14, 15 or 16.

In April and May 2014, 13 additional bedrock test wells were drilled under the supervision of LBG to develop additional sources to meet the project's potable and irrigation water demand requirements. The locations of the additional wells drilled, Wells 17 through 28 and Well 31, are shown on figure 3 and the well logs are included in Appendix I.

Below is a table summarizing the available onsite well construction information.

Denth to top of Cosing Length Well Total Dent				
Well ID	Date Drilled	Depth to top of	Casing Length	Well Total Depth
		Bedrock (feet)	(feet)	(feet)
Well 1	Unknown	Unknown	Unknown	211
Well 2	12/2005	150	275	345
Well 3	12/2005	34	41	505
Well 4	1/2006	15	102	445
Well 5	1/2006	40	61	465
Well 6	1/2006	76	105	465
Well 7	1/2006	17	41	465
Well 8	1/2006	28	41	525
Well 9	1/2006	15	102	405
Well 10	1/2006	50	62	465
Well 11	2/2006	190	225	605
Well 12	2/2006	110	114	465
Well 13	Unknown	Unknown	Unknown	Unknown
Well 14	Unknown	Unknown	Unknown	Unknown
Well 15	Unknown	Unknown	Unknown	Unknown
Well 16	Unknown	Unknown	Unknown	Unknown
Well 17	4/2014	165	180	660
Well 18	4/2014	150	160	660
Well 19	4/2014	58	65	560
Well 20	4/2014	1	58	560
Well 21	4/2014	30	50	600
Well 22	4/2014	32	50	600
Well 23	4/2014	35	50	180
Well 24	4/2014	22	50	500
Well 25	4/2014	59	61	600
Well 26	4/2014	0	50	660
Well 27	5/2014	115	235	500
Well 28	5/2014	197	200	540
Well 31	5/2014	190	225	500

 Table 2: Well Construction Information

Chazen conducted pumping tests in 2006 and 2007 on several wells on the project site. The table below summarizes the results of the yield test conducted.

Well ID	2006 Well Yield (gallons per minute)	2007 Well Yield (gallons per minute)
Well 1	80	NT
Well 2	100	NT
Well 4	12	NT
Well 5	23	NT
Well 9	75	105
Well 11	65	65

**Table 3: Summary of Chazen Well Yield Tests** 

NT not tested

# **2014 PUMPING TEST PROGRAM**

A simultaneous 72-hour pumping test of five bedrock wells (Wells 1, 2, 9, 11 and 25) was conducted at the Silo Ridge Resort Community property from June 9 through 12, 2014. Originally the Pumping Test Plan called for the inclusion of Well 28 as a pumping well during the simultaneous test. However, upon startup of the pump in Well 28, the water became very turbid and the yield of the well decreased. The pump in Well 28 was shut down and the location was used as a monitoring well during the remainder of the test period.

Following the completion of the simultaneous pumping test and a water-level recovery period, an individual 72-hour pumping test of the most productive well, Well 31, was conducted from June 16 through June 19, 2014. The individual test on the most productive well was complete to meet the NYSDOH well yield requirement of demonstrating twice the average water demand with the most productive well (best well) out of service.

During the pumping test period, water-level measurements were collected from Wells 1, 2, 9, 11, 25 and 31 to assess water-level drawdown and stabilization in the pumping wells. Water-level measurements were also collected from 21 onsite bedrock monitoring wells and 6 onsite piezometers (PZ-A, PZ-B, PZ-C, PZ-D1, PZ-D2 and PZ-E) installed in surface-water features located near the pumping wells. Stream gaging measurements and/or stream flow observations were collected at onsite locations SG-1, SG-2, SG-3 and SG-4.

In addition to the onsite data collection, water-level measurements were collected from four neighboring wells located to the north and east of the study area. The onsite and offsite water-level monitoring locations are shown on Plate 1. Hydrographs and summary tables of the water-level measurements collected from the pumping wells are included in Appendix II. Hydrographs of water-level measurements collected from the onsite monitoring wells, offsite monitoring wells, and surface-water monitoring points are included in Appendix III, IV and V, respectively. An electronic copy of spreadsheets containing all of the water-level data collected from the pumping wells and monitoring locations have been provided as an attachment to this report.

Short-term preliminary yield tests were conducted on the pumping wells prior to the formal 72-hour pumping tests to assess well yield, potential well interference effects, and to determine which was the highest producing well. The short-term tests were conducted from May 24 through June 4 on the pumping wells.

At the start of the simultaneous pumping test on June 9, a staggered pump startup schedule was conducted to assess the potential for mutual water-level interference between the wells under simultaneous pumping conditions. Pumping was started as 11:32 in Well 2, 13:51 in Well 25, 17:24 in Well 11, 18:55 in Well 9, and 19:30 in Well 1. The simultaneous pumping of the six bedrock wells was ended at 23:50 on June 12. The individual test on Well 31 was started at 12:25 on June 16 and the test was shut down at 12:44 on June 19.

Temporary well pumps, totalizing meters, sample ports and discharge hose were installed in Wells 1, 2, 9, 11, 25 and 31 for the test program. The temporary pump settings for the wells are provided below:

Well ID	Pump Depth (feet)
Well 1	140
Well 2	270
Well 9	235
Well 11	570
Well 25	60
Well 31	200

**Table 4: Pump Settings During 72-Hour Pumping Tests** 

The discharge locations used for the pumping wells during the tests are shown on Plate 1. The discharge locations were selected to allow water to flow through the existing onsite surfacewater features (which are connected through drainage channels and a network of underground storm-water drainage pipes) and off the project site.

The discharge rates for the wells were measured using the totalizing meters installed on the wells' discharge lines and also using 15-gallon or 30-gallons buckets at the end of the discharge hoses. For consistency, the discharge rates measured with the buckets at the end of the discharge hoses have been used in this report as the confirmed yields for all of the pumping wells during the tests.

Physical parameters of temperature, pH, total dissolved solids (TDS) and conductivity were measured in the discharge water from Wells 2, 11, 25, and 31 and nearby surface-water features during the pumping tests as part of an assessment for potential groundwater under the influence of surface water (GWUDI). Physical parameter measurements were not collected from Wells 1 and 9 because these wells are not intended for potable use; therefore, no GWUDI assessment was warranted. Graphs and a table summarizing the temperature, pH and conductivity measurements collected are included in Appendix VI.

Precipitation was monitored using a manual rain gage placed on the Silo Ridge property and information from a local rain gage station in Wingdale, NY that publishes hourly precipitation totals on the internet was reviewed during the test period. Official daily precipitation totals recorded at the N.O.A.A. Millbrook weather station are shown on the hydrographs for the wells and surface-water monitoring locations for reference. The water levels on the hydrographs for the pumping wells and bedrock monitoring wells do not show a significant response (rise in water level) to the precipitation events that took place during the pumping test data collection period. The table below shows a summary of the daily precipitation totals from the Millbrook, NY station during the pumping test period.

Date	<b>Total Precipitation (inches)</b>	Date	<b>Total Precipitation (inches)</b>
5/24/2014	0	6/9/2014	0.08
5/25/2014	0	6/10/2014	0
5/26/2014	0.03	6/11/2014	0.20
5/27/2014	0.01	6/12/2014	0
5/28/2014	0.03	6/13/2014	0.58

Table 5: Summary of Precipitation Received During Test Period, Millbrook, New York

Date	<b>Total Precipitation (inches)</b>	Date	<b>Total Precipitation (inches)</b>
5/29/2014	0	6/14/2014	0.01
5/30/2014	0.06	6/15/2014	0
5/31/2014	0	6/16/2014	0
6/1/2014	0	6/17/2014	0
6/2/2014	0	6/18/2014	0.13
6/3/2014	0.44	6/19/2014	0.09
6/4/2014	0	6/20/2014	0
6/5/2014	0.33	6/21/2014	0
6/6/2014	0	6/22/2014	0
6/7/2014	0	6/23/2014	0
6/8/2014	0	6/24/2014	0

Table 6 contains a summary of monthly precipitation information from the N.O.A.A. Millbrook climate station from July 2013 and June 2014 (12 months). The monthly precipitation totals have been compared to the historical, long-term monthly average precipitation data (1971-2000) for this station.

Date	Monthly Total Precipitation (inches)	Long-Term Monthly Mean Precipitation (inches) 1971-2000	Difference Between Reported Monthly Value and Long-Term Mean (inches)
July 2013	3.21	4.37	-1.16
August 2013	7.13	4.24	2.89
September 2013	2.98	3.82	-0.84
October 2013	3.01	3.61	-0.60
November 2013	2.65	3.12	-0.47
December 2013	4.10	2.99	1.11
January 2014	2.98	3.05	-0.07
February 2014	5.18	2.62	2.56
March 2014	3.45	3.07	0.38
April 2014	4.20	3.40	0.80
May 2014	2.50	4.34	-1.84
June 2014	2.39	3.96	-1.57

Table 6: Monthly Precipitation for Millbrook Station for 2013 and 2014 and Long-Term Mean Values

The data shows below average precipitation in May 2014, prior to the start of the start of pumping test period in June 2014. This below average rainfall which continued into June was reflected in the low surface-water levels in the onsite ponds and little or no stream flow in the intermittent streams on the site during the test period.

Water-level monitoring equipment was installed in the onsite and offsite monitoring locations starting on May 21, prior to the start of the testing program, to collect background water-level information. Water levels were measured manually and with automated pressure

transducers during the test period. The monitoring equipment was removed starting June 23, following the end of the second pumping test and water-level recovery period.

Water samples were collected from proposed water-supply Wells 2, 11, 25 and 31 for all parameters required by the NYSDOH Sanitary Code Part 5, Subpart 5-1. Water samples were not collected from Wells 1 and 9 because these wells are not intended for potable use. The water samples were taken to Envirotest Laboratories, Inc. in Newburgh, New York for analysis. In addition to the Part 5 analyses, water samples were collected for microscopic particulate analysis (MPA) and giardia and cryptosporidium analysis as part of the assessment for potential GWUDI. At the request of the DCDH, the wells were also sampled for dioxin, endothall, glyphosate and diquat.

#### **PUMPING WELLS**

## <u>Well 1</u>

The pump in Well 1 was initially started at 15:59 on June 9. However, after 28 minutes of pumping, the generator on this well malfunctioned and shut down and a replacement generator had to be brought in. The 72-hour pumping test on Well 1 was restarted at 19:30 on June 9, 2014.

Prior to the start of pumping in any of the onsite wells on June 9, the static water level in Well 1 was 11.43 ft bloc (feet below top of casing). During the staggered well startup period, the water level in Well 1 declined 0.58 feet likely as a result of pumping in Well 2.

The pumping rate in Well 1 was set at 103 gpm at the startup of the test. Once the rate was set, the well was allowed to pump with no rate adjustments. As the water level in the well declined, the yield decreased as a result of the loss of pressure head over the top of the pump and no rate increases were made to compensate for the loss in head. The pumping rate in Well 1 reached 87 gpm around 5:00 on June 10 where is remained for the duration of the test period.

Three pump shutdowns occurred in Well 1 during the test period as result of generator malfunctions. The shutdowns occurred on June 10 from 14:53 to 16:33, and on June 11 from 13:12 to 15:07 and from 16:51 to 17:03. Upon restart of the well after each shutdown, the pumping rate and water-level drawdown in the well quickly resumed their pre-shutdown trends.

The pumping test on Well 1 ended at 23:53 on June 12. The pumping water level in the well at the end of the test was 98.92 ft btoc, for a total water-level drawdown of 87.49 feet. Water-level drawdown in Well 1 was stable (less than 0.5 foot of water-level decline per 100 feet of available drawdown) for the last 10 hours of the test period. The hydrograph and a summary table of water-level measurements collected from Well 1 are included in Appendix II.

The water level in Well 1 did not recover rapidly after shut down of the pumping test. Seventy-two (72) hours after the end of the simultaneous test, the water level in Well 1 had reached 51% of the pre-test static level. Water-level measurement collection continued in Well 1 during the individual test conducted on Well 31 the following week. No discernible water-level drawdown was measured in Well 1 as a result of pumping Well 31 at 158 gpm. By June 24 when the water-level monitoring equipment was removed from Well 1 (11.5 days after the end of the simultaneous well test) the water level in Well 1 had reached 91% of its pre-test static level.

## <u>Well 2</u>

The pump in Well 2 was started at 11:32 on June 9, 2014. Prior to the start of pumping, the static water level in Well 2 was 13.48 ft btoc. The pumping rate in Well 2 was initially 220 gpm and was manually decreased to 180 gpm soon after the startup of the pump. As the water level in the well declined, the yield decreased as a result of the loss of pressure head over the top of the pump and no rate increases were made to compensate for the loss in head. The pumping rate in Well 2 reached 170 gpm around 14:00 on June 10; however, based on the trend of water-level drawdown in the well it was determined that a rate reduction was necessary. The pumping rate in Well 2 was manually reduced at 20:00 on June 10 to 150 gpm where is remained for the duration of the test period.

The pump in Well 2 was shut down at 23:50 on June 12. The pumping water level in the well at the end of the test was 224.48 ft bloc, for a total water-level drawdown of 211.0 feet. Water-level drawdown in Well 2 was stable for the last 21 hours of the test period.

Water-level recovery measurements were collected from Well 2 after shut down of the pumping test. Fourteen (14) hours after the end of the test the water level had reached 76% of the pre-test static level. The water level reached 90% recovery to the pre-test static approximately 52 hours after the end of the simultaneous test.

Water-level measurement collection continued in Well 2 during the individual test conducted on Well 31 the following week. A minor disruption in the recovery trend in Well 2 can be seen on the graph. A projection of the water-level recovery trend compared to the actual water levels measured in Well 2 during that period shows approximately 1.0 foot of drawdown in Well 2 as a result of pumping Well 31 at 158 gpm.

## <u>Well 9</u>

The pump in Well 9 was started at 18:55 on June 9, 2014. Prior to the start of pumping in any of the onsite wells, the static water level in Well 9 was 42.48 ft btoc. During the staggered well startup period, the water level in Well 9 declined 1.34 feet mainly as a result of pumping in Well 28 (before the well was eliminated from the test program) and Well 11.

The pumping rate in Well 9 was set at 85 gpm following the start of the pump and maintained at 85 gpm for duration of the test. Two well pump shutdowns occurred in Well 9 during the test period as result of generator malfunctions. The shutdowns occurred on June 10 from 7:15 to 7:50 and from 12:20 to 13:12. Upon restart of the well after each shutdown, the pumping rate and water-level drawdown in the well quickly resumed their pre-shutdown trends.

The pumping test on Well 9 was ended at 23:55 on June 12. The pumping water level in the well at the end of the test was 145.34 ft btoc, for a total water-level drawdown of 102.86 feet. Water-level drawdown in Well 9 was stable for the last 40 hours of the test period.

Water-level recovery was measured in Well 9 after shut down of the pumping test. Twenty-four (24) hours after the end of the test the water level had reached 91% of the pre-test static level and the water level was 100% recovered prior to the start of the test on Well 31 the following week.

Water-level measurement collection continued in Well 9 during the individual test conducted on Well 31. Water-level drawdown of 5.6 feet was measured in Well 9 as a result of pumping Well 31 at 158 gpm.

# <u>Well 11</u>

The pump in Well 11 was initially started at 12:58 on June 9. However, after 17 minutes of pumping a short in the electrical wiring to the pump occurred requiring that the pump be shut

down for repair. Following the repair of the wiring, the 72-hour pumping test on Well 11 was restarted at 17:24 on June 9.

Prior to the start of pumping in any of the onsite wells on June 9, the static water level in Well 11 was 32.25 ft btoc. Before the initial start of the pump in Well 11 at 12:58, no discernible water-level drawdown was measured in Well 11 as result of pumping in Well 2.

The pumping rate in Well 11 was adjusted to 65 gpm following the startup of the test at 17:24. A rate adjustment was completed at 23:45 on June 9 to maintain the 65 gpm pumping rate in the well. The pumping rate in Well 11 remained at 65 gpm for the duration of the pumping test following the rate adjustment.

The pumping test on Well 11 ended at 23:53 on June 12. The final water level in the well at the end of the test was 437.12 ft btoc, for a total water-level drawdown of 404.87 feet. Water-level drawdown in Well 11 demonstrated stabilization during the last 6 hours of the test period. The hydrograph and a summary table of water-level measurements collected from Well 11 are included in Appendix II.

The water level in Well 11 recovered rapidly after shut down of the pumping test. The water-level in Well 11 was 99+% recovered to the pre-test static level 24 hours after shutdown of the simultaneous pumping test.

Water-level measurement collection continued in Well 11 during the individual test conducted on Well 31 the following week. Water-level drawdown of 60.81 feet was measured in Well 11 as a result of pumping Well 31 at 158 gpm.

# <u>Well 25</u>

The pump in Well 25 was started at 13:51 on June 9. The static water level in Well 25 was 15.13 ft btoc. Prior to the start of the pump in Well 25 at 13:51, no discernible water-level drawdown was measured in Well 25 as result of pumping in Well 2 during the staggered well startup period.

The pumping rate in Well 25 was set at 39 gpm at the start of the test. After 2.5 hours of pumping, based on the trend of water-level drawdown in the well it was determined that a rate reduction was necessary. The pumping rate in Well 25 was manually reduced at 16:21 on June 9 to 33 gpm where is remained for the duration of the test period.

The pumping test on Well 25 ended at 23:56 on June 12. The pumping water level in the well at the end of the test was 38.52 ft btoc, for a total water-level drawdown of 23.39 feet. Water-level drawdown in Well 25 was stable during the last 3 days of the test period. The hydrograph and a summary table of water-level measurements collected from Well 25 are included in Appendix II.

The water level in Well 25 recovered rapidly after shut down of the pumping test. The water-level in Well 25 was 98% recovered to the pre-test static level 24 hours after shutdown of the simultaneous pumping test.

Water-level measurement collection continued in Well 25 during the individual test conducted on Well 31 the following week. Water-level drawdown of 0.3 foot was measured in Well 25 as a result of pumping Well 31 at 158 gpm.

#### <u>Well 31</u>

Water-level measurements were collected from Well 31 during the simultaneous pumping test conducted on Wells 1, 2, 9, 11 and 25 during the first week of testing. Water-level drawdown of 30.43 feet was measured in Well 31 during the simultaneous test period which appears to be mainly attributed to pumping in Well 11.

The individual pumping test on Well 31 was started at 12:25 on June 16. Prior to the start of pumping, the static water level in Well 31 was 29.53 ft btoc. The initial pumping rate in Well 31 was 200 gpm and was manually reduced to 160 gpm soon after the start of pumping. The pumping rate in Well 31 declined slightly during the test period and reached 158 gpm by 15:00 on June 17. The pumping rate remained at 158 gpm for the duration of the test period.

The pumping test on Well 31 ended at 12:44 on June 19. The pumping water level in the well at the end of the test was 112.63 ft btoc, for a total water-level drawdown of 83.10 feet. Water-level drawdown in Well 31 was stable during the last 26 hours of the test period. The hydrograph and a summary table of water-level measurements collected from Well 31 are included in Appendix II.

The water level in Well 31 recovered rapidly after shut down of the pump. The waterlevel in Well 31 was 97% recovered to the pre-test static level 24 hours after shutdown of the pumping test.

#### **180-Day Water-Level Drawdown Projections**

One hundred and eighty (180) day water-level drawdown projections were completed for all of the pumping wells (Wells 1, 2, 9, 11, 25 and 31) from the data collected during their respective pumping tests. Copies of the graphs with the 180-day drawdown projections are included in Appendix VII. The projected water levels in all of the pumping wells remain above the pump settings used during the pumping test program after 180 days of continuous pumping.

# **ONSITE MONITORING WELLS**

In addition to the onsite pumping wells, water-level measurements were collected from 21 onsite bedrock monitoring wells during the pumping tests. The monitoring well locations are shown on Plate 1 and figure 3. Hydrographs of the water-level measurements collected from the onsite monitoring wells are included in Appendix III. The table below shows the drawdown measured in the onsite wells during the simultaneous and individual 72-hour pumping tests conducted:

Well ID	Simultaneous Pumping Test (Wells 1, 2, 9, 11 and 25) June 9 Through June 12, 2014	Individual Pumping Test (Well 31) June 16 Through 19, 2014			
	Pumping Wells				
W-11_1		ND			
Well 1	PW	ND			
Well 2	PW	1.0			
Well 9	PW	5.6			
Well 11	PW	60.8			
Well 25	PW	0.30			
Well 31	30.4	PW			
	Onsite Monitoring Wells				
Well 3	ND	ND			
Well 5	5.0	ND			
Well 6	ND	ND			
Well 7	ND	ND			
Well 8	ND	ND			
Well 10	15	2.0			
Well 12	5.0	0.5			
Well 13	ND	ND			
Well 14	ND	ND			
Well 16	4.0	1.0			
Well 17	3.5	6.0			
Well 18	24.5	18.5			
Well 19	2.5	6.5			

Table 7: Summary of Drawdown Measured in Onsite Monitoring Wells

Well ID	Simultaneous Pumping Test (Wells 1, 2, 9, 11 and 25) June 9 Through June 12, 2014	Individual Pumping Test (Well 31) June 16 Through 19, 2014
Well 20	21	43
Well 21	ND	ND
Well 22	5.0	ND
Well 23	ND	ND
Well 24	1.5	ND
Well 26	10	ND
Well 27	175	ND
Well 28	43	7.0

ND none discernible

PW pumping well

During the simultaneous pumping test, water-level drawdown in the onsite monitoring wells ranged from no discernible drawdown to 175 feet. Monitoring Wells 27 and 31 showed the largest drawdown during the test which is attributed to those monitoring wells being located in closest proximity to pumping Wells 2 and 11, respectively. An assessment of the approximate extent of drawdown influence for the pumping wells during the simultaneous pumping test is shown on figure 4.

During the individual pumping test on Well 31, water-level drawdown in the onsite monitoring wells ranged from no discernible drawdown to 60.8 feet in Well 11, which is the closest monitoring well to Well 31 on the site. An assessment of the approximate extent of drawdown influence for Well 31 during the individual pumping test is shown on figure 5.

# **OFFSITE MONITORING WELLS**

During the 72-hour pumping test program, water-level measurements were collected from four offsite wells located at 4623 Route 22, 4717 Route 22, 11 West Lake Amenia Road, and 5020 Route 44 (figure 3). Hydrographs for the offsite wells monitored are included in Appendix IV. No discernible water-level drawdown was measured in any of the offsite wells monitored during the simultaneous pumping test on Wells 1, 2, 9, 11, and 25 or individual pumping test on Well 31 as a result of pumping in the onsite test wells on the Silo Ridge property.

#### **ONSITE SURFACE-WATER MONITORING**

Water-level measurements were collected from five onsite piezometer locations during both pumping tests conducted. The five piezometer locations, PZ-A, PZ-B, PZ-C, PZ-D1/D2, and PZ-E, were installed for the pumping test program by LBG in the onsite surface-water features located near the pumping wells. Hydrographs and a summary table of the water-level measurements collected from the onsite piezometers during the pumping tests are included in Appendix V. The locations of the surface-water monitoring points are shown on Plate 1.

The piezometers were constructed of a 1.25-inch diameter, 1-foot long, 10-slot stainless steel screens attached to a 5-foot length of galvanized steel drive pipe. Shallow groundwater level measurements were collected from the interior of the piezometers and, where surface water was present, surface-water level measurements were collected from the exterior of the piezometer. No surface water was present at the location of piezometer PZ-D1/D2, therefore a pair of piezometers with set together, one with a shallow screen setting and one with a deeper screen setting.

# PZ-A

Piezometer PZ-A was installed in the intermittent stream located adjacent to Well 2. Throughout the data collection period, the surface-water elevation at PZ-A was higher than the groundwater elevation, which indicates that the surface water was recharging the groundwater at this location (downward gradient). Both the surface water and groundwater levels at PZ-A showed a slightly declining trend during background monitoring and throughout the pumping test period, and precipitation events which occurred during the test period did not cause a significant response in the water levels at this piezometer.

No discernible drawdown in the groundwater or surface-water level in PZ-A was observed during the simultaneous or individual 72-hour pumping tests that is attributed to pumping in the onsite wells.

## <u>PZ-B</u>

Piezometer PZ-B was installed in the smaller pond (Pond B) of the two central ponds adjacent to Wells 11 and 31. During the background monitoring period, the surface-water level

in the pond receded and PZ-B was no longer submerged. A staff gage was installed near PZ-B and the surface-water measurements from the staff gage correlated to the piezometer to determine surface-water drawdown and recharge gradient at this monitoring location during the test period.

The hydrograph for PZ-B shows minor drawdown in both the groundwater and surfacewater at this piezometer location during both the simultaneous and individual pumping test periods. During the simultaneous pumping test, drawdown in the surface water was about 0.10 foot and in the groundwater was 0.15 foot. During the individual pumping test, drawdown in the surface water was 0.25 foot and in the groundwater was 0.30 foot. Similar to the other onsite piezometers, the gradient at this piezometer location was downward, with surface water recharging groundwater, throughout the data collection period.

# <u>PZ-C</u>

Piezometer PZ-C was installed in the intermittent stream located near pumping Well 9 and monitoring Well 10. The surface-water level in PZ-C stayed consistent (no increase or decline) during the background and pumping test periods and showed no significant response to precipitation events which occurred. The groundwater level in PZ-C showed a slight rise during the simultaneous pumping test. PZ-C showed a downward gradient, with surface water recharging groundwater, throughout the data collection period.

No discernible drawdown in the groundwater or surface-water level in PZ-C was observed during the simultaneous or individual 72-hour pumping tests that can be attributed to pumping of the onsite wells.

### PZ-D1/D2

Piezometers PZ-D1/D2 were installed in the wetland area near Well 25. The screens for PZ-D1 (shallow) and PZ-D2 (deeper) were set at differing depths below grade so that a gradient comparison could be conduct since no surface water was present at this monitoring location.

The groundwater levels in PZ-D1/D2 showed some oscillation during the background and pumping test periods. The water levels in both piezometers also showed a slight response to precipitation events which occurred on June 3, 5, 11 and 13. No discernible water-level drawdown was measured in the PZ-D1 or PZ-D2 during the individual or simultaneous pumping

tests conducted. PZ-D1/D2 showed a downward recharge gradient during both pumping test events.

## <u>PZ-E</u>

Piezometer PZ-E was installed in the larger pond (Pond A) of the two central ponds located near Wells 11 and 31. During the background monitoring period, the surface water level in the pond receded and PZ-E was no longer submerged. A staff gage was installed near PZ-B and the surface-water measurements from the staff gage correlated to the piezometer to determine surface-water drawdown and recharge gradient at this monitoring location during the test period.

The hydrograph for PZ-E shows a rise in water level during the simultaneous pumping test. This rise is the result of water from pumping Wells 1 and 2 being discharged into this pond. The discharge into the pond stopped at the end of the simultaneous pumping test, and the groundwater and surface-water levels at PZ-E declined steadily throughout remaining data collection period, including during the individual test on Well 31.

There is no discernible drawdown in the surface-water or groundwater levels in PZ-E during either test period. However, unlike the other onsite piezometers, the recharge gradient at this monitoring location was upward during a large portion of the data collection period, with groundwater recharging surface water. However, the gradient direction changed on the second day of both the individual and simultaneous pumping tests from upward to downward (surface water recharging groundwater). Although no measurable drawdown was observed in the piezometers during the test periods, the change in gradient may be an indication of minor pumping influence at the location of PZ-E.

#### **ONSITE STREAM GAGING**

Stream gaging was conducted on the project site during the 72-hour pumping tests at locations SG-1, SG-2 and SG-4. A fourth stream gaging location, SG-3, was established prior to the start of testing during the background monitoring period. However, there was no overflow from Pond B at any point during the pumping test data collection period and, consequently, no

flow at stream gaging location SG-3. The steam flow measurements collected during the test period are provided on the table below.

Date and Time	SG-1 Flow (cfs)	Date and Time	SG-2 Flow (cfs)	Date and Time	SG-4 Flow (cfs)
6/2/2014 14:30	0.14	6/2/2014 14:15	0.13	6/2/2014 13:57	1.29
6/4/2014 17:00	0.11	6/4/2014 16:35	0.14	6/4/2014 10:32	1.14
6/5/2014 14:21	0.11	6/5/2014 13:00	0.18	6/4/2014 14:42	1.14
6/9/2014 11:20	0.12	6/9/2014 13:00	0.10	6/5/2014 12:30	1.14
6/9/2014 14:21	0.11	6/10/2014 9:47	0.11	6/6/2014 15:45	0.95
6/10/2014 9:19	0.03	6/11/2014 8:39	0.03	6/9/2014 11:00	1.14
6/11/2014 8:56	0.06	6/11/2014 18:48	0.05	6/9/2014 17:20	1.14
6/11/2014 19:00	0.09	6/12/2014 11:14	0.06	6/10/2014 10:13	0.46
6/12/2014 9:17	0.04	6/12/2014 17:41	0.06	6/10/2014 18:40	0.69
6/12/2014 17:28	0.04	6/13/2014 11:20	0.06	6/11/2014 9:27	0.76
6/16/2014 9:20	0.04	6/13/2014 14:46	0.07	6/11/2014 19:40	0.76
6/16/2014 15:16	0.04	6/16/2014 9:10	0.05	6/12/2014 11:23	0.84
6/17/2014 9:10	0.04	6/17/2014 9:25	0.02	6/12/2014 17:57	0.84
6/17/2014 14:25	0.04	6/17/2014 14:42	0.02	6/13/2014 11:11	0.87
6/18/2014 9:14	0.04	6/18/2014 9:28	0.02	6/13/2014 14:35	0.98
6/18/2014 14:13	0.04	6/18/2014 14:29	0.02	6/16/2014 9:35	0.73
6/19/2014 8:50	0.06	6/19/2014 9:11	0.02	6/16/2014 13:09	0.76
6/19/2014 15:00	0.05			6/17/2014 13:24	0.73
				6/17/2014 15:07	0.73
				6/18/2014 11:21	0.73
				6/18/2014 15:02	0.69
				6/19/2014 10:12	0.76

**Table 8: Stream Flow Measurements** 

cfs cubic feet per second

Stream gage locations SG-1 and SG-2 were established in the intermittent stream channel near Well 2. SG-1 was the upstream location from pumping Well 2 and SG-2 was located in the stream adjacent to Well 2. Flow in the stream was low during the data collection, with flows at SG-1 ranging from 0.03 cfs (cubic feet per second) to 0.14 cfs and at SG-2 from 0.02 cfs to 0.18 cfs. Piezometer PZ-A, which was located near SG-2 in the intermittent stream channel showed a downward gradient (surface water recharging groundwater) throughout the background, testing, and water-level recovery periods and showed no discernible impact from pumping in Well 2.

A graph comparing the stream flow measurements collected from SG-1 and SG-2 is included in Appendix VIII. The data shows minor changes in stream flow at both gaging locations during the data collection period in response to precipitation/runoff events. Changes in

the stream flow were observed during the simultaneous pumping test, with a small decline in flow measured on June 10 in SG-2 and on the morning of June 11 in SG-1. These declines in flow were followed by increases in stream flow at both gaging locations on June 11 before the end of the pumping test period. No notable changes in stream flow were measured at SG-1 or SG-2 during the individual test on Well 31.

Overall, there was no discernible decrease in flow at SG-2 compared to the upstream location SG-1 during the simultaneous (Wells 1, 2, 9, 11 and 25) or individual (Well 31) well tests. This data indicates no significant impact in the stream flow in the intermittent stream from pumping in the onsite wells.

Stream gage location SG-4 was established at the end of the outlet pipe that discharges water from Pond A. The outlet pipe is control by a valve that is used to increase and decrease outflow to control the water level in the pond. For the test period, the valve was set at approximately <sup>1</sup>/<sub>4</sub>-open at the start of the background data collection period and remained at <sup>1</sup>/<sub>4</sub>-open for the duration of the test period. The graph of flow measurements collected from SG-4 is included in Appendix VIII.

The discharge water from Wells 1 and 2 were directed into Pond A during the simultaneous pumping test period. A sharp decline in flow at SG-4 was measured on the second day (June 10) of the simultaneous pumping test. The decrease in flow SG-4 on June 10 was followed by a slow increase in flow over the remainder of the simultaneous test period. The increase was likely caused by the discharge water from Wells 1 and 2 entering the pond. The decrease in flow from Pond A measured on the second day of the simultaneous pumping test may be an indication of interference from pumping of the onsite wells with Pond A.

Flow measurement collected from SG-4 during the individual pumping test on Well 31 showed no significant variations. This data indicates no impact to the flow in Pond A from pumping in Well 31.

#### WATER QUALITY

Water samples were collected from Wells 2, 11, 25 and 31 during their respective pumping tests. Water samples were not collected from Wells 1 and 9 during the test because these wells are not planned for use as potable water-supply wells. The water samples collected

were taken to Envirotest Laboratories, Inc. located in Newburgh, New York for analysis. The samples were analyzed for all parameters required by the NYSDOH Sanitary Code Part 5, Subpart 5-1. In addition, microscopic particulate analysis (MPA) and giardia and cryptosporidium samples were collected as part of the assessment for potential GWUDI, and dioxin, endothall, glyphosate and diquat analyses were completed. Copies of the laboratory reports are included in Appendix IX.

Additional water samples were collected from Well 25 on June 24 because a cooler of sample bottles was held up in transit to a subcontractor laboratory which caused the samples to exceed their respective hold times and temperature storage requirements. The well was resampled after being pumped to waste for 18 hours.

Physical parameter measurements of pH, temperature, conductivity and TDS were also measured in the discharge water from Wells 2, 11, 25 and 31 and the nearby surface water during their respective test periods. Graphs of the data collected are included in Appendix VI. The data was collected as part of an assessment of GWUDI for the wells.

#### <u>Well 2</u>

Water samples from Well 2 meet all NYSDOH drinking water standards with the exception of the total iron and the combined total iron and total manganese concentrations. The total iron concentration in Well 2 was 0.340 mg/l (milligrams per liter) which exceed the maximum contaminant level (MCL) of 0.3 mg/l. The combined total iron and manganese concentration was 0.598 mg/l which exceeds the MCL of 0.5 mg/l.

Dissolved iron and manganese analyses were also completed on the samples from Well 2. The dissolved iron concentration was 0.117 mg/l and the combined dissolved iron and manganese concentration was 0.360 mg/l, which are both below the NYSDOH MCL.

The MPA sample from Well 2 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected form Well 2 and the nearby surface water also showed no indication of potential GWUDI. However, a giardia detection was reported in the EPA Method 1623 analysis completed. A detection of giardia will very likely result in a positive GWUDI designation for Well 2 and treatment will be required.

### <u>Well 11</u>

Water samples from Well 11 met all NYSDOH drinking water standards with the exception of the presence of total coliform. No e. coli was present in the bacteria sample collected from the well. Well 11 will need to be disinfected and resampled for total coliform prior to being placed into service.

The MPA sample from Well 11 was reported to be low risk for GWUDI. However, a nematode, which is a secondary indicator organism with no assigned risk factor, was detected in the sample collected. The physical parameter data collected from Well 11 and the nearby surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.

#### <u>Well 25</u>

Water samples from Well 25 meet all NYSDOH drinking water standards with the exception of the TDS concentrations and a detection of bis (2ethylhexyl) phthalate. The TDS concentration in Well 25 was 306 mg/l which exceeds the NYSDOH drinking water standard MCL of 250 mg/l. A bis (2ethylhexyl) phthalate detection of 9.0 ug/l was reported in Well 25 which exceeds the MCL of 6 ug/l. Bis (2ethylyhexyl) phthalate is a known laboratory contaminant; however, the compound was not detected in the laboratory blank and the laboratory report indicates the sample was rerun to confirm the detection.

The MPA sample from Well 25 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected form Well 25 and the nearby surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.

#### <u>Well 31</u>

Water samples collected from Well 31 met all NYSDOH drinking water standards with the exception of the combined total iron and manganese concentration. The combined total iron and manganese was reported at 0.583 mg/l which exceeds the MCL value of 0.5 mg/l. Dissolved iron and manganese analyses were also complete on the samples collected. This combined dissolved iron and manganese concentration was 0.363 mg/l which is below the MCL.

The MPA sample from Well 31 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected from Well 31 and the nearby surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.

# **DISCUSSION AND CONCLUSIONS**

- Pumping Wells 1, 2, 9, 11 and 25 demonstrated stabilized yield and water-level drawdown during the simultaneous 72-hour pumping test conducted at pumping rates of 87 gpm, 150 gpm, 85 gpm, 65 gpm and 33 gpm, respectively. The combined yield of the five pumping wells during the simultaneous 72-hour pumping test was 420 gpm.
- The combined stabilized yield demonstrated during the simultaneous pumping test of proposed supply Wells 2 and 11 of 215 gpm is more than sufficient to meet twice the estimated average water demand of the proposed Silo Ridge Resort Community project of 177.2 gpm. Water-level recovery following in the end of pumping was good in these wells, with the water level reaching 90% of the pre-test static height within 52 hours of shutdown of the pump in Well 2 and 90+% of the pre-test static within 24 hours of shutdown of the pump in Well 11. In addition, 180-day water-level drawdown projection completed for these wells show the pumping water levels remains above the test pump setting depth.
- Pumping Well 31 demonstrated stabilized yield and water-level drawdown at a pumping rate of 158 gpm. This well was tested individually as the best well and satisfies the NYSDOH well yield requirement of meeting twice the average water demand with the best well out of service. Water-level recovery following in the end of pumping was also good in this well, with the water level reaching 90+% of the pre-test static within 24 hours of shutdown of the pump in Well 31 and the 180-day water-level drawdown projection shows the pumping water level remains above the test pump setting depth.

- Pumping Wells 1, 9 and 25 were tested concurrently with the proposed water-supply Wells 2 ٠ and 11 to demonstrate that the proposed onsite potable water supply and irrigation water supply could be operated concurrently. The combined yield of the proposed irrigation Wells 1, 9 and 25 is 205 gpm. All three wells demonstrated stabilize yield and water-level drawdown during the test period. Water-level recovery in Wells 9 and 25 were good following shutdown of the test with 90+% recovery within 24 hours of shutdown in both wells and the 180-day water-level drawdown projections showed the pumping water levels above the test pump depth settings in both wells. The rate of water-level recovery in Well 1 following the end of the test was notably slower. The water level in Well 1 reached 51% recovery 72 hours after shutdown of the pump in Well 1 and at the end of the data collection period (11.5 days after shutdown of the pump) the water level had reached 91% recovery. The 180-day water-level drawdown projection for Well 1 does show the pumping water-level remains above the test pump depth setting in Well 1. If Well 1 is placed into service as an irrigation well, additional water level monitoring may be warranted to assess the yield of the well under actual operating conditions. The well can be pumped concurrently at 87 gpm with the other onsite wells and has no discernible effect on any nearby offsite wells. Therefore, the additional monitoring would be used to assess the most suitable operating capacity for the well based on actual operating conditions (i.e. duration of pumping cycles).
- Water-level drawdown measured in the onsite bedrock monitoring wells during the simultaneous 72-hour pumping test ranged from no discernible drawdown in the well located farthest from the pumping wells to 175 feet in the closest well. During the individual test on Well 31, water-level drawdown in the onsite wells ranged from no discernible drawdown in the well farthest from the pumping well to 60.88 feet in Well 11, which was the closest monitoring well to the pumping Well 31.
- Water-level measurements were collected from four offsite wells during both pumping tests. No water-level drawdown was measured in any of the offsite wells monitored during either test period.

- Water-level and stream flow measurements were collected from the onsite surface-water • features during the 72-hour pumping tests. No drawdown or stream flow impact was measured in the intermittent stream channel near Well 2. No water-level drawdown in the surface water or groundwater was measured in PZ-C (near Well 9) or PZ-D1/D2 (near Well 25). Drawdown was measured in the surface water and groundwater at PZ-B in Pond B during both the simultaneous and individual pumping tests. During the simultaneous pumping test, 0.1 foot of surface-water drawdown was measured and 0.15 foot of groundwater drawdown was measured. During the individual pumping test, 0.25 foot of surface-water drawdown was measured and 0.30 foot of groundwater drawdown was measured. No measurable drawdown was recorded on PZ-E during either test period. However, a change in recharge gradient at this piezometer location occurred during both pumping tests which may be an indication of minor pumping related influence at the location of PZ-E. In addition, a decline in stream flow was measured on the second day of the simultaneous pumping test at SG-4 (outlet for Pond A). This also may be an indication of pumping related interference in Pond A.
- Water samples were collected from Wells 2, 11, 25 and 31 during the respective pumping tests. Water samples were not collected from Wells 1 and 9 during the test because these wells are not planned for use as potable water-supply wells. The water samples were taken to Envirotest Laboratories, Inc. located in Newburgh, New York for analysis. The samples were analyzed for all parameters required by the NYSDOH Sanitary Code Part 5, Subpart 5-1. In addition, MPA and giardia/cryptosporidium samples were collected as part of the assessment for potential GWUDI, and dioxin, endothall, glyphosate and diquat analyses were completed.
- The water quality in Well 2 met all NYSDOH drinking water standards with the exception of the total iron at 0.340 mg/l and the combined total iron and total manganese concentrations at 0.598 mg/l. Dissolved iron and manganese analyses completed reported a dissolved iron concentration of 0.117 mg/l and the total dissolved iron and manganese concentration was 0.360 mg/l, which are both below the NYSDOH MCL.

- The MPA sample from Well 2 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected form Well 2 and the nearby surface water also showed no indication of potential GWUDI. However, a giardia detection was reported in the EPA Method 1623 analysis completed. A detection of giardia will very likely result in a positive GWUDI designation for Well 2 and treatment will be required
- Water samples from Well 11 met all NYSDOH drinking water standards with the exception of the presence of total coliform. No e. coli was present in the bacteria sample collected from the well. Well 11 will need to be disinfected and resampled for total coliform prior to being placed into service.
- The MPA sample from Well 11 was reported to be low risk for GWUDI. However, a nematode, which is a secondary indicator organism with no assigned risk factor, was detected in the sample collected. The physical parameter data collected from Well 11 and the nearby surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.
- Water samples from Well 25 meet all NYSDOH drinking water standards with the exception of the TDS concentrations and a detection of bis (2ethylhexyl) phthalate. The TDS concentration in Well 25 was 306 mg/l which exceeds the NYSDOH drinking water standard MCL of 250 mg/l. A bis (2ethylhexyl) phthalate detection of 9.0 ug/l was reported in Well 25 which exceeds the MCL of 6 ug/l. Bis (2ethylyhexyl) phthalate is a known laboratory contaminant, but the compound was not detected in the laboratory blank and the laboratory report indicates the sample was rerun to confirm the detection. However, as discussed above, the combined yield of Wells 2 and 11 was sufficient to meet the potable water demand requirements of the project. Therefore, it is likely that Well 25 will be used as an irrigation well and not a potable water-supply source.
- The MPA sample from Well 25 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected form Well 25 and the nearby

surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.

- Water samples collected from Well 31 met all NYSDOH drinking water standards with the exception of the combined total iron and manganese concentration. The combined total iron and manganese was reported at 0.583 mg/l which exceeds the MCL value of 0.5 mg/l. Dissolved iron and manganese analyses were also complete on the samples collected. This combined dissolved iron and manganese concentration was 0.363 mg/l which is below the MCL.
- The MPA sample from Well 31 was reported to be low risk with no indicator organisms detected in the sample. The physical parameter data collected from Well 31 and the nearby surface water also showed no indication of potential GWUDI. No giardia or cryptosporidium detections were reported in the EPA Method 1623 analysis completed.
- Wells 2 and 31 may require treatment to reduce iron and manganese concentrations. In addition, Well 2 should be resampled for MPA and giardia and cryptosporidium to confirm the detection. However, it is likely that the well will need to be treated for GWUDI.

LEGGETTE, BRASHEARS & GRAHAM, INC.

Stacy Stieber, CPG Senior Hydrogeologist

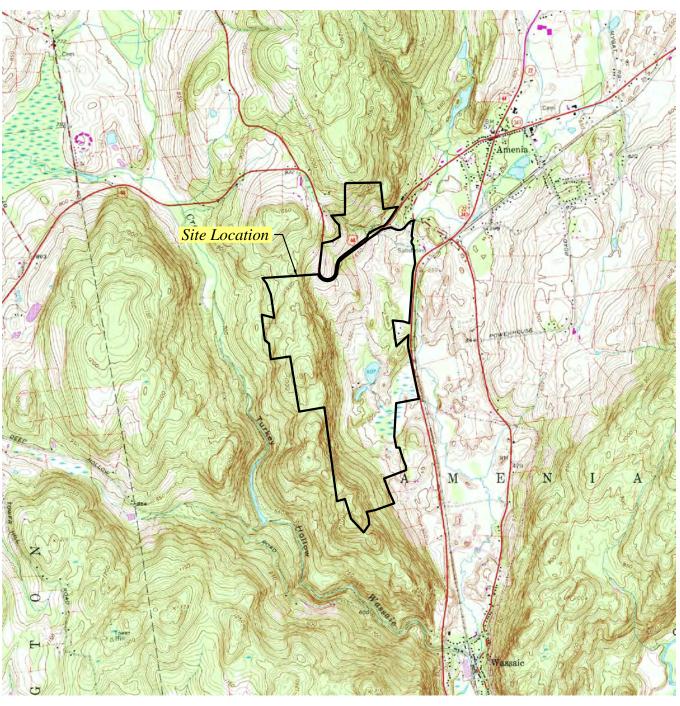
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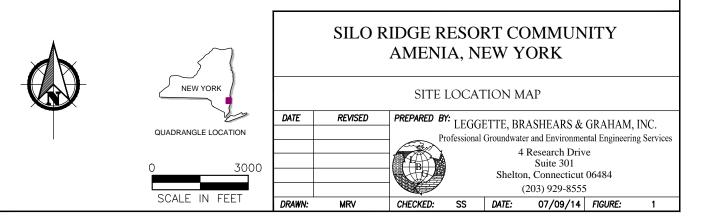
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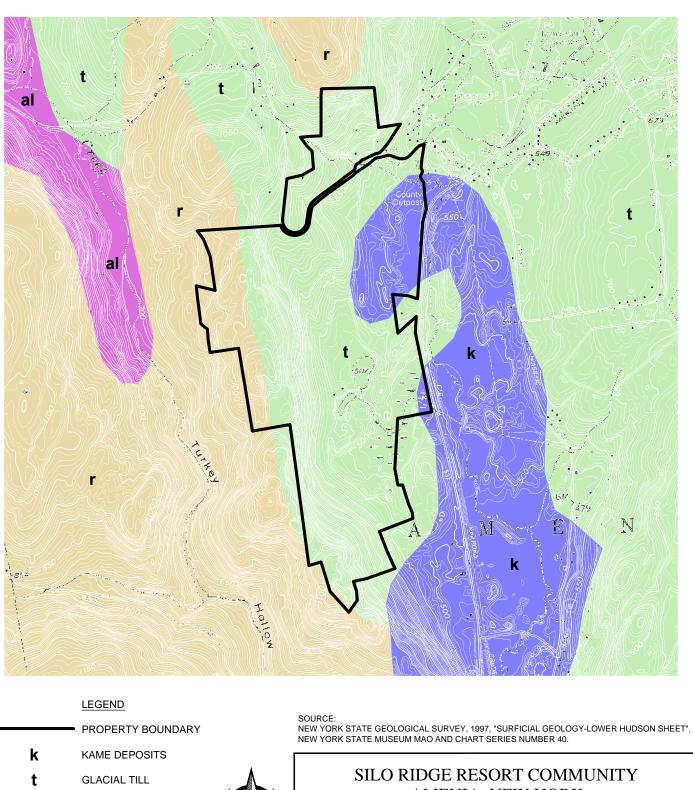
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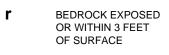
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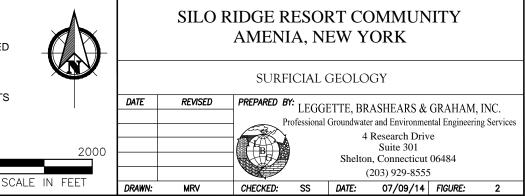
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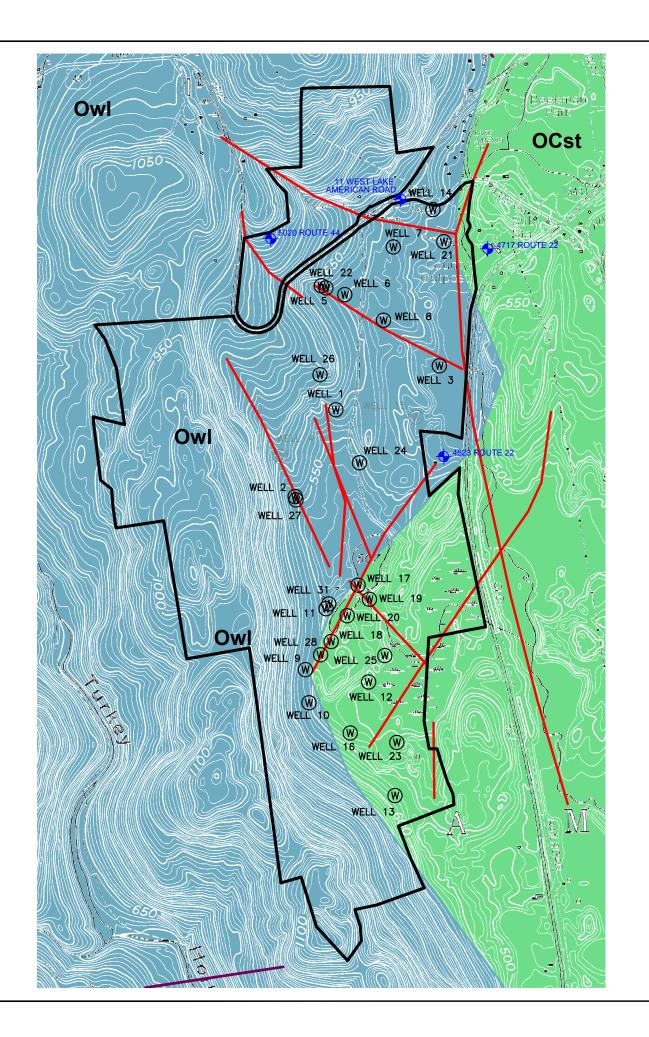


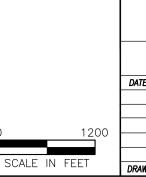




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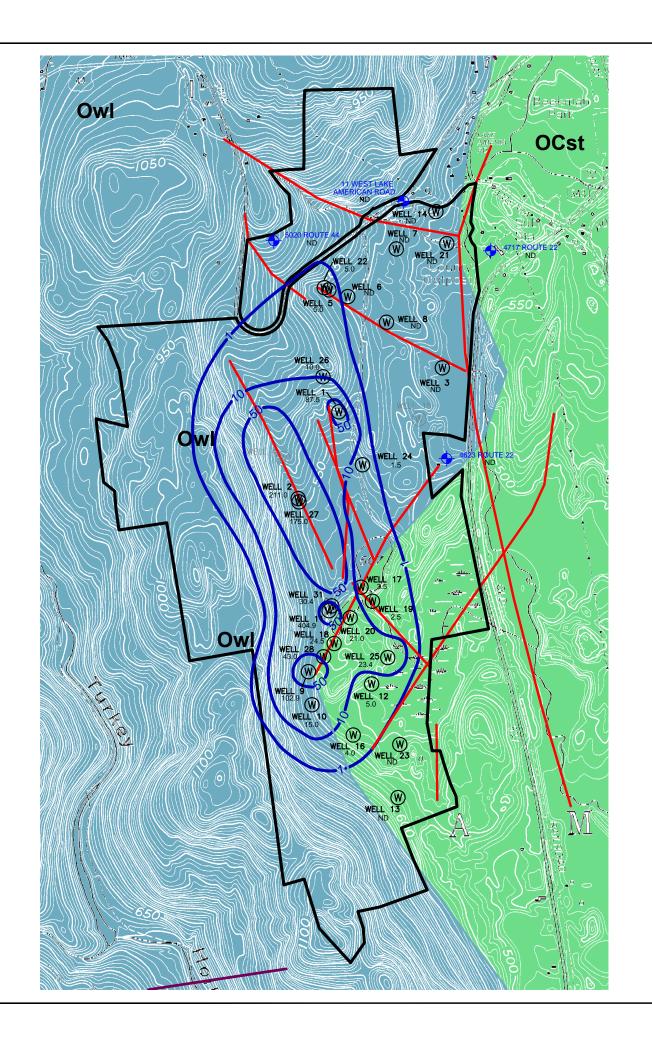
#### LEGEND

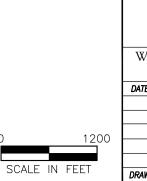
PROPERTY BOUNDARYWELL 11WELL LOCATIONImage: Property boundaryWell LOCATIONImage: Property boundaryApproximate Location of Offsite Well<br/>INCLUDED IN MONITORING PROGRAMImage: Property boundaryWell could Not be Located/Well NOT<br/>Accessible for MONITORINGImage: Property boundaryFaultImage: Property boundar

# SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

BEDROCK GEOLOGY WITH FRACTURE-TRACE ANALYSIS AND EXISTING WELL LOCATIONS

ATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC.					
		Professional Groundwater and Environmental Engineering Services					
		4 Research Drive Suite 301 Shelton, Connecticut 06484 (203) 929-8555					
RAWN:	RAC	CHECKED:	SS	DATE:	07/30/14	FIGURE:	3







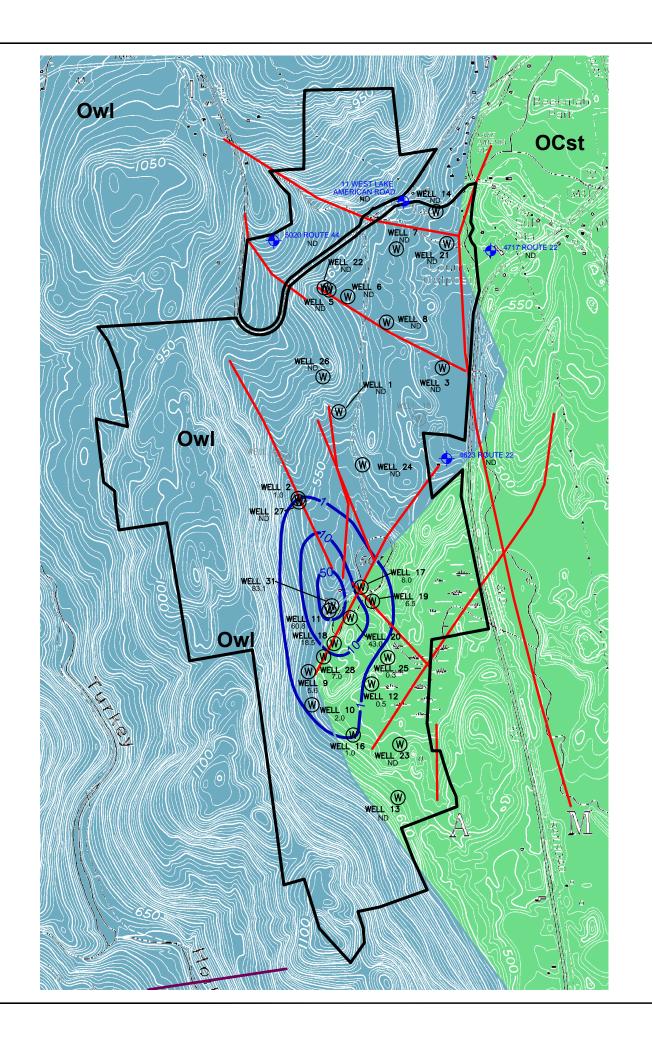
# LEGEND

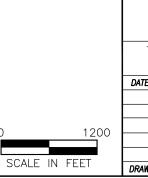
	PROPERTY BOUNDARY				
WELL 11	WELL LOCATION				
404.9	WATER-LEVEL DRAWDOWN MEASURED DURING 72-HOUR PUMPING TEST				
ND	NO DISCERNIBLE DRAWDOWN DURING PUMPING TEST				
4623 ROUTE 22	APPROXIMATE LOCATION OF OFFSITE WELL INCLUDED IN MONITORING PROGRAM				
WELL 15	WELL COULD NOT BE LOCATED/WELL NOT ACCESSIBLE FOR MONITORING				
	FAULT				
	FRACTURE TRACE				
Owl	WALLOOMSAC FORMATION				
OCst	STOCKBRIDGE MARBLE				
1	<ul> <li>APPROXIMATE EXTENT OF WATER-LEVEL DRAWDOWN IMPACT</li> </ul>				

# SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

WATER-LEVEL DRAWDOWN IMPACT DURING SIMULTANEOUS PUMPING TEST ON WELLS 1, 2, 9, 11 AND 25

RAWN:	RAC	CHECKED:	SS	DATE:	08/05/14	FIGURE:	4
				(	(203) 929-8555	i	
		Shelton, Connecticut 06484					
		Suite 301					
		4 Research Drive					
		Professional Groundwater and Environmental Engineering Services					
ATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC.					







### <u>LEGEND</u>

	PROPERTY BOUNDARY
Well 11	WELL LOCATION
60.8	WATER-LEVEL DRAWDOWN MEASURED DURING 72-HOUR PUMPING TEST
ND	NO DISCERNIBLE DRAWNDOWN DURING PUMPING TEST
4623 ROUTE 22	APPROXIMATE LOCATION OF OFFSITE WELL INCLUDED IN MONITORING PROGRAM
WELL 15	WELL COULD NOT BE LOCATED/WELL NOT ACCESSIBLE FOR MONITORING
	FAULT
	FRACTURE TRACE
Owl	WALLOOMSAC FORMATION
OCst	STOCKBRIDGE MARBLE
1	<ul> <li>APPROXIMATE EXTENT OF WATER-LEVEL DRAWDOWN IMPACT</li> </ul>

# SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

WATER-LEVEL DRAWDOWN IMPACT DURING INDIVIDUAL PUMPING TEST ON WELL 31

DATE	REVISED	PREPARED B	Y: <sub>I EGGI</sub>	ETTE BR	ASHEARS &	GRAHAM	INC
		Pi	rofessional	Groundwate	er and Environmen	ntal Engineeri	ng Services
				Shelton	Research Driv Suite 301 n, Connecticut (203) 929-8555	06484	
RAWN:	RAC	CHECKED:	SS	DATE:	07/31/14	FIGURE:	5

# **APPENDIX I**

(1) COUNTY <u>Dulchess</u> (2) TOWN <u>Amehia</u>		D4. 6840
(4) OWNER	VATER WELL COMPLETION REPO	
Higher-Ground Countr	V Club Management Co.LLC	LOG *
(5) ADDRESS		
(6) LOCATION OF WELL (See Instructions On Reverse)	Imenia, N.Y. 12501	Ground Surface ELft. above sea I
Show of the second se	85 W073°24.480 Well#	$\overline{D}$ = $\frac{1}{2}$
Ø GPS □ Map Interpolation	85 W073'34,480 Weint	Top Of Casing is located <u>+</u> ft. above (+) or below (-) ground su
(7) DEPTH OF WELL BELOW	(8) DEPTH TO GROUNDWATER DATE MEASU	#
LAND SURFACE (feet) 375	BELOW LAND SURFACE (feet)	
(9) DIAMETER	CASINGS	
/ in.	in.   in. /.	in. Condit Competent
(10) LENGTH 275 ft.   4	ft. I i fin ft. i filling at an and an and	panu onnuk Steel
(11) GROUT TYPE / SEALING	(12) GROUT / SEALING INTERVAL	2-10-110 275-
		Hardpan open
(13) MAKE & MATERIAL	(14) OPENINGS	110-150
(15) DIAMETER		Soft wellow
in.	in.   in.   i	in. Sandstone
(16) LENGTH ft.	ft. ft l	150-120
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING		n. 150-700
	eet)	
(18) DATE IN /	YIELD TEST	160-210
12/28/05	4 hours	Soft yellow
(20) LIFT METHOD	(21) STABILIZED DISCHARGE (GPM)	Sandstone
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
(24) RECOVERY (Time in hours/minutes)	(25) Was the water produced during the test	-Cavernous
	discharged away from immediate area? Yes No	Void
(26) PUMP INSTALLED?	PINSTALLATION (27) DATE (27) DATE (27) DATE	Water
YESNO	(27) DATE (28) PUMP INSTALLER	Beating
(29) TYPE	(30) MAKE (34) MODEL 4	
(32) MAXIMUM CAPACITY (GPM)	(33) PUMP INSTALLATION LEVEL	
Marine Arron C.e	FROM TOP OF CASING (Feet)	George Schot
(34) METHOD OF DRILLING HIFTCIENSTIC		
Cable Tool Other	(See instructions for choices) TEST	
12423/05	(37) DATE DRILLING WORK COMPLETED	
(38) DATE REPORT FILED (39) REGISTERED COMPANY	(40) DEC REGISTRATION NO.	
Albert M.	HyaTT + Sons NYRD 10194	
(41) CERTIFIED DRILLER (Print name)	(42) CERTIFIED DRILLER SIGNATURE	<b></b>
Rex Hyatt	Par Hanit	
	INX YEAR	- 345
* Show log of geologic materials encounter	ed with depth below-ground surface, water bearing reens; pump; additional pumping tests and other	BOTTOM OF HOLE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Trhess (1) COUNTY T (3) DEC Well Number Amenic (2) TOWN WATER WELL COMPLETION REPORT (4) OWNER Management OUNTRO LOG \* (5) ADDRESS 86 Ground. Surface EL (6) LOCATION OF WELL (S ft. above sea level Show LaVLong if available Well#2 and method ( 15 7 081 Top Of Casing is located +/ GPS GPS Map Interpolation ft. above (+) or below (-) ground surface Chazen Well# ? (7) DEPTH OF WELL BELOW LAND SURFACE (feet) (8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) DATE, MEASURED 0 TOP OF WELL 114106 NC . 1.6 CASINGS 1  $1 \leq i \leq j \leq j$ (9) DIAMETER 青 in. in. ] <sup>4</sup> in. 1772 (10) LENGTH 4 ft. ft, ft. ín. (11) GROUT TYPE / SEALING (12) GROUT / SEALING INTERVAL (feet) FROM Prenton 4 . TC FROM то ويستعطون والمجتلس في SCREENS (13) MAKE & MATERIAL (14) OPENINGS (15) DIAMETER in. in, in. in. (16) LENGTH ft. ft. | (17) DEPTH TO TOP OF SOREEN, FROM TOP OF CASING (Feet) ft. in. Shale Sec YIELD TEST (18) DATE (19) DURATION OF TEST -1 hour (20) LIFT METHOD (21) STABILIZED DISCHARGE (GPM) Air Lift 🗋 Pump 🗔 Bail (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (23) MAXIMUM DRAWDOWN (Stabilized (feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes) (25) Was the water produced during the test discharged away from immediate area? 民族自然事事的 PUMP INSTALLATION (26) PUMP INSTALLED? (27) DATE (28) PUMP INSTALL YES NO (29) TYPE (30) MAKE (31) MODEL (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) 1.1 (34) METHOD OF DRILLING (35) USE OF WATER (See instructions for choices) C Rotary Cable Tool Othe (36) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED 12.1 30/05 230 105 (38) DATE REPORT FILED (59) REGISTERED COMPANY (40) DEC REGISTRATION NO. SONS NYRD 1019 (41) CERTIFIED DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE Mex HL R Show log of geologic materials encountered with depth below ground surface, water bearing 50. beds and water levels in each; casings; screens; pump; additional pumping tests and other BOTTOM OF HOLE matters of Interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. OWNER COPY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (1) COUNTY DITCAPSS (3) DEC Well Number Amenia (2) TOWN WATER WELL COMPLETION REPORT (4) OWNER 7. OUNTI Monadenaen '2C (5) ADDRESS LOG \* P.O.\* 8 Ground (6) LOCATION OF WELL (See Instructions On Reverse, Surface EL ft, above sea level Show Lat/Long if available 966 and method used: Top Of Casing is located 🕂 E GPS Map Interpolation ft. above (+) or below (-) ground surface (7) DEPTH OF WELL BELOW LAND SURFACE (feet) We/1# 201 (8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) DATE AEASURED G TOP OF WELL 06 CASINGS (9) DIAMETER in. in. in. in. (10) LENGTH 10 ĥ ft. 乱 -ð ft. ÷, ŕ ft, 1 in. (11) GROUT TYPE / SEALING (12) GROUT / SEALING INTERVAL (feet) ERON Bestonite FROM SCREENS  $\mathbf{y}$ ..... (13) MAKE & MATERIAL (14) OPENINGS (15) DIAMETER in. in. in. in. (16) LENGTH ft. I ft. | (17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet) ft. in. YIELD TEST (18) DATE (19) DURATION OF TEST 06 hour (20) LIFT METHOD (21) STABILIZED DISCHARGE (GPM) Air Lift D Pump 🗌 Bail 20 .(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) 2 (24) RECOVERY (Time in hours/minutes) (25) Was the water produced during the test discharged away from immediate area? PUMPINSTALLATION (26) PUMP INSTALLED? (27) DATE NO (28) PUMP INSTALLER (29) TYPE (30) MAKE (31 MODEL (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) 1 (34) METHOD OF DRILLING ٠, (35) USE OF WATER Rotary Cable Tool Othe (See instructions for choices (36) DATE DRILLING WORK STARTED (37) DATE DRILLING WORK COMPLETED 4106 66 (38) DATE REPORT FILED (39) REGISTERED COMPANY (40) DEC REGISTRATION NO. n 6 NYRD /0194 Sons ŕ (41) CERTIFIED DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE P Show log of geologic materials encountered with depth below ground surface, water bearing beds and water levels in each; casings; screens; pump; additional pumping tests and other BOTTOM OF HOLE matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach OWNER COPY

(1) COUNTY DUTCHESS		
12) TOWN AMENIA		(3) DEC Well Nu
	WATER WELL COMPLETION REPO	RT   <u>DU6842</u>
Li / C A	ntry Club Management CO 110	
(5) ADDRESS ; J P.O. Rox 86 Route 22	Amenia NY. 12501	LOG *
(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available		Surface ELft. abov
and method used: N41.50,315	3 W.073'34,383 Well#2	Top Of Casing is located
(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465	(8) DEPTH TO GROUNDWATER O VC. DATE MEASU BELOW LAND SURFACE (teet) Elouis	I I I I I I I I I I I I I I I I I I I
	CASINGS	<u>06</u>
(9) DIAMETER	in. in. in. in.	0-13110
(10) LENGTH 6   ft.	ft.   ft.   '	Soil 5
(11) GROUT TYPE / SEALING BEATCANTE	(12) GROUT / SEALING INTERVAL (teet) FROM /() TO 6/	-13'-40'
	SCREENS	- hardpan 01
(13) MAKE & MATERIAL	(14) OPENINGS	110' 230' OF
(15) DIAMETER in.	in. [ in ]	- TU - 200
(15) LENGTH	in.   in.   in	- Share
ft.	ft.   <sup>e</sup> ft.   in.	250-252
(F	eet)	Soft Frattyred
(18) DATE ////	(19) DURATION OF TEST	Caving Sheld
(20) LIFT METHOD / / / / / /	1 hour	and used
🗀 Pump 💋 Air Lift 🗆 Ba	(21) STABILIZED DISCHARGE (GPM)	735-707
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	Shale
(24) RECOVERY (Time in hours/minutes)	(25) Was the water produced during the test	
i di la pul	UISCHArged away from immediate area? Yes No V	
26) PUMP INSTALLED? YES NO	(27) DATE (28) PUMP INSTALLER	
29) TYPE	(30) MAKE (31) MODEL	<b></b> ]
32) MAXIMUM CAPACITY (GPM)	(33) PUMP INSTALLATION LEVEL	
	FROM TOP OF CASING (Feet)	
		· / 1 · 1
A A A	/Un (35) USE OF WATER (See instructions for choices)	
34) METHOD OF DRILLING COM PICSED AT	(37) DATE DRIVLING WORK COMPLETED	
34) METHOD OF DRILLING COM PICESED 1119 Rotary Cable Tool Dother PESCUSS 36) DATE DRILLING WORK STARTED 1/5/06	(35) USE OF WATER (See instructions for choices) (37) DATE DRILLING WORK COMPLETED	
14) METHOD OF DRILLING COM PIESSED A A A Rotary Cable Tool Dotter PESCUSS 16) DATE DRILLING WORK STARTED 1/5/06 8) DATE REPORT FILED (39) REGISTERED COMPANY Albert M. H	(37) USE OF WATER (See instructions for choices) (37) DATE DRILLING WORK COMPLETED (37) DATE DRILLING WORK COMPLETED (40) DEC REGISTRATION NO	
34) METHOD OF DRILLING COM PICESED Rotary □ Cable Tool Dother PESCUSS 36) DATE DRILLING WORK STAPPED 1/5/06 38) DATE REPORT FILED (39) REGISTERED COMPANY	(37) USE OF WATER (See instructions for choices) (37) DATE DRILLING WORK COMPLETED (37) DATE DRILLING WORK COMPLETED (40) DEC REGISTRATION NO	

(1) COUNTY DUTCHESS	· · · · · · · · · · · · · · · · · · ·			(2) DEC W-U M
12) TOWN Amenia				(3) DEC Well Num
	WATER WELL CO	MPLETION RE		246877
(4) OWNER	n L nila	+ 1		
(5) ADDRESS /	Country Club M	inagement (c	i <del>ll</del>	LOG *
P.O. Box 86 Rout	22 Ameria N	.Y. 12501	Ground Surface E	ELft. above :
(6) LOCATION OF WELL (See Instructions On Reverse Show Lat/Long if available and method used:	,	220 Well	# 5	
GPS ☐ Map Interpolation	00 W 073°34	1337 Chorer	Top Of Ca	asing is located <u>+</u> (+) or below (-) grour
(7) DEPTH OF WELL BELOW LAND SURFACE (leet)	(8) DEPTH TO GROUNDW BELOW LAND SURFA		MEABURED	TOP OF WELL
	CASINGS	FIGUING //	9/06	
(9) DIAMETER	in.	r in the rite	0-1	'O', O'
(10) LENGTH /0.5 ft.			Soft	Soil *
(11) GROUT TYPE / SEALING	fl. (12) GROUT / SEALING IN	ft.	in. 10'-7	·x' DTe
Bentonite	(feet)	FROM 10 TO	Hard,	mu 105
(13) MAKE & MATERIAL	(14) OPENINGS		the second se	
(15) DIAMETER			16-1	50 OP
in.	in.	in.	in. Schis	$T \mid P$
(16) LENGTH 5.	ft.	ft.	in. 150'-1	155
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CAS	NG (Feet)		Fractu	red i
			Water	Rearring
(18) DATE 1/6/06	(19) DURATION OF TEST	<u> </u>	Caulia	C.A.A
(20) LIFT METHOD	(21) STABILIZED DISCHARC	E (GPM)		, SUI) <u>S</u> /
(22) STATIC LEVEL PRIOR TO TEST		(Stabilized)	55- :	765
(feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes)	(feel/inches below top of	casing) /50	Schis	+
	(25) Was the water produced discharged away from im	during the test nediate area? Yes <u> </u>	K Caris	4 4
(26) PUMP INSTALLED?	UMP INSTALLATION	(28) PUMP INSTALLERI		
YES NO				
	(30) MAKE	(31) MODEL		
(32) MAXIMUM CAPACITY (GPM)	(33) PUMP INSTALLATION LI FROM TOP OF CASING	EVEL Feet		
- The start - the start -	and a third of the Providence of the			
(34) METHOD OF DRILLING Grap PFC-55 CC	(See instructions for choice			
36) DATE DRILLING WORK SPARTED	(37) DATE DRILLING WORK			
(38) DATE REPORT ØLED/ (39) REGISTERED COMPA	INY //9/06	(40) DEC REGISTRATION NO	<u>.</u>	
1/9/06 Albert M.	Hunt + Sinc	NYRD /0/	74	
41) ØERTIHED DRILLER (Print name)	(42) CERTIFIED DRILLER SIG			
$^{\circ}$ $\cap$ $\mu$ $\mu$	1-10-11	M		

11) COUNTY <u>DUITARS</u>	$\mathbf{r}$	(3) DEC Well Nur
	WATER WELL COMPLETION REPOR	<u>1)U 683</u>
(4) OWNER Higher F. D.P.	+ cline	· <b>I</b> · <u>· · · · · · · · · · · · · · · · · ·</u>
(5) ADDRESS	ounisy, Club Management Co. LLC	LOG *
HO: Box 86 Rout	= 22 Amenia N.Y. 12501	Ground Surface EL, ft. above
(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long K available and method used:	29/ Wanner Wellt to	5
	516 W013 34.148	Top Of Casing is located
(7) DEPTH OF WELL BELOW LAND SURFACE (feet)	(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (Seet) DTU HOLC DATE MEASURE	
	CASINGS	
(9) DIAMETER	in  i	10-171 B
(10) LENGTH 4/ ft.		Ctou Till i St
(11) GROUT TYPE / SEALING	(12) GROUT / SEALING INTERVAL	-1-11-11-11-
Berlinite	(reet) FROM 10 TO 41	-11-765 17
(13) MAKE & MATERIAL	(14) OPENINGS	Shale P
(15) DIAMETER		
in.   (16) LENGTH	in. in. in.	
ft.	ft.   ft.   in.	
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING	(Feet)	-
(18) DATE	YIELDTEST	<del>,</del> ,
1/10/06	(19) DURATION OF TEST	
(20) LIFT METHOD	(21) STABILIZED DISCHARGE (GPM)	
(22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	- ·
(24) RECOVERY (Time in hours/minutes)	(25) Was the water produced during the test	
	discharged away from immediate area? Yes No	
(26) PUMP INSTALLED? YES NO	(27) DATE ( 28) PUMP INSTALLER	
(29) TYPE	(30) MAKE (31) MODEL	
(32) MAXIMUM CAPACITY (GPM)		
	(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
(34) METHOD OF DRILLING AIT FORCESSIO	135) USE OF WATER	
Rotary Cable Tool     Other     Gible Tool     Other     Gible Tool     Other	(See instructions for choices)	
1/9/06	(37) DATE DRILLING WORK COMPLETED	
(38) DATE REPORT FILED (39) REGISTERED COMPANY	11 H (40) DEC REGISTRATION NO.	
(41) CERTIFIED DRILLER (Print name)	HUAT + SONS NYRD 10/94	
Rex Hyatt	Kel-NGall	
( /	ed with depth below ground surface, water bearing	(114

	RK STATE DEPARTMEN				
11) COUNTY Dutchess					·····
(2) TOWN AMERICA		-			Well Number
(4) OWNER	WATER WELL C	OMPLETION REP		DUC	<u>5855</u>
Und Guina	+ nil ni	-1.0.			
(5) ADDRESS	INTry Club Mar	nagement Co, L	LC	LO	)G *
(6) LOCATION OF WELL (See Instructions On Reverse)	2 Amenia, N.Y	12501	Grou		# _1.
Show Lattlong if available A/44/05/	24/ 11/172	· au non Well#	71		ft. above sea le
☐ GPS ☐ Map interpolation	×10 W0/3	3today	Top ( I # ♥ <sup>ft. ab</sup>	Of Casing is loc ove (+) or below	ated $\frac{T}{V}$
(7) DEPTH OF WELL BELOW LAND SURFACE (feet)	(8) DEPTH TO GROUND BELOW LAND SURF	WATER ACE (feet)	<u> </u>	TOP OF	
(9) DIAMETER	CASINGS	11191	<u>06                                    </u>	I	
	* *in. /	+ in. P + + + +		- 91' 1	B-4
(10) LENGTH ft.	ft.	· · ·		+ Clau	
(11) GROUT TYPE / SEALING	(12) GROUT / SEALING IN		in.		preel
	(feet)	FROM TO	7 -	28	41-5
(13) MAKE & MATERIAL	(14) OPENINGS		Ha	rdpan .	boen
(15) DIAMETER			-28	5251	
(16) LENGTH	in.	in.	in.		InBe
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING	ft.	. ft.		er Beari	,
		the second s	1/1/01		N
	=eef)				1 .
(18) DATE	TIELD TEST		Fraci	tureat	
(18) DATE 1/11/06			Fract 29	ture at	
(18) DATE /////06 (20) LIFT METHOD Pump & Air Lift DBa	(19) DURATION OF TEST	000	Fraci 29	ture at	
(18) DATE ////////////////////////////////////	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC	OU ( DE (GPM)	Frac	ture at	
	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced	OUT SE (GPM) (Stabilized) casing)	Fraction 29	ture at	
(18) DATE (20) LIFT METHOD Pump Air Lift Ba (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes)	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from imm	OUT SE (GPM) (Stabilized) casing)	Fraci 29	ture at	
(18) DATE (20) LIFT METHOD Pump Air Lift Ba (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes)	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced	OU ( DE (GPM) (Stabilized) casing)	- Fraci	ture at	
(18) DATE (20) LIFT METHOD Pump Air Lift Ba (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes) (26) PUMP INSTALLED?	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from imm PAINSTALLATION	A (Stabilized) Casing) A O during the test mediate area? Yes No	Frace 29	ture at	
(18) DATE (20) LIFT METHOD Pump Air Lift Be (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (24) RECOVERY (Time in hours/minutes) (26) PUMP INSTALLED? YESNO	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im <b>PUNSTALLATION</b> (27) DATE (30) MAKE	A (Stabilized) during the test mediate area? Yes No (28) (28) PUMP INSTALLER (31) MODEL	- Fraci	ture at	
(18) DATE       ////06         (20) LIFT METHOD       Pump         (21) STATIC LEVEL PRIOR TO TEST       Ba         (22) STATIC LEVEL PRIOR TO TEST       (feet/inches below top of casing)         (24) RECOVERY (Time in hours/minutes)       PUMM         (26) PUMP INSTALLED?       YESNO         (29) TYPE       (32) MAXIMUM CAPACITY (GPM)	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from imm PAINSTALLATION (27) DATE	A (Stabilized) during the test mediate area? Yes No (28) (28) PUMP INSTALLER (31) MODEL	- Fraci	ture at	
(18) DATE       ////06         (20) LIFT METHOD       Pump         (21) STATIC LEVEL PRIOR TO TEST       Be         (22) STATIC LEVEL PRIOR TO TEST       (feet/inches below top of casing)         (24) RECOVERY (Time in hours/minutes)       PUMP         (26) PUMP INSTALLED?       YESNO         (29) TYPE       (32) MAXIMUM CAPACITY (GPM)         34) METHOD OF DRILLING       AIT_CAPACITY (GPM)	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im <b>PINSTALLASIDO</b> (27) DATE (30) MAKE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (1	CU (Stabilized) Gesing) Control (Stabilized) during the test mediate area? Yes No (28) PUMP INSTALLER (31) MODEL VEL Feet)		ture at	
(18) DATE       ////////////////////////////////////	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (23) Was the water produced discharged away from im (25) Was the water produced discharged away from im (25) Was the water produced (30) MAKE (30) MAKE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (0) (35) USE OF WATER (See instructions for choice	CU (Stabilized) SE (GPM) A (Stabilized) casing) during the test mediate area? Yes No (2B) <sup>4</sup> PUMP INSTALLER (31) MODEL EVEL Feet) SS) To ST		ture at	
(18) DATE       /////DG         (20) LIFT METHOD       Pump         (21) STATIC LEVEL PRIOR TO TEST       Ba         (22) STATIC LEVEL PRIOR TO TEST       (feet/inches below top of casing)         (24) RECOVERY (Time in hours/minutes)       PUIM         (26) PUMP INSTALLED?       YES	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im <b>PINSTALLASIDO</b> (27) DATE (30) MAKE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (1	A (Stabilized) casing) 2 90 during the test mediate area? Yes No 1 (28) PUMP INSTALLER (31) MODEL EVEL Seet) Set DMPLETED		ture at	
(18) DATE       ////////////////////////////////////	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (27) DATE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (1) (35) USE OF WATER (See instructions for choice (37) DATE DRILLING WORK O	CU SE (GPM) (Stabilized) during the test mediate area? Yes No (28) PUMP INSTALLER (31) MODEL VEL Feet) SS) DEST OMPLETED (40) DEC REGISTRATION NO.		ture at	
(18) DATE       /////DG         (20) LIFT METHOD       Pump         (21) STATIC LEVEL PRIOR TO TEST       Ba         (22) STATIC LEVEL PRIOR TO TEST       (feet/inches below top of casing)         (24) RECOVERY (Time in hours/minutes)       PUIM         (26) PUMP INSTALLED?       YES	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (30) MAKE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (I (33) PUMP INSTALLATION LE FROM TOP OF CASING (I (35) USE OF WATER (See instructions for choice (37) DATE DRILLING WORK O (37) DATE DRILLING WORK O	A (Stabilized) Casing) 290 during the test mediate aree? Yes No 1 (28) PUMP INSTALLER (31) MODEL EVEL SYSTE SS) Te ST OMPLETED (40) DEC REGISTRATION NO. NYRD 10194		ture at	
(18) DATE       ////////////////////////////////////	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (27) DATE (30) MAKE (33) PUMP INSTALLATION LE FROM TOP OF CASING (1) (35) USE OF WATER (See instructions for choice (37) DATE DRILLING WORK O	A (Stabilized) Casing) 290 during the test mediate aree? Yes No 1 (28) PUMP INSTALLER (31) MODEL EVEL SYSTE SS) Te ST OMPLETED (40) DEC REGISTRATION NO. NYRD 10194		ture at	
(18) DATE       ////06         (20) LIFT METHOD       Pump         (21) STATIC LEVEL PRIOR TO TEST         (Teet/Inches below top of casing)         (24) RECOVERY (Time in hours/minutes)         (24) RECOVERY (Time in hours/minutes)         (26) PUMP INSTALLED?         YES       NO         (29) TYPE         (32) MAXIMUM CAPACITY (GPM)         34) METHOD OF DRILLING         AIT FERENCE         (32) MAXIMUM CAPACITY (GPM)         36) DATE DRILLING WORK STARTED         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         ////06         /////06         ////////////////////////////////////	(19) DURATION OF TEST         (19) DURATION OF TEST         (21) STABILIZED DISCHARC         (23) MAXIMUM DRAWDOWN         (25) Was the water produced         (25) Was the water produced         (27) DATE         (30) MAKE         (30) MAKE         (33) PUMP INSTALLATION LE         (36) USE OF WATER         (See instructions for choice         (37) DATE DRILLING WORK O         HLAT T SCHS         HLAT T SCHS         (42) CERTIFIED DRILLER SIGN         Restriction	CUC SE (GPM) (Stabilized) during the test mediate area? Yes No (28) PUMP INSTALLER (31) MODEL (31) MODEL (31) MODEL VEL Feet) SS) TC 5T OMPLETED (40) DEC REGISTRATION NO. NYRD //O/94 IATURE MARM		ture at	
(18) DATE       ////////////////////////////////////	(19) DURATION OF TEST (19) DURATION OF TEST (21) STABILIZED DISCHARC (21) STABILIZED DISCHARC (23) MAXIMUM DRAWDOWN (feet/inches below top of (25) Was the water produced discharged away from im (25) Was the water produced discharged away from im (30) MAKE (30) MAKE (30) MAKE (31) PUMP INSTALLATION LE FROM TOP OF CASING (1) (32) USE OF WATER (33) PUMP INSTALLATION LE FROM TOP OF CASING (1) (35) USE OF WATER (36) ISE OF WATER (37) DATE DRILLING WORK O (37) DATE DRILLING WORK O (37) DATE DRILLING WORK O (42) CERTIFIED DRILLER SIGN (42) CERTIFIED DRILLER SIGN (42) CERTIFIED DRILLER SIGN (42) CERTIFIED DRILLER SIGN	A (Stabilized) asing) 290 during the test mediate area? Yes No (2B) PUMP INSTALLER (31) MODEL VEL Feet) SS) TC 57 OMPLETED (40) DEC REGISTRATION NO. NYRD /0/94 NYRD /0/94 SUIFACE, water bearing		ture at	

NEW YOF	RK STATE DEPARTMENT OF ENVIRONMENTAL CONSE	RVATION
11) COUNTY DUTCHESS		(3) DEC Well Number
2) TOWN HMENIC		Aurori
(4) OWNER	WATER WELL COMPLETION REPORT	246001
	$r_{1} + r_{1} m + r_{2}$	
(5) ADDRESS	ountry Club Management Co22C	LOG *
P.U. Box 86 Route 22	2 Ameria N.Y. 12501	Ground Surface EL.
(5) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if available and method used:	Tool 61 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Surface ELft, above sea je
and method used: B GPS  B Map Interpolation	530 W 073°34.449	Top Of Casing is located ft. above (+) or below (-) ground su
(7) DEPTH OF WELL BELOW LAND SURFACE (feet)	(B) DEPTH TO GROUNDWATER	
700	BELOW LAND SURFACE (feet)	TOP OF WELL
(9) DIAMETER		
(10) LENGTH	$\frac{1}{10}$ in $\int_{-\infty}^{\infty} \frac{1}{10} \ln \left( \int_{-\infty}^{\infty} \frac{1}{10} \ln \left( \int_{-\infty$	0-15' 0-10
102 tt. 1	ft.   ft.   in	Clay Till 1 Steels
(11) GROUT TYPE / SEALING	(12) GROUT / SEALING INTERVAL	15-951
<u>Benton, Te</u>	(reet) FROM <u>70</u> TO <u>70,7</u>	Soft Stit 102 -
(13) MAKE & MATERIAL	SCREENS	05-230 Opent
(15) DIAMETER		
in.	in. in in in	LimesTone In Bed
(16) LENGTH ft.	III IN,	230'-270
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING	ft. ft. in.	Eratural
	cet)	Caving
AND ANT	YIELD TEST	(IMCSTONC)
(18) DATE 12406	(19) DURATION OF TEST	water Bearing
(20) LIFT METHOD	(21) STABILIZED DISCHARGE (GPM)	270: 405 0
(22) STATIC LEVEL PRIOR TO TEST	75	
(reet/inches below top of casing)	(23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	JMESTONS
24) RECOVERY (Time in hours/minutes)	(25) Was the water produced during the test	
PUMP	discharged away from immediate area? Yes No	
26) PUMP INSTALLED? YES NO	(27) DATE (28) PUMP INSTALLER	
29) TYPE		
	(30) MAKE (31) MODEL	
32) MAXIMUM CAPACITY (GPM)	(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
4) METHOD OF DRILLING AIT PEREUSSION	1 (35) USE OF WATER	
6) DATE DRILLING WORK STARTED	(See instructions for choices) Test	
1/19/06	(37) DATE DRILLING WORK COMPLETED	
B) DATE REPORT FILED (39) REGISTERED COMPANY	(40) DEC REGISTRATION NO.	
1/25/06 Albert M.HU	att + Sons NYRD 10194	
CERTIFIÉD DRILLER (Print name)	(42) CERTIFIED DRILLER SIGNATURE	
- Rex Hyatt	DOLD MILL	
	INXX Negatt	
Show log of geologic materials encountered	with depth below ground surface, water bearing	405
matters of interest, e.g., water quality (suppl	with depth below ground sufface, water bearing ens; pump; additional pumping tests and other ur, salt, methane). Describe repair work. Attach	BOTTOM OF HOLE
separate sheet if necessary.	u, sau, methane). Describe repair work Attach	OWNER COPY

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BITOWN     AMERICAL     WATER WELL COMPLETION REPORT     (a) DBC Well Namber       INTORNET     High Content     WATER WELL COMPLETION REPORT     (b) CBS64       INTORNET     High Content     Count to Clob Manage Age to Count     (b) CBS64       Internet     Count     Count     (c) Count     (c) Count       Internet     Marce All Count     Count     (c) Count     (c) Count       Internet     Marce All Count     (c) Count     (c) Count     (c) Count       Internet     Marce All Count     (c) Count     (c) Count     (c) Count       Internet     Marce All Count     (c) Count     (c) Count     (c) Count       Internet     Marce All Count     (c) Count     (c) Count     (c) Count       Internet     Marce All Count     (c) Count     (c) Count     (c) Count       Internet     Count     (c) Count     (c) Count     (c) Count     (c) Count       Internet     Count     (c) Count     (c) Count     (c) Count     (c) Count       Internet     Count     (c) Count     (c) Count     (c) Count     (c) Count       Internet     Count     (c) Count     (c) Count     (c) Count     (c) Count       Internet     Count     (c) Count     (c) Count     (c) Count     (c) Co					
WATER WELL COMPLETION REPORT       Dublesse     Dublesse       High and an All and and an All and All and an All and All an	RITOWN AMENIC			(3) DEC	Well Number
High at - Ground Country Clab Monace Rept Could - Country     LOG*       Products of while services of newsel     Guidage Elementation of newsel     Guidage Elementation of newsel       Bill derivation of monace     Marina NY: 12501     Guidage Elementation of newsel       Bill derivation of monace     Marina NY: 12501     Guidage Elementation of newsel       Bill derivation of monace     Marina NY: 12501     Top CM Casing is locased H       Bill derivation of monace     Marina NY: 12501     Top CM Casing is locased H       Bill derivation of monace     Marina Status     Marina Status     Top CM Casing is locased H       Bill derivation of monace     Marina Status     Status     Top CM Casing is locased H       Bill derivation of monace     Marina Elementation     Top CM Casing is locased H     Top CM Casing is locased H       Bill derivation of monace     Marina Elementation     Top CM Casing is locased H     Different Status     Different Status       Bill derivation of monace     Marina Elementation     Top CM Casing is locased H     Different Status     Different Status       Bill derivation of monace     Marina Elementation     Top CM Casing is locased H     Different Status     Different Status     Different Status       Bill derivation of monace     Bill derivation     Rept H     Rept H     Different Status     Different Status       Bill derivation of monace <td< th=""><th>V</th><th>VATER WELL COMPLETION RE</th><th></th><th>Due</th><th><u>5864</u> .</th></td<>	V	VATER WELL COMPLETION RE		Due	<u>5864</u> .
In DERSE A     Control America     Control America     Control America       PDO - BOX 805 Route 22 America NV-1/2501     Surface EL     It above soar late       Record Late on Encounder     M 1/2491, 450' W 073' 34.444' Control Late     Chazen well # 9       Winso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Late     Chazen well # 9       Winso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Late     Chazen well # 9       Winso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Late     Chazen well # 9       Winso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Well # 9     Top Of Casing is located # 1       Minso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Well # 10     Dore to Well # 10       Minso Due on Encounder     M 1/2491, 450' W 073' 34.444' Control Well # 10     Dore to Well # 10       Minso Due on Encounder     M 1/2 M 1/2491, 450' W 073' 34.444' Control Well # 10     Dore to Well # 10       Minso Due on Encounder     M 2/25' M 1/25'			PURI		
BILCSCATCODER VIEL BREAKTIONS ON ROWSHAD and REPORT OWNEL BREAKTION ON ROWSHAD AND SURFACE BREAKTION OWNEL BREAKTION AND ALL AND	(5) ADDRESS /	1154 Clab Management Co.L	LC	. Lo	OG *
Binder Land ge evaluation       M 4 19 49, 455 W 073*34*440 Characa will # 9 R above (no) or below (1) ground surface (1) and	(6) LOCATION OF WELL (SEP INSTITUTIONS OF BRIDE)	Amenia N.Y. 12501	Grou Surfa	nd ce EL.	ft above ber
(P) DEMONSE & MATCHINE       CABLON CARLED VIELE BALLOW       CABLON CARLED VIELE BALLOW       TOP OF WELL         (P) DEMONSE WATCH       (P) DEMONSE WATCH BENJOND       (P) DEMONSE WATCH BENJONE       TOP OF WELL         (P) DEMONSE WATCH BENJON       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE         (P) DEMONSE WATCH BENJON       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE         (P) DEMONSE WATCH BENJON DE DE ALLON WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE       (P) DEMONSE WATCH BENJONE         (P) DEMONSE WATCH BENJONE       (P) DEM	Show Lat/Long if available and method used: N44/0449,4450	W073'34 440	7 Top (	Of Casing is in	
CASINGS       CASINGS       1/2/1/20         (P) CUMPTER       7       in.       in.       1       in.       1/2/1/20         (P) COURTER       7       in.       in.       1       in.       1       in.       040';       040';       060;         (P) COURTER       62       ft.       n.       in.       in.       in.       Casing Status       Casing Status       Casing Status       Casing Status       Casing Status       Casing Status       S	(7) DEPTH OF WELL BELOW				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			7/06	TOPC	
CIOULENCITY     G2 R. 1     R. 1     R. 1     R. 1     III.     Clays     STECT       CIOULENCITY     BE ATON; TC     III. CHOUT / SEALING INTERVAL     FROM	in.'	" in. [ * * * . [/ in. ] 3	. 0	-40'	0-6
11) BROUT TYPE / SEALING INTERVAL       III.       III.         110 BROUT TYPE / SEALING INTERVAL       III.       III.         12) MARE & MATERAL       III.       III.         13) MARE & MATERAL       III.       III.         15) DUMETER       III.       III.       III.         15) DUMETER       III.       III.       III.       III.         16) LENGTH       III.       III.       III.       III.         17) DEPTH TO TOP OF SCREEN. FROM TOP OF CASING       (Feld)       III.       III.         17) DEPTH TO TOP OF SCREEN. FROM TOP OF CASING       (Feld)       III.       III.         17) DEPTH TO TOP OF SCREEN. FROM TOP OF CASING       (Feld)       IIII.       III.         17) DEPTH TO TOP OF SCREEN. FROM TOP OF CASING       (Feld)       IIII.       III.         17) DEPTH TO TOP OF SCREEN. FROM TOP OF CASING       (Feld)       IIII.       IIII.         17) DEPTH TO TOP OF SCREEN.       (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	62 ft.	A	Cinc	4.	Stech
SCREENS       Up Chow Ocher         SO I - 465         In.       In.         In.       In. <td< td=""><td><math>\Lambda \rightarrow \cdot</math></td><td>(12) GROUT / SEALING INTERVIAL</td><td></td><td>50</td><td>Ko'. C</td></td<>	$\Lambda \rightarrow \cdot$	(12) GROUT / SEALING INTERVIAL		50	Ko'. C
S) DUAMETER     In.       In.   <td></td> <td>SCREENS</td> <td>ucli</td> <td>w Ocher</td> <td>- Korn k</td>		SCREENS	ucli	w Ocher	- Korn k
in.]       in.]       in.]       in.]       in.]       in.]         6) LENGTH       ft.]       ft.]       ft.]       ft.]       in.         7) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)       (Feet)       in.       in.       in.         7) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)       (Feet)       in.       in.       in.         7) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)       (Feet)       in.       in.       in.         7) DATE       //255/06       (TB) DURATERY OF TEST (Cellificate balow top of casing)       in.       is.         9) DATE       //255/06       (TB) DURATERY OF TEST (Cellificate balow top of casing)       is.       GBD MACH ON TOP OF CASING (Feet)         9) DATE       //255/06       (C2) TABLUZED DISCHARGE (GPM)       GBPM       Stato Casing)       GED Mach ON TOP OF CASING (Feet)         9) COVERY (Time in novambritules)       (C2) Was the water produced during the test of cole machines balow top of casing)       GED PLUME INSTALLATION       in.         9) MARE       (S0) MARE       (G1) MODEL       in.       No       Intellification to choles)         17PLIE       NO       (C2) DATE       (20) DATE       (G1) MODEL       No         17PLIE       NO       (C2) DATE       (G2) PLANE (NOTALLATION LEVEL)	· · ·	(14) OPENINGS	50	4/5	In Der
NUMBER     ft.     ft.     ft.     in.       1) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feel)     (Feel)     in.     in.       1) DATE     1/25/06     (19) DURATION OF TEST     in.       1) ULIFF METHOD     PUMP     MAIL III     In.     Ball       (Reinfords ballow top of casing)     (23) MAXINUM DRAVDOWN (Stabilized) (Belinfords above top of casing)     Ball       (23) MAXINUM DRAVDOWN (Stabilized)     (23) MAXINUM DRAVDOWN (Stabilized)     Ball       (PUMP INSTALLED     (23) MAXINUM DRAVDOWN (Stabilized)     Ball       (24) Was the water produced during the test declarged awy from Immediate area?     No.       PUMP INSTALLED     (25) Was the water produced during the test declarged awy from Immediate area?     No.       PUMP INSTALLED     YES     No.     (27) DATE     (28) PUMP INSTALLER       TYPE     (30) MAKE     (31) MODEL     (33) PUMP INSTALLER     No.       MAXINUM CAPACITY (GPM)     (33) PUMP INSTALLATION LEVEL     (26) DATE ENTITIES (20)     (26) DATE ENTITIES (20)       MAXINUM CAPACITY (GPM)     (33) PUMP INSTALLATION LEVEL     (30) MAKE     (31) MODEL <tr< td=""><td>in.  </td><td>in.</td><td>in in</td><td>- 700</td><td>IN BCC</td></tr<>	in.	in.	in in	- 700	IN BCC
PDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         PDATE       Image: Screen, FROM TOP OF CASING (Fael)         PLD TEST       Image: Screen, FROM TOP OF CASING (Fael)         DILIFT METHOD       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         DILIFT METHOD       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         DILIFT METHOD       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         DILIFT METHOD       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         PRECOVERY (The In hours/minutes)       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         PUMP INSTALLED?       YES       No       Image: Screen, FROM TOP OF CASING (Fael)         TYPE       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, FROM TOP OF CASING (Fael)         MAXIMUM CAPACITY (GPM)       Image: Screen, FROM TOP OF CASING (Fael)       Image: Screen, From Top Casing (Fael)         MAXIMUM CAPACITY (GPM)       Image: Screen, From Top Casing (Fael)       Image: Screen, From Top Casing (Fael)         Maximum CAPACITY (GPM)       Image: Screen, From Top Casing (Fael)       Image: Screen, From Top Casing (Fa	ft.	ft. ft.			
B) DATE       I/BS/06       (19) DURATION OF TEST         D) LIFT METHOD       Pump       Air Lin       Bail       (21) STABILIZED DISCHARGE (GPM)         2) STATIC LÉVEL PRIOR TO TEST       (23) MAXIMUM DRAWDOWN (Stabilized)       Bd/f om         (1) RECOVERY (Time in hours/minutes)       (23) MAXIMUM DRAWDOWN (Stabilized)       Bd/f om         (1) RECOVERY (Time in hours/minutes)       (23) Was the water produced during the test of decharged away from timediate area?       No         (1) PUMP INSTALLED?       YES			<u>.</u>		
1/25/06       (19) DURATION OF TEST         0) LIFT METHOD       Pump       Air Lin       Bail         (21) STABLIZED DISCHARGE (GPM)       5       2         2) STATICLEVEL, PRIOR TO TEST       (23) MAXIMUM DRAWDOWN (Bibliked)         (dev/inches balow top of casing)       (23) MAXIMUM DRAWDOWN (Bibliked)         (1) RECOVERY (Time in hours/minutes)       (23) Was the water produced during the test discharged away from immediate array?         (PUMP INSTALLED?       (27) DATE       (28) PUMP INSTALLER         (PUMP INSTALLED?       (29) PUMP INSTALLATION LEVEL PROM TOP OF CASING (Feel)       (31) MODEL         (MAXIMUM CAPACITY (GPM)       (33) PUMP INSTALLATION LEVEL PROM TOP OF CASING (Feel)       (30) USE OF WATER         (Rating L) Cable Tool       Coher PETCUSSIC       (36) USE OF WATER       (37) DATE ORILLING WORK SCOMPLETED         (Alar)       (30) DATE ORILLING WORK SCOMPLETED       (37) DATE ORILLING WORK SCOMPLETED       (30) DATE ORILLING WORK COMPLETED         (JAT D6       Albert Mr. Hyatt tScn S       NYRD /0/944         (24) CERTIFIED DRILLER SIGNATURE       (24) CERTIFIED DRILER SIGNATURE	the state of the s		· Martin		
PUMP       PLAIR IN       Bait       (21) STABILIZED DISCHARGE (GPM)         2) STATIC LÉVEL PRIOR TO TEST (Geel/Inches below top of casing)       (23) MAXIMUM DRAWDOWN (Stabilized) (Tel/Inches below top of casing)       (23) MAXIMUM DRAWDOWN (Stabilized) (Tel/Inches below top of casing)         2) RECOVERY (Time in hours/minutes)       (25) Was the water produced during the test decharged away from immediate area? Yes No /       No /         2(27) DATE       (28) PUMP INSTALLER       No /         17YPE       (30) MAKE       (31) MODEL         MAXIMUM CAPACITY (GPM)       (35) USE OF WATER (See instructions for choices)       Test         METHOD OF DRULING Compton Status (See instructions for choices)       Test       (37) DATE DRULING WORK STARTED (See instructions for choices)         DATE DRULING WORK STARTED       (39) REGISTERED COMPANY       (37) DATE DRULING WORK COMPLETED (37) DATE DRULING WORK COMPLETED (37) DATE DRULING WORK STARTED (37) DATE DRULING WORK COMPLETED (37) DATE DRULING WORK COMPLETED (39) REGISTERED COMPANY       (40) DEC REGISTRATION NO. NYRD /O194/	1125/06	(19) DURATION OF TEST			
(det/inches below top of casing)       (ds:/maximulu/pax/bown (Stabilized) (det/indes below top of casing)       (ds:/maximulu/pax/bown (Stabilized) (ds:/maximulu/pax/bown (Stabilized))         ) RECOVERY (Time in hours/minutes)       (25) Was the water produced during the test discharged away from immediate area? Yes No       No         ) PUMP INSTALLED7 YESNO       (27) DATE       (28) PUMP INSTALLER         ) PUMP INSTALLED7 YESNO       (27) DATE       (28) PUMP INSTALLER         17/PE       (30) MAKE       (31) MODEL         MAXIMUM CAPACITY (GPM)       (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)       (36) USE OF WATER (See instructions for choices)         METHOD OF DRILLING C 6 M Dress of Dome DET CUSSIL/ DATE DRILLING WORK STARTED       (36) USE OF WATER (See instructions for choices)       Test         DATE DRILLING WORK STARTED       (37) DATE DRILLING WORK COMPLETED       (37) DATE DRILLING WORK COMPLETED       (40) DEC REGISTRATION NO. NYRD       NYRD         //27/06       AIBER T M1. Hyatt T Sch S       NYRD       (20) 94/ (40) DEC REGISTRATION NO. NYRD       NYRD         //27/06       MIGELT M1. Hyatt T Sch S       NYRD       (20) 94/ (40) DEC REGISTRATION NO. NYRD       NYRD         //20 CERTIFIED DRILLER (Print name)       (42) CERTIFIED DRILLER SIGNATURE       Revertified DRILLER SIGNATURE       Revertified DRILLER SIGNATURE	······································				
Intervention       Intervention         PUMP INSTALLED?       YES         YES       NO         ITYPE       (30) MAKE         (31) MODEL         MAXIMUM CAPACITY (GPM)       (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)         METHOD OF DRILLING COMPLETED       (35) USE OF WATER (Geo Instructions for choices)         METHOD OF DRILLING COMPLETED       (35) USE OF WATER (Geo Instructions for choices)         METHOD OF DRILLING WORK STARTED       (35) USE OF WATER (Geo Instructions for choices)         MATE REPORT FILED       (37) DATE DRILLING WORK COMPLETED         MADEL       (37) DATE DRILLING WORK COMPLETED         MADEL       (39) REGISTERED COMPANY         MADEL       (40) DEC REGISTRATION NO.         MADEL       MADEL         VATION       (40) DEC REGISTRATION NO.         NYRD       (20) 944         WETHIED DRILLER (Print name)       (42) CERTIFIED DRILLER SIGNATURE         WATH       Real Address		(21) STABILIZED DISCHARGE (GPM)			
PUMP INSTALLED?       YESNO       (27) DATE       (28) PUMP INSTALLER         ITYPE       (30) MAKE       (31) MODEL         MAXIMUM CAPACITY (GPM)       (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)         METHOD OF DRILLING COMPLETED       (35) USE OF WATER (See instructions for choices)       (35) USE OF WATER (See instructions for choices)         METHOD OF DRILLING WORK STATED       (37) DATE DRILLING WORK COMPLETED       (37) DATE DRILLING WORK COMPLETED         JATE DRILLING VORK STATED       (37) DATE DRILLING WORK COMPLETED       (40) DEC REGISTRATION NO.         JATE REPORT FILED       (39) REGISTERED COMPANY       (40) DEC REGISTRATION NO.         JATATOB       Albert Mr. Hyatt t Son S       NYRD 10194         VERTIFIED DRILLER (Print name)       (42) CERTIFIED DRILLER SIGNATURE         WEATH       Row Awadd	2) LIFT METHOD Pump Air Lift Bail 2) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(21) STABILIZED DISCHARGE (GPM) <u>1</u> • 5 <u>2</u> G M (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) <u>2</u> <del>H</del>			
YES     NO     (27) DATE     (28) PUMP INSTALLER       ITYPE     (30) MAKE     (31) MODEL       MAXIMUM CAPACITY (GPM)     (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)     (31) MODEL       METHOD OF DRILLING     CBM pices     (35) USE OF WATER (See instructions for choices)     (25)       METHOD OF DRILLING     CBM pices     (35) USE OF WATER (See instructions for choices)     (25)       DATE DRILLING WORK STARTED     (37) DATE DRILLING WORK COMPLETED     (37) DATE DRILLING WORK COMPLETED     (40) DEC REGISTRATION NO.       DATE REPORT FILED     (39) REGISTERED COMPANY     (40) DEC REGISTRATION NO.     NYRD     (20) 944       DATE DRILLER (Print name)     (42) CERTIFIED DRILLER SIGNATURE     (42) CERTIFIED DRILLER SIGNATURE     NYRD     (21) 944	D) LIFT METHOD Pump Air Lift Beil 2) STATIC LEVEL PRIOR TO TEST (feeVinches below top of casing)	(21) STABILIZED DISCHARGE (GPM) <u>1</u> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>			
(30) MAKE       (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)       (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         METHOD OF DRILLING COM pt       (Ain- (See instructions for choices)       (35) USE OF WATER (See instructions for choices)         DATE DRILLING WORK STARTED 1/25/D6       (37) DATE DRILLING WORK COMPLETED 1/26/06       (37) DATE DRILLING WORK COMPLETED 1/26/06         DATE REPORT FILED       (39) REGISTERED COMPANY       (40) DEC REGISTRATION NO. NYRD 101944         CERTIFIED DRILLER (Print name)       (42) CERTIFIED DRILLER SIGNATURE         X HYAT       Rot Mark	0) LIFT METHOD Air Lift Bail 2) STATIC LEVEL PRIOR TO TEST (feedInches below top of casing) 4) RECOVERY (Time In hours/minutes)	(21) STABILIZED DISCHARGE (GPM) <u>1</u> <u>5</u> <u>6</u> (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) Bottom (25) Was the water produced during the test discharged away from immediate area? Yes No <u>1</u> <b>INSTALLATION</b>			
(3) PUMP INSTALLATION LEVEL         FROM TOP OF CASING (Feel)         METHOD OF DRILLING COM PT COLS ALLATION TOP OF CASING (Feel)         METHOD OF DRILLING COM PT COLS ALLATION TOP OF CASING (Feel)         METHOD OF DRILLING COM PT COLS ALLATION TOP OF CASING (Feel)         METHOD OF DRILLING COM PT COLS ALLATION TOP OF CASING (Feel)         METHOD OF DRILLING COMPLETED         CADE TOOL COLS ALLATION TO	D) LIFT METHOD Pump Air Lin Bail 2) STATIC LÉVEL PRIOR TO TEST (/eet/Inches below top of casing) 1) RECOVERY (Time in hours/minutes) 1) PUMP INSTALLED? YESNO	(21) STABILIZED DISCHARGE (GPM) <u>1</u> <u>5</u> <u>5</u> <u>6</u> <u>6</u> <u>6</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>6</u> <u>7</u> <u>8</u> <u>7</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u> <u>8</u>			
METHOD OF DRILLING COMPTONE ALA Rotary Cable Tool Dother DEFCUSSIC: (35) USE OF WATER (See instructions for ohoices) Test DATE DRILLING WORK STARTED 1/25/06 DATE REPORT FILED (39) REGISTERED COMPANY 1/27/06 AIBERT M1 Hyatt tScns NYRD 10194 RERTIFIED DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE REAL Hyatt Real Hyatt	)) LIFT METHOD  Pump  Air Lit Bail  ) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)  ) RECOVERY (Time in hours/minutes)  PUMP INSTALLED? YESNO  TYPE	(21) STABILIZED DISCHARGE (GPM)         •5       ±       GPM         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)       Gottom         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (27) DATE       (28) PUMP INSTALLER         (20) MAKE       (28) PUMP INSTALLER			
Rotary Cable Tool DOTHER DEFCUSSIC (See instructions for choices) DATE DRILLING WORK STARTED DATE DRILLING WORK STARTED DATE REPORT FILED (39) REGISTERED COMPANY /27/06 AIBERT MI HYAT TSONS (40) DEC REGISTRATION NO. AIBERT MI HYAT TSONS NYRD /0/94 SERTIFIED DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE RAMAN ROLLER (Print name) (42) CERTIFIED DRILLER SIGNATURE	D) LIFT METHOD D Pump Pump Pump Pump Pump Pump Pump Pump	(21) STABILIZED DISCHARGE (GPM)         •5       –         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)         (25) Was the water produced during the test discharged away from Immediate arras?         Yes       No         (27) DATE       (28) PUMP INSTALLER         (30) MAKE       (31) MODEL			
21 TE UNLEINS WORK STARTED 125/06 DATE REPORT FILED 126/06 126/06 126/06 (37) DATE DRILLING WORK COMPLETED 1/26/06 (40) DEC REGISTRATION NO. NYRD /0/94 NYRD /0/94 (42) CERTIFIED DRILLER SIGNATURE CX H4att Rev August	D) LIFT METHOD  Pump  Air Lin Bail  STATIC LÉVEL PRIOR TO TEST (feet/inches below top of casing)  RECOVERY (Time in hours/minutes)  RECOVERY (Time in hours/minutes)  PUMP INSTALLED? YESNO  TYPE  MAXIMUM CAPACITY (GPM)  METHOD OF DRILLING Compared for the former of the for	(21) STABILIZED DISCHARGE (GPM)         •5       ±       GPM         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)       Boff or M         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (27) DATE       (28) PUMP INSTALLER         (30) MAKE       (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)			
27/06 AIBERT M. Hyatt TSCNS NYRD 10/94 DERTIFIED DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE CX Hyatt Roy August	D) LIFT METHOD Pump Air Lin Ball 2) STATIC LÉVEL PRIOR TO TEST (feet/inches below top of casing) 4) RECOVERY (Time in hours/minutes) 4) RECOVERY (Time in hours/minutes) 4) PUMP INSTALLED? YES NO 1) PUMP INSTALLED? YES NO 1) TYPE MAXIMUM CAPACITY (GPM) METHOD OF DRILLING Compton for proceedings of the form o	(21) STABILIZED DISCHARGE (GPM)         •5       -5         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)         (25) Was the water produced during the test discharged away from immediate area?         (25) Was the water produced during the test discharged away from immediate area?         (27) DATE         (27) DATE         (30) MAKE         (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         (35) USE OF WATER (See instructions for choices)         (35) USE OF WATER			
ex Hyatt (Print name) (42) CERTIFIED DRILLER SIGNATURE Reliant	D) LIFT METHOD Pump Air Lin Ball 2) STATIC LÉVEL PRIOR TO TEST (feet/inches below top of casing) 4) RECOVERY (Time in hours/minutes) 4) PUMP INSTALLED? YES NO 1) TYPE MAXIMUM CAPACITY (GPM) METHOD OF DRILLING COM PT Rolary Cable Tool DATE DRILLING WORK STARTED 1) CASH OF COM PT 1) Cable Tool 1) Conter DCTCUSSIC	(21) STABILIZED DISCHARGE (GPM)         •5       ±       GPM         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)       Bottom         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (25) Was the water produced during the test discharged away from immediate area?       Yes       No.         (27) DATE       (28) PUMP INSTALLER         (30) MAKE       (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         (35) USE OF WATER         (36) IUSE OF WATER         (37) DATE DRILLING WORK COMPLETED			
ex Hyatt Religionature	D) LIFT METHOD Pump Air Lin Bail 2) STATIC LÉVEL PRIOR TO TEST (feeVinches below top of casing) 4) RECOVERY (Time in hours/minutes) 4) RECOVERY (Time in hours/minutes) 4) PUMP INSTALLED? YES NO 1) PUMP INSTALLED? YES NO 1) TYPE MAXIMUM CAPACITY (GPM) METHOD OF DRILLING COM PLOTE ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	(21) STABILIZED DISCHARGE (GPM)         •5       -         (23) MAXIMUM DRAWDOWN (Stabilized)         (23) MAXIMUM DRAWDOWN (Stabilized)         (25) Was the water produced during the test discharged away from immediate area?         (25) Was the water produced during the test discharged away from immediate area?         (27) DATE         (27) DATE         (30) MAKE         (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)         (35) USE OF WATER (See instructions for choices)         (37) DATE DRILLING WORK COMPLETED         (40) DEC DECISION FORMER			
Kel Hidel	D) LIFT METHOD       Pump       Air Lin       Bail         2) STATIC LÉVEL PRIOR TO TEST (feet/inches below top of casing)       Image: Comparison of casing)         4) RECOVERY (Time in hours/minutes)         4) RECOVERY (Time in hours/minutes)         4) PUMP INSTALLED?       YESNO	(21) STABILIZED DISCHARGE (GPM)         •5       2       GPM         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)       Bottom         (25) Was the water produced during the test discharged away from immediate area?       Yes       No         (25) Was the water produced during the test discharged away from immediate area?       Yes       No         (27) DATE       (28) PUMP INSTALLER         (30) MAKE       (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)         (35) USE OF WATER (See instructions for choices)       Test         (37) DATE DRILLING WDRK COMPLETED       //26/06         (40) DEC REGISTRATION NO. NYRD       NYRD			
	D) LIFT METHOD Pump Air Lin Ball 2) STATIC LÉVEL PRIOR TO TEST (feevInches below top of casing) 4) RECOVERY (Time in hours/minutes) 4) PUMP INSTALLED? YES NO 1) PUMP INSTALLED? YES NO 1) TYPE MAXIMUM CAPACITY (GPM) METHOD OF DRILLING COM DI METHOD OF DRILLING COM DI Cable Tool METHOD OF DRILLING COM DI Cable Tool DATE DRILLING WORK STARTED 1) 25/05 DATE REPORT FILED (39) REGISTERED COMPANY AIGE T M1, HU	(21) STABILIZED DISCHARGE (GPM)         •5       2       GPM         (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)       Bottom         (25) Was the water produced during the test discharged away from immediate area?       Yes       No         (25) Was the water produced during the test discharged away from immediate area?       Yes       No         (27) DATE       (28) PUMP INSTALLER         (30) MAKE       (31) MODEL         (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel)         (35) USE OF WATER (See instructions for choices)       Test         (37) DATE DRILLING WDRK COMPLETED       //26/06         (40) DEC REGISTRATION NO. NYRD       NYRD			

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 11 COUNTY LALTE AP 55 (3) DEC Well Number MENIC (2) TOWN 6769 WATER WELL COMPLETION REPORT (4) OWNER Higher OUNTN. Management LOG \* (5) ADORESS MAN PISK 1250 Ground (6) LOCATION OF WELL (See Surface EL ft. above sea level Show Lat/Long W073°34.397 We/1# 10 and method used Top Of Casing is located + 🖬 GPS Map Interpolation ft. above (+) or below (-) ground surface Chazer welt#11 (7) DEPTH OF WELL BELOW LAND SURFACE (lest) (B) DEPTH TO GROUNDWATER BELOW LAND SURFACE (feet) DATE MEASURED 28 TOP OF WELL 1/30/06 a la - i a ria CASINGS. (9) DIAMETER D CU33 in. 225 in. in. ] in. (10) LENGTH 225 ft. 1 an ft. ft. in. (11) GROUT TYPE / SEALING (12) GROUT / SEALING INTERVAL (feet) 225 FROM lon Te то SCREENS ъTC (13) MAKE & MATERIAL (14) OPENINGS 220 (15) DIAMETER Shale in. in. in. ] in. (16) LENGTH ft. ft. ft. in. (17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet) TIELD TEST (18) DATE (19) DURATION OF TEST 66 4 hours (20) LIFT METHOD (21) STABILIZED DISCHARGE (GPM) E Air Lift D Pump 🔲 Baii 40 (22) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing) (23) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing) ollom (24) RECOVERY (Time in hours/minutes) (25) Was the water produced during the test discharged away from immediate area? PUMP INSTALLATION (26) PUMP INSTALLED? - 14 (27) DATE ' (28) PUMP INSTALLER NO 144.7 (29) TYPE (30) MAKE (31) MODEL (32) MAXIMUM CAPACITY (GPM) (33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet) 58 1 12 10 (34) METHOD OF DRILLING  $\{ e_{i} \}_{i \in \mathcal{I}}$ fre UCSID (35) USE OF WATER C Rotary Cable Tool Othe (See instructions for chi (36) DATE DRILLING WORK STARTED, (37) DATE DRILLING WORK COMPLETED 27/06 06 (38) DATE REPORT FILED (39) REGISTERED COMPANY (40) DEC REGISTRATION NO. 06 M. Huatt NYRD /0194 Johs (41) CERTIFIÉD DRILLER (Print name) (42) CERTIFIED DRILLER SIGNATURE Show log of geologic materials encountered with depth below ground surface, water bearing 6 Q 5 beds and water levels in each; casings; screens; pump; additional pumping tests and other BOTTOM OF HOLE matters of interest, e.g., water quality (sulphur, salt, methane). Describe repair work. Attach separate sheet if necessary. **OWNER COPY** 

() COUNTY DATCHESS		ENVIRONMENTAL CONSE		
1		🖌 ka ka ka ka	(3) DEC	C Well Num
(2) TOWN AME ALC			Due	5880
(4) OWNER	ATER WELL COM	PLETION REPORT		
Higher Ground Countr	U Club Manageme	ent Co, LLC	L	OG *
DATO TO DE OC	ienia, N.Y. 12501		Ground	••••
(6) LOCATION OF WELL (See Instructions On Reverse) Show Lat/Long if evellable	VIIA, 1 VI - 1201		Surface EL.	ft. above :
and method used: 1441 ° 449 ° 501	W073°34.280	Well#11	Top Of Casing is I ft. above (+) or be	located <u>7</u>
(7) DEPTH OF WELL BELOW LAND SURFACE (feet) 465	(8) DEPTH TO GROUNDWATER BELOW LAND SURFACE (fee	Chazen Well # 2 HORE DATE MEASURED FLOWIND 2/1/06	·	OF WELL
	CASINGS	1100111 01100		·
(9) DIAMETER 7 in.	in.	in. ] in.	70-601	0
(10) LENGTH	ft.	ft.  ``in.	wetchay	Ste
(11) GROUT TYPE / SEALING BENTONITC	(12) GROUT / SEALING INTERVA (feet) FRC	10 TO 114	60'-76'	110
	SCREENS		Sand + Grav	et IT
(13) MAKE & MATERIAL	(14) OPENINGS		7. 7. 7.	op
(15) DIAMETER		· · · · · · · · · · · · · · · · · · ·	10-13	int
in.	in.	in. in.	hard pan	
(16) LENGTH ft.	ft.	~	75-85	
(17) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING	· · · · · · · · · · · · · · · · · · ·	ft.  in	15 -	
(Feef)	· · · · · · · · · · · · · · · · · · ·	_	Sand + Gra	Vel
(18) DATE / /			85-110	
2/1/06	(19) DURATION OF TEST 2 LOUIS		gelka Och	
(20) LIFT METHOD / / Air Lift Deal	(21) STABILIZED DISCHARGE (GP	PM)	general de	
(22) STATIC LEVEL PRIOR TO TEST	(23) MAXIMUM DRAWDOWN (Stab	ilized)	/10 - 465	
(feet/inches below top of casing)	(teet/inches below top of casing	Bottom	Limestone	
(24) RECOVERY (Time in hours/minutes)	(25) Was the water produced during discharged away from immediat	the test e area? Yes No A		
PLMP I	NSTALLATION			
(26) PUMP INSTALLED?- YES NO	(27) DATE	(2B) PUMP INSTALLER		
(29) TYPE	(30) MAKE	(31) MODEL		-
(32) MAXIMUM CAPACITY (GPM)				
UC MINIMUM CAPACITY (GPM)	(33) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)			
A D			· .	
(34) METHOD OF DRILLING 77777CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	(35) USE OF WATER (See instructions for choices)			
(36) DATE DRILLING WORK STARTED /	(37) DATE DRILLING WORK COMPL	ICSI ETED		
//30/06	2/2/06			
(38) DATE REPORT FILED (39) REDISTERED COMPANY	, (4)	0) DEC REGISTRATION NO.		
الألفان تستسب اللالا المتحاد المستحد	att + Sons	NYRD 10194		
2/3/06 Albert M. Hyd	(42) CERTIFIED DRILLER SIGNATUR	τε		
(41) CERTIFIED DRILLER (Prini name)			1	1
	BAL -RIL			
(41) CERTIFIED DRILLER (Print name)	Rel Hyd	t	<u>a</u> r	1
	Rel Ayd	face, water bearing	ВОТТОМ С	SF HOLE

(1) COUNTY DATCHESS		(3) DEC Well Number
(2) TOWN AMERIC	WATER WELL COMPLETION REPORT	
Sila Ridian Vei	ture LLC	<sup>(45)</sup> WELL LOG
(S) ADDRESS	NIQ MEAL	Depth to Bedrock 165 (ft. below land surf
(6) LOCATION OF WELL (See Instructions On Re	Pri/A JV/1 / A )U/ werse) (Check here □ If address is same as above)	Ground Elevation( ft. abov sea lev
(7) LATITUDE/LONGITUDE AND METHOD USED	(B) TAX MAP NO.	Top of Casing
GPS D Mart 1 \$ 8283219	Long 73,5717606 7066-00-732810	below (-) land surfa
(9) DEPTH OF WELL BELOW LAND SURFACE (feel)	(10) DEPTH TO GROUNDWATER DATE MEASURED BELOW LAND SURFACE (feet) 2 4/11/14	TOP OF WELL
	CASINGS	
(11) DIAMETER	in.	0-20
(12) LENGTH / 8 / ft.	ft. <b>f</b> t.	Sand +
(13) GROUT TYPE / SEALING	(14) GROUT / SEALING INTERVAL (foel) FROM 10 TO 180	Grave
Bentonile	SCREENS	20'-50'
(15) MAKE & MATERIAL	(18) OPENINGS	Soft wit
(17) DIAMETER		Clay
(18) LENGTH	in. in. in.	50-65 1 .
ft.	ft. ft. în.	Hardpan
(19) DEPTH TO TOP OF SCREEN, FROM TOP (	UF CASING (Feet)	65'-165
(20) DATE	YIELD TEST (21) DURATION OF TEST	Yellow ocher
4/9/14	3 hours	165-660
(22) LIFT METHOD	(23) STABILIZED DISCHARGE (GPM)	Black Martik
(24) STATIC LEVEL PRIOR TO TEST (feat/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
(26) RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from immediate area? Yes No	
	PUMP INSTALLATION	
(2B) PUMP INSTALLED? YES NO	(29) DATE (30) PUMP INSTALLER	
(31) TYPE	(32) MAKE (33) MODEL	The second se
(34) MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL	
	FROM TOP OF CASING (Feel)	
(38) METHOD OF DRILLING AIT PET		
(38) DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK COMPLETED	<b>"</b>
4/7/14 (40) DATE REPORTFILED/ (41) REGISTERE	D COMPANY 1, 4/9/14 (42) DEC REGISTRATION NO.	
4/12/14 Alber	M. Huatt + Sons NYRD 19194	$ = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} 1$
(43) CERTIFIED DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNATURE . M. Itom Howard	220
defined by Environmental Conservat	affirm that: (1) I am certified to supervise water well drilling activities as ion Law 15-1502; (2) this water well was constructed in accordance with	BOTTOM OF HOLE
water well standards promulgated by the information provided in this Well	the New York State Department of Health; (3) under the penalty of perjury Completion Report is true, accurate and complete, and I understand that	
any false statement made herein is p	unishable as a Class A Misdemeanor under Penal Law §210.45. 10/201	t OTHER
LOCATION SKETCH - Indicate nor	h.	
		and the second se

· 11		·····
COUNTY Dutchess		(3) DEC Well Number
	ER WELL COMPLETION REPORT	Du8652
OWNER CIDIII.	r / r	(45) WELL LOG
ADDRESS		Depth to Bedrock 150 (ft. below
5021 Rt. 22 Amenia N.	7 12501	Ground Elevation (ft. above
OCATION OF WELL (See Instructions On Reverse)	L # 18 (Check here □ if address is same as above)	sea level)
ATITUDE/LONGITUDE AND METHOD USED	(8) TAX MAP NO.	Top of Casing <b>7</b> (ft. above (+) or below (-) land surface)
DEPTH OF WELL BELOW	(10) DEPTH TO GROUNDWATER DATE MEASURED	
AND SURFACE (feel) 660	BELOW LAND SURFACE (feet)	TOP OF WELL
DIAMETER	ASINGS	
	in. in.	0-90
LENGTH /60 ft.]	ft.	Hardpan
GROUT TYPE / SEALING	(14) GROUT / SEALING INTERVAL	90-150
Hentonite st	REENS	Geller Ochen
MAKE & MATERIAL	(16) OPENINGS	150-664
DIAMETER	Harrison and Market and Table and	1
	in.	Black Marsh
LENGTH ft.	ft.	Loyer ot
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)		white Marple
	LD TEST	at 440 to 455
DATE Ulalil	(21) DURATION OF TEST	
	(23) STABILIZED DISCHARGE (GPM)	
🗋 Pump 🙀 Air Lift 🔲 Bailer	4 SPM	
STATIC LEVEL PRIOR TO TEST (feeVinches balow top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from immediate area? Yes No	
PUMP IN	ISTALLATION	
PUMP INSTALLED? YES NO	(29) DATE (30) PUMP INSTALLER	$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 &$
ТУРЕ	(32) MAKE (33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL	
WAANNUM GAPACITT (GPM)	(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Foel)	
<u>신입에 많은 신입한 것 같아요. 한 것 없는 것 같아요. 것 같아요. 것 것 않았던 것 같아요. 것 같아요. 것 같아요. 것 같아. 것 같</u> 아. 것 같아.	INFORMATION THIS	
METHOD OF DRILLING ALF REFCUSSION	(37) USE OF WATER (See instructions for choices) AUL/CSADDI,	
DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK COMPLETED	
448 144 DATE REPORT FILED (41) REGISTERED COMPANY	49/14 (42) DEC REGISTRATION NO.	
4/12/14 Albert M. Hun	#+Schs NYRD 10194	
GERTIFIED DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNATURE	
y signing this/document I hereby affirm that: (1) I a	am certified to supervise water well drilling activities as 2; (2) this water well was constructed in accordance with	660 BOTTOM OF HOLE
ter well standards promulgated by the New York S	c, (2) this water well was constructed in accordance with state Department of Health; (3) under the penalty of perjury- ort is true, accurate and complete, and I understand that	
y false statement made herein is punishable as a (		OTHER
the second s	10/2011	L

NHI		
COUNTY DUICHESS		(3) DEC Well Number DU 8653
WN APACATA W	ATER WELL COMPLETION R	EPORT
SILG Ridge Ventur		<sup>(45)</sup> WELL LOG
ADDRESS	1/ Incel	Depth to Bedrock <u>58</u> (ft. below land surfe
SOOL RT. L.L. AMENIA, N. OCATION OF WELL (See Instructions On Reverse)	Check here ☐ if address is se	ame as above) Ground Elevation ( ft. above
ATITUDE/LONGITUDE AND METHOD USED	w/1#19	sea leve Top of Casing <u>+</u> (ft. above (+)
GPS I Map 41 8272684 73	18) TAX MAP NO. 7066-00-	73,28/0 below (-) land surface
DEPTH OF WELL BELOW	(10) DEPTH TO GROUNDWATER DAT BELOW LAND SURFACE (feet)	
	CASINGS	
DIAMETER 7 in.	in, in,	in. 0'-50'
LENGTH	ft.	in. Hardpan
GROUT TYPE / SEALING	(14) GROUT / SEALING INTERVAL	50-58
Bentonite		S- Gravel
MAKE & MATERIAL	(16) OPENINGS	E8' E1
DIAMETER		
in.	in. in.	in. Black Marble
LENGTH ft.	ft.	in.
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee	*0	
	YIELD TEST	
DATE Illicit	(21) DURATION OF TEST	
LIFT METHOD	(23) STABILIZED DISCHARGE (GPM)	
Pump Z Air Lift D Bailer	(25) MAXIMUM DRAWDOWN (Slabijized)	
(feet/inches below lop of casing)	(leet/inches below top of casing)	f Hale
RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from immediate area? Yes	. No
and the state of the	INSTALLATION	
PUMP INSTALLED? YES NO	(29) DATE	
ТҮРЕ	(32) MAKE (33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL	
METHOD OF DRILLING A - POMISSIO	and a second	<i>leff</i>
Rotary Cable Tool Other	(See instructions for choices) Hublic Sta (39) DATE DRILLING WORK COMPLETED	(pply
4/9/14	4/11/14	
DATE REPORT FILED (41) REGISTERED COMPANY	(42) DEC REGISTRATIO	IAU
CERTIFIE® DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNATURE	
y signing this document thereby affirm that: (1)	I am certified to supervise water well drilling activity	ities as
ined by Environmental Conservation Law 15-1 er well standards promuloated by the New Yor	502; (2) this water well was constructed in accordance k State Department of Health: (3) under the penal	ance with BOTTOW OF HOLE
information provided in this Well Completion R	eport is true, accurate and complete, and I unders a Class A Misdemeanor under Penal Law §210.4§	tand that 5. OTHER
		10/2011
OCATION SKETCH - Indicate north		

COUNTY Dittchess		(3) DEC Well Number DIA 8654
TOWN HAMPING	WATER WELL COMPLETION REPORT	
SI DIN 14.t.	in 110 the second second second	(45) WELL LOG
Silo Ridge Ventu ADDRESS	LTes LL	Depth to Bedrock(ft. below
5021 At. 22 Ameni	a NY. 12501	land surface) Ground Elevation ( ft. above
LOCATION OF WELL (See Instructions On Reverse	Ωell # 20 (Check here □ if address is same as above)	Ground Elevation ( ft. above sea level)
LATITUDE/LONGITUDE AND METHOD USED	(8) TAX MAP NO.	Top of Casing (ft. above (+) or below (-) land surface)
IGPS: □ Map 41 \$272772	73.5722732 7066-00-732810	
DEPTH OF WELL BELOW LAND SURFACE (feet) 560	(10) DEPTH TO GROUNDWATER DATE MEASURED BELOW LAND SURFACE (feet) 19 44/10/14	TOP OF WELL
	CASINGS	
) DIAMETER	ín,	$\left  \beta - \beta \right  = \left  \beta \right $
	ft. ft. in.	Sail
58 ft.	(14) GROUT / SEALING INTERVAL	1'- 119'
GROUT TYPE / SEALING	(rect) FROM TO	
	SCREENS	White Marde
MAKE & MATERIAL	(16) OPENINGS	48'-52'
) DIAMETER	in.	Fracture with
LENGTH		Lost Circulation
ft.	ft.	LOST CHELINI
) DEPTH TO TOP OF SCREEN, FROM TOP OF CA	ISING (Feel)	52'-120'
	YIELD TEST	white Matole
D) DATE July Line	(21) DURATION OF TEST	Land Link
2) LIFT METHOD	(23) STAGILIZED DISCHARGE (GPM)	120-360
Puinp Mar Lift	Bailer 4 GPM	Black Marble
4) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
B) RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test	
	discharged away from immediate area? Yes No	
) PUMP INSTALLED?	PUMP INSTALLATION (30) PUMP INSTALLER (30) PUMP INSTALLER	
YES NO		
) TYPE	(32) MAKE (33) MODEL	
) MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL	
	FROM TOP OF CASING (Feet)	
	DRILLER INFORMATION	
Rotary Cable Tool Other	(SE Instructions for choices) Public Strepture	
) DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK COMPLETED	
) DATE REPORT FILED 41) REGISTERED CO	IMPANY (42) DEC REGISTRATION NO.	
4/12/14 Albert 1	1. Hunt + Sin NYRD 70194	
3) CERTIFIED DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNATURE	
Nex Hug IT By signing this document I hereby affirm	n that: (1) I am certified to supervise water well drilling activities as	BOTTOM OF HOLE
efined by Environmental Conservation L ater well standards promutgated by the	aw 15-1502; (2) this water well was constructed in accordance with New York State Department of Health; (3) under the penalty of penjury	
e information provided in this Well Corr	pletion Report Is true, accurate and complete, and I understand that hable as a Class A Misdemeanor under Penal Law §210.45.	
IN IGHT STATEMENT HAUE HEICHTIS PUNK	Inable as a Class A Misdemeanor under Fenal Law 92 (0.40. 10/201	OTHER OTHER

NEW YORK	STATE DEP	ARTMENT OF	ENVIRONMENTAL	CONSERVATION

TOWN AMENIA		DU 8655
OWNER	ATER WELL COMPLETION REPORT	
ADDRESS SILO RIDge Ventures	; LLC	( <sup>46)</sup> WELL LOG
5021 RF 22 Amenie	a NY 12501 (Check here I if address is same as above)	Ground Elevation (ft. above
LATITUDE/LONGITUDE AND METHOD USED	Well #21	sea level)
IGPS Map 41.8385708 7	3 25 6 7 6 7 2 7 7 6 6 TAX MAP NO. 3 25 6 7 6 7 2 7 7 6 6 - 10 - 7 3 2 8 / (10) DEPTH TO GROUNDWATER DATE MEASURED	Top of Casing +/ (ft. above (+) or below (-) land surface)
LAND SURFACE (feel)	BELOW LAND SURFACE (leat) 8 4/25/14	TOP OF WELL
) DIAMETER	in. in.	<u>n'-2</u> n'
ILENGTH 50 ft.	ft. ft. in.	Hardpon
) GROUT TYPE / SEALING Rauthart	(14) GROUT / SEALING INTERVAL	36-446
) MAKE & MATERIAL	SCREENS (16) OPENINGS	Shale
) DIAMETER		-440-200
in.	in. in.	-Alack Maral
	ft. în. în.	
	YIELD TEST	
)DATE 441-7/14	(21) DURATION OF TEST	
)LIFT METHÓD / Pump III Air Lift 🔲 Bailea	(23) SYABILIZED DISCHARGE (GPM)	
STATIC LEVEL PRIOR TO TEST (feeVinches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (rectrinches below top of casing) Bottom of hale	
) RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from immediate area? Yes No	
) PUMP INSTALLED?	2 INSTALLATION (29) DATE (30) PUMP INSTALLER	
YES NO	(32) MAKE (33) MODEL	
	(35) PUMP INSTALLATION LEVEL	
MAXIMUM CAPACITY (GPM)	FROM TOP OF CASING (Feet)	
METHOD OF DRILLING ALE RECUSSION Rotary Cobie Tool		
DRILLE METHOD OF DRILLING AI RECUSSION Rotary Cable Tool DATE DRILLING WORK STARTED	ER INFORMATION (37) USE OF WATER (See instructions for choices) FSTWC// (38) DATE DRILLING WORK COMPLETED 4/17/14 (42) DEC REGISTRATION NO. NYRD 10144	
DRILLER METHOD OF DRILLING AIL RSCUSSION Rotary Cable Tool DATE DRILLING WORK STARTED 4/12/14 DATE REPORT FILED 4/12/14 DATE REPORT FILED 4/12/14 OFFICIED DRILLER (PRINTIGHT) PROV PROV V signing this document I hereby affirm that: (1)	ER INFORMATION (37) USE OF WATER (See instructions for choices) $EFWC/I$ (39) DATE DRILLING WORK COMPLETED 4/17/14 (42) DEC REGISTRATION NO. NYRD 101944 (44) CERTIFIED DRILLER SIGNATURE • D. Lam Certified for Supervise water well drilling activities as	600
DRILLING ALL RESCUSSION NETHOD OF DRILLING ALL RESCUSSION Rotary Cable Tool DATE DRILLING WORK STARTED 4116 144 DATE DRILLING WORK STARTED 4116 144 DATE DRILLING WORK STARTED 4116 144 DATE DRILLING WORK STARTED 4116 144 144 144 144 144 144 144 144	ER INFORMATION (37) USE OF WATER (See instructions for choices) FSTWC// (38) DATE DRILLING WORK COMPLETED 4/17/14 (42) DEC REGISTRATION NO. NYRD 10144	BOTTOM OF HOLE

SOUNTY Dutchess			(3) DEC Well Number $\int \int ds = \frac{1}{\sqrt{2}} \int \frac{1}{\sqrt{2}} ds$
own America WA	TER WELL CO	MPLETION REPORT	D4 8656
S.J. D.A. Hasting	-110		(45) WELL LOG
ADDRESS	S. / hel		Depth to Bedrock
5021 At 28 Americal OCATION OF WELL (See Instructions On Reverse)	14.12501	Checkhere 🗋 if address is same as above)	Ground Elevation ( ft. above
We	11+22		Top of Casing $\frac{1}{2}$ (ft. above (+) or
ATITUDE/LONGITUDE AND METHOD USED	5-12096	8) TAX MAP NO.	Top of Casing 1/ (ft. above (+) or below (-) land surface)
DEPTH OF WELL BELOW	(10) DEPTH TO GROUNDWA BELOW LAND SURFACE		TOP OF WELL
	CASINGS		
DIAMETER	in.	in. in,	0-10'
LENGTH 50 ft.	ft.	ft. in.	wetgran
	(14) GROUT / SEALING INTE (feet) FR		10-22
reaction of the state of the st	CREENS		IL ad cal
MAKE & MATERIAL	(16) OPENINGS		maca par
DIAMETER	in.	in.	Bd - 170
LENGTH	ft.	ft.	DetTokal
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feel)			-240 -205 raving
	ELD TEST		Real Soft
DATE	(21) DURATION OF TEST	<u>en destanting indirection destanting of the second s</u>	Shale with water
LIFT METHOD	(23) STABILIZED DISCHARG	E (GPM)	-265-600
STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (feet/inches below top of		-Shale
RECOVERY (Time in hours/minules)	(27) Was the water produced discharged away from imp	during the test	
PUMP	INSTALLATION		
PUMP INSTALLED? YES NO	(29) DATE	(30) PUMP INSTALLER	
TYPE	(32) MAKE	(33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION L FROM TOP OF CASING		
Rotary Cable Tool Other	(37) USE OF WATER (See instructions for choi	ces)Test	
DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK		
TITE REPORT FILED (41) REGISTERED COMPANY	Terifi 1. #+<	(42) DEC REGISTRATION NO. / NYRD 10194	
GERTIFIED DRILLER (Print nome)	(44) CERTIFIED DRILLER SIN		
y signing this document) hereby affirm that: (1)	am certified to supervise	Hull water wéll drilling activities as	- 600
fined by Environmental Conservation Law 15-15 ter well standards promulgated by the New York	02; (2) this water well was State Department of Heal	constructed in accordance with th; (3) under the penalty of perjur	
information provided in this Well Completion Re y false statement made herein is punishable as a	port is true, accurate and	complete, and I understand that	ОТИСО

NEW YORK STA	ATE DEPARTMENT	OF ENVIRONMENTAL C	ONSERVATION
COUNTY DUTCHESS			(3) DEC Well Number
	ER WELL CO	MPLETION REP	DRT DU 8657
OWNER C.L. RIDen Iberti-	110		(45) WELL LOG
ADDRESS	ANC-	nin and an and a second se	Depth to Bedrock <u>36</u> (ft. below land surface
502 Kaute 20 Himeniu N ) LOCATION OF WELL (See Instructions On Reverse)	<u> 772501</u>	(Check here 🛄 if address is same as	above (ft. above
	=11 # 23	(8) TAX MAP NO.	Top of Casing t 2 (ft. above (+) or
GPS □ Map 410 8229123 730 DEPTH OF WELL BELOW	5700593 (10) DEPTH TO GROUNDY BELOW LAND SURFAC	7066-00-67	15717 below (-) land surface) ISURED TOP OF WELL
100	ASINGS		
1) DIAMETER	in.	in.	in. 0-30'
2) LENGTH	ft.	fi.	in. Clau Till
3) GROUT TYPE / SEALING	(14) GROUT / SEALING IN		30-351
<u>Hentonitz</u>	(feet) F	ROM <u>/()</u> то <u>50</u>	wetorawl
6) MAKE & MATERIAL	(16) OPENINGS	ana an	25-1251
7) DIAMETER	in,	in, ]	in Black Marble
8) LENGTH	ft.		17- 160
ft.   )) DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feat)	π,	fi.	Yellow Caner
	LO TEST		Terrear ounce
0) DATE	(21) DURATION OF TEST	i na	
2) LIFT METHOD Pump Air Lift Beiler 4) STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(23) STABILIZED DISCHAR MUANC (25) MAXIMUM DRAWDOW (feet/inches below lop	Water of qual	
6) RECOVERY (Time in hours/minutas)	(27) Was the water produce		
B) PUMP II	129) DATE	(30) PUMP INSTALLER	
YES NO			
1) TYPE	(32) MAKE	(33) MODEL	
4) MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION FROM TOP OF CASIN		
	INFORMATION (37) USE OF WATER		
Botary Cable Tool Other	(See instructions for ch	oices) Test	
3) DATE DRILLING WORK STARTED	(39) DATE DRILLING WOR	R COMPLETED	
0) DATE REPORT FILED (41) REGISTERED COMPANY 4119114 AIB-CT M. HL	att + Sene	(42) DEC REGISTRATION NO NYRD _/019	
Sycentified GRILLER (Print name) Milton Hillott	(44) CERTIFIED DRILLERS	SIGNATURE H	
By signing this document i hereby affirm that: (1) I a sfined by Environmental Conservation Law 15-1502 ater well standards promulgated by the New York 5 e information provided in this Well Completion Rep	<ol> <li>(2) this water well was state Department of He</li> </ol>	as constructed in accordance aith; (3) under the penalty of	with BOILTOW OF HOLE
ny false statement made herein is punishable as a	Cless A Misdemeanor	Inder Penal Law §210.45.	10/2011 OTHER
<u>OCATION SKETCH</u> - Indicate north			

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NEW YORK OF	ADTM	ENT OF ENVIRO		
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COUNTY Dutchess			(3) DEC Well Number DU 8658
OWNER CLOCK WA	TER WELL COM	PLETION REPORT	(45) WELL LOG
ADDRESS	CLAL DEN	· · · · · · · · · · · · · · · · · · ·	Depth to Bedrock <u>12</u> (ft. below land surface)
LOCATION OF WELL (See Instructions On Reverse)	19, 117. 12.301 (Che	ick here 🔲 if address is same as above)	Ground Elevation ( ft. above sea level)
LATITUDE/LONGITUDE AND METHOD USED	5716297	ГАХ.МАР NO. 70/1-011-720910	Top of Casing <u>+/</u> (ft. above (+) or below (-) land surface)
DEPTH OF WELL BELOW LAND SURFACE (feet) 500	(10) DEPTH TO GROUNDWATE BELOW LAND SURFACE (fe		TOP OF WELL
) DIAMETER 7 in.	in.	in.	a' an'
) LENGTH $\int \int ft$	ft.	in. in.	Clau Till
) GROUT TYPE / SEALING	(14) GROUT / SEALING INTERV. (fepi) FROM		00-FAN
MAKE & MATERIAL	SCREENS		Shale Reck
DIAMETER			
ILENGTH	in.	in, in,	
ft.   DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet)	ft.	ft.   in.	
	ELD TEST		
104TE 4/2// 44-	(21) DURATION OF TEST	<i>F3</i>	
STATIC LEVEL PRIOR TO TEST	(23) STABILIZED DISCHARGE (C	SPM	
(feet/inches below lop of casing)	(23) MAXIMOM DRAWDOWN (st (feet/inches below top of cas) (27) Was the water produced durin	no) Rotton of hole	
	discharged away from immed		
PUMP INSTALLED? YES NO	(29) DATE	(30) PUMP INSTALLER	
ТУРЕ	(32) MAKE	(33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVE FROM TOP OF CASING (Fee		
	(37) USE OF WATER		
Rotary Cable Tool AS Biner CUSSION	(See instructions for choices)	Test	
DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK CON	MPLETED	
DATE REPORT FILED (41) REGISTERED COMPANY	1 4/dd/14	(42) DEC REGISTRATION NO.	
Hacily Albert M. H.	eat + Some	NYRD 10194	
GERTIFIED DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNA	TURE	
y signing this document I hereby affirm that: (1) I ined by Environmental Conservation Law 15-150	(2) this water well was co	diw orightrane ni heroutze	BOTTOM OF HOLE
ter well standards promulgated by the New York information provided in this Well Completion Re ( false statement made herein is punishable as a	State Department of Health; port is true, accurate and cor	(3) under the penalty of perjury	
		10/2011	OTHER
DCATION SKETCH - Indicate north			

NEW YORK STATE I	DEPARTMENT O	E ENVIRONME	INTAL CONSEL	RVATION		

XOUNTY Dutchess		(3) DEC Well Number
OWN AMERICA WA	TER WELL COMPLETION REPORT	DU 8667
DWNER	110	(45) WELL LOG
ADDRESS HO Ridge VENTURES	<	Depth to Bedrock <u>59</u> (ft. below
5021 RULE 22 AUSENIUS	N.Y. 12501 (Check here if address is same as above)	Ground Elevation ( ft. above
6	Uel/#25	sea level) Top of Casing <b>t</b> / (ft. above (+) or
ATITUDE/LONGITUDE AND METHOD USED	(8) TAX MAP NO.	Top of Casing <u>T</u> (ft. above (+) or below (-) land surface)
DEPTH OF WELL BELOW LAND SURFACE (feel)	(10) DEPTH TO GROUNDWATER DATE MEASURED BELOW LAND SURFACE (rent)	TOP OF WELL
OU!	CASINGS 47/2///4	
DIAMETER 7 in.	in, in,	0-25'
LENGTH 6/ fL	ft, ft. in.	Sand + Gravel
GROUT TYPE / SEALING	(14) GROUT / SEALING INTERVAL (leet) FROM TO	25'-59
	SCREENS	Hardpan
MAKE & MATERIAL	(16) OPENINGS	59-79
DIAMETER in.	in.	Delemite Amestine
LENGTH ft.	ft. tt.	79-1221 Mallion
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feet		Fractured Broken
Y	IELD TEST	
DATE	(21) DURATION OF TEST	Limestine
	(23) STABILIZED DISCHARGE (GPM)	132 -600
Pump Dr Air Lift Baller	35	Dolemite Vine stone
STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized): (feet/inches balow top of casing)	[ ] I'm a ann
RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from Immediate area? Yes No	
PUMP	INSTALLATION	
PUMP INSTALLED? YES NO	(29) DATE (30) PUMP INSTALLER	
TYPE	(32) MAKE (33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
DRILLE		
Rolary Cable Tool AIL BERCUSSIL	(37) USE OF WATER (See instructions for choices)	
DATE DRILLING WORK STARTED	(39) DATE DRILLING WORK COMPLETED	
4/23/14 DATE/REPORT FILED (41) REGISTERED COMPANY	4/25/14 (42) DEC REGISTRATION NO.	
4/26/14 Albert M. H	19th + 500 NYRD 10194	
CERTIFIED DRILLER (Print name)	(44) CERTIFIED DRILLER SIGNATURE	
	I am certified to supervise water well drilling activities as	BOTTOM OF HOLE
fined by Environmental Conservation Law 15-15 ter well standards promulgated by the New York		
fined by Environmental Conservation Law 15-15 ter well standards promulgated by the New York i information provided in this Well Completion Re	State Department of Health, (3) under the penalty of perjury aport is true, accurate and complete, and I understand that a Class A Misdemeanor under Penal Law §210.45. 10/2011	OTHER

		(3) DEC Well Number
OWN Anonia WAT	TER WELL COMPLETION REPOR	DU 8668
Sila Rida Wester	- 110	(45) WELL LOG
ADDRESS	III INF. I	Depth to Bedrock (ft. below land surface
OCATION OF WELL (See Instructions On Reverse)	(Check here 🔲 if address is same as above)	
ATITUDE/LONGITUDE AND METHOD USED	1 <u><!--7 # 26</u--> (B) TAX MAP NO.</u>	Top of Casing (ft. above (+) or
GPS □ Мар 4419 83555446 73° ДЕРТН ОГ WELL BELOW	5734031 7066-00-6707	17 below (-) land surface)
	BELOW LAND SURFACE (feei) 90 4/25/	TOP OF WELL
C Diameter	ASINGS	
LENGTH	in. in.	_ 0-660
<u>50 ml 10 ml 10 m</u>	ft.	Shale
grout type / sealing Bentanita	(14) GROUT / SEALING INTERVAL (feet) FROM TO	
MAKE & MATERIAL		
DIAMETER		
in.	in.	
LENGTH ft.	ft. (in. )	
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feel)		
	ELD TEST	
DATE 4125/14	(21) DURATION OF TEST	
LIFT METHOD	(23) STABILIZED DISCHARGE (GPM)	
STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/incites below top of casing) D 44 L 1	
RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test discharged away from Immediate area? Yes No	
PUMP II	NSTALLATION	
PUMP INSTALLED? YES NO Y	(29) DATE (30) PUMP INSTALLER	
	(32) MAKE (33) MODEL	
ТҮРЕ	(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
TYPE MAXIMUM CAPACITY (GPM)	Thom for thomas (ready	
MAXIMUM CAPACITY (GPM)	INFORMATION	
MAXIMUM CAPACITY (GPM)  DRILLER METHOD OF DRILLING AIR RECUSSION	(37) USE OF WATER	
	(37) USE OF WATER (See instructions for choices) Test (39) DATE DRULLING WORK COMPLETED 4425/14 (42) DEC REGISTRATION NO.	
MAXIMUM CAPACITY (GPM)  METHOD OF DRILLING AIR RECORDSTON Rotary Cable Tool Date DRILLING WORK/STARTED  HAL4/14	(37) USE OF WATER (See instructions for choices) (39) DATE DRILLING WORK COMPLETED 4425/14	
MAXIMUM CAPACITY (GPM) METHOD OF DRILLING AIR RECORDS I ON Rolary Coble Tool Drichar DATE DRILLING WORKSTARTED AIR REPORT FILTO (41) REGISTERED COMPANY HILLST HILLO (41) REGISTERED COMPANY HILLST HILL GERTIFIED DRILLER (Print name) Rex HILLSTH	(37) USE OF WATER (See instructions for choices) (39) DATE DRILLING WORK COMPLETED (39) DATE DRILLING WORK COMPLETED (42) DEC REGISTRATION NO. NYRD (44) CERTIFIED DRILLER SIGNATURE · R & MALINK	666
MAXIMUM CAPACITY (GPM)  METHOD OF DRILLING AIR RECORDS I ON Rotary Cable Tool DATE ORILLING WORK/STARTED  DATE REPORT FILED  AT A A A A A A A A A A A A A A A A A A	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	BOTTOM OF HOLE

Town     Amelian     Due 8674       Converter     Sile Kidge Ventures ALC     49 WELLOG       Converter     Sile Kidge Ventures ALC     Depth to Bedrock 233 (tr. bolow       Converter     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow       Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow     Sile Kidge Ventures (tr. bolow	COUNTY DATCH PTT		(3) DEC	Well Number
Control         WATER WELL COMPLETION REPORT           Control         Contro         Contro         Control <th>Diana</th> <th></th> <th></th> <th> 1</th>	Diana			1
Accores: Hick Kudage Vertifiers: ALC       Depth to Before X232 (the block state of states is state accore)         Social At 20 Amilian NY 10501       Construct of value (the block states of hearts)       Depth to Before X232 (the block states of states is states at accore)         Social At 20 Amilian One Remail       Construct of value (the block states of hearts)       Depth to Before X232 (the block states of the block states of	V/A I	ER WELL COMPLETION REPORT		<u> </u>
SDQ1 AF 30       Aff 20       Aff 20       Indiana is an anomalian of the second of	Silo Kidge Venture	5 ALCONTRACTOR		i and i
Image: Construction of the intervence of the inte	ADDRESS AL AT AMANNA	NY MEN	Depth to Bedrock	(ft. below land surface
$\begin{array}{c} \label{eq:construct} \mbox{List} (11 \m$	LOCATION OF WELL (See Instructions On Reverse)	(Check here 🗌 if address is same as above)	Ground Elevation _	
Construction     Construction     Construction     Construction     Construction       Construction     Construction     Construction     Construction     Construction     Construction       Construction     Construction     Construction     Construction     Construction     Construction     Construction       Construction     Construction     Construction     Construction     Construction     Construction     Construction       Construction </td <td>LATITUDE/LONGITUDE AND METHOD USED</td> <td>Uell # J /</td> <td>Top of Casing 🚽</td> <td></td>	LATITUDE/LONGITUDE AND METHOD USED	Uell # J /	Top of Casing 🚽	
LAND BURKACE (red)       SCOL       PRICON LUND BURKACE (red)       SCORE (red)       TOP OF WELL         International and the state of the state	IVTI T1.6/~ 101	73°34,480 7066-00-670717	be	low (-) land surface
DIAMATER     7     m.     171.m. 235 m.     m.     m.     m.     m.     m.     m.     m.     Gravit       DI CHARTH     235 m.     6.3 m.     n.     n.     m.     m.     March pan       Di CHARTH     235 m.     6.3 m.     n.     n.     m.     m.     March pan       Di CHARTH     SCREENS     SCREENS     15 ' - 1/5     Harch pan       MARKE MARTENL     (16) OPENINGS     333 - 240     Harch pan       DIANOTH     m.     m.     m.     m.     March pan       DIANOTH     m.     m.     m.     m.     March pan       DIANOTH     m.     m.     m.     m.     m.       DI CONTE     M.     M.     M		BELOW LAND SURFACE (feet) 10 5/28/14	TOP C	FWELL
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DIAMETER -+	••••••••••••••••••••••••••••••••••••••	0'-15	
Bouttonits       (men)       PROM_46		ft. ft. in.	wet sand t	Gravel
JAMME & MATTERIAL     (15) OPENNICS     ///5 - 233     Soft sandsten       JOUNNETER     In.     In.     In.     333 - 240     hand shet       JUENOTH     In.     In.     In.     In.     333 - 240     hand shet       JUENOTH     In.     In.     In.     In.     In.     In.     In.       JUENOTH     In.     In.     In.     In.     In.     In.     In.       JUENT TO TOP OF SCREEN, FROM TOP OF CASING (Proof)     YIELD TEST     Int.     In.     In.     In.     In.       JUET INTO TOP OF SCREEN, FROM TOP OF CASING (Proof)     YIELD TEST     Int.     Int.     Int.     Int.     Int.       JUET INTO TOP OF SCREEN, FROM TOP OF CASING (Proof)     YIELD TEST     Int.     Int.     Int.     Int.     Int.       JUET INTO LEVEL PRIOR TO TEST     (21) DURATION OF TEST     (22) MAXINUM DRAVCOWN (ISBILISKS)     Int.     Int.     Int.       JOUNT INSTALLED?     YES     NO     (23) STABILIZED DISCHARGE (PRIN)     NO     Yes     NO     Yes       JUET VELL PRIOR TO TEST     (23) MAXE     (23) MAXE     (23) MAXE     Int.     Int.       JUET VELL PRIOR TO TEST     (23) MAXE     (23) MAXE     (23) MAXE     Int.     Int.       JUET VEL PRIOR TO ELEG INT.	) GROUT TYPE / SEALING		15'-115	hardpan
DDAMETER       in.		REENS	115-233	off sandiston
in.     in. <td>MARE &amp; MATERIAL</td> <td>(16) OPENINGS</td> <td>092-240</td> <td>hardshet</td>	MARE & MATERIAL	(16) OPENINGS	092-240	hardshet
JLENOTH       R.		in in in its ini		of Linesto
DEPTH TO TOP OF SCREEN. FROM TOP OF CASING (Feel)       276'-500'       Shale         I) DATE       (21) DURATION OF TEST       (21) DURATION OF TEST       (23) STABILIZED DISCHARGE (OPM)         I) UFT METHOD       PMmp       Av Lit       Baller       (23) STABILIZED DISCHARGE (OPM)         I) UFT METHOD       PMmp       Av Lit       Baller       (23) STABILIZED DISCHARGE (OPM)         I) UFT METHOD       PMmp       Av Lit       Baller       (23) STABILIZED DISCHARGE (OPM)         I) UFT METHOD       PMmp       Av Lit       Baller       (23) STABILIZED DISCHARGE (OPM)         I) UFT METHOD       PMmp       Av Lit       Baller       (23) MAXIMUM DRANDOWN (Sileakized)         I (Beulinches below top of casing)       (23) MAXE       (23) PUMP INSTALLET       No_V         I) PUMP INSTALLED?       (23) PUMP INSTALLATION       (23) PUMP INSTALLER       No_V         I) TYPE       (23) MAKE       (23) MAKE       (23) MODEL         I) TYPE       (24) DATE DRILLING WORK COMPLETED       (23) MAKE       (23) DATE DRILLING WORK COMPLETED         I) MAXIMUM CAPACITY (GPM)       (25) DATE DRILLING WORK COMPLETED       (25) DATE DRILLING WORK STARTED       (26) DATE DRILLING WORK COMPLETED         I) DATE REPORT FILE?       (24) DET THED DRILLING WORK STARTED       (25) DATE DRILLING WORK STARTED       500' <td>) LENGTH</td> <td></td> <td>240-270</td> <td>Soft Coving</td>	) LENGTH		240-270	Soft Coving
IDATE     YIELD TEST       I)DATE     5/28/14       (21) DURATION OF TEST     6       (21) DURATION OF TEST     6       (22) DURATION OF TEST     6       (23) STABILIZED DISCHARGE (GPM)     (23) STABILIZED DISCHARGE (GPM)       (1) IFT METHOD     (23) MAXE       (1) RECOVERY (Time in hourambuldee)     (21) MAXIMUM DRAVIDOWN (Stabilized)       (1) RECOVERY (Time in hourambuldee)     (21) MAXIMUM DRAVIDOWN (Stabilized)       (1) RECOVERY (Time in hourambuldee)     (21) MAXIMUM DRAVIDOWN (Stabilized)       (1) RECOVERY (Time in hourambuldee)     (21) MAXE       (21) DURP INSTALLED?     (23) MAXE       (23) MAXE     (33) MODEL       (33) MAXE     (33) MODEL       (33) MOXE     (33) MOXE       (34) PLAP (INSTALLATION)     (35) PLAP (INSTALLATION)       (1) MAXIMUM CAPACITY (GPM)     (35) PLAP (INSTALLATION)       (1) METHOD OF DRILLING     (35) PLAP (INSTALLATION)       (1) METHOD OF ORILLING A: P. TCL 55.0 A     (37) USE OF WATER       (24) DET FILEI     (1) INSTALLER (INFORMATION)       (1) METHOD OF DRILLING WORK STARTED     (39) DATE DRILLING WORK COMPLETED       (20) DATE REPORT FILEI     (44) OETHTHED ORILLER (SIGNATURE 'I)       (21) DATE REPORT FILEI     (44) OETHTHED ROLLER (SIGNATURE 'I)       (21) DATE REPORT FILEI     (44) OETHTHED ROLLER (SIGNATURE 'I)       <		tt. (mener and selection of the selectio		first conde
DATE       5/68//4       [21] DURATION OF TEST       (23) STABILIZED DISCHARGE (GM)         JLIFT METHOD       Pump       [A ir Lit       Beller       (23) STABILIZED DISCHARGE (GM)         STATIC LEVEL PRIOR TO TEST       (25) MAXIMUM DRAWDOWN (Sitalized)       (16utificate below top of casing)       (25) MAXIMUM DRAWDOWN (Sitalized)         (16utificate below top of casing)       (27) Was the water produced during the test       6/6/4/2         (16utificate below top of casing)       (27) Was the water produced during the test       6/6/4/2         (16utificate area?       Yes       No       Ves       No         (27) Was the water produced during the test       (33) MODEL       No       Ves       No         (17) PE       (29) DATE       (39) MAKE       (39) MODEL       No       Ves       No         (17) PE       (29) DATE       (39) MAKE       (39) MODEL       (39) MAKE       (39) MODEL       Ves       No       V			276-500	Shale
ILIFT METHOD       Pdmp       A ki Lit       Bailer       (23) STABILIZED DISCHARGE (GPM)         ISTATIC LEVEL PRIOR TO TEST       (23) MAXIMUM DRAWDOWN (Sibilitized)       (100/Index below top of casing)       A // // // // // // // // // // // // //	The second s			
Image: Property of the second seco	5/28/14			
(feed/inches below top of casing)       (feed/inches below top of casing)       Add-         (PECOVERY (Time in hours/minules)       (27) Was the water produced during the test discharged away from immediate area?       No				
discharged away from immediate area?         No				
PUMP INSTALLATION         (29) DATE       (30) PUMP INSTALLER         YESNOL       (29) DATE         (30) PUMP INSTALLER       (30) PUMP INSTALLER         (1) TYPE       (32) MAKE         (33) MODEL       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         DIMAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         (1) MAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         (1) MATEINER       (37) USE OF WATER (See instructions for choices)         (1) MATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         (1) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         (1) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         (1) DATE ALLAR (Print name)       (44) CERTIFIED DRILLER SIGNATURE *         (1) DATE INFORMATION NO, MITCA       MITCA         (1) CERTIFIED DRILLER (Print name)       (14) CERTIFIED DRILLER SIGNATURE *         (1) CERTIFIED DRILLER (Print name)       (14) CERTIFIED DRILLER SIGNATURE *         (1) CERTIFIED DRILLER SIGNATURE *       MITCA         (1) CERTIFIED DRILLER (Print name)       (14) CERTIFIED DRILLER SIGNATURE *         (1) CERTIFIED DRILLER SIGNATURE *       MITCA         (2) Signing this docuryent1 hereby affirm that: (1) 1 am certified to supervise w	5) RECOVERY (Time in hours/minules)			
YES       NO       VES         ) TYPE       (32) MAKE       (33) MODEL         )) MAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)       (37) USE OF WATER         (30) MOTO OF DRILLING       An Protocol State (Feet)       DRILLER INFORMATION         (31) MODO OF DRILLING       An Protocol State (Seet)       DRILLER INFORMATION         (32) MAKE       (33) USE OF WATER       (See Instructions for choices)       TEST         (31) DATE DRILLING WORK STARTEP       (39) DATE DRILLING WORK COMPLETED       (42) DEC REGISTRATION NO. NYRD       NYRD         (32) MAKE       (44) CERTIFIED DRILLER SIGNATURE *       NYRD       NYRD       500 MYRD         (32) Signing this docurrient I hereby affirm that: (1) am certified to supervise water well drilling activities as fined by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with there well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury a information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §21.04.5.       DTILEE	PUMP IN			
(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feat)         DRILLER INFORMATION         (1) METHOD OF DRILLING         (1) DATE DRILLING WORK STARTEP         (1) DATE DRILLING WORK STARTEP         (1) DATE REPORT FILES         (1) DATE, REPORT FILES         (2) METHOD         (3) Signing this docupriefit I hereby affirm that:	B) PUMP INSTALLED?	(29) DATE (30) PUMP INSTALLER		
FROM TOP OF CASING (Feat)         DRILLER INFORMATION         INTEL ING ALLER INFORMATION         (39) DATE DRILLING ALLER INFORMATION INCLOSED TEST         INTEL Colspan="2">(39) DATE DRILLING WORK COMPLETED         ALLER (AllYREGISTERED COMPANY         (12) DATE DRILLING WORK COMPLETED         ALLER (Print name)         ALLER Signature (Print name)         ALLER (Print name)         ALLER Signature (Print name)         ALLER (Print na	I) TYPE	(32) MAKE (33) MODEL		
DRILLER INFORMATION         I) METHOD OF DRILLING       A: P Grassion       (37) USE OF WATER (See instructions for choices)       Test         I) hoary       Cable Tool       Other       (39) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         I) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED       (42) DEC REGISTRATION NO. NYRD       (42) DEC REGISTRATION NO. NYRD         5/28/14       Alkert       M. Hoat       (44) CERTIFIED DRILLER (Print name)       (44) CERTIFIED DRILLER SIGNATURE *         M. Hoat       Huat       M. Hoat       Huat       500       BOTTOM OF HOLE         Sy signing this docurrient I hereby affirm that: (1) I am certified to supervise water well was constructed in accordance with ther well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.       OTHER	4) MAXIMUM CAPACITY (GPM)			
I) METHOD OF DRILLING       A: P:: CCU:SSIOn       (37) USE OF WATER (See instructions for choices)       TEST         I) Poter DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED       (42) DEC REGISTRATION NO. NYRD       (42) DEC REGISTRATION NO. NYRD         0) DATE, REPORT FILES       (43) REGISTERED COMPANY       (42) DEC REGISTRATION NO. NYRD       NO. NYRD         5/28/14       H.H.a.t       H.H.a.t       Signing this docurrient I hereby affirm that: (1) I am certified to supervise water well drilling activities as finded by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with ater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.       OTHER				1 slovins s  tropics set
a) Date Drilling work startep       (39) Date Drilling work completed         b) Date, REPORT FILES       (41) AEGISTERED COMPANY         5/28/14       Alkert Mi, Hirat + Sexs         b) Date, REPORT FILES       Alkert Mi, Hirat + Sexs         b) CERTIFIED DRILLER (Print name)       (43) CERTIFIED SIGNATURE*         b) CERTIFIED DRILLER (Print name)       (44) CERTIFIED DRILLER SIGNATURE*         b) CERTIFIED DRILLER (Print name)       (44) CERTIFIED DRILLER SIGNATURE*         b) CERTIFIED DRILLER (Print name)       (44) CERTIFIED DRILLER SIGNATURE*         M Hon, Huat       Mitto- Huat         M Hon, Huat       10 am certified to supervise water well drilling activities as         Sinder dup Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with the well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury a information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.		(37) USE OF WATER		
4/29/14       5/8/14         a) DATE, REPORT FILES       (4) YREGISTERED COMPANY         5/28/14       A/Kert Mi, Hyratt + Sexs         NYRD_10194       A/Kert Mi, Hyratt + Sexs         0 CERTIFIED DRILLER (Print name)       (4) CERTIFIED DRILLER SIGNATURE *         M. Hora, Hyratt       Mutton         Mutton       Hyratt         M. Hora, Hyratt       Mutton         Mutton       Hyratt         Bottom       Bottom         Bottom       Bottom <t< td=""><td>Cable Tcol Other Cable Tcol Other O</td><td></td><td></td><td></td></t<>	Cable Tcol Other O			
5/28/14       Alkert Mi Hyatt + Scrs       NYRD_10194         0 CERTIFIED DRILLER (Print name)       (44) CERTIFIED DRILLER SIGNATURE *       500         3y signing this docurrient I hereby affirm that: (1) I am certified to supervise water well drilling activities as fined by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with ther well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury a information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law \$210.45.       OTHER	4/29/14	5/8/14		
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Infined by Environmental Conservation Law 15-1502; (2) this water well was constructed in accordance with ater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.	By signing this document I hereby affirm that: (1) I a	I IIIII A More Market	BOTTOM	
y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.	rfined by Environmental Conservation Law 15-1502 ater well standards promuldated by the New York S	(2) this water well was constructed in accordance with tate Department of Health: (3) under the penalty of perium.		
10/2014 ( 2017) [21]	<ul> <li>mormation provided in this well Completion Reprint any false statement made herein is punishable as a C</li> </ul>	Class A Misdemeanor under Penal Law §210.45.	OT	HER
	<u>OCATION SKETCH</u> - Indicate north			
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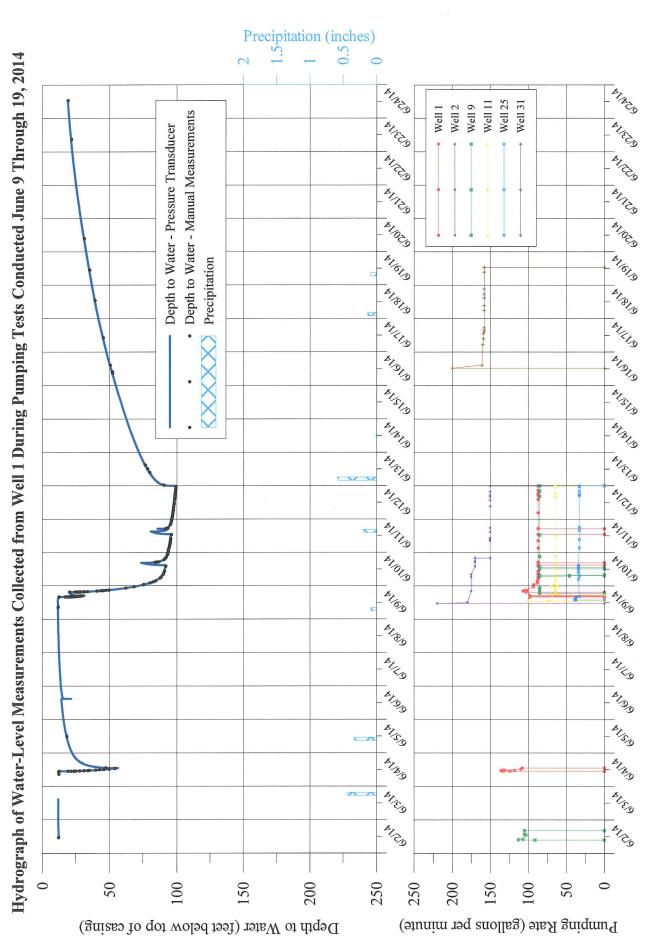
Provide Advance     PUTER VELL COMPLETION REPORT     PUTER VELL COMPLETION REPORT       UNITER     Sche Rudue Mature 14/C     Provide Schematic Conference on the Conferenc	COUNTY DUTCHESS		(3) DEC Well Number
In OWER     If OWER     If OWER     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of PLL Is a Maderia of Machine     If OWER     If OWER     If OWER     If OWER       Standard of Machine     If OWER     If OWER     If OWER     If OWER     If OWER       Standard of Machine     If OWER     If OWER     If OWER     If OWER     If OWER       Standard of Machine     If OWER     If OWER     If OWER     If OWER     If OWER       Standard of Machine     If OWER     If OWER     If OWER     If OWER     If OWER       Standard of Machine	TOWN AMERICA		DU 8679
AvecomeSP     BAL MULLER WALLES LAN     Depth to Bedrock 147 (t. below to brown of the statement of the sta			(45) WELL LOG
ILLECTION OF VIELL SEE INJURITING OF INFORMATION INFORMATI	ADDRESS IN RIDGE VENTUS	3< 120	Depth to Bedrock 197 (ft. below
UNETRODUCTION AND METHOD UNDER         UNDER COLSPAN DECONDUCTION         Construction of the set of	5021 Kt 22 Appenia	NY-12501 (Check here Differences is some as about)	
In the set of		UR11#28	
LAND BURKACE (Mer)       540'       NELOW LAND SUPPORTS (WE)       70'       5/5/14         DDAWETER       7       n.       n.       n.       n.       0       -2.9.9         DDAWETER       7       n.       n.       n.       n.       n.       0       -2.9.9         DDAWETER       7       n.       n.       n.       n.       n.       0       -2.9.9         DDAWETER       7       n.       n.       n.       n.       n.       0       -2.9.9         DDAWETER       Continue       10       GROUT TSPLACE (Mer)       SCREENS       20' - 1.0.5       hardpoin         MARKE 6 MATELIA       (Mg OPENINGS       Provide Screense       77' - 540'       Dollow Mithe         DDAWETER       In.       n.       n.       n.       n.       10'         DENTE       In.       n.       n.       n.       n.       10' <td>GPS □ Map N41049,559 W</td> <td></td> <td>below (-) land surface)</td>	GPS □ Map N41049,559 W		below (-) land surface)
IDENANTING     T     In     In     In     In     In     In       DENOTH     2000 R     R     R     In     In     Soft Songly F.II       DENOTH     2000 R     R     R     In     In     Soft Songly F.II       DENOTH     Becturt tree iscurses     (Int) OPENINGS     Into 2001     Mardpoint       DENOTH     Becturt tree     In     In     In     Soft Songly F.II       DENOTH     Becturt tree     In     In     In     Int       DENOTH     In     In     In     In     In       DENOTH     In     In     In     In     In       DENOTH     R     R     In     In     In       DENOTH     R     R     In     In     In       DENOTH     R     R     R     R     In       DIAR     Carley Edotedon     R<			TOP OF WELL
Dillevorth       200 ft.       ft.       ft.       ft.       ft.       in.       Soft Songu F.II.         Big ORDUT TYPE ISENUE       Beat_uite       (rel openut/security secures interval	and the second	CASINGS	
2000 till       till       till       in       Soft 20040000000000000000000000000000000000	2) LENGTH	in. in.	0-29
Beat-wite       rest       rest       rest       rest       gath         Image: Secret miles       Instruction	200tt.		Sett songy Fill
Diverse & MATTERIAL       (16) OPENINGS       (16) OPENINGS         Diverse & In.       In.       In.       In.         Diverse & In.       In.       In.       In.         BULENOTH       R.       In.       In.       In.         BULENOTH       RECOVERY (Three In Poor Scheeken, From TOP OF CASING (Free))       Casinstance (Free)       H. /t. most         DI LET METHOD       Pump PLANTIAL       Baker       Casinstance (Free)       H. /t. most         BI BECOVERY (Three In housemanutes)       Casinstance (Free)       Casinstance (Free)       No. Y         BI POWER INSTALLED       VEB NO       Casinstance (Free)       No. Y       No. Y         BI POWER INSTALLED       VEB NO       Casinstance (Free)       No. Y       No. Y         DINFE DRILLING WORK STANTED       Casin Test DRILLER INFOR	Bentemite	(feet) FROM (1) TO 200	27'-105 hardpon
In.       In.       In.       In.         BLENGTH       R.       R.       In.       In.         BLENGTH       R.       R.       In.       In.         IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)         IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)         IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)         IDDEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREEN, FROM TOP OF SCREENG (FEE)       IDDEPTH TO TOP OF SCREENG (FEE)         IDDEPTH TO TOP OF SCREENG FROM TOP OF CASING (Fee)       IDDEPTH TO TOP OF SCREENG (FEE)       IDDEPTH TO TOP OF SCREENG (FEE)       IDDEPTH TO TOP OF SCREENG (FEE)         INPUMP INSTALLATON       IDDEPTH TOP OF CASING (FEE)       IDDEPTH TO TOP OF CASING (FEE)       IDDEPTH TO TOP OF CASING (FEE)       IDDEPTH TO TOP OF CASING (FEE)         INPUMP INSTALLATION       IDDEPTH TOP OF CASING (FEE)       IDDEPTH TOP OF CASING (FEE)       IDDEPTH TO TOP OF CASING (FEE)       IDDEPTH TOP OF CASING (FEE)       IDDEPTH TOP OF CASING (FEE) <td></td> <td></td> <td>105'-197 yellow oche</td>			105'-197 yellow oche
Dillength       R.       R.       In.         In Depth to top of screen, FROM top of CASING (Few)       YIELD TEST       In.       H. I. mast         In DATE       JILLICE       G11 DURATION OF TEST       In.       H. I. mast         In DATE       JILLICE       G11 DURATION OF TEST       In.       In.         In DATE       JILLICE       G11 DURATION OF TEST       In.       In.         In DATE       JILLICE       G11 DURATION OF TEST       In.       In.         In DATE       JILLICE       G11 DURATION OF TEST       In.       In.         In STAIL CEVEL PRIOR TO TEST       G11 DURATION OF TEST       In.       In.         In STAIL CEVEL PRIOR TO TEST       G11 DURATION OF TEST       In.       In.         In STAIL CEVEL PRIOR TO TEST       G11 DURATION DEVELOPMENT ALLOT OF OF CASING Feed       IN. X         INPOINT TEDRILLING WORK STAILED?       Internet CELES (CR)       (S1) DATE DRALLATION LEVEL       INTERD         INMAXIMUM CAPACITY (GPM)       G11 DATE DRALLATION LEVEL       (S2) DATE DRALLATION LEVEL       (S2) DATE DRALLATION LEVEL       (S2) DATE DRALLATION LEVEL       (S2) DATE DRALLATION LEVEL	1) DIAMETER		197-541 Dolumite
fill       fill <thfill< th="">       fill       fill</thfill<>		in. in. in.	Lane time
In CATE       YIELD TEST         In CATE       (21) DURATION OF TEST         In CATE       (22) STABILIZED DISCHARGE (GPM)         In UP METHOD       In Arrian         In Up Method       In Output         In Output       In Output         In Output       In Output         In Output       In Output         In Output       In Output	ft.	ft. tin.	Hit most water at a
Date       [21) DURATION OF TEST         (21) DURATION OF TEST       (22) STABLIZED DISCHARGE (GPM)         (22) STATIC LEVEL PRIOR TO TEST       (23) STABLIZED DISCHARGE (GPM)         (1) BATTIC LEVEL PRIOR TO TEST       (25) MAXIMUM DRANDOWN (Stablized)         (1) BATTIC LEVEL PRIOR TO TEST       (25) MAXIMUM DRANDOWN (Stablized)         (1) BATTIC LEVEL PRIOR TO TEST       (25) MAXIMUM DRANDOWN (Stablized)         (1) BATTIC LEVEL PRIOR TO TEST       (27) Was the water produced during the water         (1) BATTIC LEVEL PRIOR TO TEST       (27) Was the water produced during the water         (1) BATTIC LEVEL PRIOR TO TEST       (29) DATE         (1) WATHING ALLED?       (29) DATE         (1) PUMP INSTALLED?       (29) DATE ORILLING WORK COMPLETED         (1) MAXIMUM CAPACITY (GPM)       (30) DATE DRILLING WORK COMPLETED         (1) DATE DRILLING WORK STARTED       (30) DATE DRILLING WORK COMPLETED         (20) DATE DRILLING WORK STARTED       (30) DATE DRILLING WORK COMPLETED         (20) DATE DRILLING WORK STARTED       (20) DATE DRILLING WORK COMPLETED         (20) DATE DRI			
<sup>[]</sup> Pump <sup>[]</sup> Artin        Baker        30 <sup>[]</sup> STATIC LEVEL PRIOR TO TEST <sup>[]</sup> (25) MAXIMUU DRAWDOWN (Stabilized) <sup>[]</sup> (deditination below top of casing) <sup>[]</sup> (deditination below top of casing free <sup>[]</sup> (deditination		Control March 1997 March 2017 (2017) 1997 March 2017 (2017)	
<sup>1</sup> / <sub>2</sub> Pump <sup>1</sup> / <sub>2</sub> Artin <sup>1</sup> / <sub>2</sub> Basicr <sup>2</sup> / <sub>2</sub> G <sup>1</sup> / <sub>2</sub> STATIC LEVEL PRIOR TO TEST <sup>(25)</sup> MAXIMUM DRAWDOWN (Stabilized) <sup>(4eetinches below top of casing)         <sup>(4eetinches below top of casing (feet)         <sup>(4eetinches below top of casing)         <sup>(4eetinches below top of casing (feet)         <sup>(4etinches below top of casing (feet)         <sup>(</sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup>	2) LIFT METHOD	(23) STABILIZED DISCHARGE (GPM)	
(rectifiches below top of casing)       (rectifiches below top of casing)       (rectifiches below top of casing)         (g) RECOVERY (Time in hours/minutes)       (27) Was the water produced during the test       No         (g) PUMP INSTALLED?       (29) DATE       No       No         (g) PUMP INSTALLED?       (29) DATE       (30) PUMP INSTALLER       No         (g) PUMP INSTALLED?       (29) DATE       (30) PUMP INSTALLER       No         (1) TYPE       (32) MAKE       (33) MODEL       (33) MODEL         (1) MAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION       (37) USE OF WATER       (33) MODEL         (3) METHOD OF DRILLING       Arr from from from for of casing free)       (37) USE OF WATER       (39) DATE DRILLING WORK STARTED       (44) CERTIFIED DRILLER SIGNATURE?       (42) DEC REGISTRATION NO.       NYRD       1/2/2/4/4       DOTATE REPORT FILED [41) REGISTERED COMPANY       (44) CERTIFIED DRILLER SIGNATURE?       BOTTOM OF HOLE         (g) DATE REPORT FILED       (find that t: (1)) I am certified to supervise Water well water well as accordance with tater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury einform that: (1) I am certified to supervise Water well water well water well as accordance with tater well s	<u> </u>	30	
discharged away from Immediate area? Yes No ½         PUMP INSTALLED?         YES NO ½         (29) DATE         (30) PUMP INSTALLER         (1) TYPE         (32) MAKE         (32) MAKE         (33) MODEL         IND ½         (37) USE OF WATER         FROM TOP OF CASING (Feet)         DRILLER INFORMATION         SID ATE ORILING         (31) USE OF WATER         Relary Cable Tool         O Other         SID ATE DRILING WORK STATED	(feet/inches below top of casing)	(leevinches below top of casing) Rettrant Arch	
B) PUMP INSTALLED?       VES		discharged away from inimediale area? Yes No	
1) TYPE       (32) MAKE       (33) MODEL         4) MAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)         DRILLER INFORMATION         6) METHOD OF DRILLING         OF DRILLER INFORMATION         6) METHOD OF DRILLING         DRILLER INFORMATION         6) METHOD OF DRILLING         DRILLER INFORMATION         OF DRILLING         DRILLER INFORMATION         OF DRILLING WORK STARTED         Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"         OF DRILLING WORK STARTED         Colspan="2"         Colspan="2"         Colspan="2"         Colspan="2"         Colspan= 2"         Colspan= 2"         Colspan= 2"         Colspan="2"         Colspan= 2"         Colspan= 2"         Colspan= 2"         Colspan= 2"         Colspan= 2"	B) PUMP INSTALLED?	and a second second with the second	
(i) MAXIMUM CAPACITY (GPM)       (35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feel).         DRILLER INFORMATION         (a) METHOD OF DRILLING       A/r R_CCLESS/CM         (a) METHOD OF DRILLING       A/r R_CCLESS/CM         (a) DATE DRILLING       A/r R_CCLESS/CM         (a) DATE DRILLING WORK STARTED       (a) DATE DRILLING WORK STARTED         (a) DATE DRILLING WORK STARTED       (a) DATE DRILLING WORK COMPLETED         (b) DATE REPORT FILED       (b) TH REGISTERED COMPANY         (b) DATE REPORT FILED       (b) TH REGISTERED COMPANY         (c) CERTIFIED DRILLER SIGNATURE       NYRD         (b) CERTIFIED DRILLER SIGNATURE       N/RD         (c) CERTIFIED DRILLER SIGNATURE       BOTTOM OF HOLE         (c) CERTIFIED DRILLER SIGNATURE       BOTTOM OF HOLE         (c) CERTIFIED DRILLER SIGNATURE       DIATE DRILLER SIGNATURE         (c) CERTIFIED DRILLER SIGNATURE       DIATE DRILLER SIGNATURE         (c) CERTIFIED DRILLER SIGNATURE       DIATE DRILLER SIGNATURE         (c) CERTIFIED DRILLER SIGNATURE		(32) MAKE (33) MODEL	
FROM TOP OF CASING (Feet)         DRILLER INFORMATION         B) DATE DRILLING         B) METHOD OF DRILLING       Altr. Ac-CLESSION         (37) USE OF WATER (See Instructions for choices)       T_S_T         B) DATE DRILLING WORK STARTED       (38) DATE DRILLING WORK COMPLETED         S) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         S) DATE REPORT FILED       (41) REGISTERED COMPANY         S) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         S) DATE MAY ALL ALL ALL ALL ALL ALL ALL ALL ALL A			
B) METHOD OF DRILLING       A/IF       REFIGUESSION       (37) USE OF WATER (See Instructions for choices)       Test         B) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         b) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED         b) DATE REPORT FILED       (41) REGISTERED COMPANY       (42) DEC REGISTRATION NO. NYRD       NYRD         b) DATE DRILLING WORK STARTED       (39) DATE DRILLING WORK COMPLETED       NYRD       101/19/44         b) DATE REPORT FILED       (41) REGISTERED COMPANY       (42) DEC REGISTRATION NO. NYRD       NYRD       101/19/44         b) DERIJFIED DRILLER SIGNATURE       (44) CERTIFIED DRILLER SIGNATURE       NYRD       101/19/44         By signing this document if hereby affirm that: (1) I am certified to supervise water well was constructed in accordance with ater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury e information provided in this Well Completion Report is true, accurate and complete, and I understand that y faise statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.       DTHER		FROM TOP OF CASING (Feet)	
Rolary       Cable Tool       O Other       (See Instructions for choices) 72.57         a) DATE DRILLING WORK STARTED       (Se) DATE DRILLING WORK COMPLETED         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       5/15/14         5/12/14       6/16/14         5/12/14       5/15/14         5/12/14       6/16/14         5/12/14       7/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14       6/16/14         5/12/14<	) METHOD OF DRILLING AIT REFELISSION	(37) USE OF WATER	
5/04/14       A/bert M. Hunt + Sins       NYRD_/01944         a) CERTIFIED DRILER (Finit name)       (44) CERTIFIED DRILER SIGNATURE*       Sint Annual An	Rotary 🖸 Cable Tool 🙀 Other	(See instructions for choices) 72.57	
5/04/14       A/bert M. Hunt + Sins       NYRD_/01944         a) CERTIFIED DRILER (Finit name)       (44) CERTIFIED DRILER SIGNATURE*       Sint Annual An	DIDATE REPORT FILED 1411 REGISTERED COMPANY	5/15/14	
Mitten Huart       Mitten Huart       540         By signing this document I hereby affirm that: (1) I am certified to supervise water well drilling activities as the supervise water well was constructed in accordance with ater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury e information provided in this Well Completion Report is true, accurate and complete, and I understand that the statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45.       BOTTOM OF HOLE         10/2011	5/24/14 Albert M.1	HUATT+SONS NYRD_10194	
ater well standards promulgated by the New York State Department of Health; (3) under the penalty of perjury e information provided in this Well Completion Report is true, accurate and complete, and I understand that y false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45. 10/2011 OTHER	_M. Hen Hught	Matto Hewitt	- Con
e information provided in this Well Completion Report is true, accurate and complete, and I understand that by false statement made herein is punishable as a Class A Misdemeanor under Penal Law §210.45. 10/2011 OTHER	fined by Environmental Conservation Law 15-150	2. (2) this water well was constructed in apportance with	BOTTOM OF HOLE
	Information provided in this Well Completion Rep	port is true, accurate and complete, and I understand that Class A Misdemeanor under Penal Law §210.45.	OTHER
	OCATION SKETCH - Indicate north	10/2011. 	

ntian		
OUNTY DATCHESS	a da se 🔂 da se	(3) DEC Well Number
OWN AMERICA MA	TED WELL COMPLETION DEPORT	DU 8681
WNER VYA	TER WELL COMPLETION REPORT	(45)
Silo Ridge Hentin	m < 126	<sup>(45)</sup> WELL LOG
DDRESS		Depth to Bedrock 190 (ft. below
5021 Rt. 22 America	N.Y. 12501	and surface Ground Elevation (ft. above
OCATION OF WELL (See Instructions On Reverse)	(Check here ☐ if address is same as above)	Ground Elevation(ft. above sea level)
ATITUDE/LONGITUDE AND METHOD USED	(B) TAX MAP NO.	Top of Casing <u>1</u> (ft. above (+) or
GPS □ Map N410 49,664 W07	3:34.378 7066-00-670717	below (-) land surface)
AND SURFACE (feet)	(10) DEPTH TO GROUNDWATER DATE MEASURED	TOP OF WELL
<u> </u>	CASINGS 08 5/8/14	
DIAMETER	<u>a data da manana da kanana da kanana da kanana da kanana kanana da kanana da kanana da kanana da kanana da kana</u>	- Alar
7. in.]	in. in. in.	0-8 Satt Clay
$\bigcirc \uparrow \tau^{\text{ft.}}$	ft. ft.	2' 196' hard pan.
GROUT TYPE / SEALING	(14) GROUT / SEALING INTERVAL	Part Pristerials
Bertingt	(feet) FROM TO	190-220 - DOT SAUL
MAKE & MATERIAL	SCREENS (16) OPENINGS	501-511 Shale
DIAMETER		winter braning al
in.	in. in. in.	and all an
LENGTH ft.	ft. ft. in.	030 F 060 + 35
DEPTH TO TOP OF SCREEN, FROM TOP OF CASING (Feel		
· 사용 사용 또 나는 사망하는 것은 사망한 것 이 것은 것이 가지 못했다. ㅠ	IELD TEST	
DATE 5/1-7/14	(21) DURATION OF TEST	
	(23) STABILIZED DISCHARGE (GPM)	
🛛 Pump 👷 Air Lift 🔲 Bailer	100+	
STATIC LEVEL PRIOR TO TEST (feet/inches below top of casing)	(25) MAXIMUM DRAWDOWN (Stabilized) (feet/inches below top of casing)	
RECOVERY (Time in hours/minutes)	(27) Was the water produced during the test	
	discharged away from immediate area? Yes No	
	INSTALLATION (29) DATE (30) PUMP INSTALLER	
YES NO		
TYPE	(32) MAKE (33) MODEL	
MAXIMUM CAPACITY (GPM)	(35) PUMP INSTALLATION LEVEL FROM TOP OF CASING (Feet)	
[24] An Additional Society of the Control of Society and Society and Society and Society of Society and Society	RINFORMATION	
METHOD OF DRILLING Air Krcussiop Rotary Cable Tool Other	(37) USE OF WATER (See Instructions for choices)	
	(39) DATE DRILLING WORK COMPLETED	
5/16/14	5/20/14	
DATE REPORT FILED (41) REGISTERED COMPANY	(42) DEC REGISTRATION NO.	
5/24/14 A/6= T M. H	(44) CERTIFIED DRILLER SIGNATURE	
Milter Horat	Miller Signature the	
	I am certified to supervise water well drilling activities as	500 BOTTOM OF HOLE
er well standards promulgated by the New York	02; (2) this water well was constructed in accordance with State Department of Health; (3) under the penalty of perjury	
information provided in this Well Completion Re	a class A Misdemeanor under Penal Law §210.45.	
also second in move herein is putilshable as i	a class A Misdemeanor under Penal Law 9210,45. 10/2011	OTHER
		the second state of the second sec

# **APPENDIX II**

WELL 1

LEGGETTE, BRASHEARS & GRAHAM, INC.



K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 1.grf

LEGGETTE. BRASHEARS & GRAHAM, INC.

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/2/2014	12:00		11.83	
6/2/2014	13:00		11.94	
6/2/2014	14:00		11.89	
6/2/2014	15:00		11.86	
6/2/2014	16:00		11.83	
6/2/2014	17:00		11.80	
6/2/2014	18:00		11.77	
6/2/2014	19:00		11.74	
6/2/2014	20:00		11.72	
6/2/2014	21:00		11.72	
6/2/2014	22:00		11.71	
6/2/2014	23:00		11.71	
6/3/2014	0:00		11.71	
6/3/2014	1:00		11.72	
6/3/2014	2:00		11.72	
6/3/2014	3:00		11.72	
6/3/2014	4:00		11.71	
6/3/2014	5:00		11.71	
6/3/2014	6:00		11.71	
6/3/2014	7:00		11.70	
6/3/2014	8:00		11.70	
6/3/2014	9:00		11.69	
6/3/2014	10:00		11.70	
6/3/2014	11:00		11.70	
6/3/2014	12:00		11.70	
6/3/2014	13:00		11.72	
6/3/2014	14:00		11.72	
6/4/2014	10:00		12.12	
6/4/2014	11:00		24.70	Preliminary test on Well 1 being conducted.
6/4/2014	12:00		44.33	
6/4/2014	13:00		55.57	
6/4/2014	14:00		39.11	
6/4/2014	15:00		33.99	
6/4/2014	16:00		31.02	Preliminary test on Well 1 ended.
6/4/2014	17:00		29.05	
6/4/2014	18:00		27.51	
6/4/2014	19:00		26.29	
6/4/2014	20:00		25.20	
6/4/2014	21:00		24.35	
6/4/2014	22:00		23.60	
6/4/2014	23:00		22.94	
6/5/2014	0:00		22.32	
6/5/2014	1:00		21.78	
6/5/2014	2:00		21.31	
6/5/2014	3:00		20.86	
6/5/2014	4:00		20.46	
6/5/2014	5:00		20.05	
6/5/2014	6:00		19.71	
6/5/2014	7:00		19.35	
6/5/2014	8:00		19.05	
6/5/2014	9:00		18.75	
6/5/2014	10:00		18.51	
6/5/2014	11:00		18.30	
6/5/2014	12:00		18.04	
6/5/2014	13:00		17.87	
6/5/2014	14:00		17.46	
6/5/2014	15:00		17.27	
6/5/2014	16:00		17.06	
6/5/2014	17:00		16.86	
6/5/2014	18:00		16.65	
	19:00		16.48	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/5/2014	20:00		16.29	
6/5/2014	21:00		16.14	
6/5/2014	22:00		16.01	
6/5/2014	23:00		15.80	
6/6/2014	0:00		15.67	
6/6/2014	1:00		15.52	
6/6/2014	2:00		15.39	
6/6/2014	3:00		15.24	
6/6/2014	4:00		15.11	
6/6/2014	5:00		15.05	
6/6/2014	6:00		14.90	
6/6/2014	7:00		14.77	
6/6/2014	8:00		14.66	
6/6/2014	9:00		14.56	
6/6/2014	10:00		14.45	
6/6/2014	11:00		14.34	
6/6/2014	12:00		14.21	
6/6/2014	13:00		14.13	
6/6/2014	14:00		14.04	
6/6/2014	15:00		15.92	
6/6/2014	16:00		14.97	
6/6/2014	17:00 18:00		<u>14.62</u> 14.41	
6/6/2014 6/6/2014	18:00		14.41	
6/6/2014	20:00		14.20	
6/6/2014	20:00		13.98	
6/6/2014	22:00		13.85	
6/6/2014	23:00		13.74	
6/7/2014	0:00		13.66	
6/7/2014	1:00		13.57	
6/7/2014	2:00		13.48	
6/7/2014	3:00		13.40	
6/7/2014	4:00		13.36	
6/7/2014	5:00		13.27	
6/7/2014	6:00		13.21	
6/7/2014	7:00		13.14	
6/7/2014	8:00		13.12	
6/7/2014	9:00		13.04	
6/7/2014	10:00		12.99	
6/7/2014	11:00		12.91	
6/7/2014	12:00		12.84	
6/7/2014	13:00		12.82	
6/7/2014	14:00		12.72 12.63	
6/7/2014	15:00		12.63	
6/7/2014	16:00 17:00		12.58	
6/7/2014	18:00		12.58	
6/7/2014	19:00		12.32	
6/7/2014	20:00		12.43	
6/7/2014	21:00		12.35	
6/7/2014	22:00		12.31	
6/7/2014	23:00		12.26	
6/8/2014	0:00		12.22	
6/8/2014	1:00		12.18	
6/8/2014	2:00		12.20	
6/8/2014	3:00		12.11	
6/8/2014	4:00		12.07	
6/8/2014	5:00		12.05	
6/8/2014	6:00		12.05	
6/8/2014	7:00		12.01	
6/8/2014	8:00		11.99	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/8/2014	9:00		11.96	
6/8/2014	10:00		11.94	
6/8/2014	11:00		11.88	
6/8/2014	12:00		11.88	
6/8/2014	13:00		11.84	
6/8/2014	14:00		11.79	
6/8/2014	15:00		11.73	
6/8/2014	16:00		11.71	
6/8/2014	17:00		11.71	
6/8/2014	18:00		11.64	
6/8/2014	19:00		11.64	
6/8/2014	20:00		11.62	
6/8/2014	21:00		11.62	
6/8/2014	22:00		11.60	
6/8/2014	23:00		11.56	
6/9/2014	0:00	3 <b></b> 0	11.54	
6/9/2014	1:00	2	11.49	
6/9/2014	2:00		11.47	
6/9/2014	3:00		11.49	
6/9/2014	4:00		11.47	
6/9/2014	5:00		11.47	
6/9/2014	6:00		11.47	
6/9/2014	7:00	11	11.47	
6/9/2014	8:00		11.45	
6/9/2014	9:00		11.47	
6/9/2014	10:00 11:00		11.49	
6/9/2014 6/9/2014	11:00		<u>11.47</u> 11.43	Start of pump in Well 2.
6/9/2014	11:32		11.43	Start of pump in well 2.
6/9/2014	12:00		11.38	
6/9/2014	13:51		11.39	Start of pump in Well 25.
6/9/2014	14:00		11.49	Start of pump in wen 25.
6/9/2014	15:00		11.52	
6/9/2014	15:03		11.71	Pump in Well 28 started.
6/9/2014	15:09		11.75	Pump in Well 28 stopped.
6/9/2014	15:58		12.01	
6/9/2014	15:59		16.63	Initial start of pump in Well 1.
6/9/2014	16:00		17.68	Well 1 pumping rate 98 gpm.
6/9/2014	16:27		28.08	Pump in Well 1 shut down.
6/9/2014	17:00	. <del></del>	26.85	
6/9/2014	17:24		23.42	Start of pump in Well 11.
6/9/2014	18:00		21.66	
6/9/2014	18:55	. <b></b> .	20.46	Start of pump in Well 9.
6/9/2014	19:00		20.40	
6/9/2014	19:29		20.10	
6/9/2014	19:30	1	24.69	Restart of pump in Well 1.
6/9/2014	19:31	2	25.87	Well 1 pumping rate 103 gpm.
6/9/2014	19:32	3	26.66	
6/9/2014	19:33	4	27.35	
6/9/2014	19:34	5	27.91	
6/9/2014	19:35	6	28.44	
6/9/2014	19:36	7	28.98	
6/9/2014	19:37	8	29.49	
6/9/2014	19:38	9	29.87	
6/9/2014	19:39	10	30.39	W-11 1
6/9/2014	19:40	11	30.80	Well 1 pumping rate 103 gpm.
6/9/2014	19:41	12	31.20	
6/9/2014	19:42	13 14	31.61 31.99	
6/9/2014 6/9/2014	19:43 19:44	14	31.99	
6/9/2014	19:44	15	32.36	
0/9/2014	19.43	10	32.14	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/9/2014	19:50	21	34.41	Well 1 pumping rate 103 gpm.
6/9/2014	19:55	26	35.97	
6/9/2014	20:00	31	37.40	Well 1 pumping rate 103 gpm.
6/9/2014	20:05	36	38.75	
6/9/2014	20:10	41	40.05	Well 1 pumping rate 103 gpm.
6/9/2014	20:15	46	41.27	
6/9/2014	20:20	51	42.40	Well 1 pumping rate 103 gpm.
6/9/2014	20:30	61	44.65	Well 1 pumping rate 103 gpm.
6/9/2014	20:40	71	46.64	Well 1 pumping rate 103 gpm.
6/9/2014	20:50	81	48.60	
6/9/2014	21:00	91	50.42	Well 1 pumping rate 103 gpm.
6/9/2014	21:10	101	52.11	
6/9/2014	21:20	111	53.73	
6/9/2014	21:30	121	55.33	
6/9/2014	22:00	151	59.50	Well 1 pumping rate 103 gpm.
6/9/2014	22:30	181	63.18	
6/9/2014	23:00	211	66.47	Well 1 pumping rate 93 gpm.
6/9/2014	23:30	241	69.36	
6/10/2014	0:00	271	71.94	Well 1 pumping rate 93 gpm.
6/10/2014	1:00	331	76.39	Well 1 pumping rate 88 gpm.
6/10/2014	2:00	391	79.92	Well 1 pumping rate 88 gpm.
6/10/2014	3:00	451	82.76	Well 1 pumping rate 88 gpm.
6/10/2014	4:00	511	84.96	Well 1 pumping rate 88 gpm.
6/10/2014	5:00	571	86.63	Well 1 pumping rate 87 gpm.
6/10/2014	6:00	631	87.85	Well 1 pumping rate 87 gpm.
6/10/2014	7:00	691	88.75	Well 1 pumping rate 87 gpm.
6/10/2014	8:00	751	89.37	Well 1 pumping rate 87 gpm.
6/10/2014	9:00	811	89.90	Well 1 pumping rate 87 gpm.
6/10/2014	10:00	871	90.35	Well 1 pumping rate 87 gpm.
6/10/2014	11:00	931 991	90.67	Well 1 pumping rate 87 gpm.
6/10/2014	12:00	1051	91.01 91.23	Well 1 pumping rate 87 gpm. Well 1 pumping rate 87 gpm.
6/10/2014 6/10/2014	13:00	1111	91.23	Well 1 pumping rate 87 gpm.
6/10/2014	14:00 14:53	1164	91.48	Pump in Well 1 shut down.
6/10/2014	15:00	1104	84.69	Fump in wen I snut down.
6/10/2014	16:00	1231	75.95	
6/10/2014	16:33	1264	73.75	Pump in Well 1 restarted.
6/10/2014	17:00	1291	84.62	Well 1 pumping rate 87 gpm.
6/10/2014	18:00	1351	88.81	Well 1 pumping rate 87 gpm.
6/10/2014	19:00	1411	90.42	Well 1 pumping rate 87 gpm.
6/10/2014	20:00	1471	91.29	Well 1 pumping rate 87 gpm.
6/10/2014	21:00	1531	91.97	Well 1 pumping rate 87 gpm.
6/10/2014	22:00	1591	92.40	Well 1 pumping rate 87 gpm.
6/10/2014	23:00	1651	92.79	Well 1 pumping rate 87 gpm.
6/11/2014	0:00	1711	93.09	Well 1 pumping rate 87 gpm.
6/11/2014	1:00	1771	93.34	Well 1 pumping rate 87 gpm.
6/11/2014	2:00	1831	93.62	Well 1 pumping rate 87 gpm.
6/11/2014	3:00	1891	93.79	Well 1 pumping rate 87 gpm.
6/11/2014	4:00	1951	93.99	Well 1 pumping rate 87 gpm.
6/11/2014	5:00	2011	94.20	Well 1 pumping rate 87 gpm.
6/11/2014	6:00	2071	94.41	Well 1 pumping rate 87 gpm.
6/11/2014	7:00	2131	94.63	Well 1 pumping rate 87 gpm.
6/11/2014	8:00	2191	94.73	Well 1 pumping rate 87 gpm.
6/11/2014	9:00	2251	94.95	Well 1 pumping rate 87 gpm.
6/11/2014	10:00	2311	95.16	Well 1 pumping rate 87 gpm.
6/11/2014	11:00	2371	95.22	Well 1 pumping rate 87 gpm.
6/11/2014	12:00	2431	95.42	Well 1 pumping rate 87 gpm.
6/11/2014	13:00	2491	95.55	Well 1 pumping rate 87 gpm.
6/11/2014	13:12	2503	92.81	Pump in Well 1 shut down.
6/11/2014	14:00	2551	84.34	
6/11/2014	15:00	2611	81.04	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/11/2014	15:07	2618	80.78	Pump in Well 1 restarted.
6/11/2014	16:00	2671	91.83	Well 1 pumping rate 87 gpm.
6/11/2014	16:51	2722	90.27	Pump in Well 1 shut down.
6/11/2014	17:00	2731	86.33	
6/11/2014	17:03	2734	85.71	Pump in Well 1 restarted.
6/11/2014	18:00	2791	93.53	Well 1 pumping rate 87 gpm.
6/11/2014	19:00	2851	94.32	Well 1 pumping rate 87 gpm.
6/11/2014	20:00	2911	94.77	Well 1 pumping rate 87 gpm.
6/11/2014	21:00	2971	95.12	Well 1 pumping rate 87 gpm.
6/11/2014	22:00	3031	95.42	Well 1 pumping rate 87 gpm.
6/11/2014	23:00	3091	95.65	Well 1 pumping rate 87 gpm.
6/12/2014	0:00	3151	95.86	Well 1 pumping rate 87 gpm.
6/12/2014	1:00	3211	96.08	Well 1 pumping rate 87 gpm.
6/12/2014	2:00	3271	96.25	Well 1 pumping rate 87 gpm.
6/12/2014	3:00	3331	96.42	Well 1 pumping rate 87 gpm.
6/12/2014	4:00	3391	96.57	Well 1 pumping rate 87 gpm.
6/12/2014	5:00	3451	96.74	Well 1 pumping rate 87 gpm.
6/12/2014	6:00	3511	96.91	Well 1 pumping rate 87 gpm.
6/12/2014	7:00	3571	97.04	Well 1 pumping rate 87 gpm.
6/12/2014	8:00	3631	97.19	Well 1 pumping rate 87 gpm.
6/12/2014	9:00	3691	97.34	Well 1 pumping rate 87 gpm.
6/12/2014	10:00	3751	97.47	Well 1 pumping rate 87 gpm.
6/12/2014	11:00	3811	97.58	Well 1 pumping rate 87 gpm.
6/12/2014	12:00	3871	97.75	Well 1 pumping rate 87 gpm.
6/12/2014	13:00	3931	97.83	Well 1 pumping rate 87 gpm.
6/12/2014	14:00	3991	97.94	Well 1 pumping rate 87 gpm.
6/12/2014	15:00	4051	98.01	Well 1 pumping rate 87 gpm.
6/12/2014	16:00	4111	98.13	Well 1 pumping rate 87 gpm.
6/12/2014	17:00	4171	98.26	Well 1 pumping rate 87 gpm.
6/12/2014	18:00	4231	98.33	Well 1 pumping rate 87 gpm.
6/12/2014	19:00	4291	98.52	Well 1 pumping rate 87 gpm.
6/12/2014	20:00	4351	98.62	Well 1 pumping rate 87 gpm.
6/12/2014	21:00	4411	98.65	Well 1 pumping rate 87 gpm.
6/12/2014	22:00	4471	98.82	Well 1 pumping rate 87 gpm.
6/12/2014	23:00	4531	98.88	Well 1 pumping rate 87 gpm.
6/12/2014	23:51	4582	98.92	Well 1 pumping rate 87 gpm.
6/12/2014	23:52	4583	98.92	Well 1 pumping rate 87 gpm.
6/12/2014	23:53		96.93	Pump in Well 1 shut down.
6/12/2014	23:54		95.18	
6/12/2014	23:55		94.58	
6/12/2014	23:56		94.18	
6/12/2014	23:57		93.84	
6/12/2014	23:58		93.54	
6/12/2014	23:59		93.28	
6/13/2014	0:00		93.07	
6/13/2014	0:01		92.81	
6/13/2014	0:02		92.66	
6/13/2014	0:02		92.45	
6/13/2014	0:03		92.30	
6/13/2014	0:04		92.15	
6/13/2014	0:05		91.97	
6/13/2014	0:00		91.85	
6/13/2014	0:12		91.20	
6/13/2014	0:12		90.71	
	0:22		90.28	
6/13/2014	0.44		89.92	
6/13/2014	0.27			
6/13/2014	0:27			
6/13/2014 6/13/2014	0:32		89.59	
6/13/2014 6/13/2014 6/13/2014	0:32 0:37		89.59 89.29	
6/13/2014 6/13/2014 6/13/2014 6/13/2014	0:32 0:37 0:42		89.59 89.29 89.04	
6/13/2014 6/13/2014 6/13/2014	0:32 0:37		89.59 89.29	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/13/2014	1:12		87.84	
6/13/2014	1:22		87.48	
6/13/2014	1:32		87.18	
6/13/2014	1:42		86.86	
6/13/2014	1:52		86.62	
6/13/2014	2:00		86.39	
6/13/2014	3:00		85.11	
6/13/2014	4:00		84.02	
6/13/2014	5:00		83.08	
6/13/2014	6:00		82.24	
6/13/2014	7:00		81.47	
6/13/2014	8:00		80.77	
6/13/2014	9:00		80.13	
6/13/2014	10:00		79.49	
6/13/2014	11:00		78.82	
6/13/2014	12:00		78.25	
6/13/2014	13:00		77.69	
6/13/2014	14:00		77.09	
6/13/2014	15:00		76.54	
6/13/2014	16:00		75.98	
6/13/2014	17:00	-	75.47	
6/13/2014	18:00		74.98	
6/13/2014	19:00		74.48	
6/13/2014	20:00		73.99	
6/13/2014	21:00		73.54	
6/13/2014	22:00		73.07	
6/14/2014	0:00		72.20	
6/14/2014	1:00		71.70	
6/14/2014	2:00		71.23	
6/14/2014	3:00		70.83	
6/14/2014	4:00		70.34	
6/14/2014	5:00		69.93	
6/14/2014	6:00		69.50	
6/14/2014	7:00	==	69.10	
6/14/2014	8:00		68.69	
6/14/2014	9:00		68.31	
6/14/2014	10:00		67.92	
6/14/2014	11:00		67.54	
6/14/2014	12:00		67.11	
6/14/2014	13:00		66.70	
6/14/2014	14:00		66.32	
6/14/2014	15:00		65.89	
6/14/2014	16:00		65.55	
6/14/2014	17:00		65.12	
6/14/2014	18:00		64.76	
6/14/2014	19:00		64.41	
6/14/2014	20:00		64.01	
6/14/2014	21:00		63.69	
6/14/2014	22:00		63.30	
6/14/2014	23:00		62.96	
6/15/2014	0:00		62.62	
6/15/2014	1:00		62.23	
6/15/2014	2:00		61.87	
6/15/2014	3:00		61.53	
6/15/2014	4:00		61.16	
6/15/2014	5:00		60.84	
6/15/2014	6:00		60.50	
6/15/2014	7:00		60.16	
6/15/2014	8:00		59.86	
6/15/2014	9:00		59.52	
6/15/2014	10:00		59.24	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/15/2014	11:00		58.94	
6/15/2014	12:00		58.58	
6/15/2014	13:00		58.26	
6/15/2014	14:00		57.87	
6/15/2014	15:00		57.55	
6/15/2014	16:00		57.23	
6/15/2014	17:00		56.87	
6/15/2014	18:00		56.55	
6/15/2014	19:00		56.21	
6/15/2014	20:00		55.88	
6/15/2014	21:00		55.56	
6/15/2014	22:00		55.26	
6/15/2014	23:00		54.97	
6/16/2014	0:00		54.65	
6/16/2014	1:00	( <b>11 1</b>	54.37	
6/16/2014	2:00		54.05	
6/16/2014	3:00		53.75	
6/16/2014	4:00		53.43	
6/16/2014	5:00		53.17	
6/16/2014	6:00		52.85	
6/16/2014	7:00		52.53	
6/16/2014	8:00		52.25 51.93	
6/16/2014	9:00			
6/16/2014 6/16/2014	10:00 11:00		51.63	
6/16/2014	12:00		51.03	
6/16/2014	12:00		50.93	Pump in Well 31 started.
6/16/2014	13:00		50.73	Tump in wen 51 started.
6/16/2014	14:00		50.46	
6/16/2014	15:00		50.18	
6/16/2014	16:00		49.84	
6/16/2014	17:00		49.52	
6/16/2014	18:00		49.19	
6/16/2014	19:00		48.92	
6/16/2014	20:00		48.68	
6/16/2014	21:00		48.36	
6/16/2014	22:00		48.13	
6/16/2014	23:00		47.87	
6/17/2014	0:00		47.59	
6/17/2014	1:00	3 <b></b> 1	47.34	
6/17/2014	2:00		47.08	
6/17/2014	3:00		46.82	
6/17/2014	4:00		46.54	
6/17/2014	5:00		46.29	
6/17/2014	6:00		46.05	
6/17/2014	7:00		45.79	
6/17/2014 6/17/2014	8:00 9:00		45.33	
6/17/2014	10:00		45.09	
6/17/2014	11:00		44.85	
6/17/2014	12:00		44.83	
6/17/2014	13:00		44.38	
6/17/2014	14:00		44.11	
6/17/2014	15:00		43.87	
6/17/2014	16:00		43.61	
6/17/2014	17:00		43.36	
6/17/2014	18:00		43.12	
6/17/2014	19:00		42.84	
6/17/2014	20:00		42.61	
6/17/2014	21:00		42.37	
6/17/2014	22:00		42.16	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/17/2014	23:00		41.93	
6/18/2014	0:00		41.69	
6/18/2014	1:00		41.46	
6/18/2014	2:00		41.28	
6/18/2014	3:00		41.03	
6/18/2014	4:00		40.81	
6/18/2014	5:00		40.58	
6/18/2014	6:00		40.39	
6/18/2014	7:00		40.17	
6/18/2014	8:00		39.96	
6/18/2014	9:00		39.75	
6/18/2014	10:00		39.60	
6/18/2014	11:00		39.38	
6/18/2014	12:00		39.21	
6/18/2014	13:00		39.00	
6/18/2014	14:00		38.83	2.0.0.5.000 Mind 10.0.000 Mind 10.000 Mi
6/18/2014	15:00		38.66	
6/18/2014	16:00		38.42	
6/18/2014	17:00		38.21	
6/18/2014	18:00		38.04	
6/18/2014	19:00		37.86	
6/18/2014	20:00		37.65	
6/18/2014	21:00		37.46	
6/18/2014	22:00		37.29	
6/18/2014	23:00		37.07	
6/19/2014	0:00		36.88	
6/19/2014	1:00		36.69	
6/19/2014	2:00		36.52	
6/19/2014	3:00		36.35	
6/19/2014	4:00		36.18	
6/19/2014	5:00		35.96	
6/19/2014	6:00		35.79	
6/19/2014	7:00		35.62	
6/19/2014	8:00		35.43	
6/19/2014	9:00		35.24	
6/19/2014	10:00		35.09	
6/19/2014	11:00		34.87	
6/19/2014	12:00		34.72	
6/19/2014	12:44		34.59	Pump in Well 31 shut down.
6/19/2014	13:00		34.53	Tump in their 91 blue down.
6/19/2014	14:00		34.34	
6/19/2014	15:00		34.19	
6/19/2014	16:00		34.00	
6/19/2014	17:00		33.83	
6/19/2014	18:00		33.65	
6/19/2014	19:00		33.46	
6/19/2014	20:00		33.29	
6/19/2014	21:00		33.12	
6/19/2014	22:00		32.99	
6/19/2014	23:00		32.78	
6/20/2014	0:00		32.63	
6/20/2014	1:00		32.46	
6/20/2014	2:00		32.29	
6/20/2014	3:00		32.14	
6/20/2014	4:00		31.97	
6/20/2014	5:00		31.79	
6/20/2014	6:00		31.65	
6/20/2014	7:00		31.50	
6/20/2014	8:00		31.32	
6/20/2014	9:00		31.15	
6/20/2014	10:00		30.98	
0/20/2014	10.00		30,70	

6/20/2014           6/20/2014           6/20/2014           6/20/2014           6/20/2014           6/20/2014	11:00 12:00	Elapsed Time (minutes) 	Depth to Water (ft btoc)     30.79	
6/20/2014           6/20/2014           6/20/2014           6/20/2014           6/20/2014           6/20/2014	12:00			
6/20/2014 6/20/2014 6/20/2014	12.00		30.62	
6/20/2014 6/20/2014 6/20/2014	13:00		30.47	
6/20/2014 6/20/2014	14:00		30.30	
6/20/2014	15:00		30.15	
	16:00		29.98	
6/20/2014	17:00		29.83	
	18:00		29.66	
	19:00		29.48	
	20:00		29.33	
	21:00		29.16	
	22:00		29.04	
	23:00		28.89	
	0:00		28.74	
	1:00		28.57	
	2:00		28.42	
	3:00		28.27	
	4:00		28.14	
	5:00		27.99	
	6:00		27.86	
	7:00		27.71	
	8:00		27.58	
	9:00		27.43	
	10:00		27.30	
	11:00		27.11	
	12:00		26.98	
	13:00		26.79	
	14:00		26.64	
	15:00		26.49	
	16:00		26.36	
	17:00		26.21	
	18:00		26.08	
	19:00		25.93	
	20:00		25.81	
	21:00		25.68	
	22:00		25.53	
	23:00		25.40	
	0:00		25.25	
	1:00		25.14	
	2:00		24.99	
	3:00		24.87	
	4:00		24.74	
	5:00		24.61	
	6:00		24.50	
	7:00		24.40	
	8:00		24.29	
	9:00		24.16	
	10:00		24.03	
	11:00		23.90	
	12:00		23.75	
	13:00		23.64	
	14:00		23.47	
and the second se	15:00		23.41	
	16:00		23.24	
	17:00		23.13	
	18:00		23.02	
	19:00		22.91	
	20:00		22.81	
	21:00		22.68	
	22:00		22.57	
	23:00	-	22.47	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/23/2014	0:00		22.36	
6/23/2014	1:00		22.23	
6/23/2014	2:00		22.15	
6/23/2014	3:00		22.04	
6/23/2014	4:00		21.93	
6/23/2014	5:00		21.82	
6/23/2014	6:00		21.74	
6/23/2014	7:00		21.65	
6/23/2014	8:00		21.57	
6/23/2014	9:00		21.50	
6/23/2014	10:00		21.37	
6/23/2014	11:00		21.27	
6/23/2014	12:00		21.16	
6/23/2014	13:00		21.05	
6/23/2014	14:00		20.92	
6/23/2014	15:00		20.79	
6/23/2014	16:00		20.71	
6/23/2014	17:00		20.62	1
6/23/2014	18:00		20.52	
6/23/2014	19:00		20.41	
6/23/2014	20:00		20.34	
6/23/2014	21:00		20.24	
6/23/2014	22:00		20.17	
6/23/2014	23:00		20.04	
6/24/2014	0:00		19.96	
6/24/2014	1:00		19.87	
6/24/2014	2:00		19.77	
6/24/2014	3:00		19.68	
6/24/2014	4:00		19.60	
6/24/2014	5:00		19.53	
6/24/2014	6:00		19.45	
6/24/2014	7:00		19.40	
6/24/2014	8:00		19.30	
6/24/2014	9:00		19.21	
6/24/2014	10:00		19.12	
6/24/2014	11:00		19.04	
6/24/2014	12:00		18.97	

### Summary of Water-Level Measurements Collected from Well 1 During 72-Hour Pumping Tests Conducted June 9 Through 19, 2014

ft btoc feet below top of casing

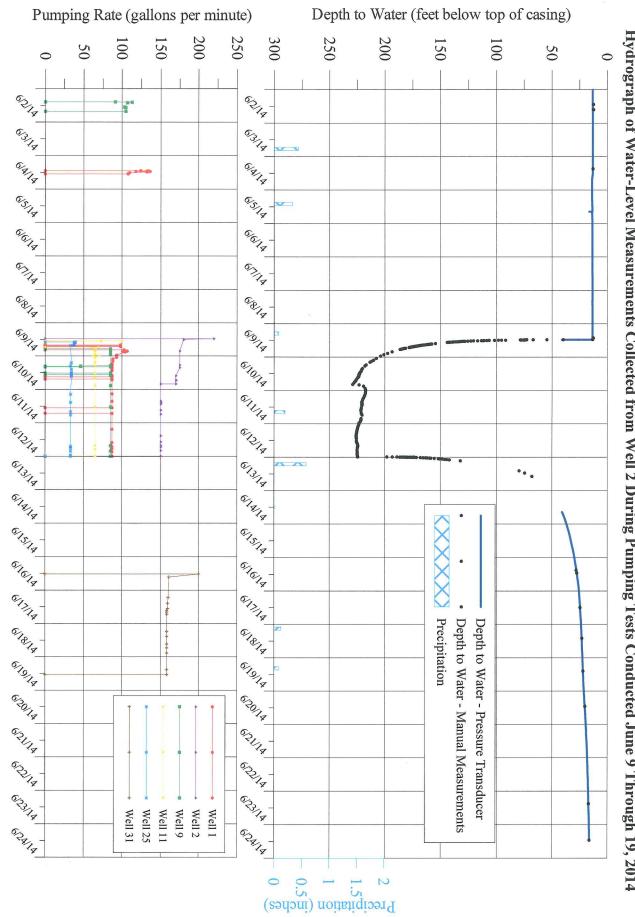
gpm gallons per minute

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables|Well 1.doc

WELL 2

LEGGETTE, BRASHEARS & GRAHAM, INC.





Hydrograph of Water-Level Measurements Collected from Well 2 During Pumping Tests Conducted June 9 Through 19, 2014

K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 2.grf

LEGGETTE. BRASHEARS & GRAHAM, INC.

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup>1/</sup>	Comments
5/21/2014	12:00		12.59	
5/21/2014	16:00		12.59	
5/21/2014	20:00		12.62	
5/22/2014	0:00		12.56	
5/22/2014	4:00		12.57	
5/22/2014	8:00		12.63	
5/22/2014	12:00		12.58	
5/22/2014	16:00		12.57	
5/22/2014	20:00		12.63	
5/23/2014	0:00		12.60	
5/23/2014	4:00		12.59	
5/23/2014	8:00		12.69	
5/23/2014	12:00		12.67	
5/23/2014	16:00		12.44	
5/23/2014	20:00		12.25	
5/24/2014	0:00		12.20	
5/24/2014	4:00		12.15	
5/24/2014	8:00		12.31	
5/24/2014	12:00		43.00	Preliminary test on Well 2 being conducted.
5/24/2014	16:00		43.18	
5/24/2014	20:00		42.72	Preliminary test on Well 2 ended.
5/25/2014	0:00		35.46	riominiary tost on wen 2 onded.
	4:00		29.20	
5/25/2014			29.20	
5/25/2014	8:00		23.53	
5/25/2014	12:00			
5/25/2014	16:00		21.47	
5/25/2014	20:00		20.23	
5/26/2014	0:00		19.32	
5/26/2014	4:00		18.44	
5/26/2014	8:00		17.84	
5/26/2014	12:00		17.29	
5/26/2014	16:00		16.64	
5/26/2014	20:00		16.22	
5/27/2014	0:00		15.92	
5/27/2014	4:00		15.55	
5/27/2014	8:00		15.34	
5/27/2014	12:00		16.89	
5/27/2014	16:00		15.34	
5/27/2014	20:00		15.36	
5/28/2014	0:00		14.75	
5/28/2014	4:00		14.40	
5/28/2014	8:00		14.14	
5/28/2014	12:00		29.55	
5/28/2014	16:00		18.87	
			16.48	
5/28/2014 5/29/2014	20:00		15.58	
5/29/2014	4:00		14.97	
			15.43	
5/29/2014	8:00			
5/29/2014	12:00		15.18	
5/29/2014	16:00		14.86	
5/29/2014	20:00		14.57	
5/30/2014	0:00		14.48	
5/30/2014	4:00		14.33	in the second
5/30/2014	8:00		14.20	
5/30/2014	12:00		14.18	
5/30/2014	16:00		14.02	
5/30/2014	20:00		13.83	
5/31/2014	0:00		13.80	
	1.00		13.75	
5/31/2014	4:00		15.75	

## Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup><math>1/2</math></sup>	Comments
5/31/2014	12:00		13.71	
5/31/2014	16:00		13.66	
5/31/2014	20:00		13.52	
6/1/2014	0:00		13.52	
6/1/2014	4:00		13.51	
6/1/2014	8:00		13.47	
6/1/2014	12:00		13.47	
6/1/2014	16:00		13.44	
6/1/2014	20:00		13.31	
6/2/2014	0:00		13.29	
6/2/2014	4:00		13.31	
6/2/2014	8:00		13.27	
6/2/2014	12:00		13.25	
6/2/2014	16:00		13.22	
6/2/2014	20:00		13.16	
6/3/2014	0:00		13.17	
6/3/2014	4:00		13.22	
6/3/2014	8:00		13.22	
6/3/2014	12:00		13.23	
6/3/2014	16:00		13.24	
6/3/2014	20:00		13.15	
6/4/2014	0:00		13.11	
6/4/2014	4:00		13.15	
6/4/2014	8:00		13.17	
6/4/2014	12:00		13.17	
6/4/2014	16:00		13.77	
6/4/2014	20:00		13.84	
6/5/2014	0:00		13.79	
6/5/2014	4:00		13.78	
6/5/2014	8:00		13.75	
6/5/2014	12:00		13.67	
6/5/2014	16:00		13.86	
6/5/2014	20:00		13.68	
6/6/2014	0:00		13.62	
6/6/2014	4:00		13.62	
6/6/2014	8:00		13.65	
6/6/2014	12:00		13.59	
6/6/2014	16:00		13.55	
6/6/2014	20:00		13.58	
6/7/2014	0:00		13.54	
6/7/2014	4:00		13.54	
6/7/2014	8:00		13.60	
6/7/2014	12:00		13.53	
6/7/2014	16:00		13.45	
6/7/2014	20:00		13.47	
6/8/2014	0:00		13.45	
6/8/2014	4:00		13.44	
6/8/2014	8:00		13.52	
6/8/2014	12:00		13.47	
6/8/2014	16:00		13.36	
6/8/2014	20:00		13.39	
6/9/2014	0:00		13.40	
6/9/2014	1:00		13.38	
6/9/2014	2:00		13.37	
6/9/2014	3:00		13.37	
6/9/2014	4:00		13.38	
6/9/2014	5:00		13.40	
6/9/2014	6:00		13.44	
6/9/2014	7:00		13.46	
6/9/2014	8:00		13.48	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup><math>\underline{1}</math></sup>	Comments
6/9/2014	9:00		13.49	
6/9/2014	10:00		13.50	
6/9/2014	11:00		13.49	
6/9/2014	11:31		13.48	
6/9/2014	11:32	1	39.52	Pump in Well 2 started.
6/9/2014	11:32	2	54.73	Pumping rate 220 gpm.
6/9/2014	11:33	3	66.93	Decreased pumping rate in Well 2.
6/9/2014	11:34	4	72.76	
6/9/2014	11:35	5	77.59	
6/9/2014	11:36	6	78.43	Pumping rate 180 gpm.
6/9/2014	11:37	7	74.97	
6/9/2014	11:38	8	74.31	
6/9/2014	11:39	9	73.69	
6/9/2014	11:42	12	74.87	
6/9/2014	11:43	13	75.55	
6/9/2014	11:45	15	77.89	Pumping rate 180 gpm.
6/9/2014	11:50	20	91.89	r uniping rule ree Spin.
6/9/2014	11:50	22	95.55	
6/9/2014	11:54	24	98.48	Pumping rate 180 gpm.
6/9/2014	11:57	27	101.83	T uniping rate 100 Spin.
6/9/2014	12:02	32	106.66	
6/9/2014	12:02	34	108.79	Pumping rate 180 gpm.
6/9/2014	12:04	37	111.07	
6/9/2014	12:08	38	111.64	
6/9/2014	12:08	41	113.46	
6/9/2014	12:17	47	116.91	Pumping rate 180 gpm.
6/9/2014	12:17	53	120.60	T uniping rate 180 gpm.
6/9/2014	12:28	58	123.03	Pumping rate 180 gpm.
6/9/2014		64	125.72	Fullping rate 180 gpm.
6/9/2014	12:34 12:39	69	123.72	
6/9/2014		74	128.23	Pumping rate 180 gpm.
6/9/2014	12:44	74 78	129.93	Pumping rate 180 gpm.
6/9/2014	12:48 12:54	84	131.75	
		89	133.37	
6/9/2014	12:59	94	134.96	Dumping rota 190 gpm
6/9/2014 6/9/2014	13:04 13:09	94	138.56	Pumping rate 180 gpm.
6/9/2014	13:14	104	139.89 141.68	
6/9/2014	13:19		141.08	
6/9/2014	13:24	114	143.08	Durania e noto 180 errer
6/9/2014	13:29	119	143.87 154.65	Pumping rate 180 gpm. Pump in Well 25 started at 13:51.
6/9/2014	14:19	169		
6/9/2014	14:34	184	157.77	Pumping rate 180 gpm.
6/9/2014	14:39	189	158.62	
6/9/2014	14:44	194	159.32	
6/9/2014	14:49	199	160.40	
6/9/2014	14:54	204	161.33	Dumming rots 190
6/9/2014	14:59	209	161.68	Pumping rate 180 gpm. Pump in Well 28 started at 15:03 and stopped at 15:09.
6/9/2014	15:04	214	162.88	Fump in wen 28 started at 15:05 and stopped at 15:09.
6/9/2014	15:14	224	164.67	
6/9/2014	15:19	229	165.33	
6/9/2014	15:29	239	166.69	
6/9/2014	15:34	244	167.40	
6/9/2014	15:39	249	168.22	
6/9/2014	15:44	254	168.83	
6/9/2014	15:49	259	169.32	
6/9/2014	15:54	264	170.02	
6/9/2014	15:59	269	170.55	
6/9/2014	16:04	274	171.45	Pumping rate 180 gpm.
6/9/2014	16:09	279	172.02	
6/9/2014	16:14	284	172.61	

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## Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) $\frac{1}{2}$	Comments
6/9/2014	16:19	289	173.12	
6/9/2014	16:24	294	173.60	
6/9/2014	16:29	299	174.12	
6/9/2014	16:34	304	174.59	
6/9/2014	16:39	309	175.26	
6/9/2014	16:44	314	175.88	
6/9/2014	16:49	319	176.37	
6/9/2014	16:54	324	177.03	
6/9/2014	16:59	329	177.62	
6/9/2014	17:09	339	178.48	Pumping rate 180 gpm.
6/9/2014	17:39	369	181.55	Pump in Well 11 started 17:24.
6/9/2014	17:44	374	181.96	
6/9/2014	17:54	384	182.82	
6/9/2014	18:04	394	183.76	Pumping rate 180 gpm.
6/9/2014	18:14	404	184.60	
6/9/2014	18:24	414	185.51	
6/9/2014	18:34	424	186.41	Pump in Well 9 started 18:55.
6/9/2014	20:17	527	193.56	Pump in Well 1 started 19:30.
6/9/2014	21:25	595	197.56	Well 2 pumping rate 175 gpm
6/9/2014	22:20	650	200.97	Well 2 pumping rate 175 gpm
6/9/2014	23:25	715	203.85	Well 2 pumping rate 175 gpm
6/10/2014	0:57	807	207.68	Well 2 pumping rate 175 gpm
6/10/2014	2:15	825	210.18	Well 2 pumping rate 175 gpm
6/10/2014	3:00	870	211.93	Well 2 pumping rate 175 gpm
6/10/2014	3:43	913	213.57	Well 2 pumping rate 175 gpm
6/10/2014	5:41	1031	216.97	Well 2 pumping rate 175 gpm
6/10/2014	6:28	1078	218.17	Well 2 pumping rate 175 gpm
6/10/2014	8:19	1189	220.29	Well 2 pumping rate 175 gpm
6/10/2014	9:05	1235	221.10	Well 2 pumping rate 175 gpm
6/10/2014	10:15	1305	221.51	Well 2 pumping rate 175 gpm
6/10/2014	10:48	1338	222.21	Well 2 pumping rate 175 gpm
6/10/2014	11:50	1400	222.91	Well 2 pumping rate 175 gpm
6/10/2014	12:05	1415	222.87	Well 2 pumping rate 175 gpm
6/10/2014	12:35	1435	223.37	Well 2 pumping rate 175 gpm
6/10/2014	13:05	1465	223.67	Well 2 pumping rate 175 gpm
6/10/2014	13:35	1495	223.34	Well 2 pumping rate 175 gpm
6/10/2014	14:05	1525	223.67	Well 2 pumping rate 170 gpm
6/10/2014	14:35	1555	224.25	Well 2 pumping rate 170 gpm
6/10/2014	15:05	1585	224.74	Well 2 pumping rate 170 gpm
6/10/2014	16:20	1660	225.87	Well 2 pumping rate 170 gpm
6/10/2014	17:07	1707	226.32	Well 2 pumping rate 170 gpm
6/10/2014	17:43	1743	226.95	Well 2 pumping rate 170 gpm
6/10/2014	18:36	1796	227.90	Well 2 pumping rate 170 gpm
6/10/2014	19:42	1862	228.99	Well 2 pumping rate 170 gpm
6/10/2014	20:00	1880	NM	Completed manual rate reduction on Well 2.
6/10/2014	20:06	1886	223.28	Well 2 pumping rate 150 gpm
6/10/2014	20:57	1937	219.22	Well 2 pumping rate 150 gpm
6/10/2014	22:36	2036	217.76	Well 2 pumping rate 150 gpm
6/10/2014	23:32	2092	217.44	Well 2 pumping rate 150 gpm
6/11/2014	0:39	2159	217.48	Well 2 pumping rate 150 gpm
6/11/2014	1:57	2237	217.64	Well 2 pumping rate 150 gpm
6/11/2014	3:18	2318	218.11	Well 2 pumping rate 150 gpm
6/11/2014	4:16	2376	218.54	Well 2 pumping rate 150 gpm
6/11/2014	5:25	2445	219.29	Well 2 pumping rate 150 gpm
6/11/2014	6:26	2506	219.96	Well 2 pumping rate 150 gpm
6/11/2014	7:38	2578	220.48	Well 2 pumping rate 150 gpm
6/11/2014	8:18	2618	220.87	Well 2 pumping rate 150 gpm
6/11/2014	8:37	2637	220.86	Well 2 pumping rate 150 gpm
		4001		
6/11/2014	8:51	2651	220.90	Well 2 pumping rate 150 gpm

## Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup><math>1/</math></sup>	Comments
6/11/2014	9:48	2708	220.48	Well 2 pumping rate 150 gpm
6/11/2014	10:11	2731	220.83	Well 2 pumping rate 150 gpm
6/11/2014	10:33	2753	220.69	Well 2 pumping rate 150 gpm
6/11/2014	11:09	2789	220.76	Well 2 pumping rate 150 gpm
6/11/2014	12:52	2892	221.22	Well 2 pumping rate 150 gpm
6/11/2014	14:03	2963	221.59	Well 2 pumping rate 150 gpm
6/11/2014	14:50	3010	221.56	Well 2 pumping rate 150 gpm
6/11/2014	16:25	3105	221.31	Well 2 pumping rate 150 gpm
6/11/2014	17:45	3185	220.62	Well 2 pumping rate 150 gpm
6/11/2014	20:10	3330	221.47	Well 2 pumping rate 150 gpm
6/11/2014	20:45	3365	221.70	Well 2 pumping rate 150 gpm
6/11/2014	21:21	3401	221.55	Well 2 pumping rate 150 gpm
6/11/2014	22:19	3459	222.21	Well 2 pumping rate 150 gpm
6/11/2014	23:26	3526	223.27	Well 2 pumping rate 150 gpm
6/12/2014	0:30	3590	223.50	Well 2 pumping rate 150 gpm
6/12/2014	1:32	3652	224.06	Well 2 pumping rate 150 gpm
6/12/2014	2:38	3718	224.51	Well 2 pumping rate 150 gpm
6/12/2014	3:40	3780	224.75	Well 2 pumping rate 150 gpm
6/12/2014	4:41	3780	225.05	Well 2 pumping rate 150 gpm
6/12/2014	5:41	3901	225.03	Well 2 pumping rate 150 gpm
6/12/2014	6:37	3957	225.44	Well 2 pumping rate 150 gpm
6/12/2014	7:38	4018	225.77	Well 2 pumping rate 150 gpm
6/12/2014	8:36	4018	225.85	Well 2 pumping rate 150 gpm
6/12/2014	9:18	4118	225.76	Well 2 pumping rate 150 gpm
6/12/2014	10:00	4160	225.76	Well 2 pumping rate 150 gpm
			225.53	Well 2 pumping rate 150 gpm
6/12/2014	10:41	4201 4298	225.50	Well 2 pumping rate 150 gpm Well 2 pumping rate 150 gpm
6/12/2014	12:18			Well 2 pumping rate 150 gpm
6/12/2014	12:47	4327	225.42	
6/12/2014	13:35	4375	225.31	Well 2 pumping rate 150 gpm
6/12/2014	14:19	4419	224.60	Well 2 pumping rate 150 gpm
6/12/2014	15:01	4461	224.40	Well 2 pumping rate 150 gpm
6/12/2014	15:45	4505	224.43	Well 2 pumping rate 150 gpm
6/12/2014	16:06	4526	224.35	Well 2 pumping rate 150 gpm
6/12/2014	17:17	4597	224.62	Well 2 pumping rate 150 gpm
6/12/2014	18:45	4685	224.99	Well 2 pumping rate 150 gpm
6/12/2014	19:51	4751	224.95	Well 2 pumping rate 150 gpm
6/12/2014	20:59	4819	224.92	Well 2 pumping rate 150 gpm
6/12/2014	21:58	4878	224.92	Well 2 pumping rate 150 gpm
6/12/2014	22:34	4914	224.71	Well 2 pumping rate 150 gpm
6/12/2014	23:02	4942	224.69	Well 2 pumping rate 150 gpm
6/12/2014	23:32	4972	224.50	Well 2 pumping rate 150 gpm
6/12/2014	23:47	4987	224.48	Well 2 pumping rate 150 gpm
6/12/2014	23:50		NM	Pump in Well 2 shut down.
6/12/2014	23:51		198.09	
6/12/2014	23:52		193.29	
6/12/2014	23:53		189.08	
6/12/2014	23:54		186.54	
6/12/2014	23:55		184.96	
6/12/2014	23:56		183.44	
6/12/2014	23:57		182.10	
6/12/2014	23:58		180.63	
6/12/2014	23:59		179.63	
6/13/2014	0:00		178.01	
6/13/2014	0:01		176.76	
6/13/2014	0:02		175.49	
6/13/2014	0:03		174.64	
6/13/2014	0:04		173.95	
6/13/2014	0:05		173.30	
6/13/2014	0:10		171.71	
6/13/2014	0:15		168.08	
		L		

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup>1/</sup>	Comments
6/13/2014	0:20		165.77	
6/13/2014	0:25		163.59	
6/13/2014	0:30		161.97	
6/13/2014	0:35		159.92	
6/13/2014	0:40		158.64	
6/13/2014	0:50		155.61	
6/13/2014	1:00		151.91	
6/13/2014	1:10		150.60	
6/13/2014	1:20		148.33	
6/13/2014	1:30		146.23	
6/13/2014	1:40		144.26	
6/13/2014	1:50		142.05	
6/13/2014	2:32		132.30	
6/13/2014	9:44		79.35	
6/13/2014	11:23		74.37	
			67.98	
6/13/2014	13:47		41.70	
6/14/2014	14:00		41.70	
6/14/2014	15:00		40.61	
6/14/2014	16:00		40.01	
6/14/2014	17:00		39.57	
6/14/2014	18:00		39.57	
6/14/2014	19:00			
6/14/2014	20:00		38.61	
6/14/2014	21:00		38.17	
6/14/2014	22:00		37.76	
6/14/2014	23:00		37.36	
6/15/2014	0:00		36.97	
6/15/2014	1:00		36.60	
6/15/2014	2:00		36.22	
6/15/2014	3:00		35.85	
6/15/2014	4:00		35.47	
6/15/2014	5:00		35.11	
6/15/2014	6:00		34.76	
6/15/2014	7:00		34.42	
6/15/2014	8:00		34.11	
6/15/2014	9:00		33.80	
6/15/2014	10:00		33.51	
6/15/2014	11:00		33.25	
6/15/2014	12:00		32.98	
6/15/2014	13:00		32.71	
6/15/2014	14:00		32.42	
6/15/2014	15:00		32.14	
6/15/2014	16:00		31.85	
6/15/2014	17:00		31.55	
6/15/2014	18:00		31.25	
6/15/2014	19:00		30.97	
6/15/2014	20:00		30.69	
6/15/2014	21:00		30.44	
6/15/2014	22:00		30.22	
6/15/2014	23:00		30.00	
6/16/2014	0:00		29.79	
6/16/2014	1:00		29.60	
6/16/2014	2:00		29.40	
6/16/2014	3:00		29.19	
6/16/2014	4:00		28.98	
6/16/2014	5:00		28.77	
6/16/2014	6:00		28.56	
6/16/2014	7:00		28.36	
6/16/2014	8:00		28.16	
6/16/2014	9:00		27.97	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup>1/</sup>	Comments
6/16/2014	10:00		27.80	
6/16/2014	11:00		27.64	
6/16/2014	12:00		27.48	
6/16/2014	12:25		27.42	Pump in Well 31 started.
6/16/2014	13:00		27.32	
6/16/2014	14:00		27.16	
6/16/2014	15:00		27.00	
6/16/2014	16:00		26.83	
6/16/2014	17:00		26.64	
6/16/2014	18:00		26.47	
6/16/2014	19:00		26.29	
6/16/2014	20:00		26.13	
6/16/2014	21:00		26.00	
6/16/2014	22:00		25.87	
6/16/2014	23:00		25.76	
6/17/2014	0:00		25.66	
6/17/2014	1:00		25.57	
6/17/2014	2:00		25.49	
6/17/2014	3:00		25.40	3
6/17/2014	4:00		25.31	
6/17/2014	5:00		25.22	
6/17/2014	6:00		25.13	
6/17/2014	7:00		25.04	
6/17/2014	8:00		24.95	
6/17/2014	9:00		24.87	
6/17/2014	10:00		24.79	
6/17/2014	11:00		24.71	
6/17/2014	12:00		24.65	
6/17/2014	13:00		24.59	
6/17/2014	14:00		24.54	
6/17/2014	15:00		24.48	
6/17/2014	16:00		24.40	
6/17/2014	17:00		24.32	
6/17/2014	18:00		24.23	
6/17/2014	19:00		24.13	
6/17/2014	20:00		24.04	
6/17/2014	21:00		23.95	
6/17/2014	22:00		23.88	
6/17/2014	23:00		23.80	
6/18/2014	0:00		23.74	
6/18/2014	1:00		23.69	
6/18/2014	2:00		23.66	
6/18/2014	3:00		23.59	
6/18/2014	4:00		23.59	
6/18/2014	5:00		23.48	
6/18/2014	6:00		23.48	
6/18/2014	7:00		23.36	
6/18/2014	8:00		23.30	
6/18/2014	9:00		23.23	
6/18/2014	10:00		23.18	
6/18/2014	11:00		23.18	
6/18/2014	12:00		23.08	
6/18/2014	12:00		23.08	
6/18/2014	14:00		23.00	
6/18/2014	15:00		22.98	
6/18/2014	16:00		22.98	
			22.93	
6/18/2014	17:00 18:00		22.88	
6/18/2014				
6/18/2014	19:00		22.76	
6/18/2014	20:00		22.69	

## Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

6/18/2014 $21:00$ $22.62$ $6/18/2014$ $22:00$ $22.55$ $6/18/2014$ $22:00$ $22.49$ $6/19/2014$ $0:00$ $22.44$ $6/19/2014$ $1:00$ $22.40$ $6/19/2014$ $2:00$ $22.37$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $6:00$ $22.20$ $6/19/2014$ $8:00$ $22.18$ $6/19/2014$ $10:00$ $22.08$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $13:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $16:00$ $21.71$ </th <th>Pump in Well 31 shut down.</th>	Pump in Well 31 shut down.
6/18/2014 $22:00$ $22.55$ $6/18/2014$ $23:00$ $22.49$ $6/19/2014$ $0:00$ $22.44$ $6/19/2014$ $1:00$ $22.40$ $6/19/2014$ $2:00$ $22.37$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $4:00$ $22.33$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $7:00$ $22.08$ $6/19/2014$ $10:00$ $22.08$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.84$ $6/19/2014$ $13:00$ $21.76$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $16:00$ $21.76$ </td <td>Pump in Well 31 shut down.</td>	Pump in Well 31 shut down.
6/18/2014 $23:00$ $22.49$ $6/19/2014$ $0:00$ $22.44$ $6/19/2014$ $1:00$ $22.40$ $6/19/2014$ $1:00$ $22.37$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $5:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $9:00$ $22.00$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.84$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.62$ $6/19/2014$ $15:00$ $21.62$ $6/19/2014$ $15:00$ $21.62$ </td <td>Pump in Well 31 shut down.</td>	Pump in Well 31 shut down.
6/19/2014 $0:00$ $22.44$ $6/19/2014$ $1:00$ $22.37$ $6/19/2014$ $3:00$ $22.37$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $5:00$ $22.30$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $6:00$ $22.20$ $6/19/2014$ $8:00$ $22.20$ $6/19/2014$ $8:00$ $22.08$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $12:00$ $21.84$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.76$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $19:00$ $21.62$ $6/19/2014$ $12:00$ $21.49$ $6/19/2014$ $12:00$ $21.41$ $6/19/2014$ $22:00$ $21.34$ $6/19/2014$ $22:00$ $21.34$ $6/19/2014$ $22:00$ $21.19$ $6/20/2014$ $20:00$ $21.19$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $20:00$ $21.00$	Pump in Well 31 shut down.
6/19/2014 $1:00$ $22.40$ $6/19/2014$ $2:00$ $22.37$ $6/19/2014$ $3:00$ $22.33$ $6/19/2014$ $4:00$ $22.30$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.27$ $6/19/2014$ $6:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $11:00$ $21.86$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $12:00$ $21.49$ <	Pump in Well 31 shut down.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pump in Well 31 shut down.
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Pump in Well 31 shut down.
6/19/2014 $4:00$ $22.30$ $6/19/2014$ $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $8:00$ $22.18$ $6/19/2014$ $9:00$ $22.00$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $13:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $18:00$ $21.62$ $6/19/2014$ $12:00$ $21.49$ $6/19/2014$ $21:00$ $21.49$ $6/19/2014$ $21:00$ $21.49$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $22:00$ $21.41$ $6/19/2014$ $22:00$ $21.41$ $6/19/2014$ $22:00$ $21.12$ $6/20/2014$ $1:00$ $21.12$ $6/20/2014$ $1:00$ $21.12$	Pump in Well 31 shut down.
6/19/2014 $5:00$ $22.27$ $6/19/2014$ $6:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $8:00$ $22.18$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $12:00$ $21.95$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:00$ $21.80$ $6/19/2014$ $13:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.67$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $18:00$ $21.62$ $6/19/2014$ $19:00$ $21.49$ $6/19/2014$ $21:00$ $21.49$ $6/19/2014$ $21:00$ $21.49$ $6/19/2014$ $22:00$ $21.41$ $6/19/2014$ $22:00$ $21.26$ $6/19/2014$ $23:00$ $21.26$ $6/19/2014$ $23:00$ $21.12$ $6/20/2014$ $1:00$ $21.12$	Pump in Well 31 shut down.
6/19/2014 $6:00$ $22.23$ $6/19/2014$ $7:00$ $22.20$ $6/19/2014$ $8:00$ $22.18$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $10:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:44$ $21.86$ $6/19/2014$ $13:00$ $21.84$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $16:00$ $21.76$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $19:00$ $21.62$ $6/19/2014$ $19:00$ $21.41$ $6/19/2014$ $20:00$ $21.49$ $6/19/2014$ $20:00$ $21.41$ $6/19/2014$ $20:00$ $21.19$ $6/19/2014$ $20:00$ $21.19$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $10:00$ $21.00$	Pump in Well 31 shut down.
6/19/2014 $7:00$ $22.20$ $6/19/2014$ $8:00$ $22.18$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:00$ $21.86$ $6/19/2014$ $12:44$ $21.86$ $6/19/2014$ $13:00$ $21.84$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $18:00$ $21.62$ $6/19/2014$ $19:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $21:00$ $21.12$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $20:00$ $21.12$ $6/20/2014$ $3:00$ $21.00$	Pump in Well 31 shut down.
6/19/2014 $8:00$ $22.18$ $6/19/2014$ $9:00$ $22.08$ $6/19/2014$ $10:00$ $22.00$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:44$ $21.86$ $6/19/2014$ $12:44$ $21.86$ $6/19/2014$ $13:00$ $21.84$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $16:00$ $21.71$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $18:00$ $21.62$ $6/19/2014$ $19:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $21:00$ $21.12$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $10:00$ $21.12$ $6/20/2014$ $10:00$ $21.12$	Pump in Well 31 shut down.
6/19/20149:0022.08 $6/19/2014$ 10:0022.00 $6/19/2014$ 11:0021.95 $6/19/2014$ 12:0021.90 $6/19/2014$ 12:4421.86 $6/19/2014$ 12:4421.86 $6/19/2014$ 13:0021.84 $6/19/2014$ 15:0021.76 $6/19/2014$ 16:0021.77 $6/19/2014$ 16:0021.67 $6/19/2014$ 18:0021.62 $6/19/2014$ 19:0021.55 $6/19/2014$ 20:0021.41 $6/19/2014$ 21:0021.41 $6/19/2014$ 23:0021.26 $6/20/2014$ 1:0021.12 $6/20/2014$ 2:0021.06	Pump in Well 31 shut down.
6/19/2014 $10:00$ $22.00$ $6/19/2014$ $11:00$ $21.95$ $6/19/2014$ $12:00$ $21.90$ $6/19/2014$ $12:44$ $21.86$ $6/19/2014$ $13:00$ $21.84$ $6/19/2014$ $13:00$ $21.80$ $6/19/2014$ $15:00$ $21.76$ $6/19/2014$ $16:00$ $21.71$ $6/19/2014$ $16:00$ $21.67$ $6/19/2014$ $18:00$ $21.62$ $6/19/2014$ $19:00$ $21.55$ $6/19/2014$ $20:00$ $21.41$ $6/19/2014$ $21:00$ $21.41$ $6/19/2014$ $22:00$ $21.34$ $6/19/2014$ $23:00$ $21.26$ $6/20/2014$ $1:00$ $21.12$ $6/20/2014$ $2:00$ $21.06$	Pump in Well 31 shut down.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Pump in Well 31 shut down.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Pump in Well 31 shut down.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Pump in Well 31 shut down.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
6/19/2014       14:00       21.80         6/19/2014       15:00       21.76         6/19/2014       16:00       21.71         6/19/2014       16:00       21.67         6/19/2014       17:00       21.62         6/19/2014       19:00       21.55         6/19/2014       20:00       21.49         6/19/2014       21:00       21.41         6/19/2014       22:00       21.34         6/19/2014       23:00       21.26         6/20/2014       0:00       21.19         6/20/2014       1:00       21.12         6/20/2014       2:00       21.06	
6/19/2014       15:00       21.76         6/19/2014       16:00       21.71         6/19/2014       17:00       21.67         6/19/2014       18:00       21.62         6/19/2014       19:00       21.55         6/19/2014       20:00       21.49         6/19/2014       21:00       21.34         6/19/2014       23:00       21.26         6/19/2014       23:00       21.26         6/20/2014       0:00       21.19         6/20/2014       1:00       21.12         6/20/2014       2:00       21.06	
6/19/201416:0021.716/19/201417:0021.676/19/201418:0021.626/19/201419:0021.556/19/201420:0021.496/19/201421:0021.346/19/201422:0021.266/20/20140:0021.196/20/20141:0021.126/20/20141:0021.06	
6/19/2014       17:00       21.67         6/19/2014       18:00       21.62         6/19/2014       19:00       21.55         6/19/2014       20:00       21.49         6/19/2014       21:00       21.41         6/19/2014       22:00       21.34         6/19/2014       23:00       21.26         6/20/2014       0:00       21.19         6/20/2014       1:00       21.12         6/20/2014       2:00       21.06	
6/19/2014       18:00       21.62         6/19/2014       19:00       21.55         6/19/2014       20:00       21.49         6/19/2014       21:00       21.41         6/19/2014       22:00       21.34         6/19/2014       23:00       21.26         6/20/2014       0:00       21.19         6/20/2014       1:00       21.12         6/20/2014       3:00       21.06	
6/19/2014       19:00       21.55         6/19/2014       20:00       21.49         6/19/2014       21:00       21.41         6/19/2014       22:00       21.34         6/19/2014       23:00       21.26         6/20/2014       0:00       21.19         6/20/2014       1:00       21.12         6/20/2014       3:00       21.06	
6/19/2014         20:00         21.49           6/19/2014         21:00         21.41           6/19/2014         22:00         21.34           6/19/2014         23:00         21.26           6/20/2014         0:00         21.19           6/20/2014         1:00         21.12           6/20/2014         2:00         21.06	
6/19/2014         21:00         21.41           6/19/2014         22:00         21.34           6/19/2014         23:00         21.26           6/20/2014         0:00         21.19           6/20/2014         1:00         21.12           6/20/2014         2:00         21.06	
6/19/2014         22:00         21.34           6/19/2014         23:00         21.26           6/20/2014         0:00         21.19           6/20/2014         1:00         21.12           6/20/2014         2:00         21.06           6/20/2014         3:00         21.00	
6/19/2014         23:00         21.26           6/20/2014         0:00         21.19           6/20/2014         1:00         21.12           6/20/2014         2:00         21.06           6/20/2014         3:00         21.00	
6/20/2014         0:00         21.19           6/20/2014         1:00         21.12           6/20/2014         2:00         21.06           6/20/2014         3:00         21.00	
6/20/2014         1:00         21.12           6/20/2014         2:00         21.06           6/20/2014         3:00         21.00	
6/20/2014         2:00         21.06           6/20/2014         3:00         21.00	
6/20/2014 3:00 21.00	
6/20/2014 4:00 20.95	
6/20/2014 5:00 20.88	
6/20/2014 6:00 20.82	
6/20/2014 7:00 20.76	
6/20/2014 8:00 20.67	
6/20/2014 9:00 20.58	
6/20/2014 10:00 20.48	
6/20/2014 11:00 20.38	
6/20/2014 12:00 20.30	
6/20/2014 13:00 20.20	
6/20/2014 14:00 20.12	7
6/20/2014 15:00 20.04	
6/20/2014 16:00 19.98	
6/20/2014 17:00 19.92	
6/20/2014 18:00 19:86	
6/20/2014 19:00 19.79	
6/20/2014 20:00 19.73	
6/20/2014 21:00 19.66	
6/20/2014 22:00 19.59	
6/20/2014 23:00 19.52	
6/21/2014 0:00 19.44	
6/21/2014 1:00 19.38	
6/21/2014 2:00 19.33	
6/21/2014 3:00 19.27	
6/21/2014 4:00 19.23	
6/21/2014 5:00 19.20	
6/21/2014 6:00 19.17	
6/21/2014 7:00 19.13	

## Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup><u>1</u>/}</sup>	Comments
6/21/2014	8:00	· · · · · · · · · · · · · · · · · · ·	19.07	
6/21/2014	9:00		19.02	
6/21/2014	10:00		18.94	
6/21/2014	11:00		18.86	
6/21/2014	12:00		18.78	
6/21/2014	13:00		18.69	
6/21/2014	14:00		18.62	
6/21/2014	15:00		18.56	
6/21/2014	16:00		18.50	
6/21/2014	17:00		18.47	
6/21/2014	18:00		18.42	
6/21/2014	19:00		18.38	
6/21/2014	20:00		18.35	
6/21/2014	21:00		18.31	
6/21/2014	22:00		18.27	
6/21/2014	23:00		18.21	
6/22/2014	0:00		18.16	
6/22/2014	1:00		18.11	
6/22/2014	2:00		18.07	
6/22/2014	3:00		18.03	
6/22/2014	4:00		18.00	
6/22/2014	5:00		17.97	
6/22/2014	6:00		17.96	
6/22/2014	7:00		17.95	
6/22/2014	8:00		17.94	
6/22/2014	9:00		17.90	
6/22/2014	10:00		17.86	
6/22/2014	11:00		17.79	
6/22/2014	12:00		17.72	
6/22/2014	13:00		17.66	
6/22/2014	14:00		17.59	
6/22/2014	15:00		17.54	
6/22/2014	16:00		17.49	
6/22/2014	17:00		17.45	
6/22/2014	18:00		17.43	
6/22/2014	19:00		17.40	
6/22/2014	20:00		17.39	
6/22/2014	21:00		17.37	
6/22/2014	22:00		17.35	
6/22/2014	23:00		17.31	
6/23/2014	0:00		17.27	
6/23/2014	1:00		17.23	
6/23/2014	2:00		17.20	
6/23/2014	3:00		17.17	
6/23/2014	4:00		17.14	
6/23/2014	5:00		17.13	
6/23/2014	6:00		17.13	
6/23/2014	7:00		17.13	
6/23/2014	8:00		17.13	
6/23/2014	9:00		17.12	
6/23/2014	10:00		17.09	
6/23/2014	11:00		17.04	
6/23/2014	12:00		16.99	
6/23/2014	13:00		16.93	
6/23/2014	14:00		16.87	
6/23/2014	15:00		16.81	
6/23/2014	16:00		16.75	
6/23/2014	17:00		16.73	
6/23/2014	18:00		16.70	
6/23/2014	19:00		16.68	

Summary of Water-Level Measurements Collected from Well 2 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc) <sup>1/</sup>	Comments
6/23/2014	20:00		16.67	
6/23/2014	21:00		16.66	
6/23/2014	22:00		16.65	
6/23/2014	23:00		16.63	
6/24/2014	0:00		16.60	
6/24/2014	1:00		16.57	
6/24/2014	2:00		16.54	
6/24/2014	3:00		16.50	
6/24/2014	4:00		16.48	
6/24/2014	5:00		16.46	
6/24/2014	6:00		16.45	
6/24/2014	7:00		16.45	
6/24/2014	8:00		16.47	
6/24/2014	9:00		16.46	
6/24/2014	10:00		16.44	
6/24/2014	11:00		16.43	

ft btoc feet below top of casing

gpm gallons per minute

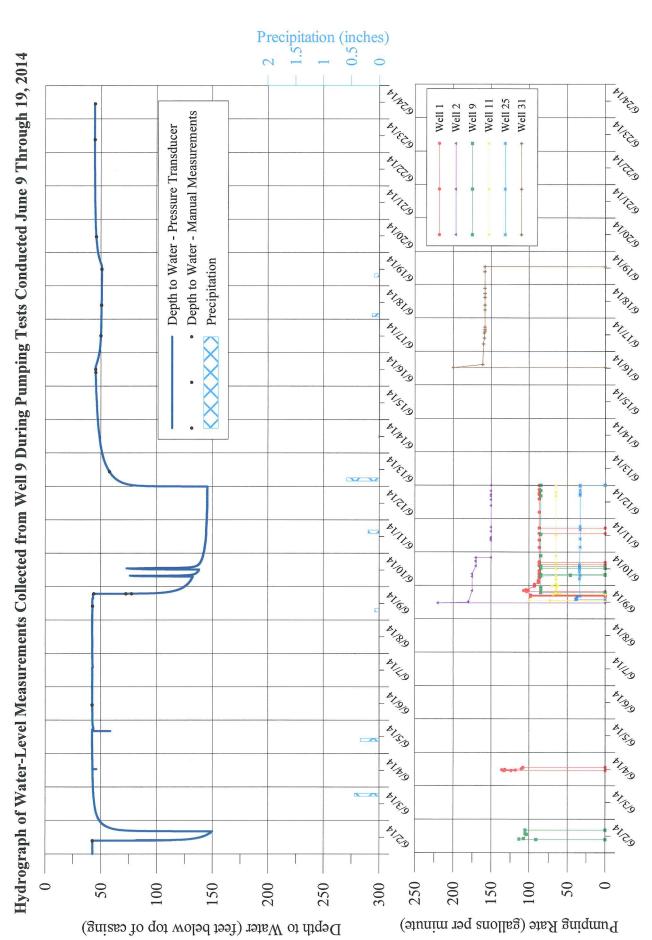
NM not measured

1/ The pressure transducer in Well 2 could not be installed past 40 ft btoc in the well. Therefore, manual water-level measurements have been reported for time during the simultaneous pumping test and water-level recovery period when the water level was below bottom of transducer.

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\Well 2.docx

WELL 9

LEGGETTE, BRASHEARS & GRAHAM, INC.



LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 9.grf

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
5/30/2014	20:00		45.39	
5/31/2014	0:00		44.07	
5/31/2014	4:00		43.48	
5/31/2014	8:00		43.21	
5/31/2014	12:00		43.12	
5/31/2014	16:00		42.96	
5/31/2014	20:00		42.87	
6/1/2014	0:00		42.87	
			42.83	
6/1/2014 6/1/2014	4:00		42.79	
	8:00		42.79	
6/1/2014	12:00		42.69	
6/1/2014	16:00		42.60	
6/1/2014	20:00			
6/2/2014	0:00		42.62	
6/2/2014	4:00		42.62	
6/2/2014	8:00		42.59	
6/2/2014	12:00		139.81	Preliminary test on Well 9 being conducted.
6/2/2014	16:00		149.74	
6/2/2014	20:00		54.21	Preliminary test on Well 9 ended.
6/3/2014	0:00		48.84	
6/3/2014	4:00		46.40	
6/3/2014	8:00		45.07	
6/3/2014	12:00		44.27	
6/3/2014	16:00		43.72	
6/3/2014	20:00		43.29	
6/4/2014	0:00		43.04	
6/4/2014	4:00		42.88	
6/4/2014	8:00		42.76	
6/4/2014	12:00		42.67	
6/4/2014	16:00		42.60	
6/4/2014	20:00		42.47	
6/5/2014	0:00		42.42	
6/5/2014	4:00		42.40	
6/5/2014	8:00		42.35	
6/5/2014	12:00		42.31	
6/5/2014	16:00		42.30	
6/5/2014	20:00		42.96	
6/6/2014	0:00		42.60	
6/6/2014	4:00		42.50	
6/6/2014	8:00		42.47	
6/6/2014	12:00		42.42	
6/6/2014	16:00		42.40	
6/6/2014	20:00		42.41	
6/7/2014	0:00		42.45	
6/7/2014	4:00		42.42	
6/7/2014	8:00		42.46	
6/7/2014	12:00		42.42	
6/7/2014	16:00		42.65	
6/7/2014	20:00		42.48	
6/8/2014	0:00		42.44	
6/8/2014	4:00		42.43	
6/8/2014	8:00		42.48	
6/8/2014	12:00		42.42	
6/8/2014	16:00		42.35	
6/8/2014	20:00		42.38	
6/9/2014	0:00		42.38	
6/9/2014	1:00		42.37	
6/9/2014	2:00		42.42	
6/9/2014	3:00		42.42	
6/9/2014	4:00		42.40	
0/9/2014	4.00		12,71	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/9/2014	5:00		42.43	
6/9/2014	6:00		42.46	
6/9/2014	7:00		42.48	
6/9/2014	8:00		42.49	
6/9/2014	9:00		42.50	
6/9/2014	10:00		42.51	
6/9/2014	11:00		42.49	
6/9/2014	11:32		42.48	Pump in Well 2 started.
6/9/2014	12:00		42.46	
6/9/2014	13:00		42.43	
6/9/2014	13:51		42.53	Pump in Well 25 started.
6/9/2014	14:00		42.55	
6/9/2014	15:00		42.61	E.
6/9/2014	15:03		42.60	Pump in Well 28 started.
6/9/2014	15:09		42.57	Pump in Well 28 stopped.
6/9/2014	16:00		43.16	······
6/9/2014	17:00		43.11	
6/9/2014	17:24		43.06	Pump in Well 11 started.
6/9/2014	18:00		43.07	· · · · · · · · · · · · · · · · · · ·
6/9/2014	18:54		43.82	
6/9/2014	18:55	1	62.63	Pump in Well 9 started.
6/9/2014	18:56	2	74.00	
6/9/2014	18:57	3	79.72	
6/9/2014	18:58	4	81.99	
6/9/2014	18:59	5	82.19	
6/9/2014	19:00	6	83.53	Well 9 pumping rate 85 gpm.
6/9/2014	19:01	7	84.73	1 1 0 0.
6/9/2014	19:02	8	86.07	
6/9/2014	19:03	9	87.27	
6/9/2014	19:04	10	88.45	
6/9/2014	19:05	11	89.65	
6/9/2014	19:06	12	90.46	
6/9/2014	19:07	13	91.40	
6/9/2014	19:08	14	92.25	
6/9/2014	19:09	15	93.04	
6/9/2014	19:10	16	93.88	Well 9 pumping rate 85 gpm.
6/9/2014	19:15	21	97.06	
6/9/2014	19:20	26	99.40	Well 9 pumping rate 85 gpm.
6/9/2014	19:25	31	101.59	Well 9 pumping rate 85 gpm.
6/9/2014	19:30	36	103.19	Pump in Well 1 started.
6/9/2014	19:35	41	104.39	Well 9 pumping rate 85 gpm.
6/9/2014	19:40	46	105.76	
6/9/2014	19:45	51	106.86	Well 9 pumping rate 85 gpm.
6/9/2014	19:55	61	108.60	
6/9/2014	20:05	71	110.12	Well 9 pumping rate 85 gpm.
6/9/2014	20:15	81	111.46	
6/9/2014	20:25	91	112.65	
6/9/2014	20:35	101	113.72	
6/9/2014	20:45	111	114.68	
6/9/2014	20:55	121	115.45	
6/9/2014	21:00	126	115.91	Well 9 pumping rate 85 gpm.
6/9/2014	22:00	186	120.19	Well 9 pumping rate 85 gpm.
6/9/2014	23:00	246	122.97	Well 9 pumping rate 85 gpm.
6/10/2014	0:00	306	124.82	Well 9 pumping rate 85 gpm.
6/10/2014	1:00	366	126.67	Well 9 pumping rate 85 gpm.
6/10/2014	2:00	426	128.03	Well 9 pumping rate 85 gpm.
6/10/2014	3:00	486	129.30	Well 9 pumping rate 85 gpm.
6/10/2014	4:00	546	130.20	Well 9 pumping rate 85 gpm.
6/10/2014	5:00	606	131.00	Well 9 pumping rate 85 gpm.
6/10/2014	6:00	666	131.77	Well 9 pumping rate 85 gpm.

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/10/2014	7:00	726	132.47	Well 9 pumping rate 85 gpm.
6/10/2014	7:15	741	129.18	Generator malfunction, pump in Well 9 shut down.
6/10/2014	7:20	746	114.09	
6/10/2014	7:25	751	101.86	
6/10/2014	7:30	756	89.54	
6/10/2014	7:35	761	84.15	
6/10/2014	7:40	766	80.47	
6/10/2014	7:45	771	77.84	
6/10/2014	7:50	776	82.91	Pump in Well 9 restarted.
6/10/2014	8:00	786	118.54	Well 9 pumping rate 85 gpm.
6/10/2014	9:00	846	134.05	Well 9 pumping rate 85 gpm.
6/10/2014	10:00	906	136.16	Well 9 pumping rate 85 gpm.
6/10/2014	11:00	900	137.20	Well 9 pumping rate 85 gpm.
	12:00	1026	138.08	Well 9 pumping rate 85 gpm.
6/10/2014			138.18	Generator malfunction, pump in Well 9 shut down.
6/10/2014	12:20	1046		Generator manunction, pump in wen 9 snut down.
6/10/2014	12:25	1051	103.87	
6/10/2014	12:30	1056	93.40	
6/10/2014	12:35	1061	87.50	
6/10/2014	12:40	1066	83.60	
6/10/2014	12:45	1071	80.80	
6/10/2014	12:50	1076	78.65	
6/10/2014	12:55	1081	76.93	
6/10/2014	13:00	1086	75.54	
6/10/2014	13:05	1091	74.35	
6/10/2014	13:10	1096	73.34	Den in Wall Oriente de l
6/10/2014	13:12	1098	73.11	Pump in Well 9 restarted.
6/10/2014	14:00	1146	131.04	Well 9 pumping rate 85 gpm.
6/10/2014	15:00	1206	136.12	Well 9 pumping rate 85 gpm.
6/10/2014	16:00	1266	137.97	Well 9 pumping rate 85 gpm.
6/10/2014	17:00	1326	139.02	Well 9 pumping rate 85 gpm.
6/10/2014	18:00	1386	139.74	Well 9 pumping rate 85 gpm.
6/10/2014	19:00	1446	140.36	Well 9 pumping rate 85 gpm.
6/10/2014	20:00	1506	140.75	Well 9 pumping rate 85 gpm.
6/10/2014	21:00	1566	141.23	Well 9 pumping rate 85 gpm.
6/10/2014	22:00	1626	141.57	Well 9 pumping rate 85 gpm.
6/10/2014	23:00	1686	141.80	Well 9 pumping rate 85 gpm.
6/11/2014	0:00	1746	142.10	Well 9 pumping rate 85 gpm.
6/11/2014	1:00	1806	142.58	Well 9 pumping rate 85 gpm.
6/11/2014	2:00	1866	142.78	Well 9 pumping rate 85 gpm.
6/11/2014	3:00	1926	142.80	Well 9 pumping rate 85 gpm.
6/11/2014	4:00	1986	143.11	Well 9 pumping rate 85 gpm.
6/11/2014	5:00	2046	143.41	Well 9 pumping rate 85 gpm.
6/11/2014	6:00	2106	143.40	Well 9 pumping rate 85 gpm.
6/11/2014	7:00	2166	143.78	Well 9 pumping rate 85 gpm.
6/11/2014	8:00	2226	143.72	Well 9 pumping rate 85 gpm.
6/11/2014	9:00	2286	144.15	Well 9 pumping rate 85 gpm.
6/11/2014	10:00	2346	144.00	Well 9 pumping rate 85 gpm.
6/11/2014	11:00	2406	144.09	Well 9 pumping rate 85 gpm.
6/11/2014	12:00	2466	144.29	Well 9 pumping rate 85 gpm.
6/11/2014	13:00	2526	144.54	Well 9 pumping rate 85 gpm.
6/11/2014	14:00	2586	144.40	Well 9 pumping rate 85 gpm.
6/11/2014	15:00	2646	144.27	Well 9 pumping rate 85 gpm.
6/11/2014	16:00	2706	144.40	Well 9 pumping rate 85 gpm.
6/11/2014	17:00	2766	144.48	Well 9 pumping rate 85 gpm.
6/11/2014	18:00	2826	144.48	Well 9 pumping rate 85 gpm.
6/11/2014	19:00	2886	144.50	Well 9 pumping rate 85 gpm.
6/11/2014	20:00	2946	144.83	Well 9 pumping rate 85 gpm.
6/11/2014	21:00	3006	144.75	Well 9 pumping rate 85 gpm.
6/11/2014	22:00	3066	144.80	Well 9 pumping rate 85 gpm.
6/11/2014	23:00	3126	144.82	Well 9 pumping rate 85 gpm.

Summary of Water-Level Measurements Collected from Well 9 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/12/2014	0:00	3186	145.00	Well 9 pumping rate 85 gpm.
6/12/2014	1:00	3246	145.05	Well 9 pumping rate 85 gpm.
6/12/2014	2:00	3306	144.90	Well 9 pumping rate 85 gpm.
6/12/2014	3:00	3366	144.93	Well 9 pumping rate 85 gpm.
6/12/2014	4:00	3426	144.97	Well 9 pumping rate 85 gpm.
6/12/2014	5:00	3486	145.17	Well 9 pumping rate 85 gpm.
6/12/2014	6:00	3546	145.26	Well 9 pumping rate 85 gpm.
6/12/2014	7:00	3606	145.28	Well 9 pumping rate 85 gpm.
6/12/2014	8:00	3666	145.24	Well 9 pumping rate 85 gpm.
6/12/2014	9:00	3726	145.12	Well 9 pumping rate 85 gpm.
6/12/2014	10:00	3786	145.40	Well 9 pumping rate 85 gpm.
6/12/2014	11:00	3846	145.36	Well 9 pumping rate 85 gpm.
6/12/2014	12:00	3906	145.38	Well 9 pumping rate 85 gpm.
6/12/2014	13:00	3966	145.41	Well 9 pumping rate 85 gpm.
6/12/2014	14:00	4026	145.29	Well 9 pumping rate 85 gpm.
6/12/2014	15:00	4086	145.38	Well 9 pumping rate 85 gpm.
6/12/2014	16:00	4146	145.26	Well 9 pumping rate 85 gpm.
6/12/2014	17:00	4140	145.37	Well 9 pumping rate 85 gpm.
6/12/2014	18:00	4266	145.47	Well 9 pumping rate 85 gpm.
6/12/2014	19:00	4326	145.34	Well 9 pumping rate 85 gpm.
6/12/2014	20:00	4326	145.43	Well 9 pumping rate 85 gpm.
6/12/2014	20:00	4380	145.55	Well 9 pumping rate 85 gpm.
6/12/2014	22:00	4506	145.53	Well 9 pumping rate 85 gpm.
	22:00	4566	145.45	Well 9 pumping rate 85 gpm.
6/12/2014	23:53	4500	145.48	Well 9 pumping rate 85 gpm.
6/12/2014		4620	145.34	Well 9 pumping rate 85 gpm.
6/12/2014	23:54		129.90	Pump in Well 9 shut down.
6/12/2014	23:55			Fump in wen 9 snut down.
6/12/2014	23:56		121.62	
6/12/2014	23:57		116.39	
6/12/2014	23:58		112.51	
6/12/2014	23:59		109.50	
6/13/2014	0:00		106.93	
6/13/2014	0:01		104.64	
6/13/2014	0:02		102.70	
6/13/2014	0:03		100.94	
6/13/2014	0:04		99.42	
6/13/2014	0:05		98.06	
6/13/2014	0:06		96.90	
6/13/2014	0:07		95.76	
6/13/2014	0:08		94.73	
6/13/2014	0:09		93.78	
6/13/2014	0:14		89.96	
6/13/2014	0:19		87.20	
6/13/2014	0:24		85.09	
6/13/2014	0:29		83.41	
6/13/2014	0:34		82.01	
6/13/2014	0:39		80.80	
6/13/2014	0:44		79.78	
6/13/2014	0:54		78.03	
6/13/2014	1:04		76.58	
6/13/2014	1:14		75.37	
6/13/2014	1:24		74.32	
6/13/2014	1:34		73.40	<i>i</i>
6/13/2014	1:44	-	72.56	
6/13/2014	1:54		71.82	
6/13/2014	2:04		71.14	
6/13/2014	2:14		70.50	
6/13/2014	2:24		69.91	
6/13/2014	2:34		69.36	
6/13/2014	2:44		68.85	

## Summary of Water-Level Measurements Collected from Well 9 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/13/2014	2:54		68.37	
6/13/2014	3:00		68.10	
6/13/2014	4:00		65.73	
6/13/2014	5:00		63.86	
6/13/2014	6:00		62.30	
6/13/2014	7:00		61.02	
6/13/2014	8:00		59.88	
6/13/2014	9:00		58.91	
6/13/2014	10:00		58.04	
6/13/2014	11:00		57.23	
			56.56	
6/13/2014	12:00		55.85	
6/13/2014	13:00			
6/13/2014	14:00		55.25	
6/13/2014	15:00		54.66	
6/13/2014	16:00		54.08	
6/13/2014	17:00		53.62	
6/13/2014	18:00		53.17	
6/13/2014	19:00		52.78	
6/13/2014	20:00		52.36	
6/13/2014	21:00		52.05	
6/13/2014	22:00		51.70	
6/13/2014	23:00		51.40	
6/14/2014	0:00		51.15	
6/14/2014	1:00		50.87	
6/14/2014	2:00		50.61	
6/14/2014	3:00		50.29	
6/14/2014	4:00		50.10	
6/14/2014	5:00		49.87	
6/14/2014	6:00		49.68	
6/14/2014	7:00		49.48	
6/14/2014	8:00		49.32	
6/14/2014	9:00		49.18	
6/14/2014	10:00		49.03	
6/14/2014	11:00		48.88	
6/14/2014	12:00		48.73	
6/14/2014	13:00		48.58	
6/14/2014	14:00		48.42	
6/14/2014	15:00		48.26	
6/14/2014	16:00		48.12	
6/14/2014	17:00		47.96	
6/14/2014	18:00		47.82	
6/14/2014	19:00		47.70	
6/14/2014	20:00		47.62	
6/14/2014	21:00		47.51	
6/14/2014	22:00		47.43	
6/14/2014	23:00		47.33	
6/15/2014	0:00		47.25	
6/15/2014	1:00		47.15	
6/15/2014	2:00		47.07	
6/15/2014	3:00		46.98	
6/15/2014	4:00		46.89	
6/15/2014	5:00		46.78	
6/15/2014	6:00		46.72	
6/15/2014	7:00		46.65	
			46.60	
6/15/2014	8:00		46.55	
6/15/2014	9:00		46.53	
6/15/2014	10:00		46.53	
6/15/2014	11:00			
6/15/2014	12:00		46.42	
6/15/2014	13:00		46.34	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/15/2014	14:00		46.27	
6/15/2014	15:00		46.19	
6/15/2014	16:00		46.12	
6/15/2014	17:00		46.02	
6/15/2014	18:00		45.94	
6/15/2014	19:00		45.88	
6/15/2014	20:00		45.81	
6/15/2014	20:00		45.76	
6/15/2014	22:00		45.74	
6/15/2014	22:00		45.70	
6/16/2014	0:00		45.68	
			45.64	
6/16/2014	1:00		45.61	
6/16/2014	2:00		45.57	
6/16/2014	3:00		45.52	
6/16/2014	4:00			
6/16/2014	5:00		45.49	
6/16/2014	6:00		45.44	
6/16/2014	7:00		45.40	
6/16/2014	8:00		45.37	
6/16/2014	9:00		45.33	
6/16/2014	10:00		45.32	
6/16/2014	11:00		45.30	
6/16/2014	12:00		45.27	Duran in Wall 21 started
6/16/2014	12:25		45.27	Pump in Well 31 started.
6/16/2014	13:00		45.24	
6/16/2014	14:00		45.45	
6/16/2014	15:00		45.82	
6/16/2014	16:00		46.23	
6/16/2014	17:00		46.64	
6/16/2014	18:00		47.01	
6/16/2014	19:00		47.33	
6/16/2014	20:00		47.63	
6/16/2014	21:00		47.93	
6/16/2014	22:00		48.20	
6/16/2014	23:00		48.44	
6/17/2014	0:00		48.66	
6/17/2014	1:00		48.85	
6/17/2014	2:00		49.03	
6/17/2014	3:00		49.17	
6/17/2014	4:00		49.29	
6/17/2014	5:00		49.41	
6/17/2014	6:00		49.51	
6/17/2014	7:00		49.61	
6/17/2014	8:00		49.70	
6/17/2014	9:00		49.79	
6/17/2014	10:00		49.87	
6/17/2014	11:00		49.94	
6/17/2014	12:00		50.00	
6/17/2014	13:00		50.06	
6/17/2014	14:00		50.11	
6/17/2014	15:00		50.15	
6/17/2014	16:00		50.16	
6/17/2014	17:00		50.18	
6/17/2014	18:00		50.19	
6/17/2014	19:00		50.18	
6/17/2014	20:00		50.20	
6/17/2014	21:00		50.21	
6/17/2014	22:00		50.26	
6/17/2014	23:00		50.26	
6/18/2014	0:00		50.30	
	1	-	Lange and the second	

### Summary of Water-Level Measurements Collected from Well 9 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/18/2014	1:00		50.31	
6/18/2014	2:00		50.38	
6/18/2014	3:00		50.36	
6/18/2014	4:00		50.39	
6/18/2014	5:00		50.42	
6/18/2014	6:00		50.41	
6/18/2014	7:00		50.43	
6/18/2014	8:00		50.45	
6/18/2014	9:00		50.47	
6/18/2014	10:00		50.49	
6/18/2014	11:00		50.53	
6/18/2014	12:00		50.55	
	12:00		50.61	
6/18/2014			50.64	
6/18/2014	14:00			
6/18/2014	15:00		50.67	
6/18/2014	16:00		50.67	
6/18/2014	17:00		50.68	
6/18/2014	18:00		50.70	
6/18/2014	19:00		50.69	
6/18/2014	20:00		50.69	
6/18/2014	21:00		50.70	
6/18/2014	22:00		50.71	
6/18/2014	23:00		50.72	
6/19/2014	0:00		50.74	
6/19/2014	1:00		50.75	
6/19/2014	2:00		50.77	
6/19/2014	3:00		50.79	
6/19/2014	4:00		50.82	
6/19/2014	5:00		50.83	
6/19/2014	6:00		50.83	
6/19/2014	7:00		50.85	
6/19/2014	8:00		50.85	
6/19/2014	9:00		50.85	
6/19/2014	10:00		50.85	
6/19/2014	11:00		50.84	
6/19/2014	12:00		50.85	
6/19/2014	12:44		50.86	Pump in Well 31 shut down.
6/19/2014	13:00		50.87	
6/19/2014	14:00		50.78	
6/19/2014	15:00		50.47	
6/19/2014	16:00		50.05	
6/19/2014	17:00		49.60	
6/19/2014	18:00		49.18	
6/19/2014	19:00		48.79	
6/19/2014	20:00		48.44	
6/19/2014	21:00		48.11	
6/19/2014	22:00		47.85	
6/19/2014	23:00		47.59	
6/20/2014	0:00		47.36	
6/20/2014	1:00		47.18	
6/20/2014	2:00		47.00	
6/20/2014	3:00		46.85	
6/20/2014	4:00		46.70	
6/20/2014	5:00		46.57	
6/20/2014	6:00		46.45	
6/20/2014	7:00		46.33	
6/20/2014	8:00		46.23	
6/20/2014	9:00		46.09	
6/20/2014	10:00		45.98	
6/20/2014	11:00		45.89	
012012014	11.00		10.09	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/20/2014	12:00	(	45.80	
6/20/2014	13:00		45.70	
6/20/2014	14:00		45.64	
6/20/2014	15:00		45.61	
6/20/2014	16:00		45.52	
6/20/2014	17:00		45.46	
6/20/2014	18:00		45.40	
6/20/2014	19:00		45.35	
	20:00		45.30	
6/20/2014			45.25	
6/20/2014	21:00			
6/20/2014	22:00		45.22	
6/20/2014	23:00		45.18	
6/21/2014	0:00		45.14	
6/21/2014	1:00		45.10	
6/21/2014	2:00		45.09	
6/21/2014	3:00		45.05	
6/21/2014	4:00		45.04	
6/21/2014	5:00		45.04	
6/21/2014	6:00		45.03	
6/21/2014	7:00		45.00	
6/21/2014	8:00		44.98	
6/21/2014	9:00		44.95	
6/21/2014	10:00		44.89	
6/21/2014	11:00		44.85	
6/21/2014	12:00		44.82	
6/21/2014	13:00		44.76	
6/21/2014	14:00		44.73	
6/21/2014	15:00		44.71	
6/21/2014	16:00		44.70	
6/21/2014	17:00		44.68	
6/21/2014	18:00		44.68	
6/21/2014	19:00		44.66	
6/21/2014	20:00		44.65	
6/21/2014	21:00		44.64	
6/21/2014	22:00		44.62	
6/21/2014	23:00		44.61	
6/22/2014	0:00		44.59	
6/22/2014	1:00		44.58	
6/22/2014	2:00		44.59	
	3:00		44.58	
6/22/2014 6/22/2014	4:00		44.59	
6/22/2014	5:00		44.57	
and the second se			44.59	
6/22/2014	6:00 7:00		44.59	
6/22/2014			11.44	
6/22/2014	8:00		44.61	
6/22/2014	9:00			
6/22/2014	10:00		44.58	
6/22/2014	11:00		44.55	
6/22/2014	12:00		44.52	
6/22/2014	13:00		44.49	
6/22/2014	14:00		44.48	
6/22/2014	15:00		44.44	
6/22/2014	16:00		44.46	
6/22/2014	17:00		44.45	
6/22/2014	18:00		44.45	
6/22/2014	19:00		44.46	
6/22/2014	20:00		44.46	
6/22/2014	21:00		44.45	
6/22/2014	22:00		44.46	
6/22/2014	23:00		44.46	

Summary of Water-Level Measurements Collected from Well 9 During 72-Hour Pumping Tests Conducted June 9
Through June 19, 2014

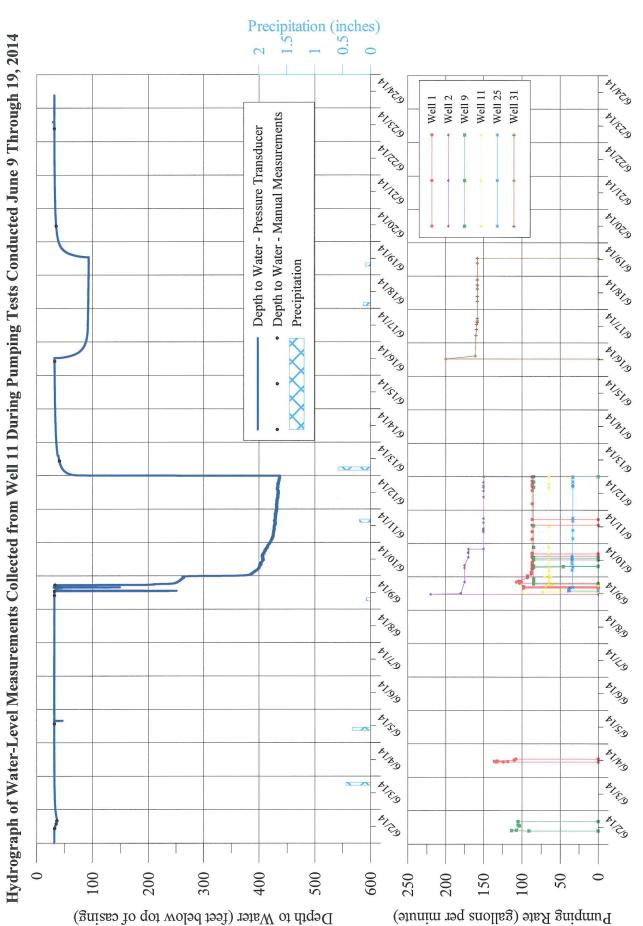
Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/23/2014	0:00		44.45	
6/23/2014	1:00		44.48	
6/23/2014	2:00		44.44	
6/23/2014	3:00		44.44	
6/23/2014	4:00		44.45	
6/23/2014	5:00		44.46	
6/23/2014	6:00		44.48	
6/23/2014	7:00		44.50	
6/23/2014	8:00		44.51	
6/23/2014	9:00		44.53	
6/23/2014	10:00		44.51	
6/23/2014	11:00		44.50	
6/23/2014	12:00		44.47	
6/23/2014	13:00		44.42	
6/23/2014	14:00		44.41	
6/23/2014	15:00		44.40	
6/23/2014	16:00		44.38	
6/23/2014	17:00		44.38	
6/23/2014	18:00		44.38	
6/23/2014	19:00		44.40	
6/23/2014	20:00		44.40	
6/23/2014	21:00		44.45	
6/23/2014	22:00		44.42	
6/23/2014	23:00		44.41	
6/24/2014	0:00		44.42	
6/24/2014	1:00		44.41	
6/24/2014	2:00		44.44	
6/24/2014	3:00		44.40	
6/24/2014	4:00		44.41	
6/24/2014	5:00		44.41	
6/24/2014	6:00		44.43	
6/24/2014	7:00		44.43	
6/24/2014	8:00		44.46	
6/24/2014	9:00		44.48	
6/24/2014	10:00		44.60	

ft btoc feet below top of casing

gpm gallons per minute

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\Well 9.docx

**WELL 11** 



LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 11.grf

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
5/28/2014	20:00		55.39	
5/29/2014	0:00		42.39	
5/29/2014	4:00		37.49	
5/29/2014	8:00		35.17	
5/29/2014	12:00		33.99	
			195.23	Preliminary test on Well 11 conducted.
5/29/2014	16:00			Flemmary lest on wen 11 conducted.
5/29/2014	20:00		38.40	
5/30/2014	0:00		34.69	
5/30/2014	4:00		33.42	
5/30/2014	8:00		32.82	
5/30/2014	12:00		32.64	
5/30/2014	16:00		33.14	
5/30/2014	20:00		33.00	
5/31/2014	0:00		32.61	
5/31/2014	4:00		32.42	
5/31/2014	8:00		32.26	
	12:00		32.22	
5/31/2014			32.19	
5/31/2014	16:00			
5/31/2014	20:00		32.08	
6/1/2014	0:00		32.12	
6/1/2014	4:00		32.07	
6/1/2014	8:00		32.05	
6/1/2014	12:00		32.09	
6/1/2014	16:00		32.02	
6/1/2014	20:00		32.00	
6/2/2014	0:00		32.00	
6/2/2014	4:00		32.01	
6/2/2014	8:00		31.90	
6/2/2014	12:00		33.90	
			36.56	
6/2/2014	16:00			
6/2/2014	20:00		35.26	
6/3/2014	0:00		33.96	
6/3/2014	4:00		33.30	
6/3/2014	8:00		32.87	
6/3/2014	12:00		32.62	
6/3/2014	16:00		32.50	
6/3/2014	20:00		32.34	
6/4/2014	0:00		32.21	
6/4/2014	4:00		32.24	
6/4/2014	8:00		32.15	
6/4/2014	12:00		32.13	
6/4/2014	16:00		32.10	
			31.99	
6/4/2014	20:00		32.05	
6/5/2014	0:00			
6/5/2014	4:00		32.02	
6/5/2014	8:00		31.97	
6/5/2014	12:00		31.93	
6/5/2014	16:00		32.78	
6/5/2014	20:00		32.18	
6/6/2014	0:00		32.11	
6/6/2014	4:00		32.10	
6/6/2014	8:00		32.21	
6/6/2014	12:00		32.18	
6/6/2014	16:00		32.08	
and the second se			32.14	
6/6/2014	20:00			
6/7/2014	0:00		32.12	
6/7/2014	4:00		32.19	
6/7/2014	8:00		32.14	
6/7/2014	12:00		32.14	
6/7/2014	16:00		32.22	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/7/2014	20:00		32.20	
6/8/2014	0:00		32.20	
6/8/2014	4:00		32.18	
6/8/2014	8:00		32.32	
6/8/2014	12:00		32.22	
6/8/2014	16:00		32.21	
			32.32	
6/8/2014	20:00		32.32	
6/9/2014	0:00			
6/9/2014	1:00		32.24	
6/9/2014	2:00		32.24	
6/9/2014	3:00		32.23	
6/9/2014	4:00		32.22	
6/9/2014	5:00		32.23	
6/9/2014	6:00		32.24	
6/9/2014	7:00		32.28	
6/9/2014	8:00		32.28	
6/9/2014	9:00		32.30	
6/9/2014	10:00		32,28	
6/9/2014	11:00		32.28	
6/9/2014	11:32		32.25	Pump in Well 2 started.
6/9/2014	12:00		32.23	
6/9/2014	12:56		32.27	
			32.26	
6/9/2014	12:57		71.79	Initial start of pump in Well 11.
6/9/2014	12:58		130.69	Well 11 pumping rate 100 gpm.
6/9/2014	12:59		173.96	Pumping rate reduced.
6/9/2014	13:00			Puniping fate feduced.
6/9/2014	13:01		205.53	
6/9/2014	13:02		230.07	
6/9/2014	13:03		234.75	
6/9/2014	13:04		232.11	
6/9/2014	13:05		229.29	
6/9/2014	13:06		227.26	Well 11 pumping rate 73 gpm.
6/9/2014	13:07		236.05	
6/9/2014	13:08		239.42	
6/9/2014	13:09		240.68	
6/9/2014	13:10		242.68	
6/9/2014	13:11		244.69	
6/9/2014	13:12		247.32	
6/9/2014	13:12		248.75	
6/9/2014	13:13		251.56	Well 11 pumping rate 73 gpm.
6/9/2014	13:14		251.20	
			235.31	Pump in Well 11 shut down.
6/9/2014	13:16		192.44	i ump in wen it shut down.
6/9/2014	13:17			Pump in Well 25 started.
6/9/2014	13:51		36.37	Fump in wen 25 statted.
6/9/2014	14:00		35.70	
6/9/2014	15:00		33.78	Denne in Well 20 strated
6/9/2014	15:03		33.78	Pump in Well 28 started.
6/9/2014	15:09		33.73	Pump in Well 28 stopped.
6/9/2014	15:38		32.00	
6/9/2014	15:39		70.34	Test of pump in Well 11 after wiring was repaired
6/9/2014	15:40		104.97	
6/9/2014	15:41		130.94	
6/9/2014	15:42		149.21	
6/9/2014	16:00		34.48	
6/9/2014	16:51		32.31	
6/9/2014	17:00		32.26	
6/9/2014	17:22		33.37	
6/9/2014	17:22		33.33	
				Pump in Well 11 restarted.
6/9/2014	17:24	1	71.04	Pump in Well 11 restarted

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/9/2014	17:26	3	134.24	
6/9/2014	17:27	4	153.28	
6/9/2014	17:28	5	167.53	
6/9/2014	17:29	6	178.47	
6/9/2014	17:30	7	185.48	Well 11 pumping rate 69 gpm.
6/9/2014	17:31	8	190.78	energi seri nere di gunaren da energi Arren Revenitori en Redenitori de la companya de la companya de la compa
6/9/2014	17:32	9	194.76	
6/9/2014	17:33	10	197.74	
6/9/2014	17:34	11	199.74	
6/9/2014	17:35	12	201.72	
6/9/2014	17:36	13	204.00	
6/9/2014	17:37	14	205.04	
6/9/2014	17:38	15	205.76	
6/9/2014	17:39	16	206.72	
6/9/2014	17:44	21	209.30	Well 11 pumping rate 65 gpm.
6/9/2014	17:49	26	209.31	
6/9/2014	17:54	31	210.08	Well 11 pumping rate 65 gpm.
6/9/2014	17:59	36	210.00	
6/9/2014	18:04	41	211.83	Well 11 pumping rate 65 gpm.
6/9/2014	18:09	46	229.67	
6/9/2014	18:14	51	236.49	Well 11 pumping rate 65 gpm.
6/9/2014	18:24	61	243.81	Well 11 pumping rate 65 gpm.
6/9/2014	18:34	71	246.43	Well 11 pumping rate 65 gpm.
6/9/2014	18:44	81	248.42	
6/9/2014	18:54	91	249.97	
6/9/2014	18:55	92	250.16	Pump in Well 9 started.
6/9/2014	19:00	97	251.44	Well 11 pumping rate 65 gpm.
6/9/2014	19:30	127	254.02	Pump in Well 1 started.
6/9/2014	20:00	157	255.31	Well 11 pumping rate 65 gpm.
6/9/2014	21:00	217	257.99	Well 11 pumping rate 65 gpm.
6/9/2014	22:00	277	260.97	Well 11 pumping rate 65 gpm.
6/9/2014	23:00	337	262.80	Well 11 pumping rate 62 gpm.
6/9/2014	23:45	382	266.64	Rate manually increased.
6/10/2014	0:00	397	340.14	Well 11 pumping rate 70 gpm.
6/10/2014	1:00	457	384.88	Well 11 pumping rate 65 gpm.
6/10/2014	2:00	517	387.37	Well 11 pumping rate 65 gpm.
6/10/2014	3:00	577	392.71	Well 11 pumping rate 65 gpm.
6/10/2014	4:00	637	395.10	Well 11 pumping rate 65 gpm.
6/10/2014	5:00	697	397.87	Well 11 pumping rate 65 gpm.
6/10/2014	6:00	757	399.67	Well 11 pumping rate 65 gpm.
6/10/2014	7:00	817	401.49	Well 11 pumping rate 65 gpm.
6/10/2014	8:00	877	403.37	Well 11 pumping rate 65 gpm.
6/10/2014	9:00	937	403.09	Well 11 pumping rate 65 gpm.
6/10/2014	10:00	997	405.09	Well 11 pumping rate 65 gpm.
6/10/2014	11:00	1057	407.09	Well 11 pumping rate 65 gpm.
6/10/2014	12:00	1117	406.71	Well 11 pumping rate 65 gpm.
6/10/2014	13:00	1177	406.10	Well 11 pumping rate 65 gpm.
6/10/2014	14:00	1237	405.92	Well 11 pumping rate 65 gpm.
6/10/2014	15:00	1297	406.95	Well 11 pumping rate 65 gpm.
6/10/2014	16:00	1357	407.63	Well 11 pumping rate 65 gpm.
6/10/2014	17:00	1417	410.08	Well 11 pumping rate 65 gpm.
6/10/2014	18:00	1477	411.87	Well 11 pumping rate 65 gpm.
6/10/2014	19:00	1537	411.70	Well 11 pumping rate 65 gpm.
6/10/2014	20:00	1597	414.38	Well 11 pumping rate 65 gpm.
6/10/2014	20.00	1657	415.09	Well 11 pumping rate 65 gpm.
6/10/2014	22:00	1717	415.90	Well 11 pumping rate 65 gpm.
6/10/2014	22:00	1777	418.94	Well 11 pumping rate 65 gpm.
6/10/2014	0:00	1837	418.94	Well 11 pumping rate 65 gpm.
0/11/2014	0.00	1897	418.94	Well 11 pumping rate 65 gpm.
6/11/2014	1:00			

## Summary of Water-Level Measurements Collected from Well 11 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/11/2014	3:00	2017	424.23	Well 11 pumping rate 65 gpm.
6/11/2014	4:00	2077	424.69	Well 11 pumping rate 65 gpm.
6/11/2014	5:00	2137	425.90	Well 11 pumping rate 65 gpm.
6/11/2014	6:00	2197	425.52	Well 11 pumping rate 65 gpm.
6/11/2014	7:00	2257	425.46	Well 11 pumping rate 65 gpm.
6/11/2014	8:00	2317	427.05	Well 11 pumping rate 65 gpm.
6/11/2014	9:00	2377	427.02	Well 11 pumping rate 65 gpm.
6/11/2014	10:00	2437	426.53	Well 11 pumping rate 65 gpm.
6/11/2014	11:00	2497	427.16	Well 11 pumping rate 65 gpm.
6/11/2014	12:00	2557	428.53	Well 11 pumping rate 65 gpm.
6/11/2014	13:00	2617	428.92	Well 11 pumping rate 65 gpm.
6/11/2014	14:00	2677	430.49	Well 11 pumping rate 65 gpm.
6/11/2014	15:00	2737	428.33	Well 11 pumping rate 65 gpm.
6/11/2014	16:00	2797	427.83	Well 11 pumping rate 65 gpm.
6/11/2014	17:00	2857	430.07	Well 11 pumping rate 65 gpm.
6/11/2014	18:00	2917	429.00	Well 11 pumping rate 65 gpm.
6/11/2014	19:00	2977	430.18	Well 11 pumping rate 65 gpm.
6/11/2014	20:00	3037	429.37	Well 11 pumping rate 65 gpm.
6/11/2014	21:00	3097	430.38	Well 11 pumping rate 65 gpm.
6/11/2014	22:00	3157	430.23	Well 11 pumping rate 65 gpm.
6/11/2014	23:00	3217	430.81	Well 11 pumping rate 65 gpm.
6/12/2014	0:00	3277	431.36	Well 11 pumping rate 65 gpm.
6/12/2014	1:00	3337	432.14	Well 11 pumping rate 65 gpm.
6/12/2014	2:00	3397	431.46	Well 11 pumping rate 65 gpm.
6/12/2014	3:00	3457	431.18	Well 11 pumping rate 65 gpm.
6/12/2014	4:00	3517	431.82	Well 11 pumping rate 65 gpm.
6/12/2014	5:00	3577	432.29	Well 11 pumping rate 65 gpm.
6/12/2014	6:00	3637	432.47	Well 11 pumping rate 65 gpm.
6/12/2014	7:00	3697	431.81	Well 11 pumping rate 65 gpm.
6/12/2014	8:00	3757	433.33	Well 11 pumping rate 65 gpm.
6/12/2014	9:00	3817	433.99	Well 11 pumping rate 65 gpm.
6/12/2014	10:00	3877	434.21	Well 11 pumping rate 65 gpm.
6/12/2014	11:00	3937	434.16	Well 11 pumping rate 65 gpm.
6/12/2014	12:00	3997	432.92	Well 11 pumping rate 65 gpm.
6/12/2014	13:00	4057	433.66	Well 11 pumping rate 65 gpm.
6/12/2014	14:00	4117	432.94	Well 11 pumping rate 65 gpm.
6/12/2014	15:00	4177	432.79	Well 11 pumping rate 65 gpm.
6/12/2014	16:00	4237	433.37	Well 11 pumping rate 65 gpm.
6/12/2014	17:00	4297	433.25	Well 11 pumping rate 65 gpm.
6/12/2014	17:30	4327	434.40	Well 11 pumping rate 65 gpm.
6/12/2014	17:53	4350	434.41	Well 11 pumping rate 65 gpm.
6/12/2014	18:00	4357	434.43	Well 11 pumping rate 65 gpm.
6/12/2014	18:30	4387	434.30	Well 11 pumping rate 65 gpm.
6/12/2014	19:00	4417	434.90	Well 11 pumping rate 65 gpm.
6/12/2014	19:30	4447	436.09	Well 11 pumping rate 65 gpm.
6/12/2014	20:00	4477	434.96	Well 11 pumping rate 65 gpm.
6/12/2014	20:30	4507	434.79	Well 11 pumping rate 65 gpm.
6/12/2014	21:00	4537	436.13	Well 11 pumping rate 65 gpm.
6/12/2014	21:30	4567	436.23	Well 11 pumping rate 65 gpm.
6/12/2014	22:00	4597	435.80	Well 11 pumping rate 65 gpm.
6/12/2014	22:30	4627	436.56	Well 11 pumping rate 65 gpm.
6/12/2014	23:00	4657	436.44	Well 11 pumping rate 65 gpm.
6/12/2014	23:30	4687	436.30	Well 11 pumping rate 65 gpm.
6/12/2014	23:51	4708	437.05	Well 11 pumping rate 65 gpm.
6/12/2014	23:52	4709	437.12	Well 11 pumping rate 65 gpm.
6/12/2014	23:53		385.33	Pump in Well 11 shut down.
6/12/2014	23:54		329.86	
6/12/2014	23:55		282.88	
6/12/2014	23:56		251.68	
0/12/2014	20.00		216.68	

## Summary of Water-Level Measurements Collected from Well 11 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/12/2014	23:58		184.27	
6/12/2014	23:59		159.07	
6/13/2014	0:00		35.76	
6/13/2014	0:00		35.75	
6/13/2014	0:01		35.74	
6/13/2014	0:02		35.73	
			35.83	
6/13/2014	0:04			
6/13/2014	0:05		35.78	
6/13/2014	0:06		35.77	
6/13/2014	0:07		35.70	
6/13/2014	0:12		72.42	
6/13/2014	0:17		68.65	
6/13/2014	0:22		66.55	
6/13/2014	0:27		65.02	
6/13/2014	0:32		63.75	
6/13/2014	0:37		62.72	
6/13/2014	0:42		61.78	
6/13/2014	0:52		60.26	
6/13/2014	1:00		59.20	
6/13/2014	2:00		53.86	
6/13/2014	3:00		50.56	
6/13/2014	4:00		48.18	
			46.40	
6/13/2014	5:00			
6/13/2014	6:00		45.02	
6/13/2014	7:00		43.91	
6/13/2014	8:00		42.99	
6/13/2014	9:00		42.26	
6/13/2014	10:00		41.55	
6/13/2014	11:00		41.00	
6/13/2014	12:00		40.50	
6/13/2014	13:00		40.04	
6/13/2014	14:00		39.61	
6/13/2014	15:00		37.90	
6/13/2014	16:00		37.57	
6/13/2014	17:00		37.27	
6/13/2014	18:00		36.97	
6/13/2014	19:00		36.72	
6/13/2014	20:00		36.49	
6/13/2014	21:00		36.27	
6/13/2014	21:00		36.08	
	22:00		35.91	
6/13/2014			35.76	
6/14/2014	0:00		35.55	
6/14/2014	1:00			
6/14/2014	2:00		35.42	
6/14/2014	3:00		35.27	
6/14/2014	4:00		35.17	
6/14/2014	5:00		35.01	
6/14/2014	6:00		34.90	
6/14/2014	7:00		34.78	
6/14/2014	8:00		34.68	
6/14/2014	9:00		34.60	
6/14/2014	10:00		34.50	
6/14/2014	11:00		34.49	
6/14/2014	12:00		34.38	
6/14/2014	13:00		34.27	
6/14/2014	14:00		34.21	
			34.11	
6/14/2014	15:00			
6/14/2014	16:00		34.03	
6/14/2014	17:00		33.93	
6/14/2014	18:00		33.84	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/14/2014	19:00		33.78	
6/14/2014	20:00		33.73	
6/14/2014	21:00		33.68	
6/14/2014	22:00		33.64	
6/14/2014	23:00		33.60	
6/15/2014	0:00		33.54	
6/15/2014	1:00		33.51	
6/15/2014	2:00		33.51	
6/15/2014	3:00		33.42	
6/15/2014	4:00		33.37	
6/15/2014	5:00		33.32	
6/15/2014	6:00		33.29	
	7:00		33.22	
6/15/2014			33.22	
6/15/2014	8:00		33.20	
6/15/2014	9:00		33.17	
6/15/2014	10:00			
6/15/2014	11:00		33.16 33.11	
6/15/2014	12:00			
6/15/2014	13:00		33.10	
6/15/2014	14:00		33.01	
6/15/2014	15:00		33.01	
6/15/2014	16:00		32.97	
6/15/2014	17:00		32.92	
6/15/2014	18:00		32.87	
6/15/2014	19:00		32.83	
6/15/2014	20:00		32.84	
6/15/2014	21:00		32.79	
6/15/2014	22:00		32.75	
6/15/2014	23:00		32.73	
6/16/2014	0:00		32.72	
6/16/2014	1:00		32.70	
6/16/2014	2:00		32.71	
6/16/2014	3:00		32.67	
6/16/2014	4:00		32.66	
6/16/2014	5:00		32.63	
6/16/2014	6:00		32.63	
6/16/2014	7:00		32.57	
6/16/2014	8:00		32.56	
6/16/2014	9:00		32.54	
6/16/2014	10:00		32.23	
6/16/2014	11:00		32.51	
6/16/2014	12:00		32.48	
6/16/2014	12:24		32.45	
6/16/2014	12:25		33.15	Pump in Well 31 started.
6/16/2014	13:00		51.53	
6/16/2014	14:00		62.37	
6/16/2014	15:00		69.15	
6/16/2014	16:00		73.95	
6/16/2014	17:00		77.59	
6/16/2014	18:00		80.34	
6/16/2014	19:00		82.53	
6/16/2014	20:00		84.22	
6/16/2014	21:00		85.62	
6/16/2014	22:00		86.75	
6/16/2014	23:00		87.72	
6/17/2014	0:00		88.49	
6/17/2014	1:00		89.15	
6/17/2014	2:00		89.68	
6/17/2014	3:00		90.13	
6/17/2014	4:00		90.52	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/17/2014	5:00		90.85	
6/17/2014	6:00		91.11	
6/17/2014	7:00		91.31	
6/17/2014	8:00		91.49	
6/17/2014	9:00		91.67	
6/17/2014	10:00		91.74	
6/17/2014	11:00		91.69	
6/17/2014	12:00		91.65	
6/17/2014	13:00		91.71	
6/17/2014	14:00		91.64	
6/17/2014	15:00		91.89	
6/17/2014	16:00		91.89	
6/17/2014	17:00		91.94	
6/17/2014	18:00		91.97	
6/17/2014	19:00		92.08	A Amaronia and a second se
6/17/2014	20:00		92.05	
6/17/2014	21:00		92.13	
6/17/2014	22:00		92.21	
6/17/2014	22:00		92.21	
6/18/2014	0:00		92.30	
6/18/2014	1:00		92.30	
6/18/2014	2:00		92.34	
6/18/2014	3:00		92.42	
6/18/2014	4:00		92.43	
6/18/2014	5:00		92.58	
6/18/2014	6:00		92.57	
6/18/2014	7:00		92.61	
6/18/2014	8:00		92.61	
6/18/2014	9:00		92.63	
6/18/2014	10:00		92.39	
6/18/2014	11:00		92.60	
6/18/2014	12:00		92.64	
6/18/2014	13:00		92.61	
6/18/2014	14:00		92.65	
6/18/2014	15:00		92.69	
6/18/2014	16:00		92.71	
6/18/2014	17:00		92.74	
6/18/2014	18:00		92.78	
6/18/2014	19:00		92.88	
6/18/2014	20:00		92.87	
6/18/2014	20:00		92.94	
6/18/2014	22:00		92.94	
6/18/2014	22:00		93.05	
6/19/2014	0:00		93.12	
6/19/2014	1:00		93.14	
6/19/2014	2:00		93.14	
6/19/2014	3:00		93.16	
6/19/2014	4:00		93.19	
6/19/2014	5:00		93.29	
6/19/2014	6:00		93.27	
6/19/2014	7:00		93.29	
6/19/2014	8:00		93.30	
6/19/2014	9:00		93.30	
6/19/2014	10:00		93.29	
6/19/2014	11:00		93.36	
6/19/2014	12:00		93.30	
6/19/2014	12:00		93.26	Pump in Well 31 shut down.
6/19/2014	12:44		82.70	i unp in wen 51 shut down.
6/19/2014	13:00		68.04	
6/19/2014	14:00		59.98	
0/19/2014	15.00		59.90	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/19/2014	16:00		54.56	
6/19/2014	17:00		50.74	
6/19/2014	18:00		47.83	
6/19/2014	19:00		45.63	
6/19/2014	20:00		43.93	
6/19/2014	21:00		42.56	
6/19/2014	22:00		41.43	
6/19/2014	23:00		40.53	
6/20/2014	0:00		39.73	
6/20/2014	1:00		39.09	
6/20/2014	2:00		38.55	
6/20/2014	3:00		38.05	
6/20/2014	4:00		37.64	
6/20/2014	5:00		37.24	
6/20/2014	6:00		36.90	
6/20/2014	7:00		36.59	
6/20/2014	8:00		36.29	
6/20/2014	9:00		36.05	
6/20/2014	10:00		35.76	
6/20/2014	11:00		35.62	
6/20/2014	12:00		35.39	
6/20/2014	12:00		35.17	
6/20/2014	14:00		34.99	
6/20/2014	15:00		34.83	
6/20/2014	16:00		34.70	
6/20/2014	17:00		34.56	
6/20/2014	18:00		34.44	
6/20/2014	19:00		34.36	
6/20/2014	20:00		34.21	
6/20/2014	21:00		34.13	
6/20/2014	22:00		34.07	
6/20/2014	23:00		33.95	
6/21/2014	0:00		33.87	
6/21/2014	1:00		33.77	
6/21/2014	2:00		33.69	
6/21/2014	3:00		33.61	
6/21/2014	4:00		33.58	
6/21/2014	5:00		33.51	
6/21/2014	6:00		33.47	
6/21/2014	7:00		33.41	
6/21/2014	8:00		33.33	
6/21/2014	9:00		33.31	
6/21/2014	10:00		33.25	
6/21/2014	11:00		33.15	
6/21/2014	12:00		33.08	
6/21/2014	13:00		33.07	
6/21/2014	14:00		33.01	
6/21/2014	15:00		32.95	
6/21/2014	16:00		32.90	
6/21/2014	17:00		32.88	
6/21/2014	18:00		32.85	
6/21/2014	19:00		32.81	
6/21/2014	20:00		32.82	
6/21/2014	21:00		32.78	
6/21/2014	22:00		32.71	
6/21/2014	23:00		32.67	
6/22/2014	0:00		32.65	
6/22/2014	1:00		32.64	
6/22/2014	2:00		32.66	
1 0/44/2014			32.54	

#### Summary of Water-Level Measurements Collected from Well 11 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/22/2014	4:00		32.53	
6/22/2014	5:00		32.55	
6/22/2014	6:00		32.57	
6/22/2014	7:00		32.51	
6/22/2014	8:00		32.48	
6/22/2014	9:00		32.52	
6/22/2014	10:00		32.46	
6/22/2014	11:00		32.44	
6/22/2014	12:00		32.39	
6/22/2014	13:00		32.37	
6/22/2014	14:00		32.37	
6/22/2014	15:00		32.35	
6/22/2014	16:00		32.28	
6/22/2014	17:00		32.28	
6/22/2014	18:00		32.28	
6/22/2014	19:00		32.23	
6/22/2014	20:00		32.23	
6/22/2014	20:00		32.28	
6/22/2014	22:00		32.24	
			32.23	
6/22/2014	23:00		32.23	
6/23/2014	0:00		32.24	
6/23/2014	1:00			
6/23/2014	2:00		32.20	
6/23/2014	3:00		32.20	
6/23/2014	4:00		32.19	
6/23/2014	5:00		32.17	
6/23/2014	6:00		32.19	
6/23/2014	7:00		32.20	
6/23/2014	8:00		32.15	
6/23/2014	9:00		32.18 32.20	
6/23/2014	10:00			
6/23/2014	11:00		32.13	
6/23/2014	12:00		32.17	
6/23/2014	13:00		32.11	
6/23/2014	14:00		31.78	
6/23/2014	15:00		32.08	
6/23/2014	16:00		32.11	
6/23/2014	17:00		32.12 32.12	
6/23/2014	18:00			
6/23/2014	19:00		32.17	
6/23/2014	20:00		32.16	
6/23/2014	21:00		32.13	
6/23/2014	22:00		32.15 32.18	
6/23/2014	23:00			
6/24/2014	0:00		32.19	
6/24/2014	1:00		32.17	
6/24/2014	2:00		32.16	
6/24/2014	3:00		32.16	
6/24/2014	4:00			
6/24/2014	5:00		32.12	
6/24/2014	6:00		32.13	
6/24/2014	7:00		32.17	
6/24/2014	8:00		32.18	
6/24/2014	9:00		32.18	

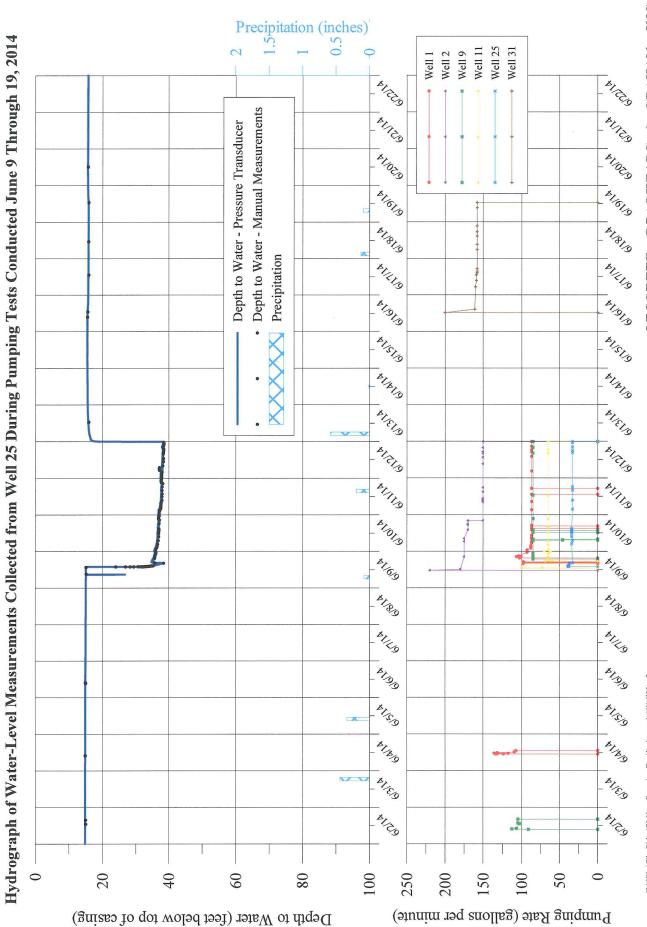
ft btoc feet below top of casing

gpm gallons per minute

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\Well 11.docx

**WELL 25** 

LEGGETTE, BRASHEARS & GRAHAM, INC.



K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well25.grf

LEGGETTE. BRASHEARS & GRAHAM, INC.

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Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
5/29/2014	15:40		14.84	
6/6/2014	10:00		14.99	
6/6/2014	11:00		14.99	
6/6/2014	12:00		14.99	
6/6/2014	13:00		14.99	
6/6/2014	14:00		14.99	
6/6/2014	15:00		15.00	
6/6/2014	16:00		15.00	
6/6/2014	17:00		15.01	
6/6/2014	18:00		15.01	
6/6/2014	19:00		15.01	
6/6/2014	20:00		15.01	
6/6/2014	21:00		15.01	
6/6/2014	22:00		15.02	
6/6/2014	23:00		15.02	
6/7/2014	0:00		15.02	
6/7/2014	1:00		15.01	
6/7/2014	2:00		15.02	
6/7/2014	3:00		15.03	
6/7/2014	4:00		15.02	
6/7/2014	5:00		15.03	
6/7/2014	6:00		15.03	
6/7/2014	7:00		15.04	
6/7/2014	8:00		15.04	
6/7/2014	9:00		15.04	
6/7/2014	10:00		15.04	
6/7/2014	11:00		15.04	
6/7/2014	12:00		15.04	
6/7/2014	13:00		15.05	
6/7/2014	14:00		15.05	
6/7/2014	15:00		15.05	
6/7/2014	16:00		15.05	
6/7/2014	17:00		15.05	
6/7/2014	18:00		15.06	
6/7/2014	19:00		15.06	
6/7/2014	20:00		15.07	
6/7/2014	21:00		15.07	
6/7/2014	22:00		15.07	
6/7/2014	23:00		15.07	
6/8/2014	0:00		15.06	
6/8/2014	1:00		15.07	
6/8/2014	2:00		15.07	
6/8/2014	3:00		15.07	
6/8/2014	4:00		15.07	
6/8/2014	5:00		15.07	
6/8/2014	6:00		15.08	
6/8/2014	7:00		15.08	
6/8/2014	8:00		15.08	
6/8/2014	9:00		15.08	
6/8/2014	10:00		15.08	
6/8/2014	11:00		15.08	
6/8/2014	12:00		15.08	0
6/8/2014	13:00		15.08	
6/8/2014	14:00		15.08	
6/8/2014	15:00		15.09	
6/8/2014	16:00		15.09	
6/8/2014	17:00		15.09	
6/8/2014	18:00		15.10	
6/8/2014	19:00		15.11	
6/8/2014	20:00		15.11	
0/0/2014	20.00			

Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
6/8/2014	21:00		15.12	
6/8/2014	22:00		15.12	
6/8/2014	23:00		15.11	
6/9/2014	0:00		15.11	
6/9/2014	1:00		15.12	
6/9/2014	2:00		15.11	
6/9/2014	3:00		15.12	
6/9/2014	4:00		15.12	
6/9/2014	5:00		15.13	
6/9/2014	6:00		15.13	
6/9/2014	7:00		15.13	
6/9/2014	8:00		15.13	
6/9/2014	9:00		15.24	
6/9/2014	10:00		15.15	
6/9/2014	11:00		15.14	
6/9/2014	11:32		15.13	Pump in Well 2 started.
6/9/2014	12:00		15.13	
6/9/2014	13:00		15.13	
6/9/2014	13:50		15.13	
6/9/2014	13:51	1	22.68	Pump in Well 25 started.
6/9/2014	13:52	2	26.00	
6/9/2014	13:52	3	27.79	Well 25 pumping rate 39 gpm.
6/9/2014	13:54	4	28.78	fren 25 paniping rate 55 gpin
6/9/2014	13:55	5	29.64	
6/9/2014	13:56	6	30.42	
6/9/2014	13:57	7	30.97	
6/9/2014	13:58	8	30.91	
6/9/2014	13:59	9	31.26	
6/9/2014	14:00	10	31.91	
6/9/2014	14:00	11	31.45	
	14:01	12	32.10	
6/9/2014		12	32.54	Well 25 pumping rate 39 gpm.
6/9/2014	14:03 14:04	13	32.32	Weii 25 puniping rate 55 gpm.
6/9/2014 6/9/2014	14:04	14	32.98	
	14:05	20	33.29	
6/9/2014 6/9/2014	14:10	25	33.54	Well 25 pumping rate 38 gpm.
	14:15	30	34.02	Well 25 pumping rate 38 gpm.
6/9/2014		40	34.66	Well 25 pumping rate 38 gpm.
6/9/2014	14:30	50	35.32	Well 25 pumping rate 38 gpm.
6/9/2014	14:40	60	35.73	Well 25 pumping rate 38 gpm.
6/9/2014	14:50	70	36.16	Well 25 pumping rate 38 gpm.
6/9/2014	15:00		36.35	Pump in Well 28 started.
6/9/2014	15:03	73 79	36.56	Pump in Well 28 statted.
6/9/2014	15:09	130	36.56	Well 25 pumping rate 37 gpm.
6/9/2014	16:00			Pumping rate in Well 25 manually reduced to 33 gpm.
6/9/2014	16:21	151	38.44	Well 25 pumping rate 33 gpm.
6/9/2014	17:00	190		Pump in Well 11 started.
6/9/2014	17:24	214	35.09	Well 25 pumping rate 33 gpm.
6/9/2014	18:00	250	35.15	Pump in Well 9 started.
6/9/2014	18:55	305	35.45	Well 25 pumping rate 33 gpm.
6/9/2014	19:00	310	35.36	Pump in Well 1 started.
6/9/2014	19:30	340	35.57	Well 25 pumping rate 33 gpm.
6/9/2014	20:00	370	35.70	
6/9/2014	21:00	430	35.88	Well 25 pumping rate 33 gpm.
6/9/2014	22:00	490	35.70	Well 25 pumping rate 33 gpm.
6/9/2014	23:00	550	35.90	Well 25 pumping rate 33 gpm.
6/10/2014	0:00	610	35.75	Well 25 pumping rate 33 gpm.
6/10/2014	1:00	670	35.95	Well 25 pumping rate 33 gpm.
6/10/2014	2:00	730	36.33	Well 25 pumping rate 33 gpm.
6/10/2014	3:00	790	36.26	Well 25 pumping rate 33 gpm.
6/10/2014	4:00	850	36.41	Well 25 pumping rate 33 gpm.

# Summary of Water-Level Measurements Collected from Well 25 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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6/10/2014         6           6/10/2014         5           6/10/2014         5           6/10/2014         5           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1	5:00 6:00 7:00 8:00	Elapsed Time (minute) 910 970	36.45	Well 25 pumping rate 33 gpm.
6/10/2014         0           6/10/2014         5           6/10/2014         5           6/10/2014         9           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1	6:00 7:00	970		
6/10/2014         2           6/10/2014         8           6/10/2014         9           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1           6/10/2014         1	7:00		36.50	Well 25 pumping rate 33 gpm.
6/10/201486/10/201496/10/201416/10/201416/10/20141		1030	36.59	Well 25 pumping rate 33 gpm.
6/10/201496/10/201416/10/201416/10/20141		1090	36.78	Well 25 pumping rate 33 gpm.
6/10/201416/10/201416/10/20141	9:00	1150	36.84	Well 25 pumping rate 33 gpm.
6/10/2014 1 6/10/2014 1	10:00	1210	36.62	Well 25 pumping rate 33 gpm.
6/10/2014 1	11:00	1270	36.69	Well 25 pumping rate 33 gpm.
	12:00	1330	36.88	Well 25 pumping rate 33 gpm.
<u>ь/10/2014</u>	13:00	1390	36.74	Well 25 pumping rate 33 gpm.
	14:00	1450	36.77	Well 25 pumping rate 33 gpm.
	15:00	1510	36.93	Well 25 pumping rate 33 gpm.
2.1	16:00	1570	36.89	Well 25 pumping rate 33 gpm.
	17:00	1630	36.94	Well 25 pumping rate 33 gpm.
	18:00	1690	37.13	Well 25 pumping rate 33 gpm.
	19:00	1750	37.11	Well 25 pumping rate 33 gpm.
	20:00	1810	37.21	Well 25 pumping rate 33 gpm.
	21:00	1870	36.83	Well 25 pumping rate 33 gpm.
	22:00	1930	36.98	Well 25 pumping rate 33 gpm.
	23:00	1930	36.91	Well 25 pumping rate 33 gpm.
	0:00	2050	37.06	Well 25 pumping rate 33 gpm.
	1:00	2030	36.99	Well 25 pumping rate 33 gpm.
	2:00	2170	37.01	Well 25 pumping rate 33 gpm.
	3:00	2230	37.02	Well 25 pumping rate 33 gpm.
	4:00	2290	37.32	Well 25 pumping rate 33 gpm.
	5:00	2350	37.54	Well 25 pumping rate 33 gpm.
			37.50	Well 25 pumping rate 33 gpm.
	6:00	2410 2470	37.61	Well 25 pumping rate 33 gpm.
	7:00			Well 25 pumping rate 33 gpm.
	8:00	2530	37.63	Well 25 pumping rate 33 gpm.
	9:00	2590	37.81	Well 25 pumping rate 33 gpm.
	10:00	2650	37.74	Well 25 pumping rate 33 gpm.
	11:00	2710	37.74	Well 25 pumping rate 33 gpm.
	12:00	2770	37.78	
	13:00	2830	37.81	Well 25 pumping rate 33 gpm.
	14:00	2890	37.96	Well 25 pumping rate 33 gpm. Well 25 pumping rate 33 gpm.
	15:00	2950	37.88	
	16:00	3010	37.81	Well 25 pumping rate 33 gpm.
	17:00	3070	37.84	Well 25 pumping rate 33 gpm.
	18:00	3130	37.90	Well 25 pumping rate 33 gpm.
	19:00	3190	37.97	Well 25 pumping rate 33 gpm.
and the second se	20:00	3250	37.90	Well 25 pumping rate 33 gpm.
	21:00	3310	37.76	Well 25 pumping rate 33 gpm.
	22:00	3370	37.78	Well 25 pumping rate 33 gpm.
	23:00	3430	37.61	Well 25 pumping rate 33 gpm.
	0:00	3490	37.68	Well 25 pumping rate 33 gpm.
	1:00	3550	37.63	Well 25 pumping rate 33 gpm.
	2:00	3610	37.71	Well 25 pumping rate 33 gpm.
	3:00	3670	37.64	Well 25 pumping rate 33 gpm.
	4:00	3730	37.87	Well 25 pumping rate 33 gpm.
	5:00	3790	37.93	Well 25 pumping rate 33 gpm.
	6:00	3850	38.00	Well 25 pumping rate 33 gpm.
	7:00	3910	38.11	Well 25 pumping rate 33 gpm.
and the second se	8:00	3970	38.02	Well 25 pumping rate 33 gpm.
	9:00	4030	38.02	Well 25 pumping rate 33 gpm.
	10:00	4090	38.21	Well 25 pumping rate 33 gpm.
6/12/2014 1	11:00	4150	38.07	Well 25 pumping rate 33 gpm.
6/12/2014 1	12:00	4210	38.26	Well 25 pumping rate 33 gpm.
6/12/2014 1	13:00	4270	38.11	Well 25 pumping rate 33 gpm.
	14:00	4330	38.28	Well 25 pumping rate 33 gpm.
	15:00	4390	38.17	Well 25 pumping rate 33 gpm.
	16:00	4450	38.17	Well 25 pumping rate 33 gpm.

Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
6/12/2014	17:00	4510	38.25	Well 25 pumping rate 33 gpm.
6/12/2014	18:00	4570	38.23	Well 25 pumping rate 33 gpm.
6/12/2014	19:00	4630	38.29	Well 25 pumping rate 33 gpm.
6/12/2014	20:00	4690	38.05	Well 25 pumping rate 33 gpm.
6/12/2014	21:00	4750	38.02	Well 25 pumping rate 33 gpm.
6/12/2014	22:00	4810	38.46	Well 25 pumping rate 33 gpm.
6/12/2014	23:00	4870	38.43	Well 25 pumping rate 33 gpm.
6/12/2014	23:54	4924	38.47	Well 25 pumping rate 33 gpm.
6/12/2014	23:55	4925	38.52	Well 25 pumping rate 33 gpm.
6/12/2014	23:56		25.68	Pump in Well 25 shut down.
6/12/2014	23:57		21.64	
6/12/2014	23:58		20.96	
6/12/2014	23:59		20.18	
6/13/2014	0:00		19.58	
6/13/2014	0:01		19.13	
6/13/2014	0:02		18.78	
6/13/2014	0:03		18.53	
6/13/2014	0:04		18.32	
6/13/2014	0:05		18.17	
6/13/2014	0:06		18.03	
6/13/2014	0:07		17.92	
6/13/2014	0:08		17.83	
6/13/2014	0:09		17.75	
6/13/2014	0:10		17.66	
6/13/2014	0:15		17.42	
6/13/2014	0:20		17.25	
6/13/2014	0:25		17.13	
6/13/2014	0:30		17.00	
6/13/2014	0:35		16.88	
6/13/2014	0:40		16.82	
6/13/2014	0:45		16.77	
6/13/2014	0:55		16.70	
6/13/2014	1:00		16.68	
6/13/2014	2:00		16.50	
6/13/2014	3:00		16.40 16.26	
6/13/2014	4:00		16.15	
6/13/2014	5:00		16.07	
6/13/2014	6:00		16.01	
6/13/2014	7:00 8:00		15.97	
6/13/2014 6/13/2014	9:00		15.94	
6/13/2014	10:00		15.91	
6/13/2014	11:00		15.88	
6/13/2014	12:00		15.86	
6/13/2014	13:00		15.82	
6/13/2014	14:00		15.80	
6/13/2014	15:00		15.77	
6/13/2014	16:00		15.75	
6/13/2014	17:00		15.73	
6/13/2014	18:00		15.71	
6/13/2014	19:00		15.70	
6/13/2014	20:00		15.69	
6/13/2014	21:00		15.68	
6/13/2014	22:00		15.67	
6/13/2014	23:00		15.67	
6/14/2014	0:00		15.66	
6/14/2014	1:00		15.65	
6/14/2014	2:00		15.64	
6/14/2014	3:00		15.63	
6/14/2014	4:00		15.61	

# Summary of Water-Level Measurements Collected from Well 25 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

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Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
6/14/2014	5:00		15.61	
6/14/2014	6:00		15.60	
6/14/2014	7:00		15.60	
6/14/2014	8:00		15.61	
6/14/2014	9:00		15.61	
6/14/2014	10:00		15.60	
6/14/2014	11:00		15.59	
6/14/2014	12:00		15.60	
6/14/2014	13:00		15.60	
6/14/2014	14:00		15.59	
6/14/2014	15:00		15.59	
6/14/2014	16:00		15.59	
6/14/2014	17:00		15.57	
6/14/2014	18:00		15.57	
6/14/2014	19:00		15.57	
6/14/2014	20:00		15.56	
6/14/2014	21:00		15.57	
6/14/2014	22:00		15.57	
6/14/2014	23:00		15.58	
6/15/2014	0:00		15.57	
6/15/2014	1:00		15.57	
6/15/2014	2:00		15.57	
6/15/2014	3:00		15.56	
	4:00		15.55	
6/15/2014 6/15/2014	4:00 5:00		15.55	
			15.55	
6/15/2014	6:00		15.55	
6/15/2014	7:00		15.55	
6/15/2014	8:00		15.56	
6/15/2014	9:00		15.57	
6/15/2014	10:00			
6/15/2014	11:00		15.57	
6/15/2014	12:00		15.57	
6/15/2014	13:00		15.56	
6/15/2014	14:00		15.57	
6/15/2014	15:00		15.57	
6/15/2014	16:00		15.56	
6/15/2014	17:00		15.56	
6/15/2014	18:00		15.55	
6/15/2014	19:00		15.56	
6/15/2014	20:00		15.56	
6/15/2014	21:00		15.56	
6/15/2014	22:00		15.56	
6/15/2014	23:00		15.56	
6/16/2014	0:00		15.57	
6/16/2014	1:00		15.57	
6/16/2014	2:00		15.57	
6/16/2014	3:00		15.57	
6/16/2014	4:00		15.57	
6/16/2014	5:00		15.56	
6/16/2014	6:00		15.56	
6/16/2014	7:00		15.56	
6/16/2014	8:00		15.56	
6/16/2014	9:00		15.56	
6/16/2014	10:00		15.57	
6/16/2014	11:00		15.57	
6/16/2014	12:00		15.58	
6/16/2014	12:25		15.59	Pump in Well 31 started.
6/16/2014	13:00		15.60	A
6/16/2014	14:00		15.62	
6/16/2014	15:00		15.67	
0/10/2014	1.5.00		1 10.07	

6/16/2014 6/16/2014	16:00 17:00		
6/16/2014 6/16/2014		15.69	
6/16/2014	1/:00 1	 15.71	
	18:00	 15.74	
0/10/2011	19:00	 15.74	
	20:00	 15.76	
	21:00	 15.77	
	22:00	 15.78	
	23:00	 15.79	
6/17/2014	0:00	 15.80	
6/17/2014	1:00	 15.80	
6/17/2014	2:00	 15.81	
	3:00	 15.82	
6/17/2014		 15.82	
6/17/2014	4:00	 15.82	
6/17/2014	5:00	 15.82	
6/17/2014	6:00		
6/17/2014	7:00	 15.82	
6/17/2014	8:00		
6/17/2014	9:00	 15.83	
6/17/2014	10:00	 15.84	
6/17/2014	11:00	 15.83	
6/17/2014	12:00	 15.85	
6/17/2014	13:00	 15.86	
6/17/2014	14:00	 15.86	
6/17/2014	15:00	 15.86	
6/17/2014	16:00	 15.86	
	17:00	 15.87	
6/17/2014	18:00	 15.87	
	19:00	 15.87	
6/17/2014	20:00	 15.87	
6/17/2014	21:00	 15.86	
6/17/2014	22:00	 15.87	
6/17/2014	23:00	 15.87	
6/18/2014	0:00	 15.86	
6/18/2014	1:00	 15.86	
6/18/2014	2:00	 15.88	
6/18/2014	3:00	 15.87	
6/18/2014	4:00	 15.87	
6/18/2014	5:00	 15.86	
6/18/2014	6:00	 15.86	
6/18/2014	7:00	 15.86	
6/18/2014	8:00	 15.86	
6/18/2014	9:00	 15.86	
6/18/2014	10:00	 15.86	
6/18/2014	11:00	 15.87	
6/18/2014	12:00	 15.88	
6/18/2014	13:00	 15.88	
6/18/2014	14:00	 15.89	
6/18/2014	15:00	 15.90	
6/18/2014	16:00	 15.89	
6/18/2014	17:00	 15.90	
6/18/2014	18:00	 15.91	
6/18/2014	19:00	 15.90	
6/18/2014	20:00	 15.91	
6/18/2014	21:00	 15.90	
6/18/2014	22:00	 15.90	
6/18/2014	23:00	 15.90	
6/19/2014	0:00	 15.90	
6/19/2014	1:00	 15.90	
6/19/2014	2:00	 15.90	
6/19/2014	3:00	 15.91	

### Summary of Water-Level Measurements Collected from Well 25 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
6/19/2014	4:00		15.90	
6/19/2014	5:00		15.90	
6/19/2014	6:00		15.90	
6/19/2014	7:00		15.90	
6/19/2014	8:00		15.90	
6/19/2014	9:00	and a second	15.89	
			15.90	
6/19/2014	10:00			
6/19/2014	11:00		15.89	
6/19/2014	12:00		15.89	D
6/19/2014	12:44		15.89	Pump in Well 31 shut down.
6/19/2014	13:00		15.89	
6/19/2014	14:00		15.86	
6/19/2014	15:00		15.83	
6/19/2014	16:00		15.80	
6/19/2014	17:00		15.78	
6/19/2014	18:00		15.77	
6/19/2014	19:00		15.76	
6/19/2014	20:00		15.74	
6/19/2014	21:00		15.73	
6/19/2014	22:00		15.73	
6/19/2014	23:00		15.72	
6/20/2014	0:00		15.71	
6/20/2014	1:00		15.71	
6/20/2014	2:00		15.71	
6/20/2014	3:00		15.71	
6/20/2014	4:00		15.70	
6/20/2014	5:00		15.70	
6/20/2014			15.71	
	6:00		15.71	
6/20/2014	7:00		15.70	
6/20/2014	8:00			
6/20/2014	9:00		15.70	
6/20/2014	10:00		15.70	
6/20/2014	11:00		15.70	
6/20/2014	12:00		15.70	
6/20/2014	13:00		15.71	
6/20/2014	14:00		15.70	
6/20/2014	15:00		15.71	
6/20/2014	16:00		15.71	
6/20/2014	17:00		15.72	
6/20/2014	18:00		15.72	
6/20/2014	19:00		15.72	
6/20/2014	20:00		15.72	
6/20/2014	21:00		15.72	
6/20/2014	22:00		15.72	
6/20/2014	23:00		15.72	
6/21/2014	0:00		15.72	
6/21/2014	1:00		15.73	
6/21/2014	2:00		15.73	
6/21/2014	3:00		15.73	
6/21/2014	4:00		15.73	
6/21/2014	5:00		15.73	
6/21/2014	6:00		15.74	
6/21/2014	7:00		15.74	
			15.73	
6/21/2014	8:00			
6/21/2014	9:00		15.73	
6/21/2014	10:00		15.73	
6/21/2014	11:00		15.73	
6/21/2014	12:00		15.73	
6/21/2014	13:00		15.73	
6/21/2014	14:00		15.74	

#### Summary of Water-Level Measurements Collected from Well 25 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minute)	Depth to Water (ft btoc)	Comments
6/21/2014	15:00		15.74	
6/21/2014	16:00		15.75	
6/21/2014	17:00		15.75	
6/21/2014	18:00		15.76	
6/21/2014	19:00		15.76	
6/21/2014	20:00		15.77	
6/21/2014	21:00		15.77	
6/21/2014	22:00		15.76	
6/21/2014	23:00		15.76	
6/22/2014	0:00		15.77	
6/22/2014	1:00		15.77	
6/22/2014	2:00		15.77	
6/22/2014	3:00		15.77	
6/22/2014	4:00		15.77	
6/22/2014	5:00		15.78	
6/22/2014	6:00		15.78	
6/22/2014	7:00		15.78	
6/22/2014	8:00		15.79	
6/22/2014	9:00		15.78	
6/22/2014	10:00		15.78	
6/22/2014	11:00		15.78	
6/22/2014	12:00		15.78	
6/22/2014	13:00		15.78	
6/22/2014	14:00		15.78	
6/22/2014	15:00		15.78	
6/22/2014	16:00		15.79	
6/22/2014	17:00		15.80	
6/22/2014	18:00		15.81	
6/22/2014	19:00		15.81	
6/22/2014	20:00		15.81	
6/22/2014	21:00		15.81	
6/22/2014	22:00		15.81	
6/22/2014	23:00		15.82	
6/23/2014	0:00		15.82	
6/23/2014	1:00		15.82	
6/23/2014	2:00		15.82	
6/23/2014	3:00		15.82	
6/23/2014	4:00		15.82	
6/23/2014	5:00		15.83	
6/23/2014	6:00		15.83	
6/23/2014	7:00		15.84	
6/23/2014	8:00		15.84	
6/23/2014	9:00		15.83	
6/23/2014	10:00		15.85	
6/23/2014	11:00		15.84	
6/23/2014	12:00		15.84	
6/23/2014	12:00		15.85	
6/23/2014	1		15,65	

ft btoc feet below top of casing

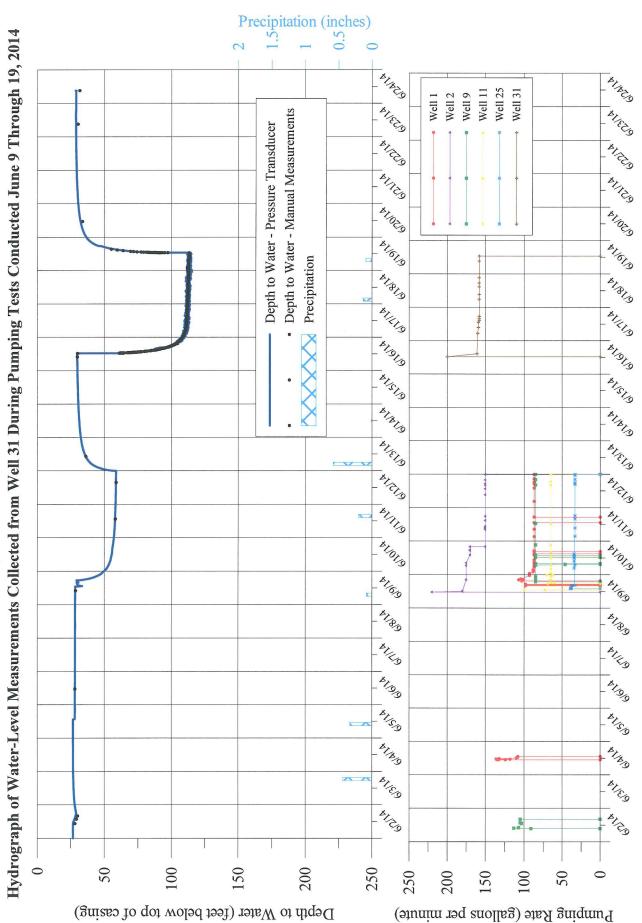
gpm gallons per minute

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\Well 25.docx

**WELL 31** 

LEGGETTE, BRASHEARS & GRAHAM, INC.





LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 31.grf

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
5/28/2014	12:00		111.12	Preliminary test conducted on Well 31.
5/28/2014	16:00		120.01	Preliminary test ended on Well 31.
5/28/2014	20:00		50.13	
5/29/2014	0:00		36.91	
5/29/2014	4:00		31.95	
5/29/2014	8:00		29.64	
5/29/2014	12:00		28.45	
5/29/2014	16:00		38.82	
5/29/2014	20:00		32.49	
5/30/2014	0:00		29.12	
5/30/2014	4:00		27.89	
5/30/2014	8:00		27.37	
5/30/2014	12:00		27.15	
5/30/2014	16:00		27.33	
5/30/2014	20:00		27.28	
5/31/2014	0:00		27.08	
5/31/2014	4:00		26.92	
5/31/2014	8:00		26.82	
5/31/2014	12:00		26.80	
5/31/2014	16:00		26.71	
5/31/2014	20:00		26.70	
6/1/2014	0:00		26.69	
6/1/2014	4:00		26.68	
6/1/2014	8:00		26.66	
6/1/2014	12:00		26.66	
6/1/2014	16:00		26.67	
6/1/2014	20:00		26.63	
6/2/2014	0:00		26.64	
6/2/2014	4:00		26.64	
6/2/2014	8:00		26.64	
6/2/2014	12:00		27.16	
6/2/2014	16:00		28.66	
6/2/2014	20:00		28.64	
6/3/2014	0:00		28.00	
6/3/2014	4:00		27.54	
6/3/2014	8:00		27.27	
6/3/2014	12:00		27.09	
6/3/2014	16:00		26.99	
6/3/2014	20:00		26.80	
6/4/2014	0:00		26.77	
6/4/2014	4:00		26.73	
6/4/2014	8:00		26.72	
6/4/2014	12:00		26.69	
6/4/2014	16:00		26.67	
6/4/2014	20:00		26.65	
6/5/2014	0:00		26.63	
6/5/2014	4:00		26.64	
6/5/2014	8:00		26.63 26.62	
6/5/2014	12:00			
6/5/2014	16:00		28.05 28.05	
6/5/2014	20:00		28.05	
6/6/2014	0:00		28.03	
6/6/2014	4:00		28.02	
6/6/2014	8:00		28.04	
6/6/2014	12:00		28.06	
6/6/2014	16:00		28.09	
6/6/2014	20:00		28.09	
6/7/2014	0:00		28.10	
6/7/2014	8:00		28.15	
6/7/2014	0:00		20.13	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/7/2014	12:00		28.12	
6/7/2014	16:00		28.17	
6/7/2014	20:00		28.15	
6/8/2014	0:00		28.16	
6/8/2014	4:00		28.16	
6/8/2014	8:00		28.18	
6/8/2014	12:00		28.18	
6/8/2014	16:00		28.14	
6/8/2014	20:00		28.16	
6/9/2014	0:00		28.17	
6/9/2014	1:00		28.16	
6/9/2014	2:00		28.17	
6/9/2014	3:00		28.18	
6/9/2014	4:00		28.18	
6/9/2014	5:00		28.18	
6/9/2014	6:00		28.20	
6/9/2014	7:00		28.22	
6/9/2014	8:00		28.21	
6/9/2014	9:00		28.23	
6/9/2014	10:00		28.23	
6/9/2014	11:00		28.23	
6/9/2014	11:32		28.22	Pump started in Well 2.
6/9/2014	12:00		28.21	
6/9/2014	13:00		28.95	
6/9/2014	13:51		30.52	Pump started in Well 25.
6/9/2014	14:00		30.30	
6/9/2014	15:00		29.54	
6/9/2014	15:03		29.53	Pump in Well 28 started.
6/9/2014	15:09		29.48	Pump in Well 28 stopped.
6/9/2014	16:00		29.86	
6/9/2014	17:00		29.33	
6/9/2014	17:24		29.23	Pump started in Well 11.
6/9/2014	18:00		35.22	i unip stated in o'en it.
6/9/2014	18:55		40.02	Pump started in Well 9.
6/9/2014	19:00		40.28	
6/9/2014	19:30		41.99	Pump started in Well 1.
6/9/2014	20:00		43.37	
6/9/2014	21:00		45.60	
6/9/2014	22:00		47.41	
6/9/2014	23:00		48.75	
6/10/2014	0:00		50.04	
6/10/2014	1:00		51.04	
6/10/2014	2:00		51.86	
6/10/2014	3:00		52.55	
6/10/2014	4:00		53.09	
6/10/2014	5:00		53.56	
6/10/2014	6:00		53.98	
6/10/2014	7:00		54.39	
6/10/2014	8:00		54.71	
6/10/2014	9:00		54.89	
6/10/2014	10:00		55.11	
6/10/2014	11:00		55.33	
6/10/2014	12:00		55.58	
6/10/2014	12:00		55.74	
6/10/2014	14:00		55.77	
6/10/2014	15:00		55.85	
6/10/2014	16:00		55.99	
6/10/2014	17:00		56.15	
6/10/2014	18:00		56.30	
6/10/2014	19:00		56.44	
0/10/2014	1 19:00		50.77	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/10/2014	20:00		56.58	
6/10/2014	21:00		56.73	
6/10/2014	22:00		56.85	
6/10/2014	23:00		56.95	
6/11/2014	0:00		57.04	
6/11/2014	1:00		57.15	
6/11/2014	2:00		57.23	
6/11/2014	3:00		57.31	
6/11/2014	4:00		57.36	
6/11/2014	5:00		57.45	
6/11/2014	6:00		57.51	
6/11/2014	7:00		57.60	
6/11/2014	8:00		57.68	
6/11/2014	9:00		57.74	
6/11/2014	10:00		57.80	
6/11/2014	11:00		57.83	
6/11/2014	12:00		57.87	
6/11/2014	13:00		57.91	
6/11/2014	14:00		57.93	
6/11/2014	15:00		57.96	
6/11/2014	16:00		57.98	
6/11/2014	17:00		58.01	
6/11/2014	18:00		58.05	l.
6/11/2014	19:00		58.08	
6/11/2014	20:00		58.11	
6/11/2014	21:00		58.14	
6/11/2014	22:00		58.19	
6/11/2014	23:00		58.22	
6/12/2014	0:00		58.24	
6/12/2014	1:00		58.26	
6/12/2014	2:00		58.29	
6/12/2014	3:00		58.31	
6/12/2014	4:00		58.32	
6/12/2014	5:00		58.34	
6/12/2014	6:00		58.37	
6/12/2014	7:00		58.38	
6/12/2014	8:00		58.43	
6/12/2014	9:00		58.46	
6/12/2014	10:00		58.48	
6/12/2014	11:00		58.50	
6/12/2014	12:00		58.52	
6/12/2014	13:00		58.53	
6/12/2014	14:00		58.53	
6/12/2014	15:00		58.53	
6/12/2014	16:00		58.51	
6/12/2014	17:00		58.51	
6/12/2014	18:00		58.55	
6/12/2014	19:00		58.56	
6/12/2014	20:00		58.57	
6/12/2014	21:00		58.59	
6/12/2014	22:00		58.61	
6/12/2014	23:00		58.60	
6/12/2014	23:51		58.64	End of simultaneous pumping test on Wells 1, 2, 9, 11 and 25.
6/12/2014	23:52		58.65	
6/12/2014	23:53		58.65	
6/12/2014	23:54		58.65	
6/12/2014	23:55		58.65	
6/12/2014	23:56		58.65	
6/12/2014	23:57		58.56	
6/12/2014	23:58		58.36	

### Summary of Water-Level Measurements Collected from Well 31 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/12/2014	23:59		58.08	
6/13/2014	0:00		57.78	
6/13/2014	1:00		49.96	
6/13/2014	2:00		46.19	
6/13/2014	3:00		43.61	
6/13/2014	4:00		41.69	
6/13/2014	5:00		40.19	
6/13/2014	6:00		39.02	
6/13/2014	7:00		38.06	
6/13/2014	8:00		37.30	
6/13/2014	9:00		36.65	
6/13/2014	10:00		36.09	
6/13/2014	11:00		35.61	
6/13/2014	12:00		35.18	
6/13/2014	13:00		34.80	
6/13/2014	14:00		34.43	
6/13/2014	15:00		34.11	
6/13/2014	16:00		33.83	
6/13/2014	17:00		33.55	
6/13/2014	18:00		33.31	
6/13/2014	19:00		33.10	
6/13/2014	20:00		32.91	
6/13/2014	21:00		32.74	
6/13/2014	22:00		32.56	
6/13/2014	23:00		32.42	
6/14/2014	0:00		32.29	
6/14/2014	1:00		32.14	
6/14/2014	2:00		32.01	
6/14/2014	3:00		31.89	
6/14/2014	4:00		31.76	
6/14/2014	5:00		31.66	
6/14/2014	6:00		31.56	
6/14/2014	7:00		31.49	
6/14/2014	8:00		31.42	
6/14/2014	9:00		31.35	
6/14/2014	10:00		31.25	
6/14/2014	11:00		31.21	
6/14/2014	12:00		31.11	
6/14/2014	13:00		31.07	
6/14/2014	14:00		31.01	
6/14/2014	15:00		30.94	
6/14/2014	16:00		30.87	
6/14/2014	17:00		30.76	
6/14/2014	18:00		30.70	
6/14/2014	19:00		30.64	
6/14/2014	20:00		30.59	
6/14/2014	21:00		<u>30.54</u> <u>30.49</u>	
6/14/2014	22:00			
6/14/2014	23:00		30.46 30.42	
6/15/2014	0:00		30.42	
6/15/2014	1:00		30.42	
6/15/2014	2:00		30.34	
6/15/2014	3:00		30.31	
6/15/2014	4:00		30.26	
6/15/2014	5:00		30.23	
6/15/2014	6:00		30.19	
6/15/2014	7:00		30.20	
6/15/2014	8:00 9:00		30.16	
6/15/2014			30.11	
6/15/2014	10:00		50.12	

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/15/2014	11:00		30.10	
6/15/2014	12:00		30.03	
6/15/2014	13:00		30.03	
6/15/2014	14:00		29.99	
6/15/2014	15:00		29.97	
6/15/2014	16:00		29.94	
6/15/2014	17:00		29.94	
6/15/2014	18:00		29.87	
6/15/2014	19:00		29.83	
6/15/2014	20:00		29.83	
6/15/2014	21:00		29.77	
6/15/2014	22:00		29.76	
6/15/2014	23:00		29.79	
6/16/2014	0:00		29.77	
6/16/2014	1:00		29.75	
6/16/2014	2:00		29.75	
6/16/2014	3:00		29.73	
6/16/2014	4:00		29.68	
6/16/2014	5:00		29.66	
6/16/2014	6:00		29.67	
6/16/2014	7:00		29.66	
6/16/2014	8:00		29.64	
6/16/2014	9:00		29.63	
6/16/2014	10:00		29.61	
6/16/2014	11:00		29.61	
6/16/2014	12:00	1	29.55	
6/16/2014	12:24		29.53	
6/16/2014	12:25	1	52.79	Pump in Well 31 started.
6/16/2014	12:26	2	59.63	Initial pumping rate for Well 31 200 gpm.
6/16/2014	12:27	3	61.95	Pumping rate adjustment completed on Well 31.
6/16/2014	12:28	. 4	62.41	
6/16/2014	12:29	5	64.10	
6/16/2014	12:30	6	63.48	
6/16/2014	12:31	7	60.23	Well 31 pumping rate 160 gpm.
6/16/2014	12:32	8	60.56	
6/16/2014	12:33	9	60.63	
6/16/2014	12:34	10	60.93	
6/16/2014	12:35	11	61.21	
6/16/2014	12:36	12	60.92	
6/16/2014	12:37	13	62.22 61.34	
6/16/2014	12:38	14	62.16	
6/16/2014	12:39	15	63.91	Well 31 pumping rate 160 gpm.
6/16/2014	12:40	16	65.86	wen 51 pumping fate 100 gpm.
6/16/2014	12:45	21	66.64	Well 31 pumping rate 160 gpm.
6/16/2014	12:50	26	67.75	wen 51 pumping fate 100 gpm.
6/16/2014	12:55	31	69.43	Well 31 pumping rate 160 gpm.
6/16/2014 6/16/2014	13:00 13:05	41	72.15	tren 51 pumping fate 100 gpm.
6/16/2014	13:05	41 46	71.77	Well 31 pumping rate 160 gpm.
6/16/2014	13:10	51	73.23	there are branching rate too Bhur
6/16/2014	13:25	61	75.46	Well 31 pumping rate 160 gpm.
6/16/2014	13:25	71	77.52	Well 31 pumping rate 160 gpm.
6/16/2014	13:45	81	79.66	Well 31 pumping rate 160 gpm.
6/16/2014	13:55	91	80.85	Well 31 pumping rate 160 gpm.
6/16/2014	14:00	96	82.68	Well 31 pumping rate 160 gpm.
6/16/2014	15:00	156	89.88	Well 31 pumping rate 160 gpm.
6/16/2014	16:00	216	90.34	Well 31 pumping rate 160 gpm.
6/16/2014	17:00	272	98.11	Well 31 pumping rate 160 gpm.
6/16/2014	18:00	332	101.58	Well 31 pumping rate 160 gpm.
6/16/2014	19:00	392	102.96	Well 31 pumping rate 160 gpm.
0/10/2014	17.00	574	102.90	the second secon

### Summary of Water-Level Measurements Collected from Well 31 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/16/2014	20:00	452	104.42	Well 31 pumping rate 160 gpm.
6/16/2014	21:00	512	105.79	Well 31 pumping rate 160 gpm.
6/16/2014	22:00	572	106.44	Well 31 pumping rate 160 gpm.
6/16/2014	23:00	632	106.90	Well 31 pumping rate 160 gpm.
6/17/2014	0:00	692	109.81	Well 31 pumping rate 160 gpm.
6/17/2014	1:00	752	109.30	Well 31 pumping rate 160 gpm.
6/17/2014	2:00	812	109.92	Well 31 pumping rate 160 gpm.
6/17/2014	3:00	872	109.99	Well 31 pumping rate 160 gpm.
6/17/2014	4:00	932	112.29	Well 31 pumping rate 160 gpm.
6/17/2014	5:00	992	110.75	Well 31 pumping rate 160 gpm.
6/17/2014	6:00	1052	111.16	Well 31 pumping rate 160 gpm.
6/17/2014	7:00	1112	112.20	Well 31 pumping rate 160 gpm.
6/17/2014	8:00	1172	112.15	Well 31 pumping rate 160 gpm.
6/17/2014	9:00	1232	109.74	Well 31 pumping rate 159 gpm.
6/17/2014	10:00	1292	111.46	Well 31 pumping rate 159 gpm.
6/17/2014	11:00	1352	111.43	Well 31 pumping rate 159 gpm.
6/17/2014	12:00	1412	111.81	Well 31 pumping rate 159 gpm.
6/17/2014	13:00	1472	110.84	Well 31 pumping rate 159 gpm.
6/17/2014	14:00	1532	111.90	Well 31 pumping rate 159 gpm.
6/17/2014	15:00	1592	111.96	Well 31 pumping rate 158 gpm.
6/17/2014	16:00	1652	112.44	Well 31 pumping rate 158 gpm.
6/17/2014	17:00	1712	111.25	Well 31 pumping rate 158 gpm.
6/17/2014	18:00	1772	111.66	Well 31 pumping rate 158 gpm.
6/17/2014	19:00	1832	111.12	Well 31 pumping rate 158 gpm.
6/17/2014	20:00	1892	112.40	Well 31 pumping rate 158 gpm.
6/17/2014	21:00	1952	111.94	Well 31 pumping rate 158 gpm.
6/17/2014	22:00	2012	113.23	Well 31 pumping rate 158 gpm.
6/17/2014	23:00	2072	112.91	Well 31 pumping rate 158 gpm.
6/18/2014	0:00	2132	112.63	Well 31 pumping rate 158 gpm.
6/18/2014	1:00	2192	112.59	Well 31 pumping rate 158 gpm.
6/18/2014	2:00	2252	112.02	Well 31 pumping rate 158 gpm.
6/18/2014	3:00	2312	112.13	Well 31 pumping rate 158 gpm.
6/18/2014	4:00	2372	112.62	Well 31 pumping rate 158 gpm. Well 31 pumping rate 158 gpm.
6/18/2014	5:00	2432	113.29	Well 31 pumping rate 158 gpm.
6/18/2014	6:00	2492	113.18 112.22	Well 31 pumping rate 158 gpm.
6/18/2014	7:00	2552	112.22	Well 31 pumping rate 158 gpm.
6/18/2014	8:00 9:00	2612 2672	110.58	Well 31 pumping rate 158 gpm.
6/18/2014	10:00	2732	112.43	Well 31 pumping rate 158 gpm.
6/18/2014 6/18/2014	11:00	2792	112.45	Well 31 pumping rate 158 gpm.
6/18/2014	12:00	2852	112.32	Well 31 pumping rate 158 gpm.
6/18/2014	13:00	2912	112.90	Well 31 pumping rate 158 gpm.
6/18/2014	14:00	2972	113.33	Well 31 pumping rate 158 gpm.
6/18/2014	15:00	3032	112.77	Well 31 pumping rate 158 gpm.
6/18/2014	16:00	3092	113.28	Well 31 pumping rate 158 gpm.
6/18/2014	17:00	3152	112.30	Well 31 pumping rate 158 gpm.
6/18/2014	18:00	3212	113.19	Well 31 pumping rate 158 gpm.
6/18/2014	19:00	3272	113.40	Well 31 pumping rate 158 gpm.
6/18/2014	20:00	3332	113.38	Well 31 pumping rate 158 gpm.
6/18/2014	21:00	3392	113.55	Well 31 pumping rate 158 gpm.
6/18/2014	22:00	3452	112.88	Well 31 pumping rate 158 gpm.
6/18/2014	23:00	3512	113.95	Well 31 pumping rate 158 gpm.
6/19/2014	0:00	3572	114.68	Well 31 pumping rate 158 gpm.
6/19/2014	1:00	3632	113.47	Well 31 pumping rate 158 gpm.
6/19/2014	2:00	3692	112.87	Well 31 pumping rate 158 gpm.
6/19/2014	3:00	3752	113.55	Well 31 pumping rate 158 gpm.
6/19/2014	4:00	3812	113.12	Well 31 pumping rate 158 gpm.
6/19/2014	5:00	3872	113.65	Well 31 pumping rate 158 gpm.
6/19/2014	6:00	3932	113.55	Well 31 pumping rate 158 gpm.
6/19/2014	7:00	3992	113.18	Well 31 pumping rate 158 gpm.

### Summary of Water-Level Measurements Collected from Well 31 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/19/2014	8:00	4052	113.30	Well 31 pumping rate 158 gpm.
6/19/2014	9:00	4112	113.22	Well 31 pumping rate 158 gpm.
6/19/2014	10:00	4172	112.34	Well 31 pumping rate 158 gpm.
6/19/2014	11:00	4232	114.41	Well 31 pumping rate 158 gpm.
6/19/2014	12:00	4292	112.23	Well 31 pumping rate 158 gpm.
6/19/2014	12:43	4335	114.46	Well 31 pumping rate 158 gpm.
6/19/2014	12:44	4336	112.63	Well 31 pumping rate 158 gpm.
6/19/2014	12:45		103.84	Pump in Well 31 shut down.
6/19/2014	12:46		97.19	
6/19/2014	12:47		95.00	
6/19/2014	12:48		93.37	
6/19/2014	12:49		92.07	
6/19/2014	12:50		90.96	
6/19/2014	12:51		89.98	
6/19/2014	12:52		89.10	
6/19/2014	12:53		88.29	
6/19/2014	12:54		87.54	
6/19/2014	12:55		86.84	
6/19/2014	12:56		86.19	
6/19/2014	12:57		85.60	
6/19/2014	12:58		84.99	
6/19/2014	12:59		84.44	
6/19/2014	13:00		83.93	
6/19/2014	13:05		81.53	
6/19/2014	13:10		79.48	
6/19/2014	13:15		77.71	
6/19/2014	13:20		76.10	
6/19/2014	13:25		74.63	
6/19/2014	13:30		73.27	
6/19/2014	13:35		72.02	
6/19/2014	13:40	,	70.88	
6/19/2014	13:50		68.75	
6/19/2014	14:00		66.82	
6/19/2014	15:00		58.37	
6/19/2014	16:00		52.86	
6/19/2014	17:00		49.04	
6/19/2014	18:00		44.02	
6/19/2014	19:00		41.87	
6/19/2014	20:00		40.18	
6/19/2014	21:00		38.85	
6/19/2014	22:00		37.77	
6/19/2014	23:00		36.89 36.09	
6/20/2014	0:00			
6/20/2014	1:00		35.47 34.95	
6/20/2014	2:00		34.95	
6/20/2014	3:00		34.46	
6/20/2014	4:00		33.67	
6/20/2014 6/20/2014	5:00 6:00		33.67	
6/20/2014	100 A 100		32.99	
6/20/2014	7:00		32.99	
6/20/2014	9:00		32.43	
6/20/2014	10:00		32.20	
6/20/2014	11:00		31.97	
6/20/2014	12:00		31.76	
6/20/2014	12:00		31.58	
6/20/2014	14:00		31.41	
6/20/2014	15:00		31.25	
6/20/2014	16:00		31.11	
6/20/2014	17:00		30.97	
012012014	17.00		50.77	

### Summary of Water-Level Measurements Collected from Well 31 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/20/2014	18:00	/	30.85	
6/20/2014	19:00		30.75	
6/20/2014	20:00		30.63	
6/20/2014	21:00		30.53	
6/20/2014	22:00		30.43	
6/20/2014	23:00		30.33	
6/20/2014	0:00		30.24	
6/21/2014	1:00		30.17	
6/21/2014	2:00		30.09	
			30.09	
6/21/2014	3:00		29.98	
6/21/2014	4:00		29.98	
6/21/2014	5:00		29.90	
6/21/2014	6:00			
6/21/2014	7:00		29.80	
6/21/2014	8:00		29.75	
6/21/2014	9:00		29.70	
6/21/2014	10:00		29.63	
6/21/2014	11:00		29.57	
6/21/2014	12:00		29.50	
6/21/2014	13:00		29.45	
6/21/2014	14:00		29.41	
6/21/2014	15:00		29.35	
6/21/2014	16:00		29.33	
6/21/2014	17:00		29.28	
6/21/2014	18:00		29.25	
6/21/2014	19:00		29.21	
6/21/2014	20:00		29.18	
6/21/2014	21:00		29.19	
6/21/2014	22:00		29.13	
6/21/2014	23:00		29.09	
6/22/2014	0:00		29.06	
6/22/2014	1:00		29.02	
6/22/2014	2:00		29.00	
6/22/2014	3:00		28.98	
6/22/2014	4:00		28.96	
6/22/2014	5:00		28.95	
6/22/2014	6:00		28.93	
6/22/2014	7:00		28.92	
6/22/2014	8:00		28.90	
6/22/2014	9:00		28.88	
6/22/2014	10:00		28.86	
6/22/2014	11:00		28.84	
6/22/2014	12:00		28.85	
6/22/2014	13:00		28.77	
6/22/2014	14:00		28.76	
6/22/2014	15:00		28.72	
6/22/2014	16:00		28.74	
6/22/2014	17:00		28.73	
6/22/2014	18:00		28.72	
6/22/2014	19:00		28.72	
6/22/2014	20:00		28.67	
6/22/2014	21:00		28.66	
6/22/2014	22:00		28.65	
6/22/2014	23:00		28.65	
6/23/2014	0:00		28.63	
6/23/2014	1:00	,	28.62	
6/23/2014	2:00		28.61	
6/23/2014	3:00		28.63	
6/23/2014	4:00		28.63	
6/23/2014	5:00		28.63	
	1 5.00		20.05	

#### Summary of Water-Level Measurements Collected from Well 31 During 72-Hour Pumping Tests Conducted June 9 Through June 19, 2014

Date	Time	Elapsed Time (minutes)	Depth to Water (ft btoc)	Comments
6/23/2014	6:00		28.60	
6/23/2014	7:00		28.59	
6/23/2014	8:00		28.63	
6/23/2014	9:00		28.60	
6/23/2014	10:00		28.63	
6/23/2014	11:00		28.57	
6/23/2014	12:00		28.60	
6/23/2014	13:00		28.53	
6/23/2014	14:00	,	28.54	
6/23/2014	15:00		28.54	
6/23/2014	16:00		28.56	
6/23/2014	17:00		28.55	
6/23/2014	18:00		28.59	
6/23/2014	19:00		28.62	
6/23/2014	20:00		28.64	
6/23/2014	21:00		28.65	
6/23/2014	22:00		28.65	
6/23/2014	23:00		28.70	
6/24/2014	0:00		28.66	
6/24/2014	1:00		28.69	
6/24/2014	2:00		28.65	
6/24/2014	3:00		28.69	
6/24/2014	4:00		28.65	
6/24/2014	5:00		28.64	
6/24/2014	6:00		28.65	
6/24/2014	7:00		28.70	
6/24/2014	8:00		28.66	
6/24/2014	9:00		28.37	

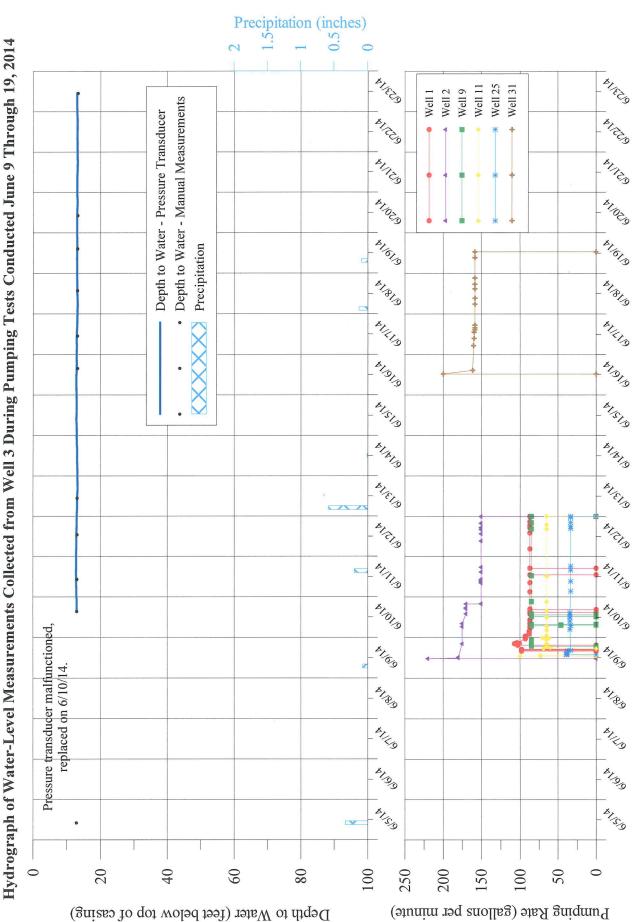
ft btoc feet below top of casing

gpm gallons per minute

K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\Well 31.docx

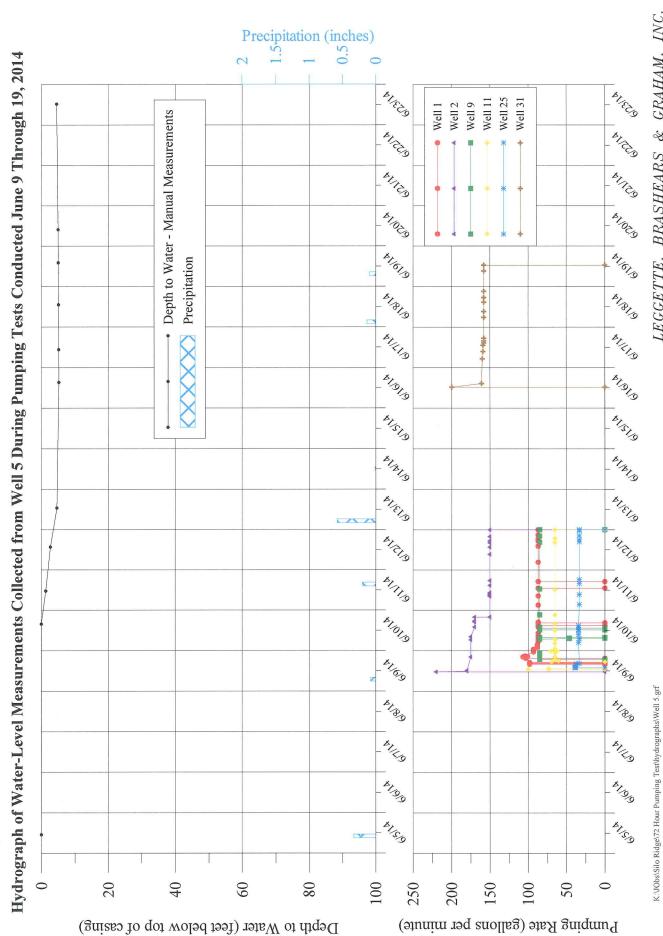
# **APPENDIX III**

LEGGETTE, BRASHEARS & GRAHAM, INC.

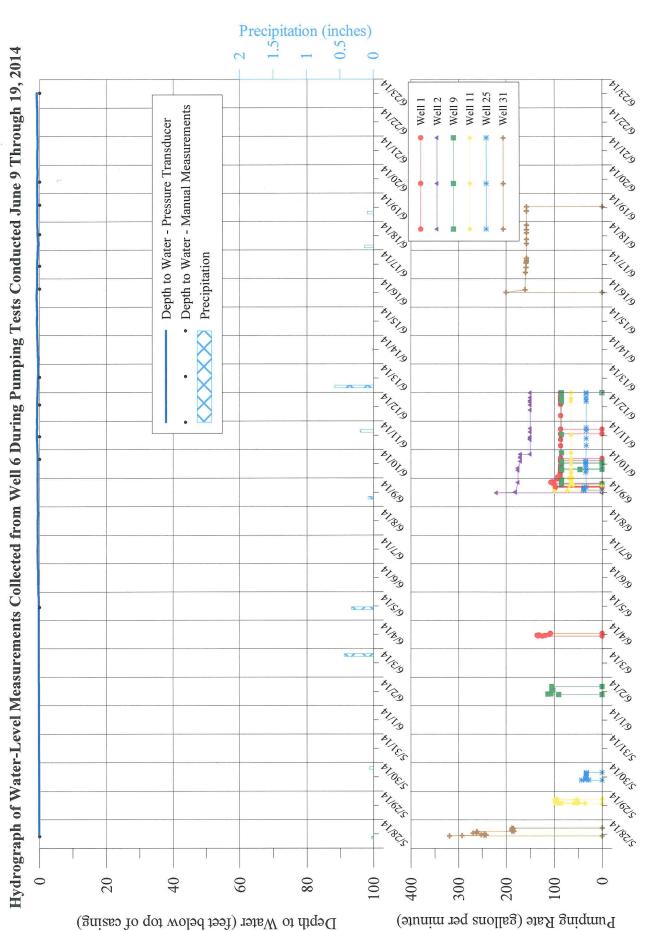


LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well 3.grf



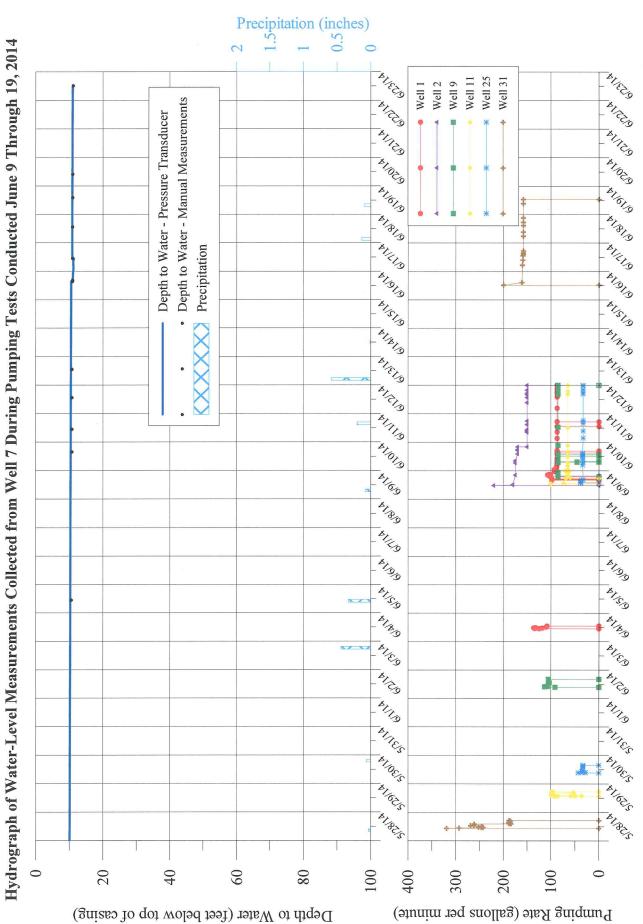
LEGGETTE. BRASHEARS & GRAHAM, INC.



LEGGETTE. BRASHEARS & GRAHAM, INC.

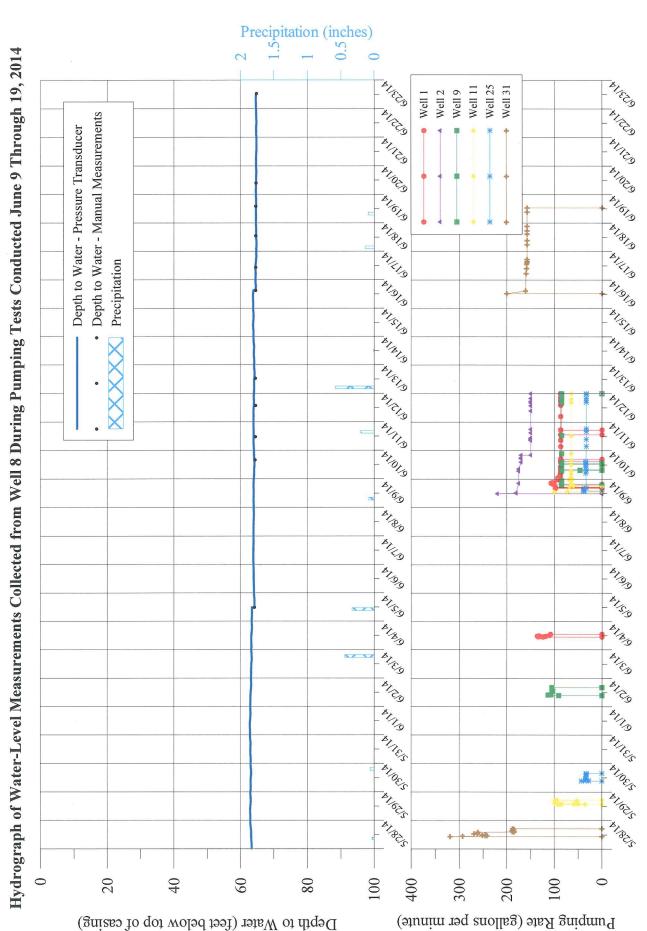
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LEGGETTE. BRASHEARS & GRAHAM, INC.

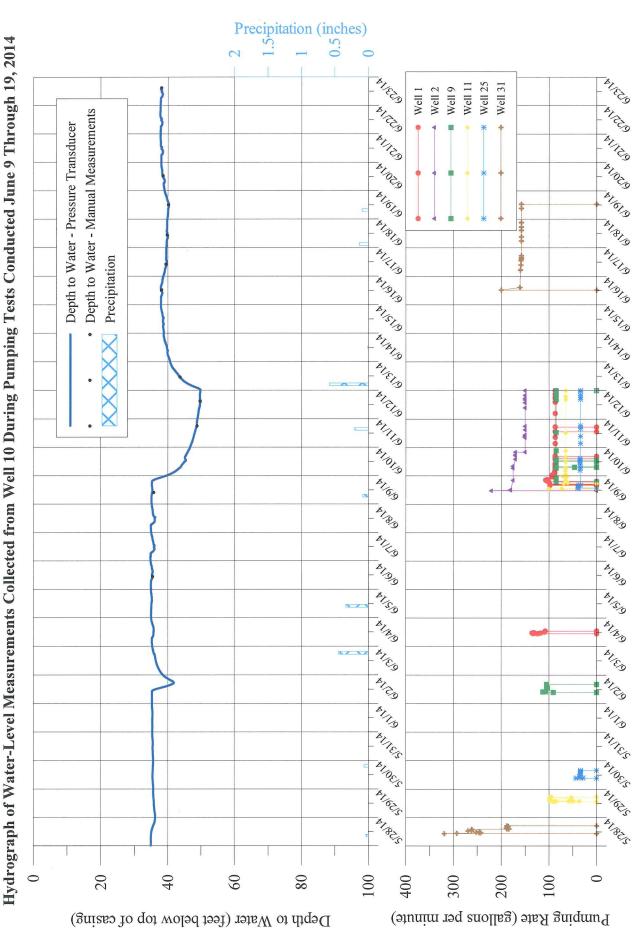
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LEGGETTE. BRASHEARS & GRAHAM, INC.

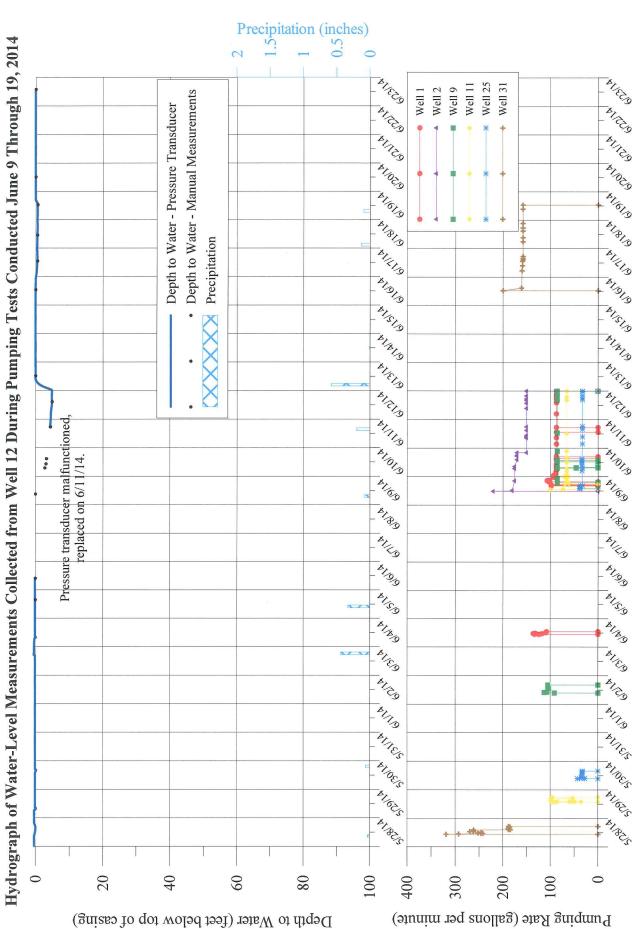
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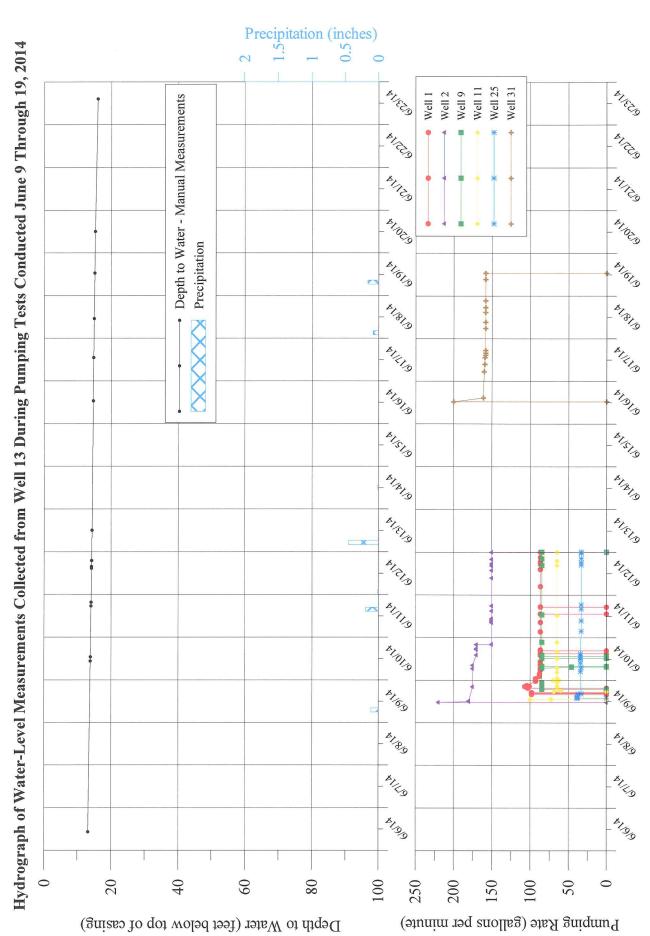
LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Well10.grf



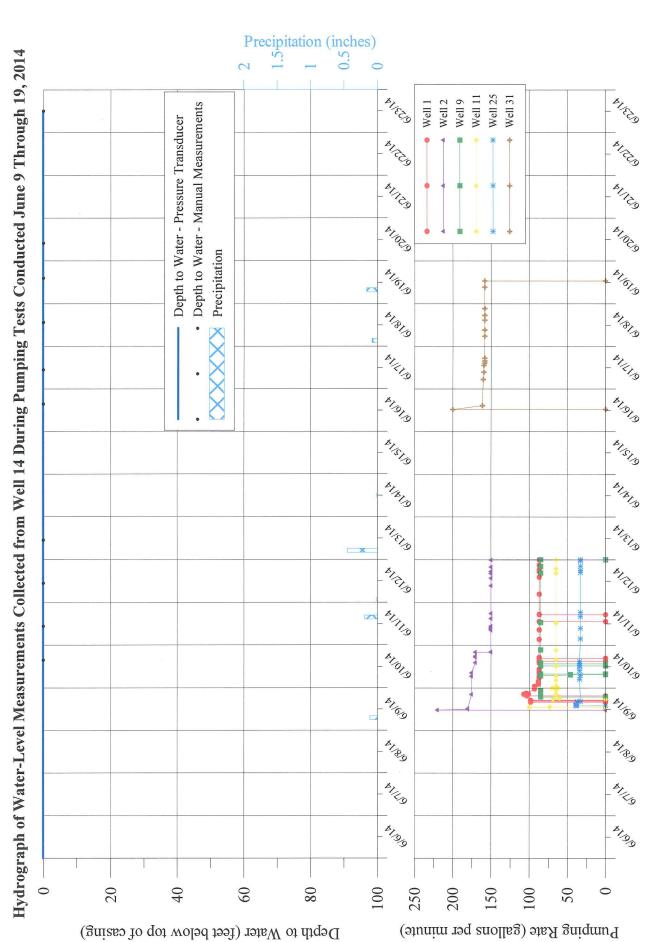
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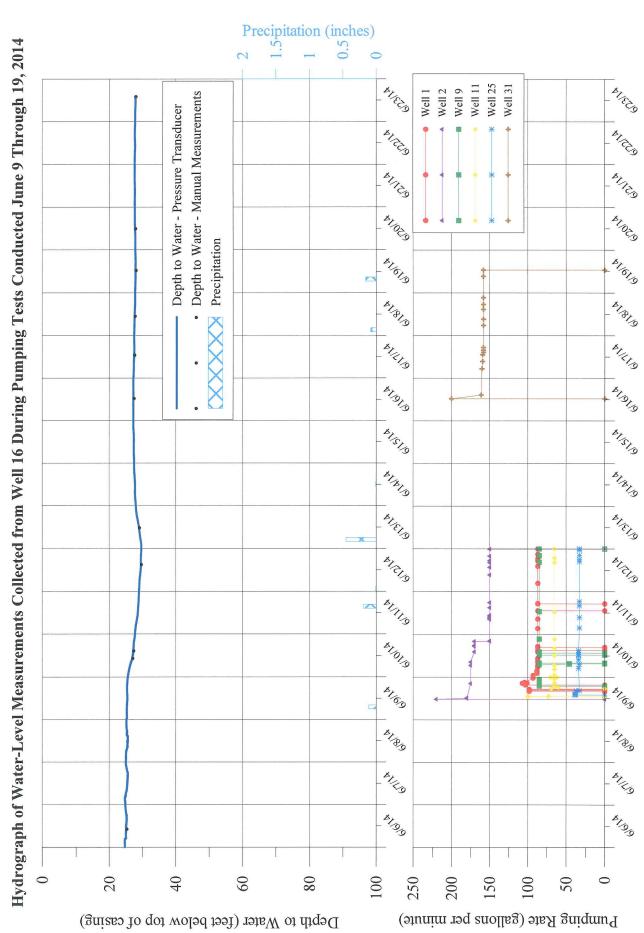
LEGGETTE. BRASHEARS & GRAHAM, INC.

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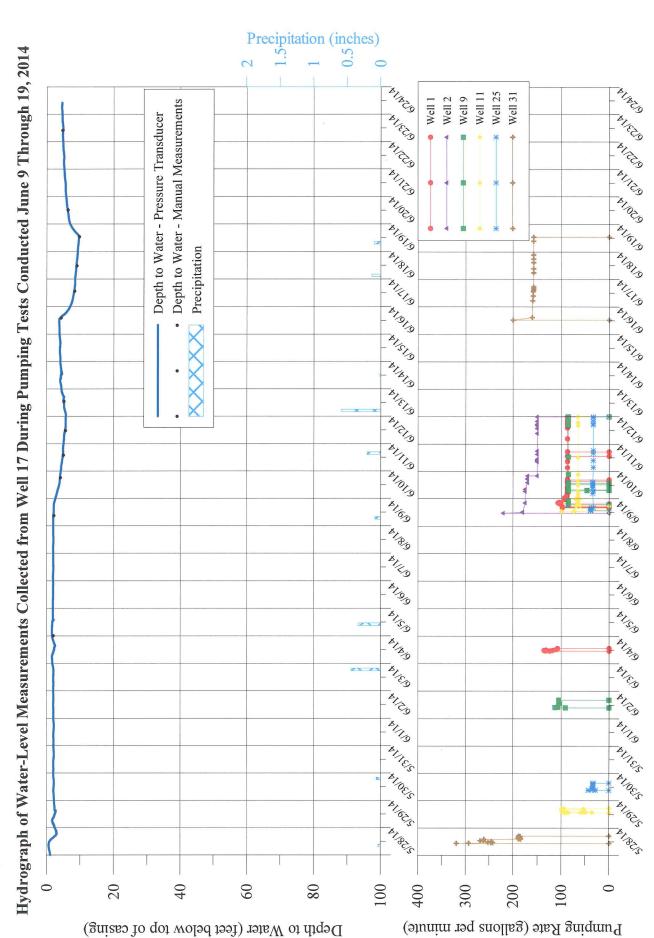
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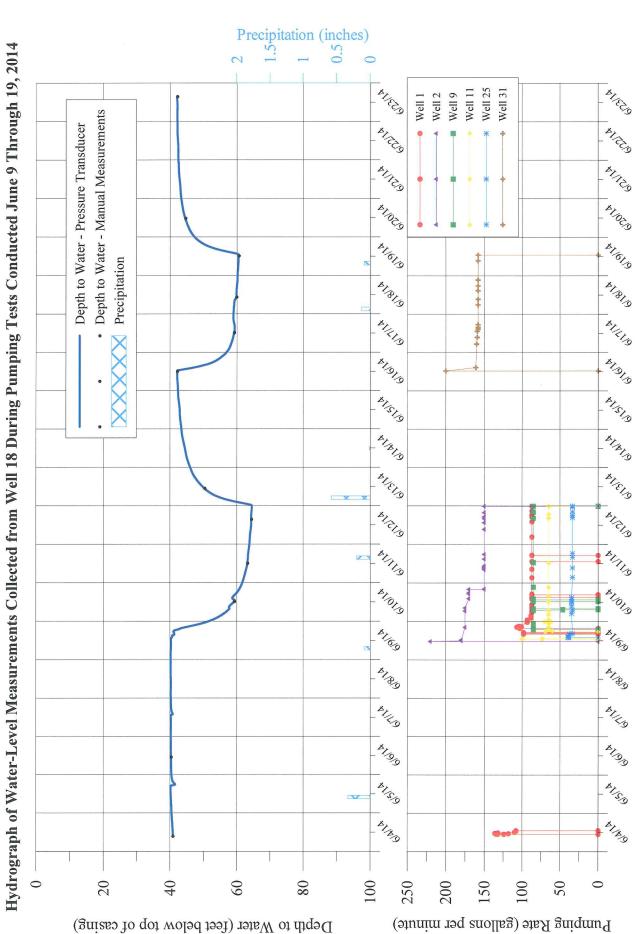


LEGGETTE. BRASHEARS & GRAHAM, INC.

K: VObs/Silo Ridge/72 Hour Pumping Test/hydrographs/Well16.grf



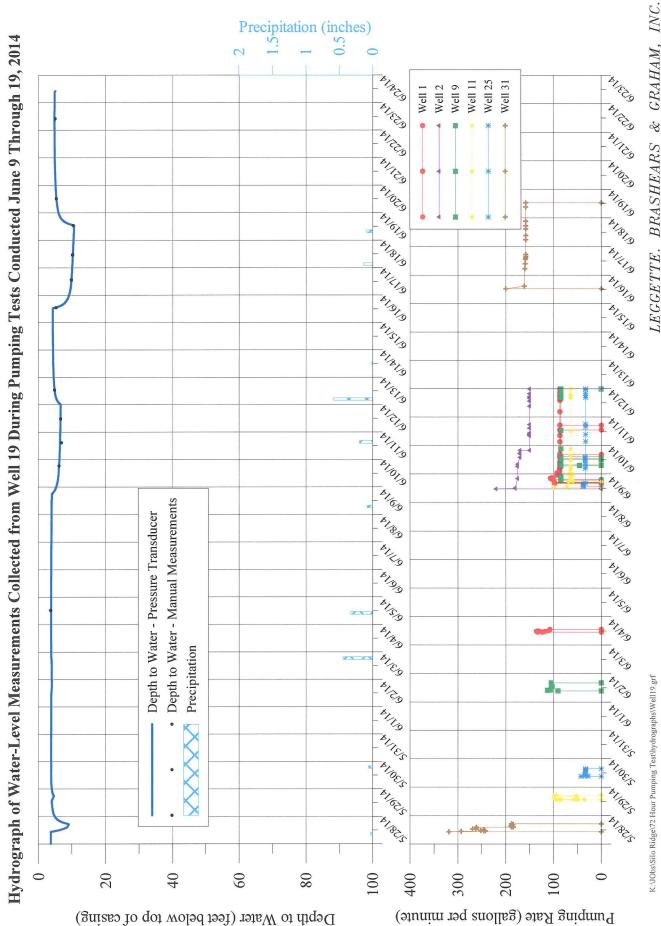
LEGCETTE. BRASHEARS & GRAHAM, INC.



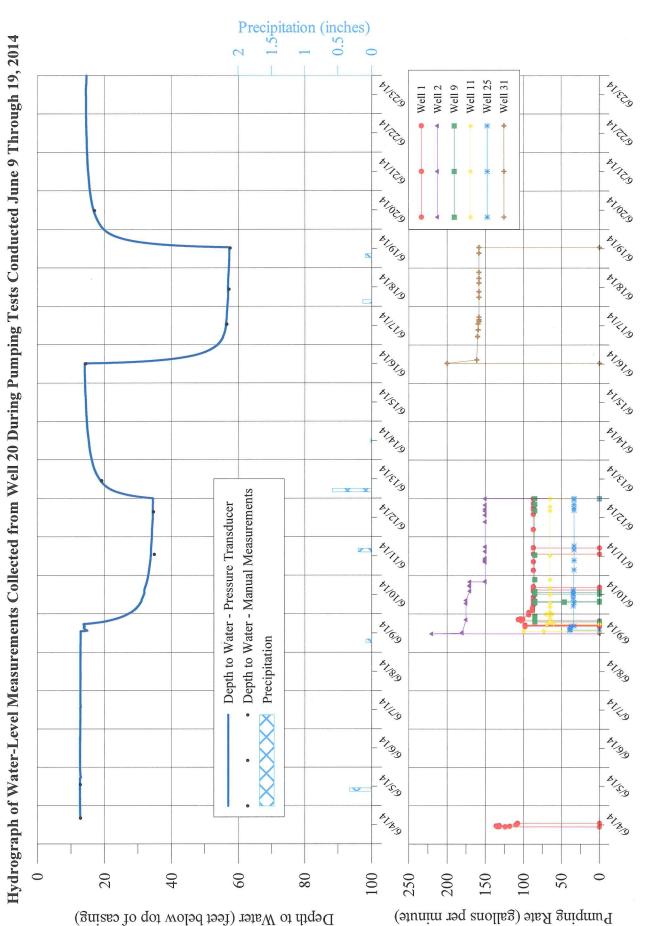
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LEGGETTE. BRASHEARS & GRAHAM, INC.

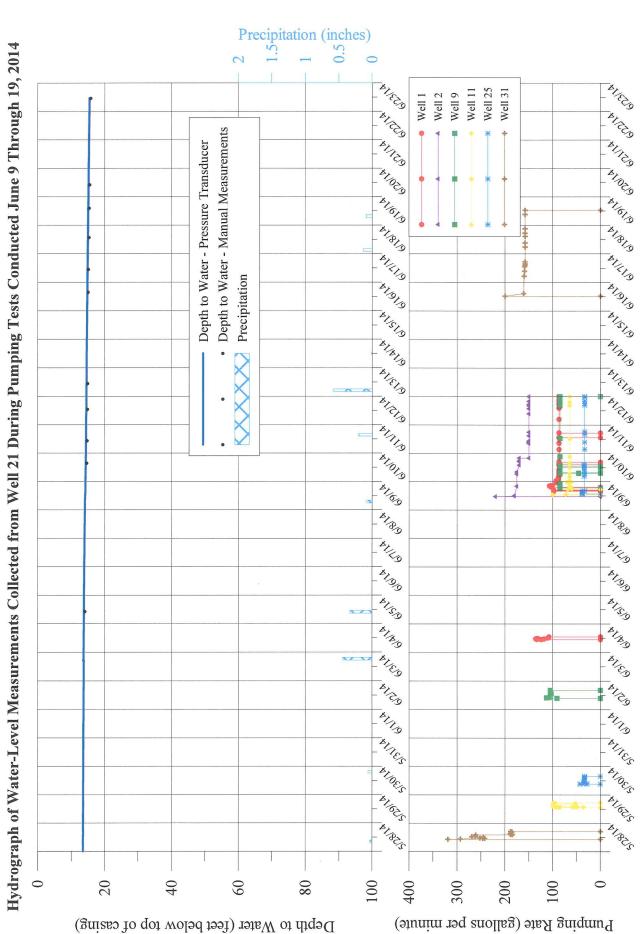




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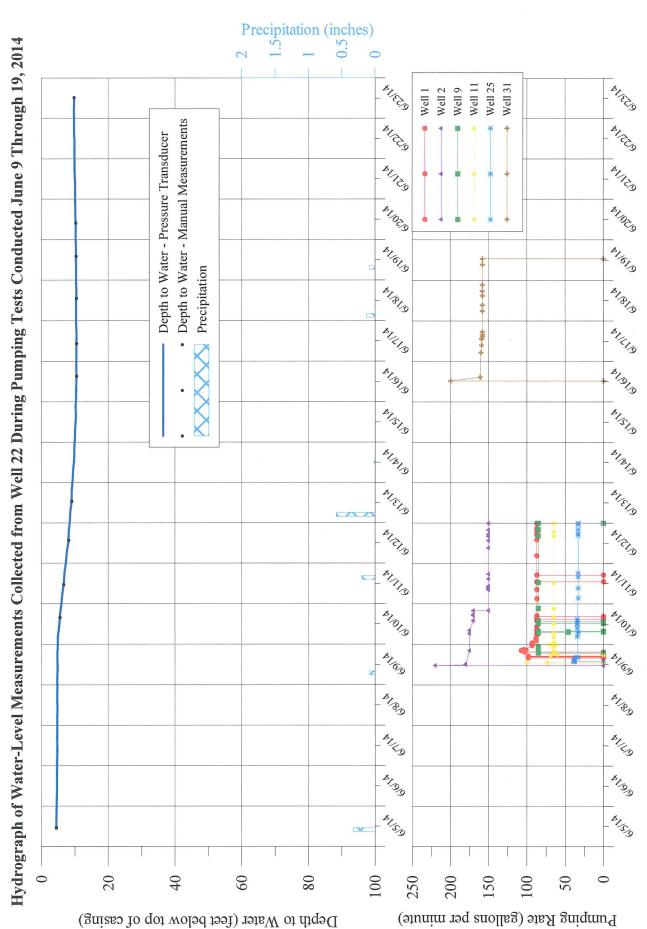


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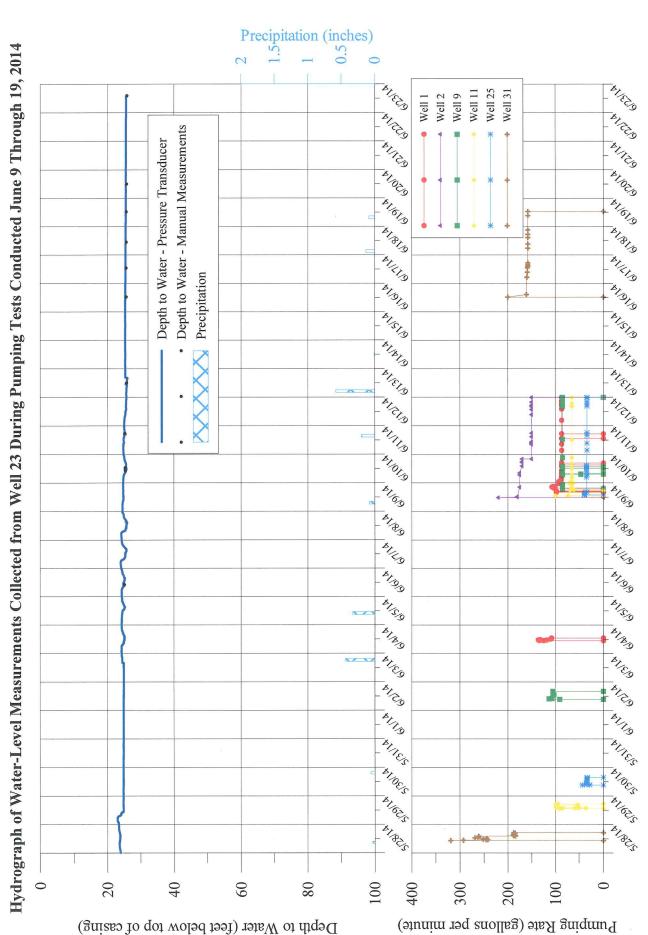


LEGGETTE. BRASHEARS & GRAHAM, INC.

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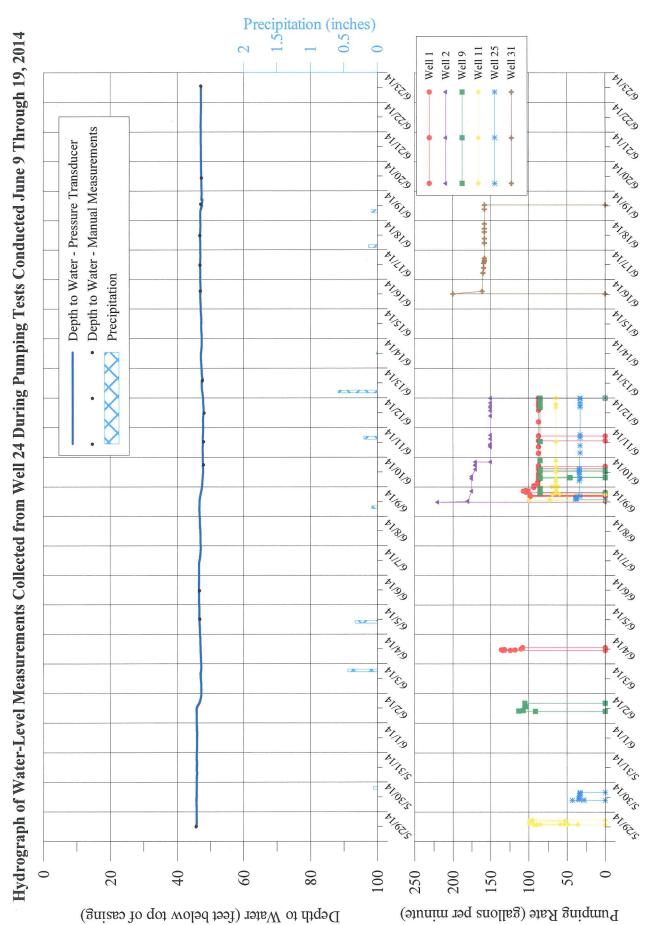
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LEGGETTE. BRASHEARS & GRAHAM, INC.

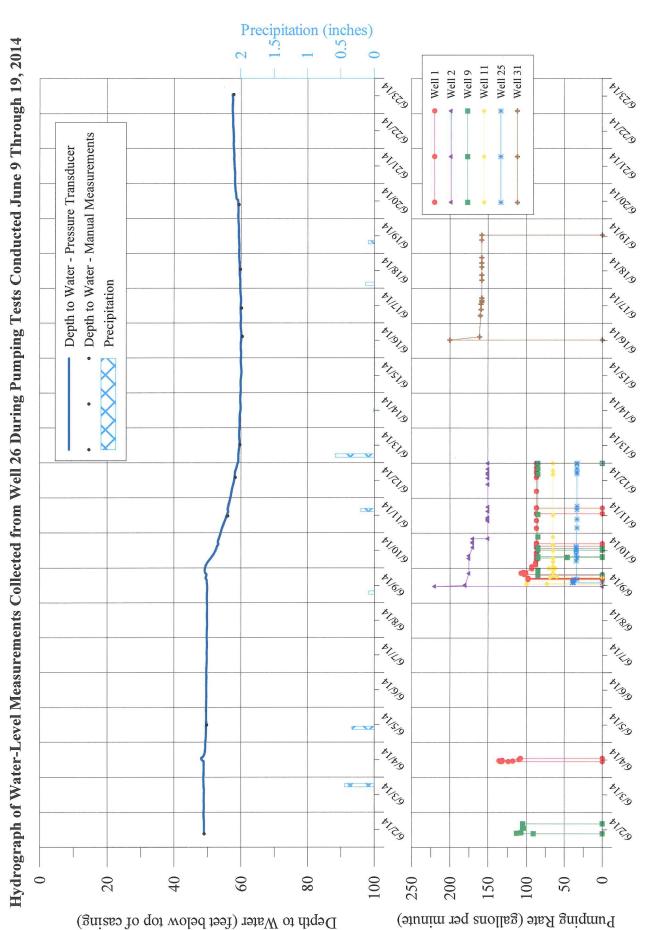
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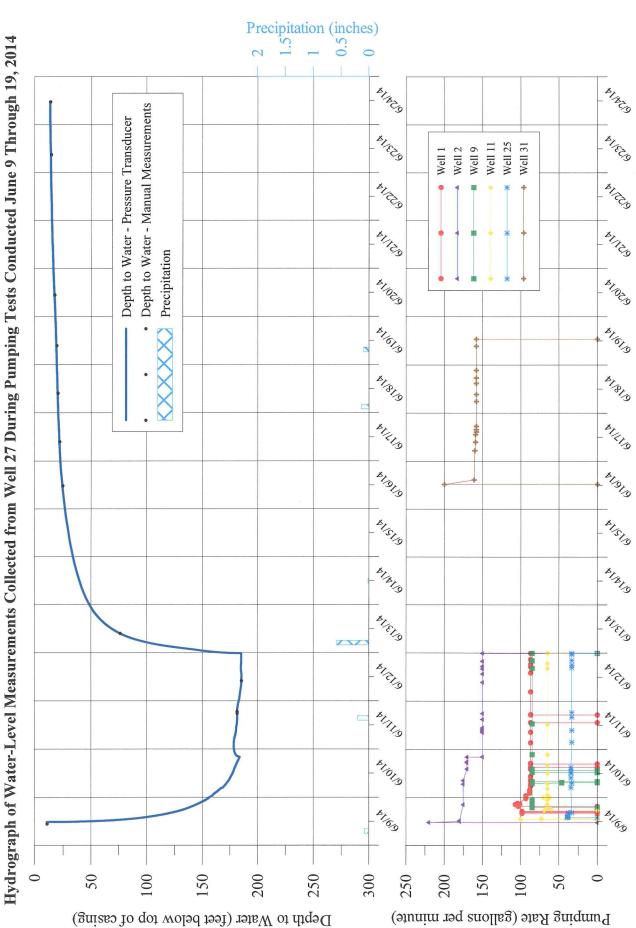
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LEGGETTE. BRASHEARS & GRAHAM, INC.

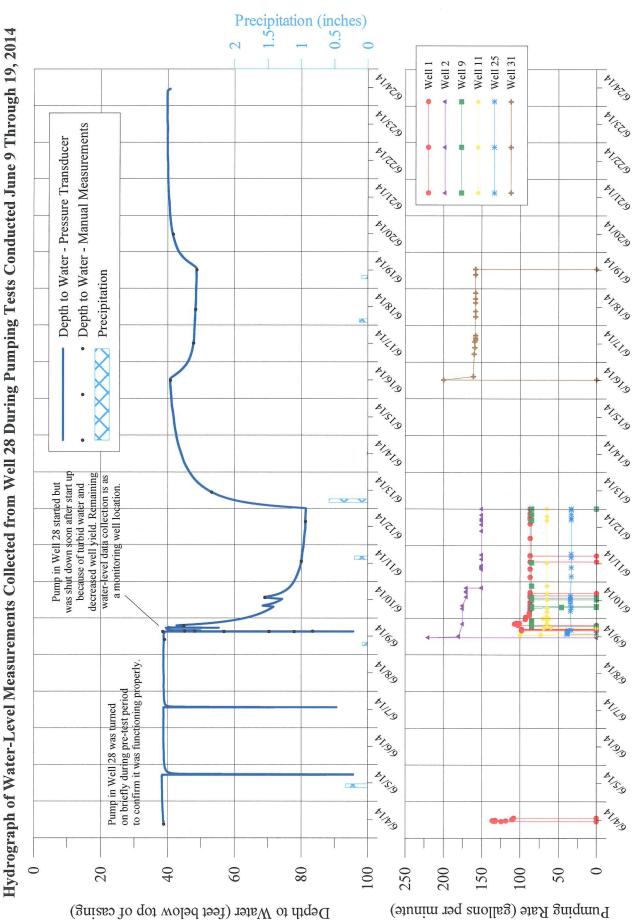
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LEGGETTE. BRASHEARS & GRAHAM, INC.

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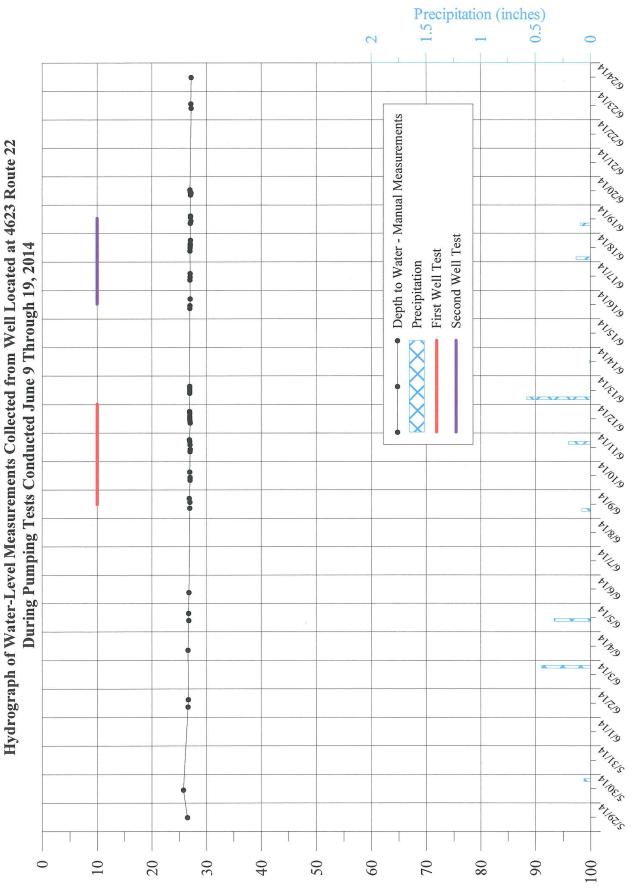




LEGGETTE. BRASHEARS & GRAHAM, INC.

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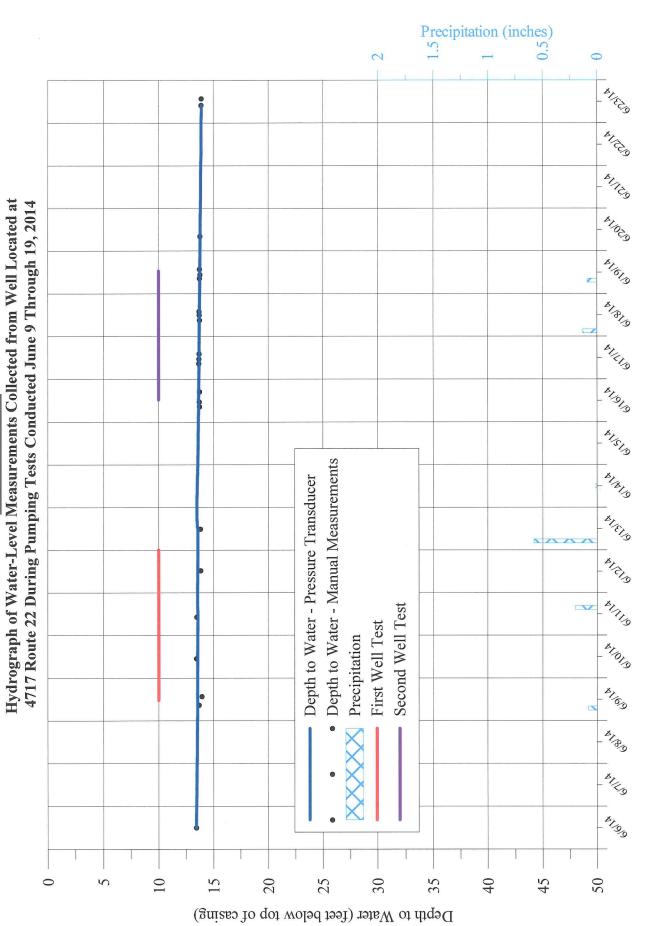
## **APPENDIX IV**



Depth to Water (feet below top of casing)

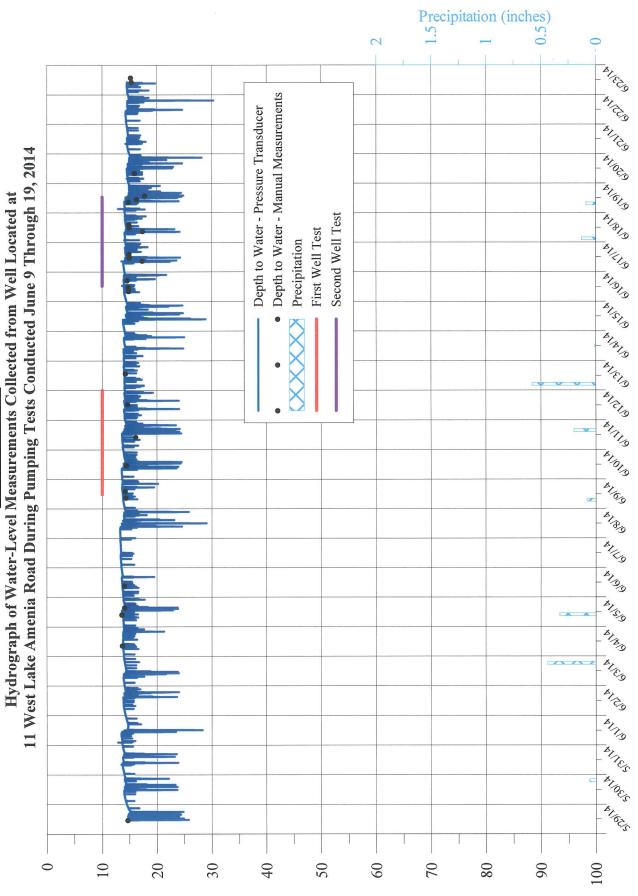
LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Offsite wells\Fish and Game Club Route 22.grf



LEGGETTE. BRASHEARS & GRAHAM, INC.

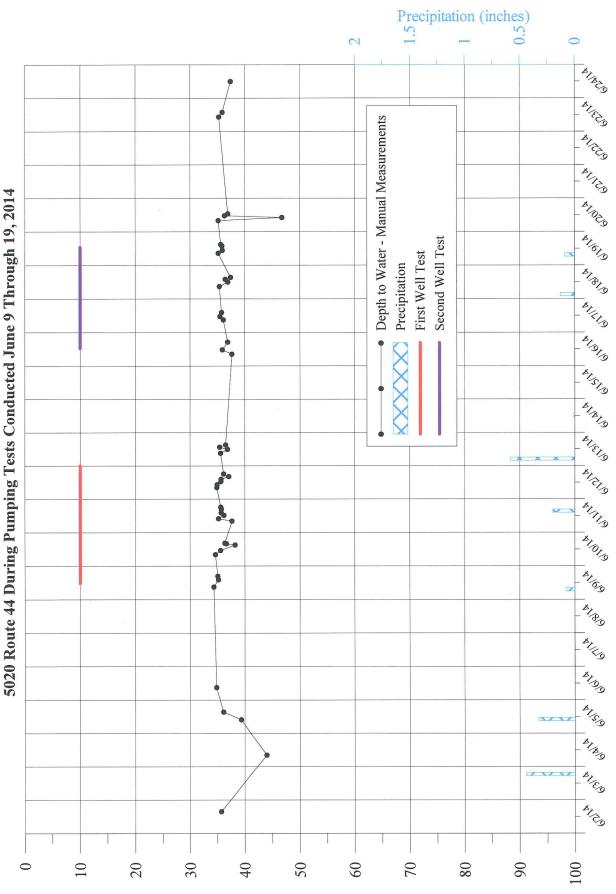
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Depth to Water (feet below top of casing)

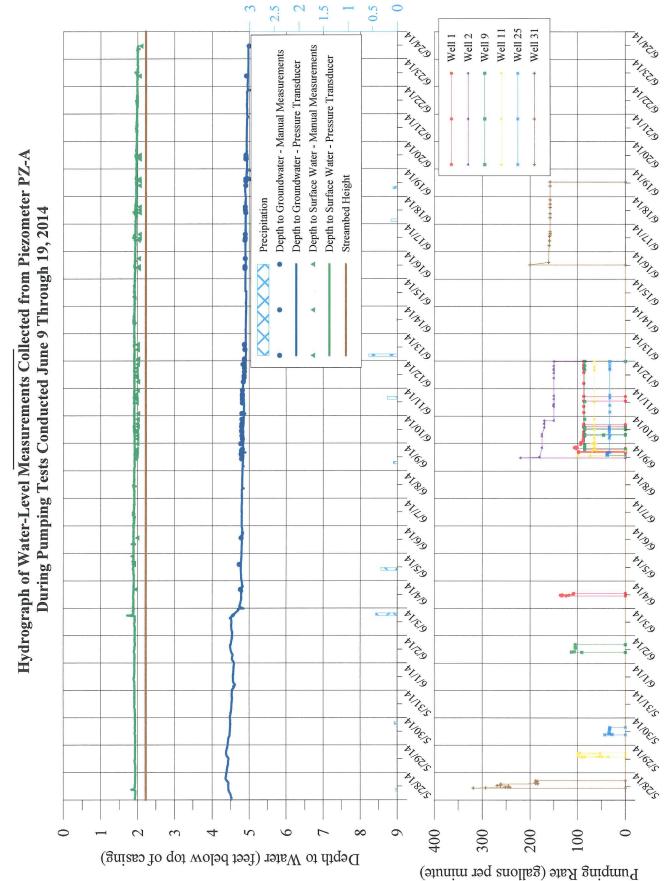
K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Offsite wells\11 Lake Amenia.grf

Hydrograph of Water-Level Measurements Collected from Well Located at



Depth to Water (feet below top of casing)

**APPENDIX V** 



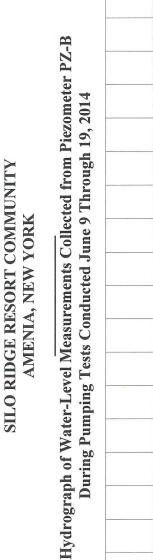
SILO RIDGE RESORT COMMUNITY

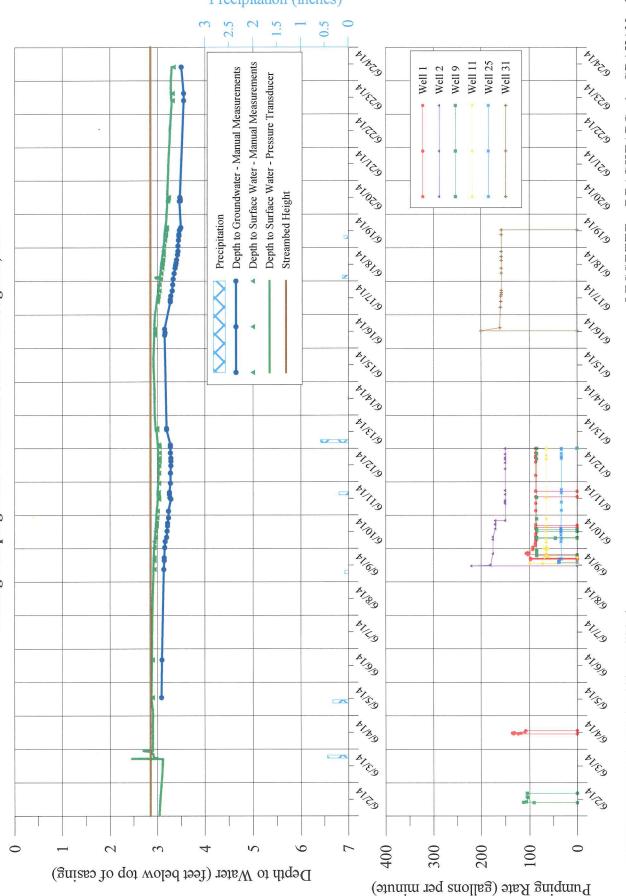
AMENIA, NEW YORK

Precipitation (inches)

LEGGETTE. BRASHEARS & GRAHAM, INC.

K: VObs/Silo Ridge/72 Hour Pumping Test/hydrographs/Piezometers/PZ-A.grf

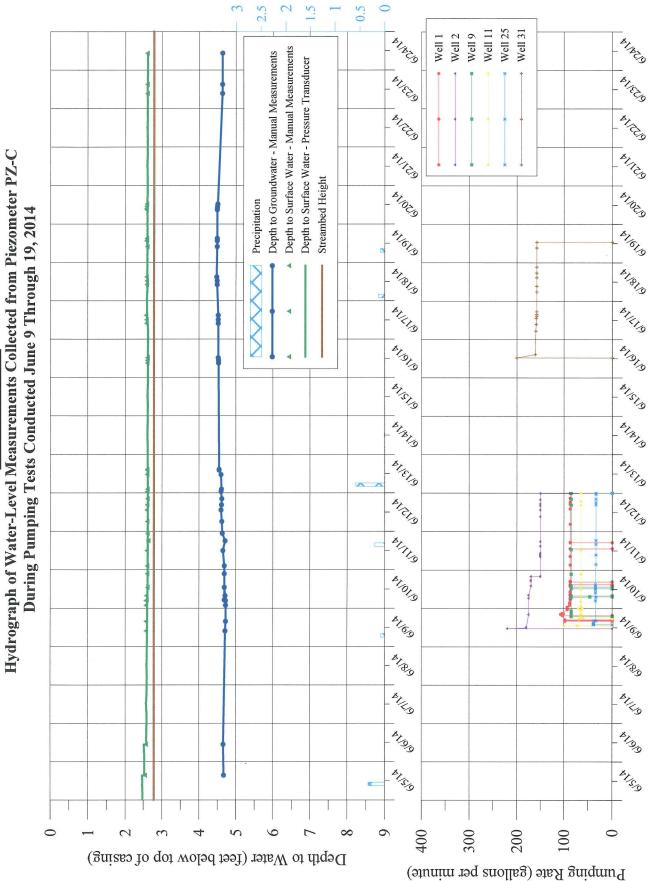




# Precipitation (inches)

LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Piezometers\PZ-B.grf



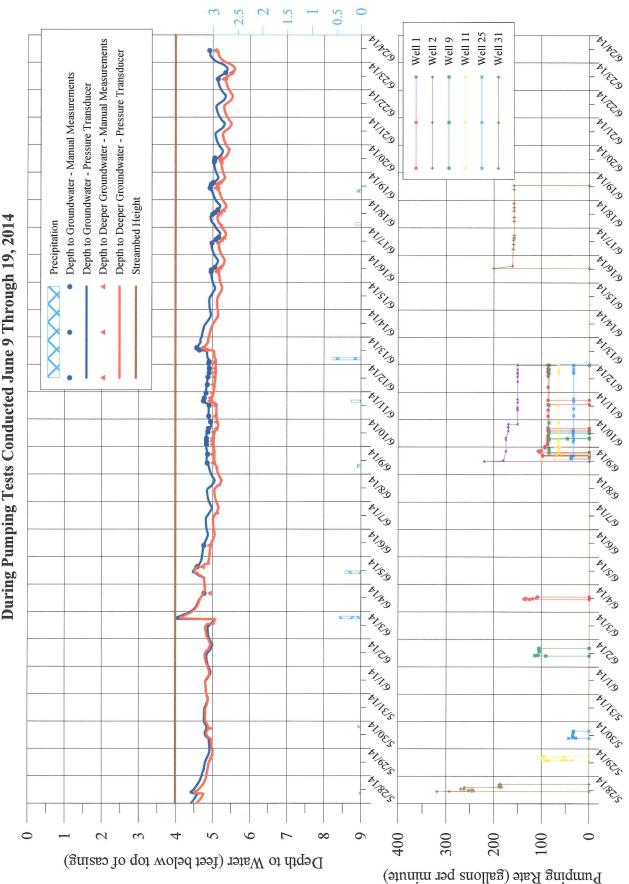
LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Piezometers\PZ-C.grf

Precipitation (inches)



Hydrograph of Water-Level Measurements Collected from Piezometers PZ-D1 and PZ-D2

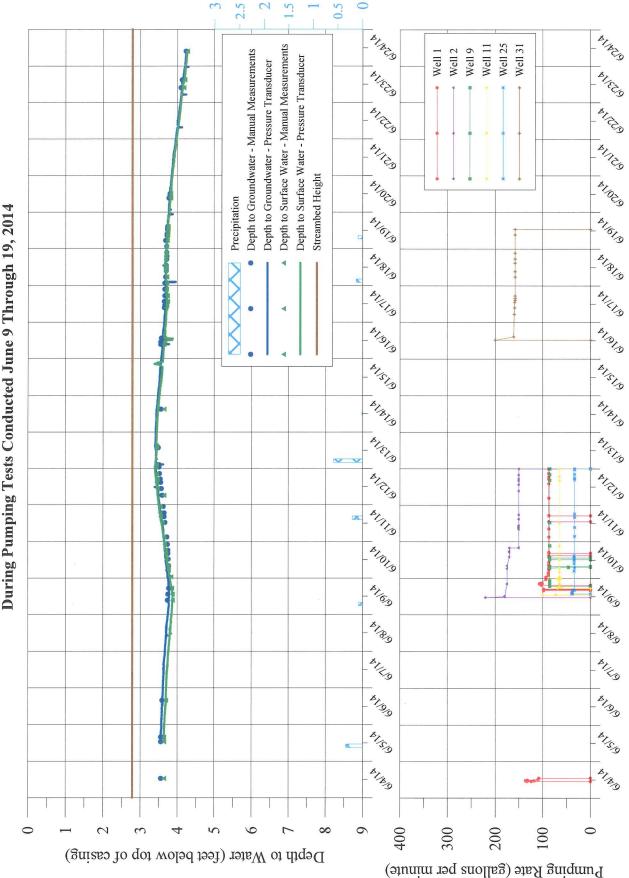


Precipitation (inches)

LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Piezometers\PZ-D.grf





Hydrograph of Water-Level Measurements Collected from Piezometer PZ-E

Precipitation (inches)

3

LEGGETTE. BRASHEARS & GRAHAM, INC.

K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Piezometers\PZ-E.grf

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction
			PZ-A		
5/21/2014	11:10	NM	1.85	NM	NM
5/23/2014	11:50	4.43	1.89	-2.54	downward
5/24/2014	10:00	4.48	1.97	-2.51	downward
5/27/2014	9:42	4.57	2.00	-2.57	downward
5/27/2014	11:35	4.57	2.00	-2.57	downward
6/4/2014	16:20	4.76	1.95	-2.81	downward
6/5/2014	14:05	4.73	1.90	-2.83	downward
6/6/2014	13:10	4.78	1.99	-2.79	downward
6/9/2014	10:12	4.79	1.95	-2.84	downward
6/9/2014	12:47	4.80	1.97	-2.83	downward
6/9/2014	14:22	4.78	1.94	-2.84	downward
6/9/2014	15:32	4.79	1.96	-2.83	downward
6/9/2014	16:26	4.79	1.98	-2.81	downward
6/9/2014	17:42	4.79	1.97	-2.82	downward
6/9/2014	18:38	4.81	1.98	-2.83	downward
6/9/2014	23:32	4.77	1.99	-2.78	downward
5/10/2014	3:46	4.81	1.99	-2.82	downward
5/10/2014	6:30	4.80	1.99	-2.81	downward
5/10/2014	г 🗆 4	4.80	1.96	-2.84	downward
5/10/2014	10:50	4.79	1.98	-2.81	downward
5/10/2014	14:28	4.79	2.00	-2.79	downward
5/10/2014	16:50	4.80	1.99	-2.81	downward
5/10/2014	21:00	4.80	2.00	-2.80	downward
5/11/2014	2:02	4.80	2.01	-2.79	downward
5/11/2014	11:15	4.81	1.97	-2.84	downward
5/11/2014	14:08	4.81	1.97	-2.84	downward
6/11/2014	16:35	4.81	1.96	-2.85	downward
6/11/2014	17:57	4.81	1.96	-2.85	downward
5/11/2014	18:46	4.81	1.96	-2.85	downward
5/11/2014	22:22	4.81	2.00	-2.81	downward
5/12/2014	5:45	4.84	2.01	-2.83	downward
5/12/2014	9:23	4.86	1.98	-2.88	downward
5/12/2014	11:10	4.86	1.97	-2.89	downward
5/12/2014	14:35	4.87	1.97	-2.90	downward
5/12/2014	17:34	4.87	1.97	-2.90	downward
5/12/2014	21:01	4.83	2.00	-2.83	downward
5/13/2014	0:35	4.87	2.01	-2.86	downward
5/13/2014	1:44	4.87	2.01	-2.86	downward
5/13/2014	9:47	4.88	1.99	-2.89	downward
5/13/2014	10:06	4.88	2.00	-2.88	downward
5/13/2014	13:53	4.87	2.00	-2.87	downward
5/13/2014	14:28	4.87	2.00	-2.87	downward
5/16/2014	8:56	4.88	2.03	-2.85	downward
6/16/2014	10:37	4.88	2.03	-2.85	downward
5/16/2014	17:34	4.89	2.03	-2.86	downward
5/17/2014	9:34	4.88	2.02	-2.86	downward
5/17/2014	11:25	4.89	2.05	-2.84	downward
5/17/2014	14:51	4.89	2.05	-2.84	downward
6/18/2014	9:38	4.90	2.05	-2.85	downward
5/18/2014	12:11	4.89	2.05	-2.84	downward
6/18/2014	14:40	4.89	2.05	-2.84	downward
6/19/2014	9:21	4.90	2.05	-2.85	downward

## Summary of Manual Water-Level Measurements Collected from Piezometer Locations During 72-Hour Pumping Tests Conducted June 9 Through 19, 2014

.

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction
	1	(11 2112)	PZ-A (continued)	1	
6/19/2014	13:18	4.90	2.05	-2.85	downward
5/19/2014	14:09	4.90	2.04	-2.86	downward
5/19/2014	15:10	4.90	2.04	-2.86	downward
5/20/2014	8:39	4.90	2.05	-2.85	downward
5/20/2014	9:15	4.91	2.04	-2.87	downward
5/20/2014	10:34	4.91	2.04	-2.87	downward
5/20/2014	11:52	4.91	2.05	-2.86	downward
5/23/2014	9:05	4.92	2.05	-2.87	downward
6/24/2014	11:15	4.99	2.09	-2.90	downward
<i>n2 n2</i> 01 1	11.15		PZ-B		
5/21/2014	12:10	NM	3.35	NM	NM
5/27/2014	13:25	3.80	NM	NM	NM
5/28/2014	14:44	NM	3.40	NM	NM
6/5/2014	12:52	3.09	2.90	-0.19	downward
6/6/2014	15:50	3.10	2.90	-0.20	downward
6/9/2014	8:55	3.14	2.94	-0.20	downward
6/9/2014	15:20	3.15	2.94	-0.21	downward
6/9/2014	17:15	3.15	2.94	-0.21	downward
5/10/2014	0:34	3.16	2.94	-0.22	downward
5/10/2014	5:00	3.17	2.94	-0.23	downward
6/10/2014	8:00	3.20	2.97	-0.23	downward
5/10/2014	12:25	3.21	2.97	-0.24	downward
5/10/2014	16:06	3.22	2.99	-0.23	downward
5/10/2014	18:07	3.22	2.99	-0.23	downward
5/10/2014	22:02	3.24	3.00	-0.24	downward
5/11/2014	2:50	3.24	3.01	-0.23	downward
5/11/2014	11:31	3.29	3.04	-0.25	downward
5/11/2014	12:30	3.27	3.04	-0.23	downward
5/11/2014	14:52	3.26	3.03	-0.23	downward
5/11/2014	16:17	3.26	3.03	-0.23	downward
5/11/2014	22:57	3.28	3.04	-0.24	downward
5/12/2014	6:17	3.28	3.04	-0.24	downward
5/12/2014	11:31	3.29	3.04	-0.25	downward
5/12/2014	14:45	3.29	3.05	-0.24	downward
5/12/2014	16:56	3.29	3.05	-0.24	downward
5/12/2014	20:39	3.28	3.05	-0.23	downward
5/13/2014	0:56	3.28	3.05	-0.23	downward
5/13/2014	2:24	3.28	3.04	-0.24	downward
5/13/2014	13:25	3.20	3.00	-0.20	downward
5/13/2014	14:20	3.20	3.00	-0.20	downward
6/16/2014	9:18	3.16	2.96	-0.20	downward
5/16/2014	10:54	3.17	2.96	-0.21	downward
5/16/2014	13:31	3.16	2.96	-0.20	downward
5/17/2014	9:15	3.28	3.01	-0.27	downward
5/17/2014	10:40	3.28	3.02	-0.26	downward
5/17/2014	13:20	3.29	3.03	-0.26	downward
5/17/2014	17:01	3.32	3.05	-0.27	downward
5/17/2014	21:22	3.33	3.05	-0.28	downward
5/18/2014	1:22	3.34	3.08	-0.26	downward
5/18/2014	5:27	3.36	3.09	-0.27	downward
5/18/2014	9:21	3.38	3.11	-0.27	downward
6/18/2014	11:20	3.39	3.11	-0.28	downward

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction
			PZ-B (continued)		
6/18/2014	12:45	3.40	3.12	-0.28	downward
6/18/2014	15:08	3.41	3.13	-0.28	downward
6/18/2014	18:51	3.43	3.14	-0.29	downward
6/18/2014	21:22	3.44	3.14	-0.30	downward
5/19/2014	1:15	3.44	3.15	-0.29	downward
5/19/2014	5:19	3.45	3.17	-0.28	downward
5/19/2014	8:30	3.46	3.18	-0.28	downward
5/19/2014	9:27	3.46	3.19	-0.27	downward
6/19/2014	12:25	3.47	3.19	-0.28	downward
5/19/2014	13:37	3.49	3.21	-0.28	downward
6/19/2014	14:24	3.50	3.20	-0.30	downward
5/20/2014	9:18	3.47	3.23	-0.24	downward
6/20/2014	9:27	3.49	3.23	-0.26	downward
5/20/2014	10:44	3.49	3.24	-0.25	downward
5/20/2014	12:07	3.48	3.25	-0.23	downward
5/23/2014	9:35	3.56	3.33	-0.23	downward
6/23/2014	14:45	3.56	3.33	-0.23	downward
6/24/2014	9:42	3.51	3.35	-0.16	downward
0/24/2014	7.12	5.51	PZ-C		
5/23/2014	13:00	4.49	2.51	-1.98	downward
6/5/2014	15:25	4.67	2.54	-2.13	downward
6/6/2014	10:46	4.66	2.54	-2.09	downward
6/9/2014	9:41	4.71	2.57	-2.14	downward
6/9/2014	15:43	4.72	2.57	-2.15	downward
6/10/2014	1:42	4.72	2.57	-2.15	downward
6/10/2014	4:34	4.72	2.57	-2.15	downward
6/10/2014	7:40	4.71	2.58	-2.13	downward
6/10/2014	12:55	4.69	2.61	-2.08	downward
6/10/2014	5:00	4.69	2.59	-2.10	downward
6/10/2014	21:24	4.69	2.60	-2.09	downward
6/11/2014	2:20	4.69	2.60	-2.09	downward
6/11/2014	11:46	4.65	2.59	-2.06	downward
6/11/2014	17:57	4.03	2.63	-2.08	downward
5/11/2014	22:35	4.63	2.61	-2.02	downward
5/12/2014	6:00	4.62	2.60	-2.02	downward
6/12/2014	13:12	4.60	2.59	-2.01	downward
5/12/2014	16:27	4.61	2.60	-2.01	downward
5/12/2014	20:10	4.62	2.61	-2.01	downward
5/12/2014	0:41	4.60	2.60	-2.00	downward
5/13/2014	2:08	4.61	2.61	-2.00	downward
5/13/2014	11:20	4.60	2.60	-2.00	downward
5/13/2014	14:05	4.55	2.60	-1.95	downward
5/13/2014	14:03	4.55	2.60	-1.95	downward
6/16/2014	9:04	4.53	2.60	-1.93	downward
6/16/2014	10:42	4.53	2.60	-1.93	downward
6/16/2014	12:20	4.53	2.61	-1.91	downward
5/17/2014	9:51	4.52	2.58	-1.94	downward
5/17/2014	12:16	4.52	2.58	-1.94	downward
5/17/2014 5/17/2014	14:57	4.52	2.58	-1.95	downward
5/17/2014	10:10	4.49	2.57	-1.90	downward
5/18/2014	12:30	4.49	2.59	-1.90	downward
6/18/2014	12:50	4.49	2.59	-1.90	downward

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction
			PZ-C (continued)	·	
5/19/2014	9:52	4.49	2.60	-1.89	downward
5/19/2014	13:23	4.49	2.58	-1.91	downward
5/19/2014	13:50	4.49	2.59	-1.90	downward
5/19/2014	14:51	4.49	2.59	-1.90	downward
6/20/2014	8:49	4.49	2.58	-1.91	downward
/20/2014	9:37	4.49	2.58	-1.91	downward
/20/2014	10:56	4.50	2.58	-1.92	downward
/20/2014	12:18	4.51	2.59	-1.92	downward
/23/2014	9:18	4.63	2.60	-2.03	downward
/23/2014	15:00	4.63	2.60	-2.03	downward
/24/2014	10:34	4.64	2.60	-2.04	downward
			PZ-D1 and D2		
/23/2014	14:10	4.96	4.80	-0.16	downward
5/4/2014	15:40	4.92	4.77	-0.15	downward
5/5/2014	14:47	4.73	4.58	-0.15	downward
5/6/2014	9:20	4.90	4.76	-0.14	downward
5/9/2014	9:30	5.00	4.85	-0.15	downward
6/9/2014	17:17	4.97	4.86	-0.11	downward
5/10/2014	1:50	4.98	4.83	-0.15	downward
/10/2014	4:43	4.98	4.83	-0.15	downward
/10/2014	7:05	4.98	4.83	-0.15	downward
/10/2014	12:40	5.01	4.87	-0.14	downward
/10/2014	15:47	5.09	4.88	-0.21	downward
6/10/2014	21:34	5.09	4.94	-0.15	downward
6/11/2014	2:30	5.05	4.89	-0.16	downward
5/11/2014	11:56	5.05	4.90	-0.15	downward
5/11/2014	15:50	4.91	4.75	-0.16	downward
5/11/2014	18:22	4.92	4.77	-0.15	downward
6/11/2014	22:41	4.97	4.82	-0.15	downward
6/12/2014	6:05	4.99	4.85	-0.14	downward
6/12/2014	12:45	5.02	4.87	-0.15	downward
6/12/2014	16:34	5.04	4.90	-0.14	downward
6/12/2014	20:20	5.05	4.91	-0.14	downward
/13/2014	0:47	5.04	4.89	-0.15	downward
5/13/2014	2:14	5.05	4.90	-0.15	downward
/13/2014	12:33	4.82	4.64	-0.18	downward
5/13/2014	14:08	4.71	4.57	-0.14	downward
/13/2014	14:37	4.72	4.57	-0.15	downward
/16/2014	9:09	5.09	4.95	-0.14	downward
/16/2014	10:47	5.11	4.96	-0.15	downward
/16/2014	12:54	5.19	5.05	-0.14	downward
6/17/2014	10:03	5.13	4.97	-0.16	downward
5/17/2014	13:16	5.23	5.08	-0.15	downward
/17/2014	15:01	5.30	5.15	-0.15	downward
/18/2014	11:13	5.14	4.99	-0.15	downward
/18/2014	12:40	5.20	5.05	-0.15	downward
6/18/2014	14:57	5.28	5.13	-0.15	downward
5/19/2014	10:03	5.07	4.92	-0.15	downward
6/19/2014	13:26	5.10	4.95	-0.15	downward
6/19/2014	13:58	5.12	4.98	-0.14	downward
/19/2014	14:57	5.17	5.01	-0.16	downward
5/20/2014	8:54	5.22	5.03	-0.19	downward

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction
			PZ-D1 and D2 (continue	d)	
6/20/2014	9:44	5.20	5.04	-0.16	downward
6/20/2014	11:02	5.20	5.04	-0.16	downward
6/20/2014	12:26	5.19	5.05	-0.14	downward
6/23/2014	9:24	5.28	5.14	-0.14	downward
6/23/2014	14:52	5.49	5.34	-0.15	downward
6/24/2014	10:20	5.05	4.91	-0.14	downward
			PZ-E		
6/4/2014	12:35	3.56	3.65	0.09	upward
5/14/2014	14:54	3.56	3.65	0.09	upward
6/5/2014	12:41	3.56	3.65	0.09	upward
6/5/2014	15:42	3.56	3.65	0.09	upward
6/6/2014	15:45	3.59	3.70	0.11	upward
6/9/2014	9:21	3.74	3.88	0.14	upward
6/9/2014	13:20	3.75	3.88	0.13	upward
6/9/2014	17:11	3.77	3.86	0.09	upward
6/10/2014	0:38	3.78	3.84	0.06	upward
5/10/2014	5:09	3.75	3.77	0.02	upward
5/10/2014	7:53	3.77	3.76	-0.01	downward
5/10/2014	12:20	3.76	3.72	-0.04	downward
5/10/2014	16:02	3.75	3.70	-0.05	downward
5/10/2014	18:11	3.75	3.69	-0.06	downward
5/10/2014	22:00	3.74	3.67	-0.07	downward
5/10/2014	2:47	3.72	3.65	-0.07	downward
5/11/2014	12:25	3.67	3.60	-0.07	downward
6/11/2014	16:13	3.65	3.55	-0.10	downward
6/11/2014	18:42	3.65	3.54	-0.11	downward
6/11/2014	22:54	3.62	3.55	-0.07	downward
5/12/2014 5/12/2014	6:14	3.59	3.65	0.06	upward
6/12/2014	10:40	3.57	3.47	-0.10	downward
6/12/2014	14:43	3.55	3.45	-0.10	downward
5/12/2014	16:58	3.54	3.47	-0.07	downward
5/12/2014	20:34	3.52	3.45	-0.07	downward
5/13/2014	0:52	3.51	3.43	-0.08	downward
5/13/2014	2:19	3.51	3.44	-0.07	downward
5/13/2014	13:30	3.49	3.45	-0.04	downward
5/13/2014	14:13	3.45	3.45	0.00	neutral
5/13/2014	14:43	3.44	3.45	0.01	upward
6/16/2014	9:14	3.55	3.65	0.10	upward
5/16/2014	10:51	3.55	3.66	0.11	upward
5/16/2014	13:21	3.57	3.66	0.09	upward
6/17/2014	9:20	3.65	3.70	0.05	upward
5/17/2014	10:45	3.66	3.72	0.06	upward
5/17/2014	13:25	3.65	3.74	0.09	upward
5/17/2014	17:08	3.66	3.74	0.08	upward
5/17/2014	21:25	3.66	3.71	0.05	upward
5/18/2014	1:25	3.66	3.72	0.06	upward
5/18/2014	5:30	3.68	3.72	0.04	upward
5/18/2014	9:32	3.70	3.68	-0.02	downward
5/18/2014	11:25	3.70	3.68	-0.02	downward
5/18/2014	12:55	3.70	3.68	-0.02	downward
6/18/2014	17:01	3.71	3.69	-0.02	downward
6/18/2014	18:56	3.71	3.69	-0.02	downward

Date	Time	Depth to Groundwater <sup>1/</sup> (ft btoc)	Depth to Surface Water <sup>2/</sup> (ft btoc)	Gradient (Surface Water- Groundwater)	Gradient Direction		
	PZ-E (continued)						
6/18/2014	21:28	3.71	3.70	-0.01	downward		
6/19/2014	1:24	3.71	3.71	0.00	neutral		
6/19/2014	5:21	3.68	3.73	0.05	upward		
6/19/2014	8:30	3.72	3.74	0.02	upward		
6/19/2014	9:35	3.72	3.75	0.03	upward		
6/19/2014	12:28	3.73	3.75	0.02	upward		
6/19/2014	13:40	3.74	3.76	0.02	upward		
6/19/2014	14:29	3.74	3.76	0.02	upward		
6/20/2014	9:09	3.77	3.83	0.06	upward		
6/20/2014	9:25	3.79	3.80	0.01	upward		
6/20/2014	10:48	3.80	3.82	0.02	upward		
6/20/2014	12:00	3.80	3.83	0.03	upward		
6/23/2014	9:33	4.10	4.18	0.08	upward		
6/23/2014	14:44	4.13	4.21	0.08	upward		
6/24/2014	9:29	4.24	4.28	0.04	upward		

Summary of Manual Water-Level Measurements Collected from Piezometer Locations During 72-Hour Pumping Tests Conducted June 9 Through 19, 2014

ft btoc feet below top of casing

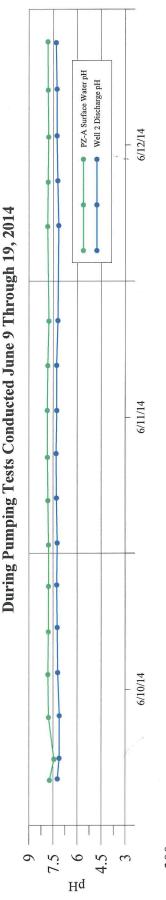
1/ For PZ-D, the depth to groundwater column represents the depth to groundwater in PZ-D2, which is the piezometer with the deeper screen setting

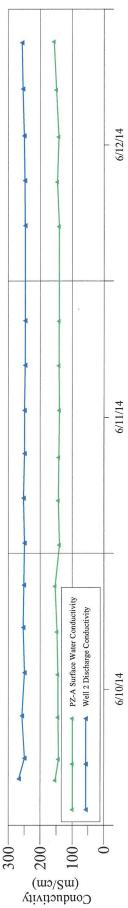
2/ For PZ-D, the depth to surface water column represents the depth to groundwater in PZ-D1, which is the piezometer with the shallower screen setting

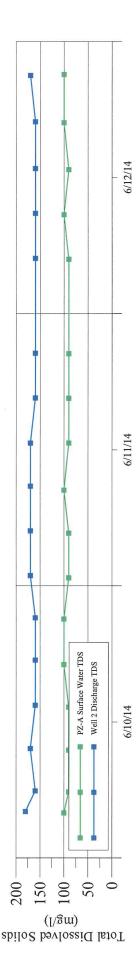
K:\Jobs\Silo Ridge\72-Hour Pumping Test\Reporting\Water Level tables\PZ.docx

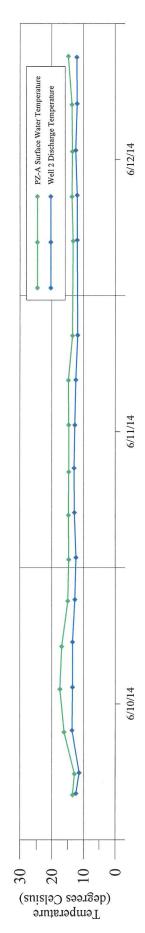
# APPENDIX VI

Graph of Physical Parameter Measurements Collected from Well 2 Discharge and Surface Water at PZ-A



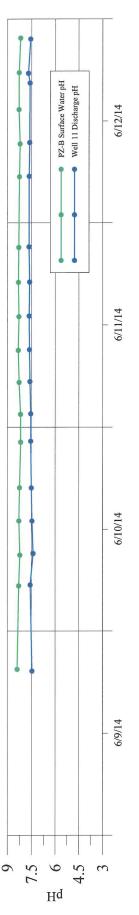


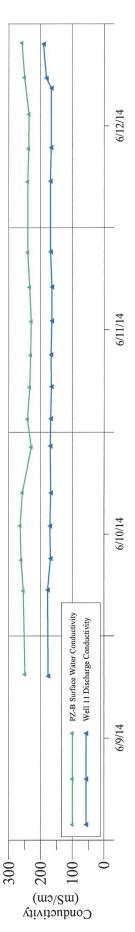


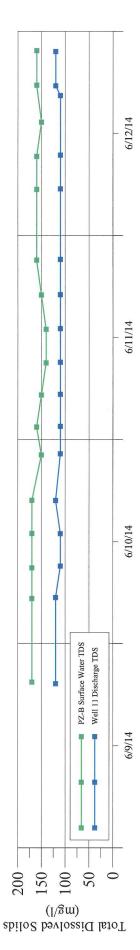


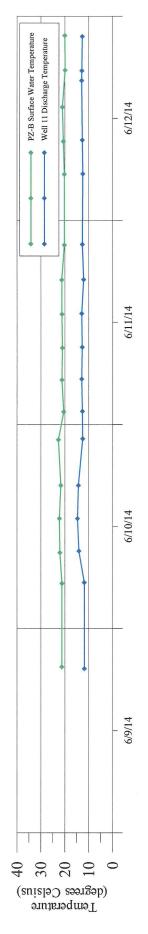
K:UObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Physical Parameters\Well 2.grf





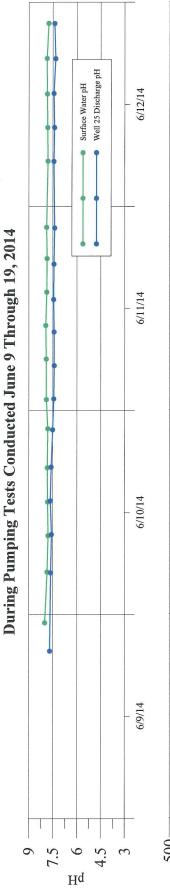


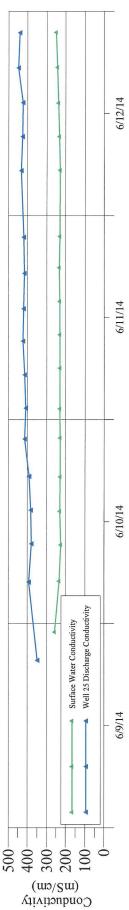


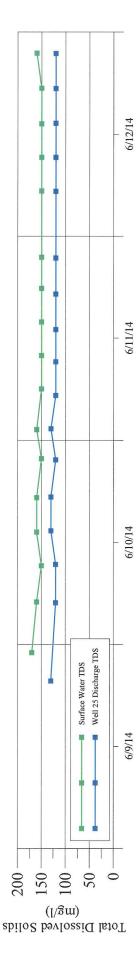


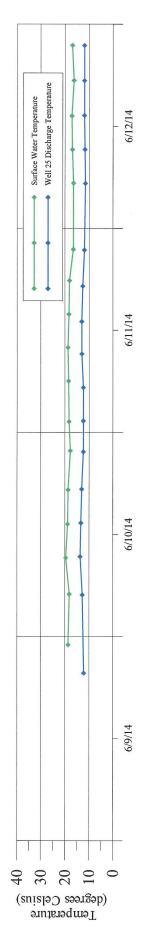
K:UObs/Silo Ridge/72 Hour Pumping Test/hydrographs/Physical Parameters/Well 11.grf

Graph of Physical Parameter Measurements Collected from Well 25 Discharge and Nearby Surface Water



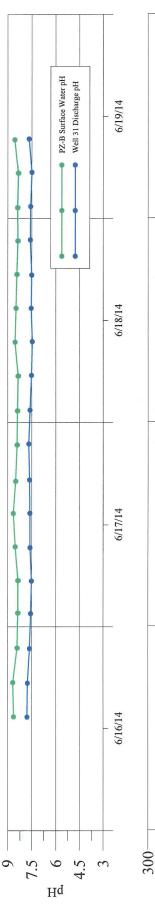


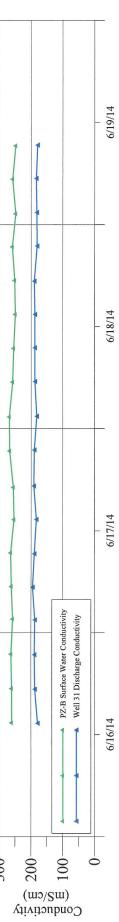


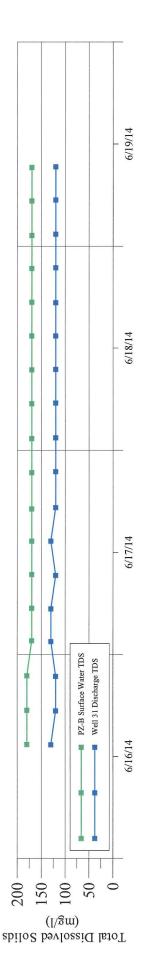


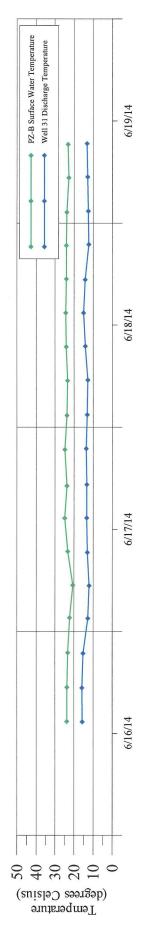
K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Physical Parameters\Well 25.grf





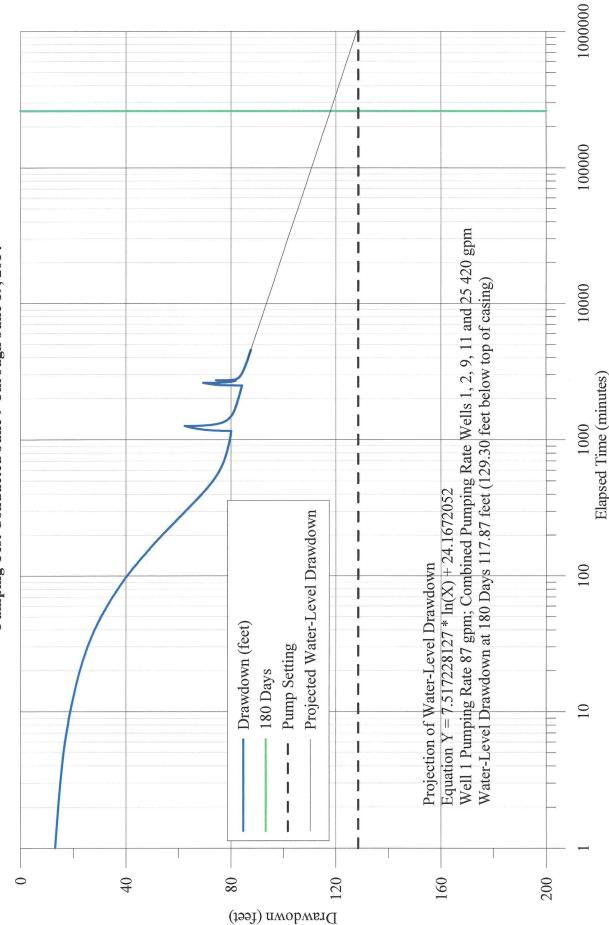






K:\JObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Physical Parameters\Well 31.grf

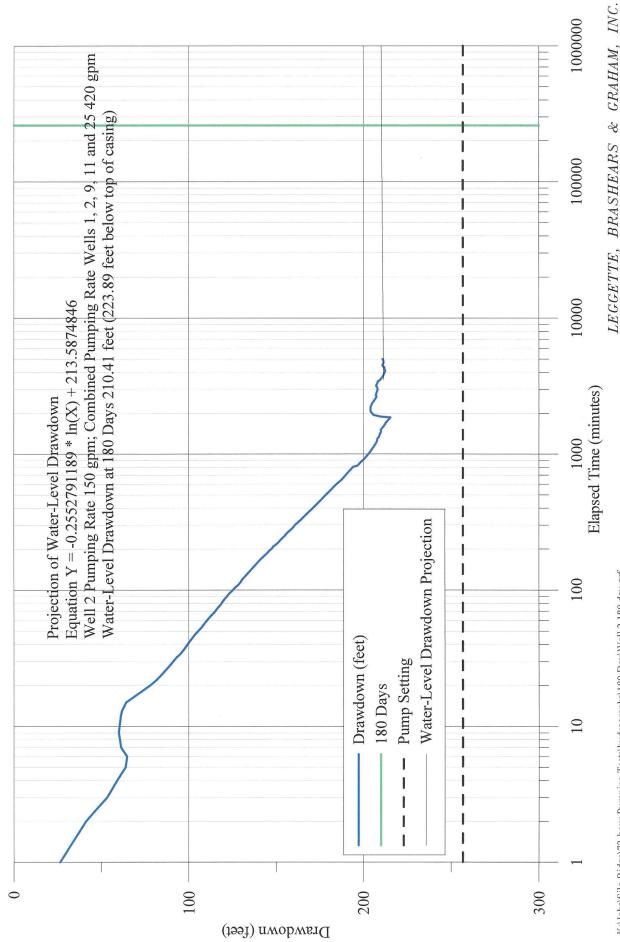
## **APPENDIX VII**



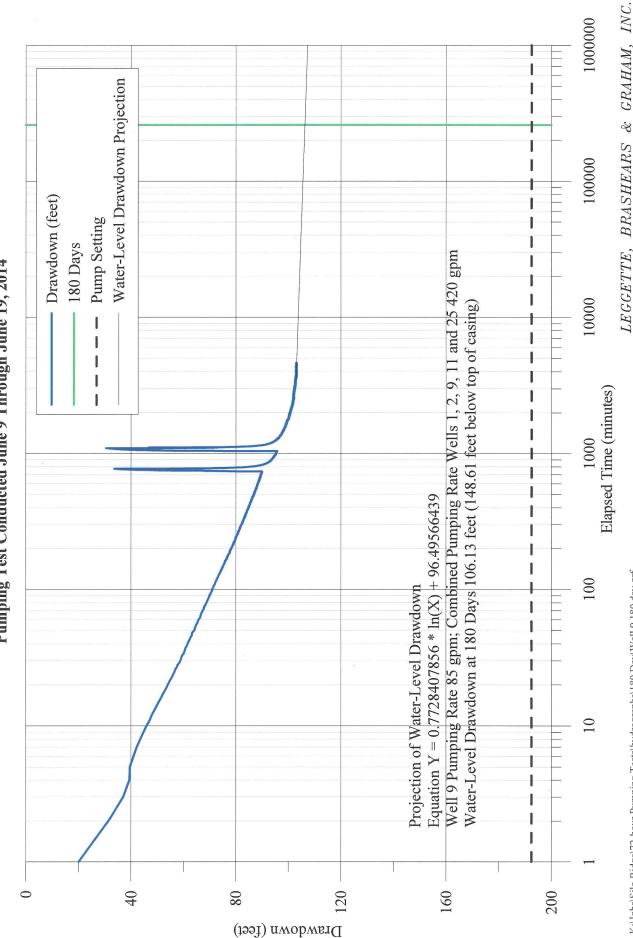
180-Day Water-Level Drawdown Projection for Well 1 from Data Collected During Pumping Test Conducted June 9 Through June 19, 2014

K:\Jobs\Silo Ridge\72-hour Pumping Tests\hydrographs\180 Day\Well 1 180 day.grf



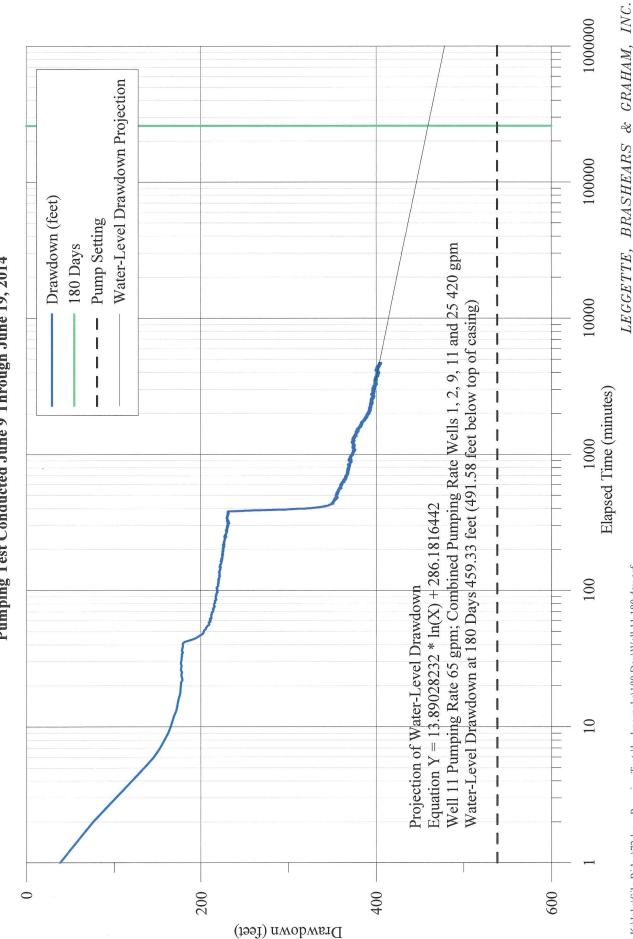


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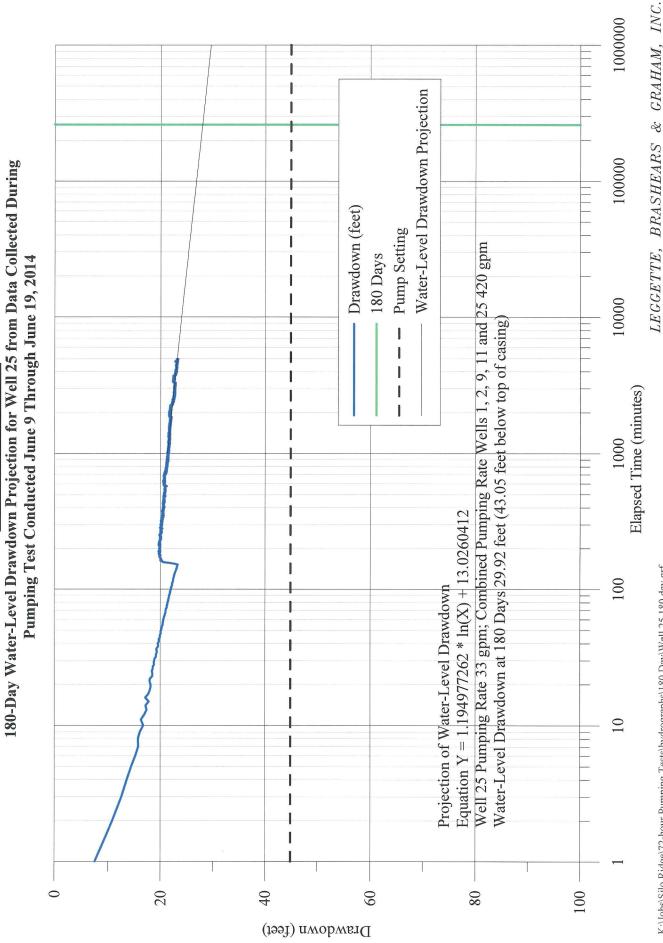
180-Day Water-Level Drawdown Projection for Well 9 from Data Collected During Pumping Test Conducted June 9 Through June 19, 2014

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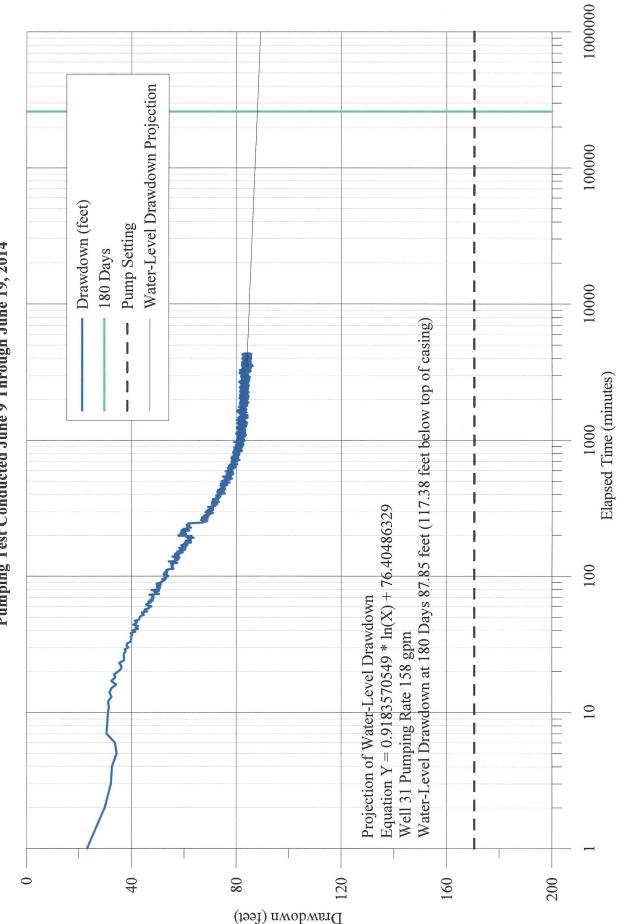
180-Day Water-Level Drawdown Projection for Well 11 from Data Collected During Pumping Test Conducted June 9 Through June 19, 2014

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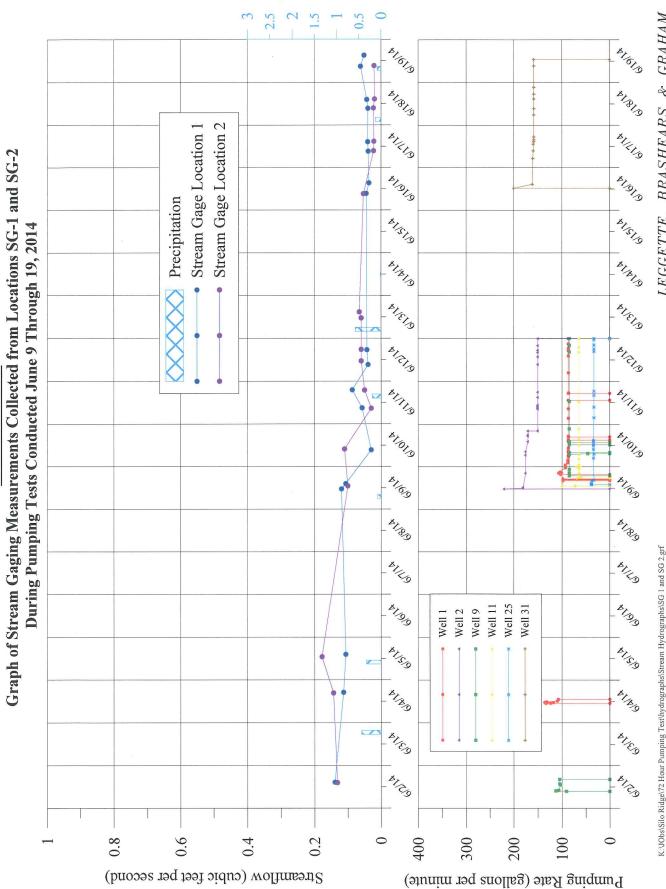
SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK



180-Day Water-Level Drawdown Projection for Well 31 from Data Collected During Pumping Test Conducted June 9 Through June 19, 2014 LEGGETTE, BRASHEARS & GRAHAM, INC.

K:\Jobs\Silo Ridge\72-hour Pumping Tests\hydrographs\180 Day\Well 25 180 day.grf

# **APPENDIX VIII**



Precipitation (inches)

SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK LEGGETTE. BRASHEARS & GRAHAM, INC.

Precipitation (inches) 2.5 3 0.5 S 41/61/9 ×1/61/9 A1/81/9 ×11819 Stream Gage Location 4 B11119 ×1/11/9 Precipitation #1,91,9 ×1,91,9 Graph of Stream Gaging Measurements Collected from Locations SG-4 ×1/51/9 411519 During Pumping Tests Conducted June 9 Through 19, 2014 A1/819 AT AT A #IJEIJ9 ATIENS AIRTO #1/21/9 A11110 A1/11/9 ×1/01/9 \$TIOTO \$11019 \$11619 4189 ×1189 51119 AILO ×11919 \$100 Well 25 Well 11 Well 31 Well 1 Well 2 Well 9 A150 ×1150 AT NO ×11×19 \$1/E9 AILEIG 57 A1/20 ×1100 1.62 1.2 0.80.40 400 300 200 1000 Streamflow (cubic feet per second) Pumping Rate (gallons per minute)

SILO RIDGE RESORT COMMUNITY AMENIA, NEW YORK

K.:VObs\Silo Ridge\72 Hour Pumping Test\hydrographs\Stream Hydrographs\SG 4 culvert.grf

LEGGETTE. BRASHEARS & GRAHAM, INC.

# **APPENDIX IX**

# WELL 2

# WATER QUALITY

LEGGETTE, BRASHEARS & GRAHAM, INC.

# EnviroTest 🔛 Laboratories Inc.

# ANALYTICAL REPORT

Job Number: 420-78776-2 SDG Number: Silo Ridge Job Description: LBG, Inc.

For: Leggette, Brashears & Graham, Inc. 4 Research Drive Shelton, CT 06464

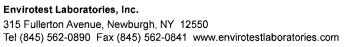
Attention: Stacy Stieber

Debra Bayer Customer Service Manager dbayer@envirotestlaboratories.com 07/24/2014

and the second

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554





# **METHOD SUMMARY**

Client: Leggette, Brashears & Graham, Inc.

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Nitrate-Nitrite Lachat	EnvTest	QuickChem 10	0-107-04-1C
ICP Metals by 200.7 Sample Filtration 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.7	EnvTest EnvTest EnvTest EnvTest	EPA 200.7 Re	v 4.4 FILTRATION EPA 200 EPA 200.7
ICPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.8	EnvTest EnvTest EnvTest	EPA 200.8	EPA 200 EPA 200.8
Apparent Color	EnvTest	SM21 2120B	
Mercury in Water by CVAA Digestion for CVAA Mercury in Waters	EnvTest EnvTest	EPA 245.1	EPA 245.1
Anions by Ion Chromatography	EnvTest	MCAWW 300.	0
EPA 504.1 EDB	Pace	EPA 504.1	
EPA 505 Pesticide/PCB	Pace	EPA 505	
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	2
EPA 525.2 Semivolatile Organics	Pace	EPA 525.2	
EPA 531.1 Carbamate Pesticides in Drinki	Pace	EPA 531.1	
EPA 900 Series GA/GB/RA226/RA228/Gamma	Pace	EPA 900	
Uranium	Pace	STL-STL EPA	
Turbidity	EnvTest	SM20 SM 213	0B
Odor, Threshold Test	EnvTest	SM20 SM 215	0B
Alkalinity, Titration Method	EnvTest	SM18 SM 232	0B
Corrosivity LSI Calculation	EnvTest	SM20 SM 233	0B
Hardness by Calculation	EnvTest	SM20 SM 234	0B
Total Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 254	0C
Chloride by Silver Nitrate Titration	EnvTest	SM18 SM 450	0 CI- B
Cyanide, Total: Colorimetric Method Cyanide: Distillation	EnvTest EnvTest	SM18 SM 450	0 CN E SM18 SM 4500 CN C
ЭН	EnvTest	SM19 SM 450	0 H+ B
Sulfide (Methylene Blue method)	EnvTest	SM20 SM 450	0 S2 D
Nitrite by Colormetric	EnvTest	SM20 SM 450	0B
Total Coliform and Escherichia coli by Colilert - Presence/Absence	EnvTest	SMVVV SM 92	223
General Sub Contract Method	Env.Assoc.	Subcontract	
General Sub Contract Method	Pace	Subcontract	

#### METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-2 SDG Number: Silo Ridge

Description Lab Location Method Preparation Method
--

#### Lab References:

Env.Assoc. = Environmental Associates

EnvTest = EnviroTest

Pace = Pace Analytical - Ormond Beach

#### **Method References:**

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

QuickChem = Lachat QuickChem Manual

SM18 = "Standard Methods For The Examination Of Water And Wastewater", 18th Edition, 1992.

SM19 = "Standard Methods For The Examination Of Water And Wastewater", 19Th Edition, 1995."

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition

SMWW = "Standard Methods for the Examination of Water and Wastewater"

STL-STL = Severn Trent Laboratories, St. Louis, Facility Standard Operating Procedure.

# METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	McPhillips, Julie	JM
EPA 200.8	McPhillips, Julie	JM
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	McPhillips, Julie	JM
QuickChem 10-107-04-1C	Cusack, Renee	RC
SM21 2120B	Luis, Carlos	CL
MCAWW 300.0	Ulanmo, RoseAnn	RU
SM20 SM 2130B	Luis, Carlos	CL
SM20 SM 2150B	Luis, Carlos	CL
SM18 SM 2320B	Goldstein, Amy	AG
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Travis, Lyndsey	LT
SM18 SM 4500 CI- B	Goldstein, Amy	AG
SM18 SM 4500 CN E	Cusack, Renee	RC
SM19 SM 4500 H+ B	Luis, Carlos	CL
SM20 SM 4500 S2 D	Goldstein, Amy	AG
SM20 SM 4500B	Ulanmo, RoseAnn	RU
SMWW SM 9223	Luis, Carlos	CL

## SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
420-78776-2	Silo Ridge Well 2	Drinking Water	06/12/2014 0930	06/12/2014 1320

Job Number: 420-78776-2

#### Client: Leggette, Brashears & Graham, Inc.

#### Sdg Number: Silo Ridge Client Sample ID: Silo Ridge Well 2 Lab Sample ID: 420-78776-2 Date Sampled: 06/12/2014 0930 Client Matrix: Drinking Water Date Received: 06/12/2014 1320

#### 524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-76303	Instrument ID:	Agilent 7890A/5975C
Preparation:	N/A		Lab File ID:	X061222.D
Dilution:	1.0		Initial Weight/Volu	me: 5 mL
Date Analyzed:	06/12/2014 1923		Final Weight/Volur	ne: 5 mL
Date Prepared:	N/A			

Analyte	Result (ug/L)	Qualifier	, RL
1,1,1,2-Tetrachloroethane	<0.500	an landar menungung kenangkan perungkan pertakan pertakan pertakan pertakan perungkan perungkan perungkan kenan Perungkan	0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500	*	0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-Isopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500	-	0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500
EnviroTest Laboratories, Inc.	Page 6 of 1	8	07/24/2014

## Client: Leggette, Brashears & Graham, Inc.

Client: Leggette,	Brashears & Graham, Inc.		Job Number: 420-78776-2 Sdg Number: Silo Ridge
Client Sample ID:	Silo Ridge Well 2		
Lab Sample ID:	420-78776-2		Date Sampled: 06/12/2014 0930
Client Matrix:	Drinking Water		Date Received: 06/12/2014 1320
	524.2	Purgeable Organic Compounds in	Water by GC/MS
Method:	524.2	Analysis Batch: 420-76303	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X061222.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/12/2014 1923		Final Weight/Volume: 5 mL
Date Prepared:	N/A		
Analyte		Result (ug/L)	Qualifier RL
Trichlorofluorometha	ne en la company de la comp	<0.2000	0.12 hours for the formation of the formation of the state of the stat
Vinyl chloride		<0.500	0.500
Xylenes, Total		<0.500	0.500
Styrene		<0.500	0.500
sec-Butylbenzene		<0.500	0.500
1,3,5-Trimethylbenze	ene	<0.500	0.500
N-Propylbenzene		<0.500	0.500
1,3-Dichlorobenzene	•	<0.500	0.500
2-Chlorotoluene		<0.500	0.500
4-Chlorotoluene		<0.500	0.500
Surrogate		%Rec	Acceptance Limits
4-Bromofluorobenze	ne	109	71 - 120
Toluene-d8 (Surr)		101	79 - 121
1,2-Dichloroethane-	d4 (Surr)	95	70 - 128

07/24/2014

Job Number: 420-78776-2 Sdg Number: Silo Ridge

## Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Silo Ridge Well 2			
Lab Sample ID: Client Matrix:	420-78776-2 Drinking Water		Date Sampled: Date Received:	06/12/2014 0930 06/12/2014 1320
		200.7 Rev 4.4 ICP Metals b	y 200.7	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 06/17/2014 2227 06/17/2014 0915	Analysis Batch: 420-76419 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese Sodium Zinc	ondulos a suan las o fontanterios norma entro y normana e e una santa	340 258 4730 79.2		60.0 10.0 200 20.0
		200.7 Rev 4.4 ICP Metals by 200.	7-Dissolved	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200.7 1.0 06/20/2014 1840 06/19/2014 0921	Analysis Batch: 420-76525 Prep Batch: 420-76436	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese	na mangan an tinggan ann ann ann an ann an an an ann an	117 243	መን ማረምር ያገኛ ቀናን ያገኘል። የአማር የመምር የምምር ነው ምግር ካል የሚሰሩ ያለው እንግ እ ውስጥ የተለለ። የያለው አምር እን	60.0 10.0

Client: Leggette, Brashears & Graham, Inc.

Silo Ridge Well 2

Client Sample ID:

Lab Sample ID: Client Matrix:	420-78776-2 Drinking Water		Date Sampled: Date Received:	06/12/2014 0930 06/12/2014 1320
		200.8 ICPMS Metals by 2	00.8	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 06/17/2014 1433 06/17/2014 0915	Analysis Batch: 420-76383 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer ELAN N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Lead	erszágy – nem elsene mégé mén telepetetel szelet azokat vel meletetetetetetetetetetetetetetetetetete	N 2017 ARE 2017 FOR THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE CONTRACT OF THE CONTRACT OF THE CONTRACT. THE	en man de la construction de la con	an autors analow water the case and a second process water and the second s
Arsenic		<1.40		1.40
Beryllium		<0.300		0.300
Cadmium		<1.00		1.00
Chromium		<7.00		7.00
Nickel		12.8		0.500
Antimony		<0.400		0.400
Thallium		<0.300		0.300
Barium		8.97		2.00
Selenium		<2.00		2.00
Method:	200.8	Analysis Batch: 420-76626	Instrument ID:	Perkin Elmer ELAN
Preparation:	200.8	Prep Batch: 420-76568	Lab File ID:	N/A
Dilution:	1.0	1 10p Baten. 420 70000	Initial Weight/Volume:	50 mL
Date Analyzed:	06/24/2014 1740		Final Weight/Volume:	50 mL
Date Prepared:	06/23/2014 1251		r mai vveigni voidme.	
Analyte		Result (ug/L)	Qualifier	RL
Silver	aan aas ah taalada ah taali ay kalanda kan taata bahay taata ahayaa kalanda kanada kanada kanada ka	1.1000/00000000000000000000000000000000	naardan oo ahaaraan kalanga kalanga kanalaya ayaan kalan kala kala kala kala kala kala	
		245.1 Mercury in Water by	CVAA	
Method:	245.1	Analysis Batch: 420-76473	Instrument ID:	Perkin Elmer FIMS
Preparation:	245.1	Prep Batch: 420-76463	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	06/19/2014 1631		Final Weight/Volume:	25 mL
Date Prepared:	06/19/2014 1320			
Analyte		Result (ug/L)	Qualifier	RL
an an ann ag mar an		<0.200	Distribution of the second structure of the second structure of the second structure of the second structure of	0.200

Client: Leggette, Brashears & Graham, Inc.

Silo Ridge Well 2

Client Sample ID:

Lab Sample ID: Client Matrix:	420-78776-2 Drinking Water		Date Sampled: Date Received:	06/12/2014 0930 06/12/2014 1320
		SM 2340B Hardness by Calc	ulation	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	SM 2340B N/A 1.0 06/17/2014 2227 N/A	Analysis Batch: 420-76423	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	None N/A
Analyte		Result (mg/L)	Qualifier	RL
Calcium hardness	s as calcium carbonate	of left we than the constant flat the constant of the second sec	an o and a second second second a second second second second second of the second second second second second	**************************************

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-2 Sdg Number: Silo Ridge

		Biology			
Client Sample ID:	Silo Ridge Well 2				
Lab Sample ID:	420-78776-2		Date Sampled:		2/2014 0930
Client Matrix:	Drinking Water		Date Received:	06/1	2/2014 1320
Analyte	Result	Qual Units		Dil	Method
Coliform, Total	Absent	CFU/100mL		1.0	SM 9223
	Anly Batch: 420-76274	Date Analyzed 06/12/2014 1743			
Escherichia coli	Absent	CFU/100mL		1.0	SM 9223
	Anly Batch: 420-76274	Date Analyzed 06/12/2014 1743			

**General Chemistry** 

Client: Leggette, Brashears & Graham, Inc.

· · · · · ·					
		General Chemistry			
Client Sample ID:	Silo Ridge Well 2				
Lab Sample ID:	420-78776-2		Date Sampled:	06/1	2/2014 0930
Client Matrix:	Drinking Water		Date Received:	06/1	2/2014 1320
Analyte	Result	Qual Units		Dil	Method
Langelier Index	-0.800	NONE		1.0	SM 2330B
	Anly Batch: 420-76656	Date Analyzed 06/25/2014 1543			

		General Chemistry			
Client Sample ID:	Silo Ridge Well 2				
•	420-78776-2 Drinking Water		Date Sampled: Date Received:		2/2014 0930 2/2014 1320
Analyte	Result	Qual Units	RL	Dil	Method
Nitrate Nitrite as N	<0.0100 Anly Batch: 420-76347	mg/L Date Analyzed 06/16/2014 1410	0.0100	1.0	10-107-04-1C
Alkalinity	114 Anly Batch: 420-76413	mg/L Date Analyzed 06/17/2014 0940	5.00	1.0	SM 2320B
Total Dissolved Solids	198 Anly Batch: 420-76437	mg/L Date Analyzed 06/18/2014 1545	. 5.00	1.0	SM 2540C
Sulfate	20.4 Anly Batch: 420-76381	mg/L Date Analyzed 06/16/2014 1254	5.00	1.0	300.0
Fluoride	<0.500 Anly Batch: 420-76381	mg/L. Date Analyzed 06/16/2014 1254	0.500	1.0	300.0
Chloride	<5.00 Anly Batch: 420-76576	mg/L Date Analyzed 06/23/2014 1541	5.00	1.0	SM 4500 CI- B
Cyanide, Total	<0.00500 Anly Batch: 420-76509	mg/L Date Analyzed 06/20/2014 1200	0.00500	1.0	SM 4500 CN E
Apparent Color	Prep Batch: 420-76507 10.0 Anly Batch: 420-76339	Date Prepared: 06/18/2014 0830 Pt-Co Date Analyzed 06/13/2014 1510	2.00	1.0	2120B
pH@color measuremer	nt 7.28 Anly Batch: 420-76339	SU Date Analyzed 06/13/2014 1510	2.00	1.0	2120B
Turbidity	3.32 Anly Batch: 420-76341	NTU Date Analyzed 06/13/2014 1316	0.100	1.0	SM 2130B
Odor	1.00 Aniy Batch: 420-76340	T.O.N. Date Analyzed 06/13/2014 1400	1.00	1.0	SM 2150B
Temp @ Odor Measure	ment 65.0 Anly Batch: 420-76340	Degrees C Date Analyzed 06/13/2014 1400	5.00	1.0	SM 2150B
рH	7.28 Anly Batch: 420-76337	H SU Date Analyzed 06/13/2014 1440	0.200	1.0	SM 4500 H+ B
Temp @ pH Measuremo	ent 22.2 Anly Batch: 420-76337	Degrees C Date Analyzed 06/13/2014 1440	5.00	1.0	SM 4500 H+ B
Nitrite as N	<0.0100 Anly Batch: 420-76396	mg/L Date Analyzed 06/12/2014 1640	0.0100	1.0	SM 4500B

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 2				
Lab Sample ID: Client Matrix:	420-78776-2 Drinking Water		Date Sampled: Date Received:		12/2014 0930 12/2014 1320
Analyte	Result	Qual Units	RL	Dil	Method
Sulfide	<0.100 Anly Batch: 420-76380	mg/L Date Analyzed 06/17/2014 1430	0.100	1.0	SM 4500 S2 D

# DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
Metals		
	g	Result fails applicable NYS drinking water standards
General Chemistry		
	Н	Sample was prepped or analyzed beyond the specified holding time

# **Definitions and Glossary**

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-2

Sdg Number: Silo Ridge

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum quantitation levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points

78776-2 REPORT# (Lab Use Only)	PAGE1 0	Sodium Hyd. Iastic Sterile Plastic Mitric URNAROUND TIM TURNAROUND TIM	9 im82t I nolls9 I m04	5	#OF COOLERS	AITTED	1 2 1 3 Table 8B (Sb,As,Ba,Be,Cd,Cr,Cn,Hg,Ni	Se,TI,F)	Table 8C (NO3,NO2)	Table 8D (CI,Fe,Mn,Ag,Na,SO4,Zn,Odor,Color)	524.2 (POC, MTBE, Vinyl Chloride)	SOCs (504,508,515,525,531,547,548,549,Dioxins)	Additional Tests (Total coliform	thru Zinc)	Dis. Fe, Dis. Mn, Sutfide	Radon, Gross Alpha/Beta,	Radium 226/228, Total Uranium	MPA (including Cypto and Glardia)	COMPANY DATE TIME		COMPANY DATE TIME	COMPANY DATE TIME	1.	OLZ → OREARINGS DV → CONTRACT AND A DV → C
CHAIN OF CUSTODY EnviroTest Laboratories Thome 315 Fullerton Avenue, New York 12560 845-552-0990	MATRIX REGUIRED ANALYSES	Bladder Bladder	405 4004 40ml Ander 3 Liter Amber Liter Amber			sorio	2     3     2     1     3     1     2     4			1-250ml Zinc Acetate/Sod. Hyd.	1-250ml Amber Unpres.	2-250mt Plastaic Unpres	2-40mt Amber Sodium Thio.	1-500 Amber Sod.Thio.	1 liter Amber Plastic Sod. Thio /H2SO4	2-1liter Amber Unpres.	35 Total Containers		RECEIVED RV. (SIGNATURE)	-	<u> </u>			
CHA DC.	PROJECTION PROJECTION	P.D. NEMBER TOWN		ton, CT 06484		ENTIFICATION	ilo didge well 2 to	2					1						COMPANY DATE TIME		UBLO COMPANY DATE ON THE ASD	~ CUER DATE/1/14 TIME		
EnviroTest Laboratories, 1	PROJECT REFERENCE CAND ROAD	емияотеят риоцист ими и ваует Debra Bayer сцемт (strep ни DBG, Inc	1 1 1 1	CLIENT ADDRESS 4 Research Drive, Suite 301, Shelton, CT 06484 COMPANY CONFEACTING THE WORK & CAMERIA		DATE TIME	1 6/12/14 920 5										-	». »	RELINQUISHED BY: (SIGNATURE)		SAMPLED PY SIGNATURE	K RELINGUITHED BY ISIGNATURE	SUBCONTACT: PACESOC	

Page 17 of 18

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-2 SDG Number: Silo Ridge

Login Number: 78776

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	1.3 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	рН
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Environmental Associates LTD 24 Oak Brook Drive •	Ithaca • N	Y•14850-8717•F	for C	Laboratory Giardia & Cryptosp 272-8902 • Fax (607) 2	oridium I	ılts Analysis		Page 1 c	ACC AND ACC	
ACCOUNT NO. H AD-12701 3		st Laboratories ton Ave.		12550	CON Ms.	<b>TACT</b> Joyce 5) 562-08	Esposito 390 Fax 61	) 0 375-4090	FL -E PA-68	E87851 8-04514
<b>P.O.</b> No. 4	2001269									
SAMPLE NO. 431	95	SAMPLE SITE	SILO RIDGE	Well # 2		CLIENT	IDENTIFICATION	420-787	/76-T-2	
SAMPLE DAT	ГА <u>I</u>	ILTER SAMP	LE							
		VATER TYPE:		Ground Wate	er (GW)	SAM	PLE COLLECTOR	: Stacy	y Stieber	
	Ι	DATE COLLECTEI	DATE/TIME	Jun 12, 2014	9:30an	n Awa	DUNT COLLECTE	0. 264	ral(10.1)	
	r	ATE RECEIVED:		Jun 13, 2014			BIDITY:		gal (10 L)	
	F	RECEIPT TEMPER	ATURE (°C)	: 3.5		pH:		na na		
		LUTION START D		Jun 14, 2014	74 14	-	TER COLOR:		r Bulk Wate	۰۴
EAL Quality Co GC Serial Num	ntrol	ALCTION START D	41 <i>E/</i> 1101E,				SAMPLE NOTES			~
QCGC-14-1		OTAL VOLUME O	F SEDIMENT:	<b>0.1</b> ml			Accepted			
	Numb	er of Aliquots I	Examined:	1						
ANALYSIS TY		Method EPA		check HV G&C						
RESULTS			ols were stai	I (IMS) and an immur ned and examined con NALYTE				Cysts Observed	Result per 100L	Result per 1L
Environmental Ass			Е	mpty <i>Giardia</i> Cyst	s Detecte	d		0	ND	ND
Ltd. certifies that al control elements as			G	<i>Giardia</i> Cysts with A	Amorpho	us Structi	ure	0	ND	ND
with the above data been met except as		Giardia	G	<i>Giardia</i> Cysts with O	One Intern	nal Struct	ture	0	ND	ND
noted in the comme	ents		<u>ر</u>	<i>Fiardia</i> Cysts with I	More than	n One Int	ernal Structure	1	10	.1
section. Results rel to the sample.	late only		Т	'otal IFA <i>Giardia</i> (	Count pe	r 100L		1	10	.1
			А	NALYTE				Oocysts Observed	Result per 100L	Result per 1L
			E	mpty Cryptosporid	lium Oocy	sts Dete	cted	0	ND	ND
		(human and		ryptosporidium Oo	cysts wit	h Amorp	hous Structure	0	ND	ND
		Cryptospori	aium C	Eryptosporidium Oc	ocysts wit	h Interna	l Structure	0	ND	ND
			T	otal IFA Cryptosp	oridium	Count pe	er 100L	0	ND	ND
		Comments	Eq	UIVALENT VOLUME EX	AMINED: 1	0L		TECTION LIMIT 100L: <10		tion Limit < <0.100
				methods, laboratory rson certifying the rep				here are any	questions ab	out this
NOTICE: EPA	Method 1	523 indicates 1		le is needed for eve Dr. Susan Boutros	ery 20 fiel	ld sample	es. Please conta DATE COMP		ratory for de ne 15, 2014	
	ANALYSIS IFIED BY	Jusan H. Dr. Susan	Bartur Boutros	President & Lab Director			DATE CERT		ne 26, 2014	



# Laboratory Results for Giardia & Cryptosporidium Analysis

Page 2 of 2

24 Oak Brook Drive • Ithaca • NY • 14850-8717 • Phone (607) 272-8902 • Fax (607) 256-7092

ACCOUNT NO. AD-12701

**EnviroTest Laboratories Inc.** 315 Fullerton Ave. Newburgh

NY 12550

CONTACT Ms. Joyce 1 (845) 562-0890

Esposito Fax 610 375-4090

ACCOR 1N EPA# NY01507 FL -E87851 PA-68-04514

SAMPLE No. 43195

# Quality Control data for

#### Method 1623 Cryptosporidium and Giardia in Water by Filtration/IMS/FA (EPA-815-R-05-002)

EAL Quality Control Serial Number QCGC-14-15

Materials	Lot Number	Expiration Date
WaterborneTM, Inc AccuSpike-IR	81	6/23/2014
Dynal Dynabeads GC-Combo	1078998	9/1/2014
AquaGlo GC Direct	803604	1/1/2015

## **Positive QC Sample**

% Sample	Crypto.	Crypto.	Crypto.
Examined	Spike	Count	% Recovery
100	100	62	62.0
% Sample	Giardia	Giardia	Giardia
Examined	Spike	Count	% Recovery
100	100	74	74.0

Negative QC S	ample		
% Sample Examined 100	<b>Crypto. Spike</b> 0	Crypto. Count	Crypto. % Recovery
% Sample Examined	<b>Giardia Spike</b> 0	Giardia Count 0	Giardia % Recovery 

Note:

	ENVIRONMENTAL	ASSOCIATES LTD.	Page 1 of 1
	24 Oak Brook Driv	e, Ithaca, NY 14850	LED IN ACCORDAN
	(607) 272-8902 Fa		
	REPORT: MICROSCOPIC F		° <b>II HELAP-E8785</b> 1
	NEFONT. MICHOSCOFIC P	Client: Joyce Es	posito
		EnviroTe	st Laboratories Inc.
FILTER ID: 4319	6	<u>315 Fulle</u> Newburg	h NY 12550
Station/Body of wa	ater: Silo Ridge Well # 2	-	
-	- · ·		
RECEIPT OF FILT			
Date Received: 6	5/13/2014 # of filters: <u>NA</u> Ty	vpe: <u>bulk sample</u> Carri	er: <u>FedEx</u>
COLLECTION:			
Collector:	Stacy Stieber	Date & Time Collected:	<u>6/12/2014 9:30am</u>
Temperature:	na °F		<u>na</u>
Water Type:	Ground Water (GW)	Date & Time Processed:	6/13/2014 4:00 PM
	SINC	Date Analyzed:	6/27/2014
FILTER PROCES			
Color of water aro		Total volume of sediment:	<u>0.01 ml</u>
Filter color: Color of sediment	Clear Bulk Water	volume of seament roo galoris.	<u>0.38 ml</u>
# gallons filtered:	2.641	Phase equivalent gallon volume e	xamined: 2.64
ANALYSIS OF P/ key = (EH) - ext (M) -mod	remely heavy [>20/field @ 100X] (H	) - heavy [10-20/field @ 100X] [<1-3/field @ 100X] (NF) - none	found
PARTICULATE D	EBRIS Quantity Description	PROTOZOANS Quantity	Description
Large part. 5 $\mu$ m 8	<b>-</b> 11 <b>-</b> 11	Other Coccidia	
Small part. up to 5		Other protozoans <u>NF</u>	
Plant debris	, <u>NF</u>		
		ALGAE	
OTHER ORGANIS		Green Algae <u>NF</u>	
Nematode eggs			
Rotifers		DiatomsNE	
Crustaceans	NF		
Crustacean eggs	NE		
Insects		Blue-Green Algae <u>NF</u>	· · · · · · · · · · · · · · · · · · ·
Other	NF	Flagellated Algae <u>NF</u>	
	· · · · · · · · · · · · · · · · · · ·		
COMMENTS:			

No biological materials were observed. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk).

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

**REPORT REVIEWED BY:** 

Susan Z. Boutros

DATE: JUNE 30, 2014

E.A.- Rev. April.3, 2006 E.A.- Rev. Feb 15, 2010

President & Lab Director

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample. Environmental Associates, Ltd. Based upon microscopic particulate analysis and the proposed EPA risk Page 2 of 2 COMMENTS: No biological materials were observed. Based upon microscopic particulate analysis and the proposed EPA r factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk). REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis Comments EnviroTest Laboratories Inc. Low Risk REPORT: MICROSCOPIC PARTICULATE ANALYSIS EPA 910/9-92-029 Relative Frequency Relative Risk Factor Utility Name ENVIRONMENTAL ASSOCIATES LTD. 24 Oak Brook Drive, Ithaca, NY 14850 [IMPA] US EPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992. EPA Relative Surface Water Risk Factors (607) 272-8902 Fax (607) 256-7092 President & Lab Director 0000 0 0 **EPA Relative Risk** Silo Ridge Well # 2 ЧZ ЧĽ ЦЦ Ľ ЧZ Well ID# h. (Jautus #/100 gallon 000 0  $\bigcirc$ 0 0 0 0 0 EAL Sample ID: 43196 Dr. Susan Boutros levour , Plant Debris (with chloro.) Non-photo. flag. & ciliates Photosynthetic flagellates Secondary Particulates Primary Particulates REPORT REVIEWED BY: Date: 6/12/2014 nsects/larvae Crustaceans Other Algae Vematodes Diatoms Amoeba Rotifers Other:

								ĺ			
EnviroTest	CHAI	N OF	CHAIN OF CUSTODY	≿	Ľ	$\sim$	U ILLAL			REPORT# (I	REPORT# (Lab Use Only)
Laboratories, Inc.		EnviroTest Laboratories 315 Fullerton Avenue, N	EnviroTest Laboratories 315 Fullerton Avenue, Newburgh, New York 12550 845-562-0890	, New York	12550 8	45-562-1	) ) ) ) )	0			
	PROJECT LOCATION	MATRIX TYPE		REQU	REQUIRED ANALYSES	TASES				PAGE 1 of	
P.O. NUMBER	TOWN		ног		<u> </u>	oltee		<b></b>	səiq		
	CLIENT FAX	. 0) (				19 19			nU al		TURNAROUND TIME
LBG, Inc. 203-929-8555			1 1m04 202 1m			<b>н</b> п`	o2 olta  zsi9 in	619 no	elv Imi	NORMAL	X
cuent wwe Stacey Stieber		OVI (D) 84	40	1mA im mA tëti	19 1m08 		sela im		940	aulcK	
CLIENT ADDRESS 4 Research Drive. Suite 301. Shelton. CT 06484		ι) οι Μ (/					520			VERBAL	,
COMPANY CONTRACTING THIS WORK (Franciscolor)		TAM) 21 InteW pr 21M32 A								#OF COOLERS	
SAMPLE SAMPLE IDENTIFICATION		NOUEOI		NUMBER OF CONTAINERS SUBMITTED	ONTAINE	RS SUB	ATTED				REMARKS
6/12/14 930 516 Edge 102	<u>UN7 K</u>	5	2 3 2	1 3	5	4	4	-	3	Table 8B (Sb,A	Table 8B (Sb,As,Ba,Be,Cd,Cr,Cn,Hg,Ni
		],]								Se,TI,FJ	
							-			Table 8C (NO3,NO2)	NO2)
			1-250ml Zinc Acetate/Sod Hyd	/Sod Hyd			-			Table 8D (CI,Fe	Table 8D (CI,Fe,Mn,Ag,Na,SO4,Zn,Odor,Golor)
			1-250ml Amber Unpres	es						524.2 (POC,MT	524.2 (POC,MTBE, Vinyl Chloride)
			2-250ml Plastaic Unpres.	res.						SOCs (504,508	SOCs (504,508,515,525,531,547,548,549,Dioxins)
			2-40ml Amber Sodium Thio.	n Thio.						Additional Tes	Additional Tests (Total coliform
			1-500 Amber Sod Thio.	ía.	:		•			thru Zinc)	
			1 liter Amber Plastic Sod Thio /H2SO4	Sod. Thio./H2	S04					Dis. Fe, Dis. Mn, Sulfide	ı, Sulfide
			2-11iter Amber Unpres	ġ.						Radon, Gross Alpha/Beta	Alpha/Beta,
			<b>35 Total Containers</b>	ainers						Radium 226/22	Radium 226/228, Total Uranlum
		2			- 1					MPA (including	MPA (including Cypto and Giardia)
					-			_			
RELINQUISHED BY: (SIGNATURE) COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	VATURE)			COM	COMPANY		DATE	TIME
SAMPLED BY (SCUATURE) LA COMPANY	DATE 1/14 TI	TIME OF P	RECEIVED BY: (SIGNATURE)	NATURE)			COM	COMPANY		DATE	TIME
CREINAUGHED BY BOMPUNE	onte/12/14 "	FRD	RECEIVED BY; (SIGNATURE)	VATURE)			COM	COMPANY		DATE	TIME
SUBCONTACT PACE SOC, Radio, Radon (MPA - En	Envirónméntal Assoc.	ЭС			10.120.1						
Recynonication parts we Brutich on Clark 1320	CUSTOOP INTACT COORT TIME YES IVO	ooler Tomo		RKS IC	<b>GE</b> STATE		PH 10.2 Reveived by	Reve	A part of the second		
				•							

ww.pacelabs.com

July 03, 2014

Ron Bayer EnviroTest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550

RE: Project: 42001269 Pace Project No.: 35141945

Dear Ron Bayer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia bo.garcia@pacelabs.com Project Manager

Enclosures

cc: Debra Bayer, EnviroTest Laboratories Inc.
 Renee Cusack, EnviroTest Laboratories Inc.
 Joyce Esposito, EnviroTest Laboratories Inc.
 Janine Rader, EnviroTest Laboratories Inc.
 Meredith Ruthven, EnviroTest Laboratories Inc.



**REPORT OF LABORATORY ANALYSIS** 

ice Analvtical www.pacelabs.com

#### CERTIFICATIONS

Project:	42001269
Pace Project No.:	35141945

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601 ACLASS DOD-ELAP Accreditation #: ADE-1544 Alabama Certification #: 41590 Arizona Certification #: 47030 Arkansas Certification California/TNI Certification #: 04222CA Colorado Certification Connecticut Certification #: PH-0694 **Delaware Certification** Florida/TNI Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idaho Certification Illinois/PADEP Certification Indiana/PADEP Certification Iowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133 Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086 Maine Certification #: PA00091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification Missouri Certification #: 235

#### **Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Arizona Certification #: A20735 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: 983079 Georgia Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification #: E-10383 Kentucky Certification #: P0050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Massachusetts Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity

Montana Certification #: Cert 0082 Nebraska Certification #: NE-05-29-14 Nevada Certification New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Oregon/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 South Dakota Certification Tennessee Certification #: TN2867 Texas/TNI Certification #: T104704188 Utah/TNI Certification #: PA014572014-4 Vermont Dept. of Health: ID# VT-0282 Virgini Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: 2868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin/PADEP Certification Wyoming Certification #: 8TMS-Q

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New Jersey Certification #: FL765 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification #: FL01264 South Carolina Certification :: #96042001 Tennessee Certification :: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 Washington Certification #: 0955 West Virginia Certification #: 9962C Wisconsin Certification #: 190270 Wyoming (EPA Region 8): FL NELAC Reciprocity

**REPORT OF LABORATORY ANALYSIS** 



## SAMPLE SUMMARY

35141945001	Silo Ridge Well 2	Drinking Water	06/12/14 09:30	06/13/14 11:10
Lab ID	Sample ID	Matrix	Date Collected	Date Received
Pace Project No.	.: 35141945			
Project:	42001269			

## **REPORT OF LABORATORY ANALYSIS**



# SAMPLE ANALYTE COUNT

 Project:
 42001269

 Pace Project No.:
 35141945

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35141945001	Silo Ridge Well 2	EPA 504.1	IRL	2	PASI-O
		EPA 508.1	JTJ	18	PASI-O
		EPA 515.3	LJM	8	PASI-O
		EPA 531.1	LAJ	9	PASI-O
		EPA 547	LAJ	1	PASI-O
		EPA 549.2	LAJ	1	PASI-O
		EPA 525.2	WFH	8	PASI-O
		EPA 548.1	EAO	1	PASI-O
		SM 7500Rn-B	FCC	1	PASI-PA
		EPA 900.0	FCC	2	PASI-PA
		EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	JMR	1	PASI-PA
		ASTM D5174.97	RMK	1	PASI-PA

#### **REPORT OF LABORATORY ANALYSIS**

ace Analytical www.pacelabs.com

## ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141945

Sample: Silo Ridge Well 2	Lab ID: 35141945	001 Collected	: 06/12/1	4 09:30	Received: 06	/13/14 11:10 M	atrix: Drinking	Water
Parameters			MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method: E	PA 504.1 Prepa	ration Meth	nod: EP/	A 504.1			
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	<0.0052 ug/L <0.0066 ug/L	0.021 0.011	0.0052 0.0066	1 1	06/20/14 11:50 06/20/14 11:50	06/21/14 00:07 06/21/14 00:07		
508.1 GCS Pesticides	Analytical Method: E	PA 508.1 Prepa	ration Meth	nod: EP/	A 508.1			
Alachlor	<b>&lt;0.032</b> ug/L	0.19	0.032	1	06/18/14 09:30	06/19/14 07:57	15972-60-8	
Atrazine	<b>&lt;0.020</b> ug/L	0.094	0.020	1	06/18/14 09:30	06/19/14 07:57	1912-24-9	
gamma-BHC (Lindane)	<b>&lt;0.0028</b> ug/L	0.019	0.0028	1	06/18/14 09:30	06/19/14 07:57	58-89-9	
Butachlor	<b>&lt;0.014</b> ug/L	0.094	0.014	1	06/18/14 09:30	06/19/14 07:57	23184-66-9	
Chlordane (Technical)	<b>&lt;0.044</b> ug/L	0.19	0.044	1	06/18/14 09:30	06/19/14 07:57	57-74-9	
Dieldrin	<b>&lt;0.013</b> ug/L	0.094	0.013	1	06/18/14 09:30	06/19/14 07:57	60-57-1	
Endrin	<0.0019 ug/L	0.0094	0.0019	1	06/18/14.09:30	06/19/14 07:57	72-20-8	
Heptachlor	<0.0056 ug/L	0.038	0.0056	1	06/18/14 09:30	06/19/14 07:57	76-44-8	
Heptachlor epoxide	<0.0028 ug/L	0.019	0.0028	1		06/19/14 07:57		
Hexachlorobenzene	<0.010 ug/L	0.094	0.010	1	06/18/14 09:30			
Hexachlorocyclopentadiene	<0.030 ug/L	0.094	0.030	1	06/18/14 09:30			
Methoxychlor	<0.013 ug/L	0.094	0.013	1		06/19/14 07:57		
Metolachlor	<0.010 ug/L	0.094	0.010	1		06/19/14 07:57		
PCB, Total	<0.075 ug/L	0.094	0.075	1	06/18/14 09:30			
	<0.0094 ug/L	0.094	0.0094	1				
Propachlor				-	06/18/14 09:30			
Simazine	<0.041 ug/L	0.066	0.041	1	06/18/14 09:30			
Toxaphene	<b>&lt;0.57</b> ug/L	0.94	0.57	1	06/18/14 09:30	06/19/14 07:57	8001-35-2	
Surrogates Decachlorobiphenyl (S)	105 %	70-130		1	06/18/14 09:30	06/19/14 07:57	2051-24-3	
515.3 Chlorinated Herbicides	Analytical Method: El		ation Math			00/10/14 07:07	2001-24-0	
515.5 Onionnated Herbicides	Analytical Method. El		auon men		- 010.0			
2,4-D	<0.081 ug/L	0.10	0.081	1	06/19/14 08:00	06/20/14 07:25	94-75-7	
Dalapon	<b>&lt;0.89</b> ug/L	1.0	0.89	1	06/19/14 08:00	06/20/14 07:25	75-99-0	
Dicamba	<b>&lt;0.067</b> ug/L	0.10	0.067	1	06/19/14 08:00	06/20/14 07:25	1918-00-9	L3
Dinoseb	<0.16 ug/∟	0.20	0.16	1	06/19/14 08:00	06/20/14 07:25	88-85-7	
Pentachlorophenol	<0.030 ug/L	0.040	0.030	1	06/19/14 08:00	06/20/14 07:25	87-86-5	
Picloram	<0.094 ug/L	0.10	0.094	1	06/19/14 08:00	06/20/14 07:25	1918-02-1	
2,4,5-TP (Silvex)	<0.16 ug/L	0.20	0.16	1	06/19/14 08:00	06/20/14 07:25	93-72-1	
Surrogates	-							
2,4-DCAA (S)	89 %	70-130		1	06/19/14 08:00	06/20/14 07:25	19719-28-9	
531.1 HPLC Carbamates	Analytical Method: El	PA 531.1						
Aldicarb	<b>&lt;0.70</b> ug/L	2.0	0.70	1		06/18/14 19:43	116-06-3	
Aldicarb sulfone	<0.60 ug/L	2.0	0.60	1		06/18/14 19:43		
Aldicarb sulfoxide	<0.67 ug/L	2.0	0.67	1		06/18/14 19:43		
Carbofuran	<0.75 ug/L	2.0	0.75	1		06/18/14 19:43		
3-Hydroxycarbofuran	<0.51 ug/L	2.0	0.51	1		06/18/14 19:43		
Methomyl	<0.57 ug/L	2.0	0.57	1		06/18/14 19:43		
Oxamyl	<0.47 ug/L	2.0	0.47	1		06/18/14 19:43		
Carbaryl	<0.28 ug/L	2.0	0.47	1		06/18/14 19:43		
Surrogates	-v.20 uy/L	2.0	0.20	1		00/10/14 18:43	00-20-2	
Propoxur (S)	89 %	80-120		1		06/18/14 19:43	114-26-1	P4

# **REPORT OF LABORATORY ANALYSIS**

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#### ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141945

Sample: Silo Ridge Well 2	Lab ID:	35141945001	Collecter	d: 06/12/14	4 09:30	Received: 06/	13/14 11:10 M	atrix: Drinking \	Nater
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate	Analytical	Method: EPA 5	47						
Glyphosate	<b>&lt;5.4</b> u	g/L	6.0	5.4	1		06/19/14 13:05		
549.2 HPLC Paraquat Diquat	Analytical	Method: EPA 5	49.2 Prepa	aration Meth	nod: EP	A 549.2			
Diquat	<b>&lt;0.15</b> u	g/L	0.40	0.15	1	06/17/14 19:45	06/18/14 13:02	85-00-7	
525.2 Base Neutral Extractable	Analytical	Method: EPA 5	25.2 Prepa	aration Meth	nod: EP	A 525.2			
Aldrin	<b>&lt;0.034</b> u	g/L.	0.094	0.034	1	06/18/14 09:30	06/19/14 19:52	309-00-2	
Benzo(a)pyrene	<0.018 u	g/L	0.094	0.018	1	06/18/14 09:30	06/19/14 19:52	50-32-8	
bis(2-Ethylhexyl)adipate	<b>&lt;0.36</b> u	g/L	1.5	0.36	1	06/18/14 09:30	06/19/14 19:52	103-23-1	
bis(2-Ethylhexyl)phthalate	< <b>0.47</b> u	g/L	1.9	0.47	1	06/18/14 09:30	06/19/14 19:52	117-81-7	
Metribuzin	<0.029 u	g/L	0.28	0.029	1	06/18/14 09:30	06/19/14 19:52	21087-64-9	
Surrogates		•							
1,3-Dimethyl-2-nitrobenzene(S)	115 %	, D	70-130		1	06/18/14 09:30	06/19/14 19:52	81209	
Perylene-d12 (S)	107 %	, D	70-130		1	06/18/14 09:30	06/19/14 19:52	1520963	
Triphenylphosphate (S)	117 %	, D	70-130		1	06/18/14 09:30	06/19/14 19:52	115-86-6	
548.1 GCS Endothall	Analytical	Method: EPA 5	48.1 Prepa	aration Meth	nod: EP	A 548.1			
Endothall	<b>&lt;4.1</b> u	g/L	9.0	4.1	1	06/16/14 16:45	06/17/14 13:22		

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

EPA 531.1

531.1 HPLC Carbamate

Analysis Method:

Analysis Description:

Matrix: Water

 Project:
 42001269

 Pace Project No.:
 35141945

 QC Batch:
 GCSV/1160

QC Batch: GCSV/11600 QC Batch Method: EPA 531.1

Associated Lab Samples: 35141945001

METHOD BLANK: 931282

Associated Lab Samples: 35141945001

Blank Reporting Parameter Units Result Limit Analyzed Qualifiers 3-Hydroxycarbofuran ug/L <0.51 2.0 06/18/14 11:35 Aldicarb ug/L <0.70 06/18/14 11:35 2.0 ug/L Aldicarb sulfone <0.60 2.0 06/18/14 11:35 Aldicarb sulfoxide ug/L <0.67 2.0 06/18/14 11:35 Carbaryl ug/L <0.28 2.0 06/18/14 11:35 Carbofuran <0.75 ug/L 2.0 06/18/14 11:35 Methomyl ug/L <0.57 2.0 06/18/14 11:35 Oxamyl ug/L <0.47 2.0 06/18/14 11:35 Propoxur (S) % 100 80-120 06/18/14 11:35

#### LABORATORY CONTROL SAMPLE: 931283

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L		9.9	99	80-120	
Aldicarb	ug/L	10	10.7	107	80-120	
Aldicarb sulfone	ug/L	10	9.6	96	80-120	
Aldicarb sulfoxide	ug/L	10	9.5	95	80-120	
Carbaryl	ug/L	10	9.7	97	80-120	
Carbofuran	ug/L	10	9.4	94	80-120	
Methomyl	ug/L	10	9.5	95	80-120	
Oxamyl	ug/L	10	9.3	93	80-120	
Propoxur (S)	%			92	80-120	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93128	4		931285							
			MS	MSD								
	922	205207001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
3-Hydroxycarbofuran	ug/L	ND	10	10	10.4	9.9	104	99	80-120	5	20	
Aldicarb	ug/L	ND	10	10	11.4	11.1	114	111	80-120	3	20	
Aldicarb sulfone	ug/L	ND	10	10	9.6	10.5	96	105	80-120	9	20	
Aldicarb sulfoxide	ug/L	ND	10	10	9.7	10.1	97	101	80-120	4	20	
Carbaryl	ug/L	ND	10	10	10.0	10.0	100	100	80-120	.03	20	
Carbofuran	ug/L	ND	10	10	9.7	9.6	97	96	80-120	1	20	
Methomyl	ug/L	ND	10	10	9.9	10.0	99	100	80-120	1	20	
Oxamyl	ug/L	ND	10	10	10.1	10.3	101	103	80-120	2	20	
Propoxur (S)	%	/					95	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	420012	69											
Pace Project No .:	351419	45											
QC Batch:	GCSV	//11615		Analy	sis Method:	: E	EPA 547						
QC Batch Method:	EPA 5	47		Analys	sis Descript	tion: 5	47 HPLC GI	yphosate					
Associated Lab San	nples:	35141945001											
METHOD BLANK:	932403				Matrix: Wa	ter						- · .	
Associated Lab San	nples:	35141945001											
				Blan		eporting							
Paran	neter		Units	Resu	llt 	Limit	Analyz	.ed	Qualifiers	_			
Glyphosate		ug/L			<5.4	6.0	) 06/19/14	10:52					
LABORATORY CON		AMPLE: 93240	4										
				Spike	LCS	6	LCS	% Re	0				
Paran	neter		Units	Conc.	Resu	rlt	% Rec	Limits	i Qi	alifiers	_		
Glyphosate		ug/L		50	)	56.1	112	80	)-120				
MATRIX SPIKE & M	IATRIX S		E: 93240	5		932406							
				MS	MSD								
			42159001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Glyphosate		ug/L	5.4U	50	50	53.7	54.2	107	108	80-120	.9	30	
MATRIX SPIKE & M			E: 93240	7		932408							
				MS	MSD								
		351	42291001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Glyphosate		ug/L	5.4U	50	50	58.4	53.1	117	106	80-120	10	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project: 4200126	Ð												
Pace Project No.: 3514194	5												
QC Batch: OEXT/1	7779		Analys	is Method:	EF	PA 504.1							· · · ·
QC Batch Method: EPA 504	4.1		Analys	is Descripti	ion: 50	4 EDB D	BCP						
Associated Lab Samples: 3	5141945001												
METHOD BLANK: 933211			N	Aatrix: Wat	er								
Associated Lab Samples: 3	5141945001												
			Blank		eporting								
Parameter		Units	Resul	t	Limit	Ana	lyzed	Qualit	fiers	_			
1,2-Dibromo-3-chloropropane	ug/L			0049	0.020		4 20:05						
1,2-Dibromoethane (EDB)	ug/L		<0.	0062	0.010	06/20/1	14 20:05						
LABORATORY CONTROL SA	MPLE & LCSD:	933212		9	33213								·
			Spike	LCS	LCSD	LCS	LCSD	% Rec			Мах		
Parameter	l	Jnits	Conc.	Result	Result	% Rec	% Rec	Limits	RF	PD	RPD	Qu	alifiers
1,2-Dibromo-3-chloropropane	ug/L		.25	0.25	0.25	101	100	70-130		.9	40		
1,2-Dibromoethane (EDB)	ug/L		.25	0.26	0.26	105	105	70-130		.3	40		
MATRIX SPIKE & MATRIX SP	IKE DUPLICATE	E: 93321	4		933215		· · ·					·	· ·
			MS	MSD									
		05207001	Spike	Spike	MS	MSD	MS			% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	ec % R	ec	Limits	RPD	RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	ND	.44	.44	0.48	0.4	5	110	103	65-13	5 7	40	
1,2-Dibromoethane (EDB)	ug/L	ND	.44	.44	0.50	0.4	0	113	109	65-13	54	40	

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## **REPORT OF LABORATORY ANALYSIS**



 Project:
 42001269

 Pace Project No.:
 35141945

QC Batch:	OEXT/17723	Analysis Method:	EPA 508.1
QC Batch Method	: EPA 508.1	Analysis Description:	508 GCS Pesticide
Associated Lab Sa	amples: 35141945001		
METHOD BLANK	929833	Matrix: Water	

Associated Lab Samples: 35141945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	 ug/L	<0.034	0.20	06/17/14 21:57	
Atrazine	ug/L	<0.021	0.10	06/17/14 21:57	
Butachlor	ug/L	<0.015	0.10	06/17/14 21:57	
Chlordane (Technical)	ug/L	<0.047	0.20	06/17/14 21:57	
Dieldrin	ug/L	<0.014	0.10	06/17/14 21:57	
Endrin	ug/L	<0.0020	0.010	06/17/14 21:57	
jamma-BHC (Lindane)	ug/L	<0.0030	0.020	06/17/14 21:57	
leptachlor	ug/L	<0.0060	0.040	06/17/14 21:57	
leptachlor epoxide	ug/L	<0.0030	0.020	06/17/14 21:57	
lexachlorobenzene	ug/L	<0.011	0.10	06/17/14 21:57	
exachlorocyclopentadiene	ug/L	<0.032	0.10	06/17/14 21:57	
lethoxychlor	ug/L	<0.014	0.10	06/17/14 21:57	
letolachlor	ug/L	<0.011	0.10	06/17/14 21:57	
PCB, Total	ug/L	<0.080	0.10	06/17/14 21:57	
Propachlor	ug/L	<0.010	0.10	06/17/14 21:57	
Simazine	ug/L	<0.044	0.070	06/17/14 21:57	
ōxaphene	ug/L	<0.61	1.0	06/17/14 21:57	
Decachlorobiphenyl (S)	%	99	70-130	06/17/14 21:57	

#### LABORATORY CONTROL SAMPLE: 929834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L		1.1	109	70-130	
Atrazine	ug/L	1.2	1.3	104	70-130	
Butachlor	ug/L	.5	0.54	108	70-130	
Dieldrin	ug/L	.5	0.56	113	70-130	
Endrin	ug/L	.05	0.060	121	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.10	103	70-130	
Heptachlor	ug/L	.2	0.21	106	70-130	
Heptachlor epoxide	ug/L	.1	0.11	108	70-130	
Hexachlorobenzene	ug/L	.5	0.49	98	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.43	85	70-130	
Methoxychlor	ug/L	.5	0.57	115	70-130	
Metolachlor	ug/L	.5	0.53	105	70-130	
Propachlor	ug/L	.5	0.52	104	70-130	
Simazine	ug/L	.88	0.95	108	70-130	
Decachlorobiphenyl (S)	%			89	70-130	

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

 Project:
 42001269

 Pace Project No.:
 35141945

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 93086	6		930867							
			MS	MSD								
	50	099103001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Alachlor	ug/L	ND	2	2	2.2	2.2	112	112	70-130	.03	40	
Atrazine	ug/L	ND	2.5	2.5	2.6	2.6	105	103	70-130	2	40	
Butachlor	ug/L	ND	1	1	1.1	1.1	110	111	70-130	.6	40	
Dieldrin	ug/L	ND	1	1	1.1	1.2	115	116	70-130	.6	40	
Endrin	ug/L	ND	.1	.1	0.12	0.12	121	123	70-130	2	40	
gamma-BHC (Lindane)	ug/L	ND	.2	.2	0.21	0.21	106	107	70-130	1	40	
Heptachlor	ug/L	ND	.4	.4	0.43	0.43	107	109	70-130	2	40	
Heptachlor epoxide	ug/L	ND	.2	.2	0.22	0.22	111	112	70-130	.8	40	
Hexachlorobenzene	ug/L	ND	1	1	0.99	1.0	99	101	70-130	2	40	
Hexachlorocyclopentadiene	ug/L	ND	1	1	0.92	1.0	92	102	70-130	10	40	
Methoxychlor	ug/L	ND	1	1	1.2	1.2	122	123	70-130	1	40	
Metolachlor	ug/L	ND	1	1	1.1	1.1	108	109	70-130	1	40	
Propachlor	ug/L	ND	1	1	1.1	1.1	106	107	70-130	.6	40	
Simazine	ug/L	ND	1.8	1.8	1.7	1.7	97	94	70-130	2	40	
Decachlorobiphenyl (S)	%						108	101	70-130		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



 Project:
 42001269

 Pace Project No.:
 35141945

QC Batch:	OEXT/17752	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
Associated Lab San	nples: 35141945001		

Matrix: Water

## METHOD BLANK: 931619

Associated Lab Samples: 35141945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.16	0.20	06/20/14 00:10	
2,4-D	ug/L	<0.081	0.10	06/20/14 00:10	
Dalapon	ug/L	<0.89	1.0	06/20/14 00:10	
Dicamba	ug/L	<0.067	0.10	06/20/14 00:10	
Dinoseb	ug/L.	<0.16	0.20	06/20/14 00:10	
Pentachlorophenol	ug/L	<0.030	0.040	06/20/14 00:10	
Picloram	ug/L	<0.094	0.10	06/20/14 00:10	
2,4-DCAA (S)	%	105	70-130	06/20/14 00:10	

#### LABORATORY CONTROL SAMPLE: 931620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L		1.1	108	70-130	
2,4-D	ug/L	.5	0.51	103	70-130	
Dalapon	ug/L	5	5.7	114	70-130	
Dicamba	ug/L	.5	0.66	131	70-130 L	0
Dinoseb	ug/L	1	1.2	118	70-130	
Pentachlorophenol	ug/L	.2	0.24	118	70-130	
Picloram	ug/L	.5	0.42	83	70-130	
2,4-DCAA (S)	%			102	70-130	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICATE	: 93234	4		932345							
			MS	MSD								
	9220	05585001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1	1	0.84	0.83	84	83	70-130	1	40	
2,4-D	ug/L	ND	.5	.5	0.38	0.44	75	87	70-130	14	40	
Dalapon	ug/L	ND	5	5	5.1	5.0	102	100	70-130	2	40	
Dicamba	ug/L	ND	.5	.5	0.61	0.58	122	115	70-130	6	40	
Dinoseb	ug/L	ND	1	1	1.2	1.1	115	107	70-130	8	40	
Pentachlorophenol	ug/L	ND	.2	.2	0.21	0.21	106	106	70-130	.7	40	
Picloram	ug/L	ND	.5	.5	0.40	0.42	80	85	70-130	6	40	
2,4-DCAA (S)	%						83	77	70-130			

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## **REPORT OF LABORATORY ANALYSIS**

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 Project:
 42001269

 Pace Project No.:
 35141945

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93234	6		932347							
			MS	MSD								
	35	142030001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.80	0.87	80	87	70-130	8	40	
2,4-D	ug/L	0.081U	.5	.5	0.38	0.38	76	75	70-130	.3	40	
Dalapon	ug/L	0.89U	5	5	5.1	5.4	101	108	70-130	6	40	
Dicamba	ug/L	0.067U	.5	.5	0.62	0.65	123	130	70-130	6	40	
Dinoseb	ug/L	0.16U	1	1	1.0	1.1	102	113	70-130	11	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	0.21	0.23	102	113	70-130	9	40	
Picloram	ug/L	0.094U	.5	.5	0.42	0.44	83	88	70-130	6	40	
2,4-DCAA (S)	%						83	85	70-130			

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## **REPORT OF LABORATORY ANALYSIS**



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## QUALITY CONTROL DATA

EPA 525.2

525.2 Base Neutral Extractables

Analysis Method:

Analysis Description:

 Project:
 42001269

 Pace Project No.:
 35141945

 QC Batch:
 OEXT/177

QC Batch: OEXT/17743 QC Batch Method: EPA 525.2

Associated Lab Samples: 35141945001

METHOD BLANK: 930864 Matrix: Water Associated Lab Samples: 35141945001 Blank Reporting Units Parameter Result Limit Analyzed Qualifiers Aldrin ug/L < 0.036 0.10 06/19/14 16:07 Benzo(a)pyrene ug/L < 0.019 0.10 06/19/14 16:07 bis(2-Ethylhexyl)adipate ug/L <0.38 1.6 06/19/14 16:07 bis(2-Ethylhexyl)phthalate ug/L < 0.50 2.0 06/19/14 16:07 0.30 06/19/14 16:07 Metribuzin <0.031 ug/L 1,3-Dimethyl-2-nitrobenzene(S) % 122 70-130 06/19/14 16:07 Perylene-d12 (S) % 111 70-130 06/19/14 16:07 Triphenylphosphate (S) % 107 70-130 06/19/14 16:07

#### LABORATORY CONTROL SAMPLE: 930865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	.4	0.36	91	70-130	
Benzo(a)pyrene	ug/L	.4	0.46	114	70-130	
bis(2-Ethylhexyl)adipate	ug/L	6.4	6.7	105	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	7.7	96	70-130	
Metribuzin	ug/L	1.2	<b>1</b> .1	88	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			106	70-130	
Perylene-d12 (S)	%			116	70-130	
Triphenylphosphate (S)	%			114	70-130	

MATRIX SPIKE & MATRIX SP	PIKE DUPLICAT	E: 93120	9		931210							
Parameter	35 Units	141563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	<0.034	.8	.8	0.76	0.66	95	82	70-130	14	40	
Benzo(a)pyrene	ug/L	<0.018	.8	.8	0.83	0.83	104	104	70-130	.2	40	
bis(2-Ethylhexyl)adipate	ug/L	<0.36	12.8	12.8	14.7	14.5	115	113	70-130	1	40	
bis(2-Ethylhexyl)phthalate	ug/L	<0.47	16	16	16.4	16.7	101	103	70-130	2	40	
Metribuzin	ug/L	<0.029	2.4	2.4	2.2	2.2	90	91	70-130	.2	40	
1,3-Dimethyl-2- nitrobenzene(S)	%						109	115	70-130			
Perylene-d12 (S)	%						106	108	70-130			
Triphenylphosphate (S)	%						111	107	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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Project:	42001269	9											
Pace Project No.:	35141945	5											
QC Batch:	OEXT/1	7714		Analys	sis Method:	E	EPA 548.1		•				
QC Batch Method:	EPA 548	3.1		Analys	sis Descript	tion: 5	548 GCS End	dothall					
Associated Lab San	nples: 3	5141945001											
METHOD BLANK:	929663			1	Matrix: Wa	ter						. <u>.</u> .	
Associated Lab San	nples: 3	5141945001											
				Blank	K R	eporting							
Paran	neter	UU	nits	Resu	t	Limit	Analyz	ed	Qualifiers				
Endothall		ug/L			<4.1	9.0	06/17/14	07:28					
LABORATORY CON	NTROL SA	MPLE: 929664			·								
				Spike	LCS	6	LCS	% Red					
Paran	neter	U	nits	Conc.	Resu	ilt	% Rec	Limits	Qu	ualifiers	_		
Endothall		ug/L		50		57.0	114	80	-120		_		
MATRIX SPIKE & M			92987			929880	<del></del>						
			02001	MS	MSD	020000							
		3514	1528001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall		ug/L	4.1U	50	50	47.6	54.3	95	109	80-120	13	40	
MATRIX SPIKE & M			92988			929882			· · • · · · · · · · · · · · · · · · · ·	<u> </u>			
			02000	MS	MSD	020002							
		3514	1901008	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall			<4.1	50	50	<4.1	10.5	0	21	80-120		40	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project:	42001269												
Pace Project No.:	35141945												
QC Batch:	OEXT/177	15		Analys	is Method:	E	EPA 549.2						
QC Batch Method:	EPA 549.2			Analys	is Descript	tion: 5	49 HPLC Pa	raquat Diq	uat				
Associated Lab Sar	nples: 3514	41945001											
METHOD BLANK:	929666			P	Aatrix: Wat	ter							_
Associated Lab Sar	nples: 3514	1945001											
Paran	notor		Units	Blank Resu		eporting Limit	Analyz	ed	Qualifiers				
	iletei								Quamers	_			
Diquat		ug/L			<0.15	0.40	) 06/18/14	11:48					
LABORATORY CON	NTROL SAMF		7	-					··				
				Spike	LCS	;	LCS	% Rec	;				
Paran	neter	i	Units	Conc.	Resu	lt	% Rec	Limits	Qu	alifiers			
Diquat		ug/L		2		1.9	93	80	-120				
MATRIX SPIKE & M			E: 92966	8		929669			· · -··				
				MS	MSD								
			42053001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Diquat		ug/L	0.00015 U mg/L	2	2	1.5	<0.15	77	0	80-120		30	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141945

Sample: Silo Ridge Well 2 PWS:	Lab ID: 35141 Site ID:	I945001 Collected: 06/12/14 09: Sample Type:	30 Received:	06/13/14 11:10	Matrix: Drinking	Water
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM 7500Rn-B	1074 ± 76.6 (67.4) C:NA T:NA	pCi/L	06/16/14 17:36	10043-92-2	
Gross Alpha	EPA 900.0	1.66 ± 0.685 (0.983) C:NA T:NA	pCi/L	06/28/14 16:54	12587-46-1	
Gross Beta	EPA 900.0	2.68 ± 0.683 (1.06) C:NA T:NA	pCi/L	06/28/14 16:54	12587-47-2	
Radium-226	EPA 903.1	1.27 ± 0.709 (0.850) C:NA T:86%	pCi/L	06/27/14 10:50	13982-63-3	
Radium-228	EPA 904.0	0.789U ± 0.411 (0.789) C:72% T:90%	pCi/L	06/30/14 15:19	15262-20-1	
Total Uranium	ASTM D5174.97	0.472 ± 0.011 (0.193) C:NA T:NA	ug/L	07/02/14 15:15	5 7440-61-1	

## **REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

## QUALITY CONTROL DATA

Project:	42001269						
Pace Project No.:	35141945						
QC Batch:	RADC/20294		Analysis Method:	ASTM D51	74.97		
QC Batch Method:	ASTM D5174.97	7	Analysis Descriptio	n: D5174.97 1	Total Uranium KPA		
Associated Lab Sar	mples: 3514194	5001					
METHOD BLANK:	748659		Matrix: Wate	r			
Associated Lab Sar	mples:						
Parar	neter	Act ± 0	Jnc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Total Uranium		0.046 ± 0.001	(0.193) C:NA T:NA	ug/L	07/02/14 14:26		

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## **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Project:	42001269						
Pace Project No.:	35141945						
QC Batch:	RADC/20273	Analysis M	ethod:	EPA 900.0			
QC Batch Method:	EPA 900.0	Analysis De	escription:	900.0 Gros	s Alpha/Beta		
Associated Lab Sar	mples: 3514194	5001					
METHOD BLANK:	747925	Matrix	k: Water				
Associated Lab Sat	mples:						
Para	meter	Act ± Unc (MDC) Carr Tra	IC	Units	Analyzed	Qualifiers	
Gross Alpha		0.099 ± 0.607 (1.60) C:NA T:NA	pCi	/L	06/28/14 16:59		
Gross Beta		0.308 ± 0.729 (1.69) C:NA T:NA	pCi	/L	06/28/14 16:59		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project:	42001269					
Pace Project No.	.: 35141945					
QC Batch:	RADC/20226	· · · · ·	Analysis Method:	EPA 903.1		
QC Batch Metho	d: EPA 903.1		Analysis Descriptio	n: 903.1 Radiu	um-226	
Associated Lab S	Samples: 351419	45001				
METHOD BLAN	K: 746949		Matrix: Water	-		
Associated Lab §	Samples:					
Pa	rameter	Act ± Ur	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226		-0.308 ± 0.599	(0.988) C:NA T:90%	pCi/L	06/27/14 11:16	

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## **REPORT OF LABORATORY ANALYSIS**

<sup>s</sup>ace Analytical www.pacelabs.com

Project:	42001269					
Pace Project No.	.: 35141945					
QC Batch:	RADC/20292		Analysis Method:	EPA 904.0		
QC Batch Metho	d: EPA 904.0		Analysis Description	n: 904.0 Radiu	um 228	
Associated Lab S	Samples: 3514194	45001				
METHOD BLAN	K: 748657		Matrix: Water	-		
Associated Lab S	Samples:					
Pa	rameter	Act ± U	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.355 ± 0.371	(0.767) C:68% T:90%	pCi/L	06/30/14 15:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project:	42001269				
Pace Project No.:	35141945				
QC Batch:	RADC/20156	Analysis Method:	SM 7500Rr	n-B	
QC Batch Method	I: SM 7500Rn-B	Analysis Descripti	on: 7500Rn B I	Radon	
Associated Lab S	amples: 3514194	5001			
METHOD BLANK	. 743558	Matrix: Wate	er		
Associated Lab S	amples:				
Par	ameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radon		6.2 ± 17.9 (30.7) C:NA T:NA	pCi/L	06/16/14 16:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

Project:	42001269
Pace Project No.:	35141945

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-PA Pace Analytical Services - Greensburg

#### WORKORDER QUALIFIERS

#### WO: 35141945

[1] Data was corrected on 6/17/2014 by JLK. The report mis-flagged the result as less than the MDC.

## ANALYTE QUALIFIERS

- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 42001269

 Pace Project No.:
 35141945

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35141945001	Silo Ridge Well 2	EPA 504.1	OEXT/17779	EPA 504.1	GCSV/11634
35141945001	Silo Ridge Well 2	EPA 508.1	OEXT/17723	EPA 508.1	GCSV/11592
35141945001	Silo Ridge Well 2	EPA 515.3	OEXT/17752	EPA 515.3	GCSV/11619
35141945001	Silo Ridge Well 2	EPA 531.1	GCSV/11600		
35141945001	Silo Ridge Well 2	EPA 547	GCSV/11615		
35141945001	Silo Ridge Well 2	EPA 549.2	OEXT/17715	EPA 549.2	GCSV/11603
35141945001	Silo Ridge Well 2	EPA 525.2	OEXT/17743	EPA 525.2	MSSV/6345
35141945001	Silo Ridge Well 2	EPA 548.1	OEXT/17714	EPA 548.1	MSSV/6334
35141945001	Silo Ridge Well 2	SM 7500Rn-B	RADC/20156		
35141945001	Silo Ridge Well 2	EPA 900.0	RADC/20273		
35141945001	Silo Ridge Well 2	EPA 903.1	RADC/20226		
35141945001	Silo Ridge Well 2	EPA 904.0	RADC/20292		
35141945001	Silo Ridge Well 2	ASTM D5174.97	RADC/20294		

## **REPORT OF LABORATORY ANALYSIS**

	•				EmviroTect	These the
	5	chain of Cus	Chain of Custody Record			
Newburgn, NY 12550 Phone (845) 562-0890 Fax (845) 562-0841					Labor	Laboratories Inc.
Client Information (Sub Contract Lab)	Sampler,	Lab PM: Bayer, Debra	Lab PM: Bayer, Debra	Carrier Tracking No(5):	COC No: 420-7068,1	
Ciloni Contact: Shinonica/Receiving	Phone:	E-Mait: dbaver@envir	otestlaboratories.com		Page 1 of 1	
Company: Pace Analytical Ormond Beach			l .≌	Requested	STL Job #: 420-78776-2	
Address: 8 East Tower Circle.	Due Date Requested: 6/24/2014				Preservation Codes:	10S: M - Horses
City Ormond Beach State, Zir:	TAT Requested (days):		ticides in ganics	a, 1967, a. 19 	8 - NaOH 6 - Zh Acetate 7 - Nitric Acid 7 - Nitric Acid	N - Nucle N - None O - AsinaO2 P - Na2O45 D - Na2SO45
FL, 321/4 Phono: 111.202-333377.ett	PO#	n ur Maiste	eeq ete IO elite A\825 A		F - MeOH G - Amchlor	R - Na2S2SO3 S - H2SO4 T - TSD Dodarahadala
Email:	*# OM	(QN	medrit Iovimi AR/B/B/			U - Acctona V - MCAA
Project Name: LBG, Inc.	Project # 42001269	10(59)	1.11 C. 1.2 S. 35 1.4 D 0 C. 1.4 D 0 C. 1.4 D 0 1 1.4 D 0 0 1 1.4 D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	81 21	nisin - T - MOA	W - ph 4-5 Z - other (specity)
	SSOW#;	())ds dwes	28 /10 29 /10 20 /10 20 /10 20 /10	/10 /1/ P	Other.	
	Sample	MARTX MARTX (www.mar. (www.mar. Marting Martin	АЯТИОЗДО АЯТИОЗВИ АЯТИОЗВИ АЯТИОЗВИ АЯТИОЗВИ АЯТИОЗВИ АЯТИОЗВИ	аятиораи ивсоитка иаятиораи	19dmiy Islo	
Sample Identification Client ID (Lab ID)	Sample Date 1 me G-grau)	۶ N	S S S S S	S S S	R.	opecial ilisurucijorismole:
Silo Ridge Well 2 (420-78776-2)	9:30		X X X X X	X X X	18	
		:#0M	35141945	IJ		
		35141945				
gut	Poison B 🔲 Unknown 🛄 Radiological		Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) — Return To Client Disposal By Lab Archive For Mon	assessed if samples are Disposal By Lab	Archive For	( month) Months
Deliverable Requested: I, II, IV, Other (specify)		Speci	Special Instructions/QC Requirements:			
inquished by:	Date:	Time:		Method of Shipment		
Reprised the ALLAN	112/14 1630	7	Rocaived by // LEWA	DatoTimo	13/14 110	Company
) Relifiquishdd by:	Date/Time: 4		Received by:	Date/Time		Сотрапу
C Relinquished by:	DaterTimo:	Company	Received by:	Date/Time:		Company
Custody Seals Intact: Custody Seal No.:		ð	Cooler Temporature(s) °C and Other Remarks.	ternation $1.3^{\circ}$ C	891-	
1						

Page 25 of 32

EnviroTest Laboratories, Inc.

EnviroTest

	Document Name:		Document Revised: October 9, 2013
Pace Analytical	Sample Condition Upon Receipt Form Document No.:		Issuing Authonities: Pace Florida Quality Office
	F-FL-C-007 rev. 05		
Sar	nple Condition Upon Receip	ot Form (SCUR)	Table Number
	Client Name: Enviro	<u>T-est</u> P	Project #_ 35141945
Courier: 😾 Fed Ex 🗌 UPS	USPS Client Commercial	I 🗍 Pace	Olher
	286072197/30		
Custody Seal on Cooler/Box	Present: yes no Seal	s intact: 🗍 yes 🗍 no	Date and Initials of person examining contents:
1	- (6 S Type of Ice: We		1110 .
Cooler Temperature'C			(Actual) (Actual) (Actual) (Actual)
	a total		
Receipt of samples satisf	actory: 🛛 Yes CiNo		Rush TAT requested on COC:
If yes, then all conditions be	elow were met:		x & describe issue (use comments area if necessary):
Chain of Custody Present			anitad Divis- but an
Chain of Custody Filled Out			<u>ceived</u> Dixion but no
Relinquished Signature & San	npler Name COC	<u> </u>	1 COC
Samples Arrived within Hold T	line	· 🖬	
	<u></u>		
Sufficient Volume			
Correct Containers Used			
		0	
Sample Labels match COC (s	ample IDs & date/time of collection)	□ No Labels: □ N	lo Time/Date on Labels:
All containers needing preservation compliance with EPA recommend	Jation.	0	
No Headspace in VOA Vials (	>6mm):		
Client Netification/ Resolution			
	a a second de la constant de la cons	e/Time:	
Comments/ Resolution (use b	ack for additional comments):	and the second s	
······································			
		and the second	
·			
- to the second Devices	• •		Date:
Project Manager Review:			
· · · · · · · · · · · · · · · · · · ·	Finished Product	Information Only	у
F.P. Sample ID:			Size & Qty of Bottles Received x 5 Gal
Production Code:			x 2.5 Gal x 1 Gal
Date/Time Opened:		. •	x 1 Liter x 500 mL
Number of Unopened Bottle	s Remaining:		x 250 mL x Other:
Extra Sample in	Shed: Yes No		



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## **Report Prepared for:**

Client Services PASI Florida 8 East Tower Circle Ormond Beach FL 32174

# REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

## **Report Summary:**

**Report Prepared Date:** June 26, 2014

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

## **Report Information:**

Pace Project #: 10270954 Sample Receipt Date: 06/17/2014 Client Project #: 35141945 Client Sub PO #: N/A State Cert #: E87605

## **Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to , your Pace Project Manager.

## This report has been reviewed by:

June 26, 2014 Nate Boberg, Project Manager

(612) 607-6444 (fax) nate.boberg@pacelabs.com



## **Report of Laboratory Analysis**

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The results relate only to the samples included in this report.

Page 27 of 32



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

# **REPORT OF LABORATORY ANALYSIS**



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612-607-6444

# **Reporting Flags**

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- Interference present =
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X =%D Exceeds limits
- Y = Calculated using average of daily RFs
- = See Discussion

# **REPORT OF LABORATORY ANALYSIS**

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EMT-ALL-C-002rev.00 24March2009	FMT-ALL-C-002re		Saturday, June 14. 2014 4:34:10 AM
			Page 30 of 3
·	Please E-Mail all results in a NELAC-compliant Florida MDL PDF format to the PM listed above as soon as possible	Please E-Mail all r NELAC-compliant PDF format to the as soon as possible	
Samples Intact Y )or N	Received on Ice (Y) or N S	ビルイ。C Custody Seal Y or (N)	Cooler Temperature on Receipt
		1 1	3
	and the	Colicilyakoo Dat Pace	1 2
comments	Date/Time	Date/Time Received By	Transfers Released By
			ν (α) 4 (0)
		PS 6/12/2014 09:30 35141945001 Drinking <b>A</b>	1 Silo Ridge Well 2
LAB USE ONLY		Sample Collect Type DateTime Lab ID Martx	from Sample ID
	R nixoid 8,7, £181 yd £181 yd	1 / 00 Eim Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Preserved O	Face Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668
	Requested Analysis	Subcontract To	Report To
Results Requested By: 6/27/2014	Owner Received Date: 6/13/2014 Resul		Workorder: 35141945 Wo
Achortol			Chain of Custody
HSPOLEON		• •	, х.

Report No.....10270954\_1613DW

	Bernet (1948)		Doc	ument N	ame:		Docun	nent Revised: 28F	eb2014	
	Pace Analytical	•	Sample Condi			Form		Page 1 of 1		
and the second sec				ocument l N-L-213-r			Pace I	Issuing Authority Minnesota Quality		
Sample Condition	Client Name:	· · · · · · · · · · · · · · · · · · ·			roject #:					
Upon Receipt	Pare S	-L		r	i ojeci #.		#:1(	02709	54	•
ourier;	Fed Ex			 []Clie	nt					:.
Commercial	Pace 608194	 SpeeDee		C		1027(	8954	· · · · · · · · · · · · · · · · · · ·		
Custody Seal on Cool	er/Box Present?	Ves 🕅	No Se	eals Intac	t? □Y	es 🕅 Mo	Option	al: Proj. Due Da	ite: Proj	. Name:
Packing Material:	Bubble Wrap	Bubble Ba	gs 🔄 None	⊡ot	her:			Temp Blank	Yes	No
hermom. Used:	388A9130516413	B88A91216	7504	of Ice:	Wet	Blue	None	Samples on ice	, cooling proc	•
Cooler Temp Read (°C	1: 4:3	Cooler Temp (	Corrected (°C):	4.4	U	Bi	ological Tiss	ue Frożen?	Yes 🗍 No	
emp should be above	freezing to 6°C	Correction F	actor: 10.1		Date a		•	mining Contents	il	.1
	· · · · · · · · · · · · · · · · · · ·							Comments:		
Chain of Custody Pr	esent?	······	Yes	No		1.				
Chain of Custody Fi	lled Out?		<b>N</b> Yes	[]No		2.				<u> </u>
Chain of Custody Re	linquished?	·	Ves	No		3.				
Sampler Name and,	or Signature on CO	C?	Yes	ZINO		4.			<u> </u>	
Samples Arrived wit	thin Hold Time?		Yes	No		5.				
Short Hold Time Ar	alysis (<72 hr)?	· · · · · · · · · · · · · · · · · · ·	Yes	KINO		6.		·	· · ·	
Rush Turn Around	Time Requested?		Yes	No		7.		· · · · ·	•	
Sufficient Volume?			Yes	No		8.				
Correct Containers	Used?		Yes	No		9.				
-Pace Containers	Used?		Yes	No						· · ·
Containers Intact?			Yes	[]No		10.				
Filtered Volume Reg	eived for Dissolved	Tests?	[]Yes	No	×.	11,				
Sample Labels Mate	h CÓC?		X XVes	[]No		12.				
-includes Date/Ti	ime/ID/Analysis M	<sub>latrix:</sub> N			N//A					
All containers needi			en 🗍 Yes	[]No	NA	13.	 HNO₃	∐H₂SO₄ [	NaOH	Пнсі
checked? All containers needi	ng preservation are	found to be in				Sample #	, <b>, , , , , , , , , , , , , , , , ,</b>			<u> </u>
compliance with EP			Yes	□No	N/A	Sauble #		a.		
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<: Exceptions: VOA, Co			ide)			Initial wher		Lot # of	added	
DRO/8015 (water) [		i Grease,	∐Yes	No.		completed:		, Dreserva		
Headspace in VOA \	/ials ( >6mm)?		∐Yes	No	N/A	14.			<del>.</del>	
Trip Blank Present?		- E	Yes	No	S. S.	15.				
Trip Blank Custody S	Seals Present?		Yes	No	N/A					
Pace Trip Blank Lot										
<u></u>			· · · · · · · · · · · · · · · · · · ·					· · · · · ·		
LIENT NOTIFICATION					-	- /7:		d Data Required		
	ontacted:				Dat	e/ IIme:			·V-=	
Comments/Re	esolution:									
	124	RA					1 -1	7-14		
roject Manager Revi	ew: / 0	XC	<u> </u>			Date:	6-1		Contification	Office 11
Project Manager Revi lote: Whenever there is old, incorrect preservativ	a discrepancy affection			npies, a co	opy of this	Date: form will be s	6-1 ent to the Nor	ノーして th Carolina DEHNR	Certification (	Office ( )

Pace Analytical<sup>™</sup>

Pace AnalyticalServices, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

Drinking Water Analysis Results 2,3,7,8-TCDD -- USEPA Method 1613B Tel: 612-607-1700 Fax: 612-607-6444

## Sample ID.....Silo Ridge Well 2

Client..... PASI Florida Lab Sample ID..... 35141945001 Date Collected.....06/12/2014 Date Received.....06/17/2014 Date Extracted.....06/24/2014

	Sample Silo Ridge Well 2	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND		
RL	3.8 pg/L	4.6 pg/L		
2,3,7,8-TCDD Recovery	 		96%	90%
Spike Recovery Limit			73-146%	73-146%
RPD			6.	9%
IS Recovery	94%	74%	82%	80%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	90%	83%	96%	85%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename Analysis Date	R140625A_23 06/25/2014	R140625A_10 06/25/2014	R140625A_08 06/25/2014	R140625A_12 06/25/2014
Analysis Time	22:58	16:00	15:09	16:43
Analyst	CVS	CVS	CVS	CVS
Volume	1.017L	1.021L	1.033L	0.998L
Dilution	NA	NA	NA	NA
ICAL Date	07/19/2013	07/19/2013	07/19/2013	07/19/2013
CCAL Filename	R140625A_05	R140625A_05	R140625A_05	R140625A_05

! = Outside the Control Limits

ND = Not Detected

RL = Reporting Limit

Analyst: \_\_\_\_ Surpr

- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard  $[2,3,7,8-TCDD-{}^{13}C_{12}]$
- CS = Cleanup Standard  $[2,3,7,8-TCDD-{}^{37}Cl_4]$

Report No.....10270954\_1613DW

## **WELL 11**

# WATER QUALITY

LEGGETTE, BRASHEARS & GRAHAM, INC.

# EnviroTest Laboratories Inc.

## ANALYTICAL REPORT

Job Number: 420-78776-1 SDG Number: Silo Ridge Job Description: LBG, Inc.

For: Leggette, Brashears & Graham, Inc. 4 Research Drive Shelton, CT 06464

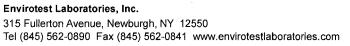
Attention: Stacy Stieber

- Dales - Berger

Debra Bayer Customer Service Manager dbayer@envirotestlaboratories.com 07/24/2014

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554





## **METHOD SUMMARY**

Client: Leggette, Brashears & Graham, Inc.

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Nitrate-Nitrite Lachat	EnvTest	QuickChem 10	D-107-04-1C
ICP Metals by 200.7 Sample Filtration 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.7	EnvTest EnvTest EnvTest EnvTest	EPA 200.7 Re	v 4.4 FILTRATION EPA 200 EPA 200.7
ICPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.8	EnvTest EnvTest EnvTest	EPA 200.8	EPA 200 EPA 200.8
Apparent Color	EnvTest	SM21 2120B	
Mercury in Water by CVAA Digestion for CVAA Mercury in Waters	EnvTest EnvTest	EPA 245.1	EPA 245.1
Anions by Ion Chromatography	EnvTest	MCAWW 300.	0
EPA 504.1 EDB	Pace	EPA 504.1	
EPA 505 Pesticide/PCB	Pace	EPA 505	
Purgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	2
EPA 525.2 Semivolatile Organics	Pace	EPA 525.2	
EPA 531.1 Carbamate Pesticides in Drinki	Pace	EPA 531.1	
EPA 900 Series GA/GB/RA226/RA228/Gamma	Pace	EPA 900	
Uranium	Pace	STL-STL EPA	
Heterotropic Plate Count	EnvTest	IDEXX SIMPL	ATE
Turbidity	EnvTest	SM20 SM 213	0B
Odor, Threshold Test	EnvTest	SM20 SM 215	0B
Alkalinity, Titration Method	EnvTest	SM18 SM 232	0B
Corrosivity LSI Calculation	EnvTest	SM20 SM 233	0B
Hardness by Calculation	EnvTest	SM20 SM 234	0B
Total Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 254	0C
Chloride by Silver Nitrate Titration	EnvTest	SM18 SM 450	0 CI- B
Cyanide, Total: Colorimetric Method Cyanide: Distillation	EnvTest EnvTest	SM18 SM 450	0 CN E SM18 SM 4500 CN C
рH	EnvTest	SM19 SM 450	0 H+ B
Sulfide (Methylene Blue method)	EnvTest	SM20 SM 450	0 S2 D
Nitrite by Colormetric	EnvTest	SM20 SM 450	0B
Total Coliform and Escherichia coli by Colilert - Presence/Absence	EnvTest	SMVVV SM 92	223
General Sub Contract Method	Env.Assoc.	Subcontract	

## METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Description	Lab Location	Method	Preparation Method			
Matrix: Water						
General Sub Contract Method	Pace	Subcontract				
Lab References:						
Env.Assoc. = Environmental Associates						
EnvTest = EnviroTest						
Pace = Pace Analytical - Ormond Beach						
Method References:						
EPA = US Environmental Protection Agency						
EPA-DW ≠ "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.						
IDEXX =						
MCAWW = "Methods For Chemical Analysis Of Water And Wastes"	, EPA-600/4-79-020, M	arch 1983 And S	ubsequent Revisions.			
QuickChem = Lachat QuickChem Manual						
SM18 = "Standard Methods For The Examination Of Water And Wa	astewater', 18th Edition	, 1992.				
SM19 = "Standard Methods For The Examination Of Water And Wa	astewater', 19Th Editior	n, 1995."				
SM20 = "Standard Methods For The Examination Of Water And Wa	SM20.= "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."					
SM21 = "Standard Methods For The Examination Of Water And Wastewater", 21st Edition						
SMWW = "Standard Methods for the Examination of Water and Wa	stewater"					
STL-STL = Severn Trent Laboratories, St. Louis, Facility Standard (	Operating Procedure.					

## METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	McPhillips, Julie	JM
EPA 200.8	McPhillips, Julie	JM
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	McPhillips, Julie	JM
QuickChem 10-107-04-1C	Cusack, Renee	RC
SM21 2120B	Luis, Carlos	CL
MCAWW 300.0	Ulanmo, RoseAnn	RU
IDEXX SIMPLATE	Luis, Carlos	CL
SM20 SM 2130B	Luis, Carlos	CL
SM20 SM 2150B	Luis, Carlos	CL
SM18 SM 2320B	Goldstein, Amy	AG
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Travis, Lyndsey	LT
SM18 SM 4500 CI- B	Goldstein, Amy	AG
SM18 SM 4500 CN E	Cusack, Renee	RC
SM19 SM 4500 H+ B	Luis, Carlos	CL
SM20 SM 4500 S2 D	Goldstein, Amy	AG
SM20 SM 4500B	Ulanmo, RoseAnn	RU
SMWW SM 9223	Luis, Carlos	CL

## SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
420-78776-1	Silo Ridge Well 11	Drinking Water	06/12/2014 1045	06/12/2014 1320

Job Number: 420-78776-1

## Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Silo Ridge Well 11	-	Sdg Number: Silo Ridge
Lab Sample ID:	420-78776-1	Date Sampled:	06/12/2014 1045
Client Matrix:	Drinking Water	Date Received:	06/12/2014 1320

## 524.2 Purgeable Organic Compounds in Water by GC/MS

Method:	524.2	Analysis Batch: 420-76303	Instrument ID:	Agilent 789	0A/5975C
Preparation:	N/A		Lab File ID:	X061221.D	
Dilution:	1.0		Initial Weight/Volu	ume: 5	mL
Date Analyzed:	06/12/2014 1855		Final Weight/Volu	ime: 5	mL
Date Prepared:	N/A				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500	na se de la propositione de la companya de la compa	0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500	*	0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene	<0.500		0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		0.500
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-IsopropyItoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500

EnviroTest Laboratories, Inc.

Client: Leggette,	Brashears & Graham, Inc		Job Number: 420-78776- Sdg Number: Silo Ridg	
Client Sample ID:	Silo Ridge Well 11			
Lab Sample ID:	420-78776-1		Date Sampled: 06/12/2014 1045	
Client Matrix:	Drinking Water		Date Received: 06/12/2014 1320	
	524.2	Purgeable Organic Compounds in	Water by GC/MS	
Method:	524.2	Analysis Batch: 420-76303	Instrument ID: Agilent 7890A/5975C	
Preparation:	N/A		Lab File ID: X061221.D	
Dilution:	1.0		Initial Weight/Volume: 5 mL	
Date Analyzed:	06/12/2014 1855		Final Weight/Volume: 5 mL	
Date Prepared:	N/A			
Analyte		Result (ug/L)	Qualifier RL	
Trichlorofluoromethane		<0.500		
Vinyl chloride		<0.500	0.500	
Xylenes, Total		<0.500	0.500	
Styrene		<0.500	0.500	
sec-Butylbenzene		<0.500	0.500	
1,3,5-Trimethylbenz	ene	<0.500	0.500	
N-Propylbenzene		<0.500	0.500	
1,3-Dichlorobenzene	e	<0.500	0.500	
2-Chlorotoluene		<0.500	0.500	
4-Chlorotoluene		<0.500	0.500	
Surrogate		%Rec	Acceptance Limits	
4-Bromofluorobenzene		106	71 - 120	
Toluene-d8 (Surr)		100	79 - 121	
1,2-Dichloroethane-d4 (Surr)		94	70 - 128	

Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Silo Ridge Well 11			
Lab Sample ID: Client Matrix:	420-78776-1 Drinking Water		Date Sampled: Date Received:	06/12/2014 1045 06/12/2014 1320
_		200.7 Rev 4.4 ICP Metals by	/ 200.7	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 06/17/2014 2248 06/17/2014 0915	Analysis Batch: 420-76419 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese Sodium Zinc	agun - N Jano, Iao, Tagangkalanda kenderak dari harangkala bilak kendalahkera	<60.0 167 2980 207	Sarahan Kanan K	60.0 10.0 200 20.0
		200.7 Rev 4.4 ICP Metals by 200.	7-Dissolved	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200.7 1.0 06/20/2014 1836 06/19/2014 0921	Analysis Batch: 420-76525 Prep Batch: 420-76436	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese	nagnaraista kuta yang pang pang kutaka kata yang pang kata kata yang pang kata kata yang pang kata kata yang p	<60.0 145	nan 1977 (n. 1977) (n. 1979) (n. 1979) (n. 1979) (n. 1979) (n. 1977) (n. 1977) (n. 1977) (n. 1977) (n. 1977)	60.0 10.0

Client: Leggette, Brashears & Graham, Inc.

Silo Ridge Well 11

Client Sample ID:

Job Number: 420-78776-1 Sdg Number: Silo Ridge

Lab Sample ID: Client Matrix:	420-78776-1 Drinking Water		Date Sampled: Date Received:	06/12/2014 1045 06/12/2014 1320
		200.8 ICPMS Metals by 2	00.8	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 06/17/2014 1447 06/17/2014 0915	Analysis Batch: 420-76383 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer ELAN N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Lead Arsenic Beryllium Cadmium Chromium Nickel Antimony Thallium Barium Selenium	ondersten vir mit den schaften der sollt in den schaften in den schaften eine schaften eine schaften eine schaf	<1.00 <1.40 <0.300 <1.00 <7.00 2.43 <0.400 <0.300 <2.00 <2.00		1.00 1.40 0.300 1.00 7.00 0.500 0.400 0.300 2.00 2.00
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200.8 1.0 06/24/2014 1736 06/23/2014 1251	Analysis Batch: 420-76626 Prep Batch: 420-76568	Instrument ID; Lab File ID; Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer ELAN N/A 50 mL 50 mL
Analyte		Result (ug/L)	Qualifier	RL
Silver		218.0.4	a na anna an an an an an ann an an an an	алан калан кала 1.00
	045.4	245.1 Mercury in Water by		Darkin Flores FIMO
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	245.1 245.1 1.0 06/19/2014 1629 06/19/2014 1320	Analysis Batch: 420-76473 Prep Batch: 420-76463	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer FIMS N/A 25 mL 25 mL
Analyte		Result (ug/L)	Qualifier	RL

EnviroTest Laboratories, Inc.

<0.200

07/24/2014

0.200

Client: Leggette	e, Brashears & Graham, Inc	2.		Job Number: 420-78776-1 Sdg Number: Silo Ridge
Client Sample ID:	Silo Ridge Well 11			
Lab Sample ID: Client Matrix:	420-78776-1 Drinking Water		Date Sampled: Date Received:	06/12/2014 1045 06/12/2014 1320
		SM 2340B Hardness by Cal	culation	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	SM 2340B N/A 1.0 06/17/2014 2248 N/A	Analysis Batch: 420-76423	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	None N/A
Analyte		Result (mg/L)	Qualifier	RL
Calcium hardness as calcium carbonate		ана у со се	nne hanne eine seine seinen hen hen eine hener eine seine seinen seine seine seine seine seine eine	ensi perindi ne ele esteni elemente elemente de la contra de la contra de la contra de la contra de la contra 1.25

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-1 Sdg Number: Silo Ridge

		Biology			
Client Sample ID:	Silo Ridge Well 11				
Lab Sample ID:	420-78776-1		Date Sampled:	06/1	12/2014 1045
Client Matrix:	Drinking Water		Date Received:	06/1	12/2014 1320
Analyte	Result	Qual Units		Dil	Method
Coliform, Total	Present Anly Batch: 420-76274	g CFU/100mL Date Analyzed 06/12/2014 1743		1.0	SM 9223
Escherichia coli	Absent Anly Batch: 420-76274	CFU/100mL Date Analyzed 06/12/2014 1743		1.0	SM 9223
Analyte	Result	Qual Units	RL	Dil	Method
Heterotrophic Plate Co	ount 6.00 Anly Batch: 420-76296	CFU/mL Date Analyzed > 06/12/2014 1415	2.00	1.0	SIMPLATE

General Chemistry

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 11				
Lab Sample ID:	420-78776-1		Date Sampled:	06/1	2/2014 1045
Client Matrix:	Drinking Water		Date Received:	06/1	2/2014 1320
Analyte	Result	Qual Units		Dil	Method
Langelier Index	-0.900	NONE		1.0	SM 2330B
	Anly Batch: 420-76656	Date Analyzed 06/25/2014 1543			

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 11				
,	120-78776-1 Drinking Water		Date Sampled: Date Received:		2/2014 1045 2/2014 1320
Analyte	Result	Qual Units	RL	Dil	Method
Nitrate Nitrite as N	0.0627 Anly Batch: 420-76347	mg/L Date Analyzed 06/16/2014 1408	0.0100	1.0	10-107-04-1C
Alkalinity	69.7 Anly Batch: 420-76413	mg/L Date Analyzed 06/17/2014 0940	5.00	1.0	SM 2320B
Total Dissolved Solids	142 Anly Batch: 420-76437	mg/L Date Analyzed 06/18/2014 1545	5.00	1.0	SM 2540C
Sulfate	24.6 Anly Batch: 420-76381	mg/L Date Analyzed 06/16/2014 1244	5.00	1.0	300.0
Fluoride	<0.500 Anly Batch: 420-76381	mg/L Date Analyzed 06/16/2014 1244	0.500	1.0	300.0
Chloride	<5.00 Anly Batch: 420-76576	mg/L Date Analyzed 06/23/2014 1541	5.00	1.0	SM 4500 CI- B
Cyanide, Total	<0.00500 Anly Batch: 420-76509	mg/L Date Analyzed 06/20/2014 1200	0.00500	1.0	SM 4500 CN E
Apparent Color	Prep Batch: 420-76507 2.50 Anly Batch: 420-76339	Date Prepared: 06/18/2014 0830 Pt-Co Date Analyzed 06/13/2014 1455	2.00	1.0	2120B
pH@color measuremen	t 7.45 Anly Batch: 420-76339	SU Date Analyzed 06/13/2014 1455	2.00	1.0	2120B
Turbidity	0.217 Anly Batch: 420-76341	NTU Date Analyzed 06/13/2014 1310	0.100	1.0	SM 2130B
Odor	1.00 Anly Batch: 420-76340	T.O.N. Date Analyzed 06/13/2014 1400	1.00	1.0	SM 2150B
Temp @ Odor Measurer	ment 65.0 Anly Batch: 420-76340	Degrees C Date Analyzed 06/13/2014 1400	5.00	1.0	SM 2150B
рН	7.45 Anly Batch: 420-76337	H SU Date Analyzed 06/13/2014 1437	0.200	1.0	SM 4500 H+ B
Temp @ pH Measureme	ent 22.4 Anly Batch: 420-76337	Degrees C Date Analyzed 06/13/2014 1437	5.00	1.0	SM 4500 H+ B
Nitrite as N	<0.0100 Anly Batch: 420-76396	mg/L Date Analyzed 06/12/2014 1640	0.0100	1.0	SM 4500B

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 11				
Lab Sample ID:	420-78776-1		Date Sampled:	06/1	2/2014 1045
Client Matrix:	Drinking Water		Date Received:	06/1	12/2014 1320
Analyte	Result	Qual Units	RL	Dil	Method
Sulfide	<0.100	mg/L	0.100	1.0	SM 4500 S2 D
	Anly Batch: 420-76380	Date Analyzed 06/17/2014 1430			

## DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
General Chemistry		
	н	Sample was prepped or analyzed beyond the specified holding
		time
Biology		De suit faile ann liachte NVO daistiús a suchas standarda
	g	Result fails applicable NYS drinking water standards

# **Definitions and Glossary**

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-1

Sdg Number: Silo Ridge

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum quantitation levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points

EnviroTest	СНА	CHAIN OF CUSTODY	CUST	0	7	·		10	1-9LL8L		1		REPORT# (Lab Use Only)	hily)
_	Address & Phone	curvino) est Laboratories 315 Fullerton Avenue, Newburgh, New York 12550 845-562-0890	Avenue, Ner	wburgh,	New Yo	ork 125	50 845	-562-0	068	•				
PROJECTNO.	HWNEN O	MATRUX T?PE			Ц Ц	REQUIRED	ANALYSES	SES				PAGE 1 of	of	
PLO. NUMBER		e)s	Viàis HCL Biadder	.oidT muib	oldT mulb	Nitric Acid	(pinb(l)oi4	ter Plastic	.byH mub	stic Sterile	stic Nitric	səldun sir	TURNAR	TURNAROUND TIME
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t 4 Research Drive, Suite 301, Shelton, CT 06484		4) PLAN (J					107		520			VERBAL	-	i
		IAW) SU #JaW Bri IM32 Ar	Aunario									#OF COOLERS	ERS	
SAMPLEIDE	SAMPLE IDENTIFICATION	D (DHHEO) D (DHHEO) D (DHHEO)	язнто	ΓN N	NUMBER OF CONTAINERS SUBMITTED	F CONT	AINERS	SUBIN	ANTED					REMARKS
Nollidor -	Wall	1-	2 3	2	1 3	1	2	4	+	2	-	3 Table 8B (	Table BB (Sb,As,Ba,Be,Cd,Cr,Cn,Hg,Ni	d,Cr,Cn,Hg,Ni
0	-	~										Se,TI,F)		
					_					·		Table BC (NO3,NO2)	NO3,NO2)	
		-	1-250ml Zinc Acetate/Sod.Hyd.	c Acetate/	Sod.Hyd						·	Table BD (	Cl,Fe,Mn,Ag,Na	Table 8D (Cl,Fe,Mn,Ag,Na,SO4,Zn,Odor,Color)
			1-250ml Amber Unpres.	ber Unpre	vi				-			524.2 (PO(	524.2 (POC,MTBE, Vinyl Chloride)	hloride)
			2-250ml Plastaic Unpres.	staic Unpr	es.							SOCs (504	,508,515,525,53	SOCs (504,508,515,525,531,547,548,549,Dioxins)
			2-40ml Amber Sodium Thio.	er Sodium	r Thio.							Additional	Additional Tests (Total coliform	liform
			1-500 Amber Sod Thio	r Sod This	ö	5 1		-				thru Zinc)		
			1 liter Amber Plastic Sod Thio /H2SO4	r Plastic.S	od Thio./	H2SO4						Dis. Fe, Di	Dis. Fe, Dis. Mn, Sulfide	
			2-11ker Amber Unpres.	er Unpres								Radon, Gr	Radon, Gross Alpha/Beta	
-2		-	35 Total Containers	I Cont	ainers							Radium 23	Radium 226/228, Total Uranium	anium
*		<b>&gt;</b> >					*					MPA (inclu	MPA (including Cypto and Giardia)	d Giardia)
COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	BY: (SIGN	IATURE)	_		-	-8	COMPANY		DATE	TIME	
COMPANY &	G DATE/J/Y	TIME	RECEIVED BY: (SIGNATURE)	BY. (SiGN	IATURE)				8	COMPANY		DATE	TIME	
COMPANY	1. DATE/12/14	TIME /320	RECEIVED BY: (SIGNATURE)	BY: (SIGN	IATURE)				8	COMPANY		DATE	TIME	*
PACE-SOC,Radio,Radon, MPA	Ш,	soc					Anter a							
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Page 17 of 18

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-1 SDG Number: Silo Ridge

Login Number: 78776

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	1.3 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	рH
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Environmental	lah e		for Gia	boratory R	<i>lium</i> Analys		Page 1 of	2 ILEO IN A	ac the second se
	Ithaca • N	IY • 14850-8717 • Phor	ne (607) 272-		7092 CONTACT	٦			Y01507
		est Laboratories In	с.		Ms. Joyce	Esposito			87851 -04514
$D^{-1} = 12701$	lis Fulle Newburg	rton Ave. h	NY 12		1 (845) 562-		) 375-4090		
<b>P.O.</b> No. 4	2001269	)							
Sample No. 431	93	SAMPLE SITE SIL	o Ridge W	ell 11	CLIE	NT IDENTIFICATION	420-7877	6- <b>T-</b> 1	
SAMPLE DAT	Γ <b>A</b>	FILTER SAMPLE							
	•	WATER TYPE:		Ground Water (C	W) <b>S</b> A	AMPLE COLLECTOR:	Stacy S	Stieber	
	]	DATE COLLECTED DA	те/тіме:		0·45 AM				
	]	DATE RECEIVED:		Jun 13, 2014		MOUNT COLLECTED	210 1 81	d (10 L)	
	]	Receipt Temperatu	re (°C) :	3.5	_	H:	na		
	]	ELUTION START DATE/		Jun 14, 2014 7A	- -	ilter Color:	na Clear H	Bulk Wate	r
EAL Quality Co GC Serial Num	hor	<b>Total volume of se</b>	DIMENT:	<b>0.1</b> ml		SAMPLE NOTES			
		immunomagnetic s	eparation (IN	tration step (centrifug IS) and an immunoflu and examined concur	orescent stair				ind
RESULTS			Anal	YTE			Cysts I Observed	Result per 100L	Result per 1L
nvironmental Assetd, certifies that al			Emp	ty Giardia Cysts De	tected	·····	0	ND	ND
ontrol elements as	sociated		Giar	dia Cysts with Amo	rphous Stru	cture	0	ND	ND
th the above data en met except as		Giardia		dia Cysts with One			0	ND	ND
ted in the comme ction. Results rel			Giar	dia Cysts with Mor	e than One I	nternal Structure	0	ND	ND
the sample.	are only		Tota	l IFA <i>Giardia</i> Cou	nt per 100L	· · · · · · · · · · · · · · · · · · ·	0	ND	ND
to the sample.			Anal	YTE			Oocysts Observed	Result per 100L	Result per 1L
			Emp	ty Cryptosporidium	Oocysts De	tected	0	ND	ND
		Cruntarnaridium		tosporidium Oocyst		-	0	ND	ND
			Cryp	tosporidium Oocys	s with Inter	nal Structure	0	ND	ND
		Cryptosportation				nor 1001	•	NTD	ND
		Crypiospor autom	Tota	I IFA Cryptosporid	ium Count	per room	0	ND	ND
		Cryptosporidiun	Empt Cryp	ty Cryptosporidium tosporidium Oocyst	s with Amo	rphous Structure nal Structure	Observed 0 0 0	100L ND ND ND	

NOTICE: EPA Method 1623 indicates 1 matrix sample is needed for every 20 field samples. Please contact the laboratory for details. ANALYST Dr. Susan Boutros DATE COMPLETED June 15, 2014

ANALYSIS CERTIFIED BY Suscen Z. Bortros President & Lab Dr. Susan Boutros Director

DATE CERTIFIED June 26, 2014



# Laboratory Results for *Giardia & Cryptosporidium* Analysis



24 Oak Brook Drive • Ithaca • NY • 14850-8717 • Phone (607) 272-8902 • Fax (607) 256-7092

ACCOUNT NO. **EnviroTest Laboratories Inc.** 315 Fullerton Ave. AD-12701 Newburgh

CONTACT Ms. Joyce 1 (845) 562-0890

Esposito Fax 610 375-4090

SAMPLE NO. 43193

## Quality Control data for

NY 12550

#### Method 1623 Cryptosporidium and Giardia in Water by Filtration/IMS/FA (EPA-815-R-05-002)

EAL Quality Control Serial Number QCGC-14-15

Materials	Lot Number	Expiration Date
WaterborneTM, Inc AccuSpike-IR	81	6/23/2014
Dynal Dynabeads GC-Combo	1078998	9/1/2014
AquaGlo GC Direct	803604	1/1/2015

#### **Positive QC Sample**

<b>% Sample</b> Examined	Crypto. Spike 100	Crypto. Count 62	Crypto. % Recovery 62.0
% Sample Examined	Giardia Spike	Giardia Count	Giardia % Recovery
100	100	74	74.0

Negative QC S	Sample		
% Sample Examined		Crypto. Count	Crypto. % Recovery
100	0	0	
% Sample	Giardia	Giardia	Giardia
Examined	Spike	Count	% Recovery
100	0	0	

Note:

ENVIRONMENTAL ASSOCIATES LTD. 24 Oak Brook Drive, Ithaca, NY 14850 (607) 272-8902 Fax (607) 256-7092



REPORT: MICROSCOPIC PARTICULATE ANALYSIS Client: Jovce Esposito

	EnviroTest Laboratories Inc. 315 Fullerton Ave.
FILTER ID: <u>43194</u>	Newburgh NY 12550
Station/Body of water: Silo Ridge Well 11	
RECEIPT OF FILTER:	
Date Received: 6/13/2014 # of filters: NA	Type: <u>bulk sample</u> Carrier: <u>FedEx</u>
COLLECTION:	
Collector: Stacy Stieber	Date & Time Collected: <u>6/12/2014 10:45.AM</u>
Temperature: <u>na °F</u>	Turbidity: <u>na</u>
Water Type: Ground Water (GW)	Date & Time Processed: 6/13/2014 4:00 PM
	Date Analyzed: 6/27/2014
FILTER PROCESSING	
Color of water around filter: <u>N/A</u>	Total volume of sediment: 0.01 ml
Filter color: <u>Clear Bulk Water</u>	Volume of sediment/100 gallons: <u>0.38 ml</u>
Color of sediment: white	Phase equivalent gallon volume examined: 2.64
# gallons filtered: 2.641	
	e [<1-3/fiéld @ 100X] (NF) - none found
PARTICULATE DEBRIS Quantity Description	Quantity Description
Large part. 5 $\mu$ m & larger <u>EH</u> <u>fine silt</u> Small part up to 5 $\mu$ m <u>EH</u> <u>fine amorphous debris</u>	Other Coccidia <u>NE</u> Other protozoans NF
Simal part up to 5 $\mu$ m $-$	Other protozoans <u>NF</u>
Plant debris	
	ALGAE
OTHER ORGANISMS Nematodes <u>M</u> <u>One nematode /10 liter</u>	Green Algae <u>NF</u>
	·····
	Diatoms <u>NF</u>
	Blue-Green Algae <u>NF</u>
	<b>y</b>
Other	Flagellated Algae NF
	· · · · · · · · · · · · · · · ·
COMMENTS:	

The only biological material observed was a single nematode observed in 10 liters = 38/100gallon. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk).

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

**REPORT REVIEWED BY:** 

Susan Z. Boutros

DATE: JUNE 26, 2014

E.A.- Rev. April.3, 2006 E.A.- Rev. Feb 15, 2010

President & Lab Director

Page 2 of 2					Comments															Based upon there is a low	late Analysis		the comments section.		Environmental Associates, Ltd.
TES LTD. 14850 -7092 JLATE ANALYSIS		Utility Name EnviroTaet I ahoratoriae Inc		actors	Relative Risk Factor Com						Low Risk			No risk factor asssigned.	)					The only biological material observed was a single nematode observed in 10 liters = 38/100gallon. Based upor microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk).	REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis	<u>ber 1992.</u>	Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.		
ENVIRONMENTAL ASSOCIATES LTD. 24 Oak Brook Drive, Ithaca, NY 14850 (607) 272-8902 Fax (607) 256-7092 3T: MICROSCOPIC PARTICULATE ANALYSIS	SZU-28-6/018 22-025	Well ID# Silo Bidge Well 11		Relative Surface Water Risk Factors	Relative Frequency Re	 NF	NF	NF	NF	NF	EPA Relative Risk = 0			W						d was a single nematode ob the proposed EPA risk fact isk factors= 0 low risk).	ers Under the Direct Influence of t	(MPA) US EPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992	s associated with the above data I	рате: June 26, 2014	President & Lab Director
ENVII 24 (60 REPORT: MI		EAL Sample ID: 43194	_	EPA Rela	#/100 gallon	0	0	0	0					38	0	C				The only biological material observed was a single nemato microscopic particulate analysis and the proposed EPA risl risk of surface contamination (EPA risk factors= 0 low risk)	od for Determining Groundwat	anchester Environmental Lab	hat all quality control element	Juscu 7. Burtus	Dr. Susan Boutros President
	L		Date: 6/12/2014		Primary Particulates	Diatoms	Other Algae	Insects/larvae	Rotifers	Plant Debris (with chloro.)		Secondary Particulates	N amataoaa	Nematodes	Crustaceans	Amoeba	Non-photo. flag. & ciliates	Photosynthetic flagellates	Other:	COMMENTS: The only bi microscopic risk of surfa	REFERENCE: Consensus Meth	(MPA) US EPA M	Environmental Associates Ltd. certifies t Results relate only to the sample.	REPORT REVIEWED BY:	



July 03, 2014

Ron Bayer EnviroTest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550

RE: Project: 42001269 Pace Project No.: 35141932

Dear Ron Bayer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia bo.garcia@pacelabs.com Project Manager

Enclosures

cc: Debra Bayer, EnviroTest Laboratories Inc.
 Renee Cusack, EnviroTest Laboratories Inc.
 Joyce Esposito, EnviroTest Laboratories Inc.
 Janine Rader, EnviroTest Laboratories Inc.
 Meredith Ruthven, EnviroTest Laboratories Inc.



#### **REPORT OF LABORATORY ANALYSIS**

ce Analvtica www.pacelabs.com

#### CERTIFICATIONS

Project:	42001269
Pace Project No.:	35141932

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601 ACLASS DOD-ELAP Accreditation #: ADE-1544 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California/TNI Certification #: 04222CA Colorado Certification Connecticut Certification #: PH-0694 **Delaware Certification** Florida/TNI Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idaho Certification Illinois/PADEP Certification Indiana/PADEP Certification lowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133 Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: D140 Maine Certification #: PA00091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification Miceouri Certification #: 225 Missouri Certification #: 235

#### **Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Arizona Certification #: AZ0735 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: 853079 Georgia Certification #: 853079 Georgia Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification: FL NELAC Reciprocity Illinois Certification: FL NELAC Reciprocity Kansas Certification: FL NELAC Reciprocity Kansas Certification: FL NELAC Reciprocity Louisiana Certification #: 90050 Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Massachusetts Certification #: M-FL1264 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Montana Certification #: Cert 0082 Nebraska Certification #: NE-05-29-14 Nevada Certification #: NE-05-29-14 New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification #: PA 051 New York/TNI Certification #: 10888 North Carolina Certification #: 10888 North Carolina Certification #: A2706 North Dakota Certification #: PA200002 Pennsylvania/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: A01457 South Dakota Certification #: PA01457 South Dakota Certification #: TN2867 Texas/TNI Certification #: TN2867 Texas/TNI Certification #: TN2867 Texas/TNI Certification #: TN2867 Virgini Island/PADEP Certification Virginia/VELAP Certification Virginia/VELAP Certification %Vashington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin/PADEP Certification

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New Jersey Certification #: FL765 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 Pennsylvania Certification #: 12710 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification #: FL01264 South Carolina Certification :: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 Washington Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

#### REPORT OF LABORATORY ANALYSIS



#### SAMPLE SUMMARY

Project: Pace Project No	42001269 b.: 35141932			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
35141932001	Silo Ridge Well 11	Drinking Water	06/12/14 10:45	06/13/14 11:10

## **REPORT OF LABORATORY ANALYSIS**



#### SAMPLE ANALYTE COUNT

 Project:
 42001269

 Pace Project No.:
 35141932

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35141932001	Silo Ridge Well 11	EPA 504.1	IRL	2	PASI-O
		EPA 508.1	JTJ	18	PASI-O
		EPA 515.3	LJM	8	PASI-O
		EPA 531.1	LAJ	9	PASI-O
	EPA 547	LAJ	1	PASI-O	
	EPA 549.2	LAJ	1	PASI-O	
		EPA 525.2	WFH	8	PASI-O
		EPA 548.1	EAO	1	PASI-O
		SM 7500Rn-B	FCC	1	PASI-PA
		EPA 900.0	FCC	2	PASI-PA
		EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	JMR	1	PASI-PA
		ASTM D5174.97	RMK	1	PASI-PA

## **REPORT OF LABORATORY ANALYSIS**



#### ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141932

 Sample:
 Silo Ridge Well 11
 Lab ID:
 35141932001
 Collected:
 06/12/14 10:45
 Received:
 06/13/14 11:10
 Matrix:
 Drinking Water

 Comments:
 • Data was corrected on 6/17/2014 by JLK. The report mis-flagged the result as less than the MDC.
 Matrix:
 Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical	Method: EP/	A 504.1 Prepa	aration Meth	nod: EF	PA 504.1			
1,2-Dibromo-3-chloropropane	<0.0052 ug	g/L	0.021	0.0052	1	06/20/14 11:50	06/20/14 23:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.0066 ug	g/L	0.011	0.0066	1	06/20/14 11:50	06/20/14 23:52	106-93-4	
508.1 GCS Pesticides	Analytical I	Method: EP/	A 508.1 Prepa	ration Meth	nod: EF	PA 508.1			
Alachlor	< <b>0.032</b> ug	g/L	0.19	0.032	1	06/18/14 09:30	06/19/14 07:31	15972-60-8	
Atrazine	< <b>0.020</b> ug	g/L	0.094	0.020	1	06/18/14 09:30	06/19/14 07:31	1912-24-9	
gamma-BHC (Lindane)	< <b>0.0028</b> ug	g/L	0.019	0.0028	1	06/18/14 09:30	06/19/14 07:31	58-89-9	
Butachlor	< <b>0.014</b> ug	g/L	0.094	0.014	1	06/18/14 09:30	06/19/14 07:31	23184-66-9	
Chlordane (Technical)	<b>&lt;0.044</b> ug	J/L	0.19	0.044	1	06/18/14 09:30	06/19/14 07:31	57-74-9	
Dieldrin	< <b>0.013</b> ug	g/L	0.094	0.013	1	06/18/14 09:30	06/19/14 07:31	60-57-1	
Endrin	< <b>0.0019</b> ug	g/L	0.0094	0.0019	1	06/18/14 09:30	06/19/14 07:31	72-20-8	
Heptachlor	< <b>0.0056</b> ug	g/L	0.037	0.0056	1	06/18/14 09:30	06/19/14 07:31	76-44-8	
Heptachlor epoxide	< <b>0.0028</b> ug	g/L	0.019	0.0028	1	06/18/14 09:30	06/19/14 07:31	1024-57-3	
Hexachlorobenzene	<0.010 ug	g/L	0.094	0.010	1	06/18/14 09:30	06/19/14 07:31	118-74-1	
Hexachlorocyclopentadiene	<b>&lt;0.030</b> ug	g/L	0.094	0.030	1	06/18/14 09:30	06/19/14 07:31	77-47-4	
Methoxychlor	<b>&lt;0.013</b> ug	g/L	0.094	0.013	1	06/18/14 09:30	06/19/14 07:31	72-43-5	
Metolachior	<b>&lt;0.010</b> ug	g/L	0.094	0.010	1	06/18/14 09:30	06/19/14 07:31	51218-45-2	
PCB, Total	<0.075 ug	g/L	0.094	0.075	1	06/18/14 09:30	06/19/14 07:31	1336-36-3	
Propachlor	<0.0094 ug	J/L	0.094	0.0094	1	06/18/14 09:30	06/19/14 07:31	1918-16-7	
Simazine	<0.041 ug	g/L	0.066	0.041	1	06/18/14 09:30	06/19/14 07:31	122-34-9	
Toxaphene <b>Surrogates</b>	< <b>0.57</b> ug	g/L	0.94	0.57	1	06/18/14 09:30	06/19/14 07:31	8001-35-2	
Decachlorobiphenyl (S)	103 %		70-130		1	06/18/14 09:30	06/19/14 07:31	2051-24-3	
515.3 Chlorinated Herbicides	Analytical I	Method: EP/	A 515.3 Prepa	ration Meth	od: EF	PA 515.3			
2,4-D	<0.081 ug	1/L	0.10	0.081	1	06/19/14 08:00	06/20/14 06:54	94-75-7	
Dalapon	<0.89 ug	, j/L	1.0	0.89	1	06/19/14 08:00	06/20/14 06:54	75-99-0	
Dicamba	<0.067 ug	ı/∟	0.10	0.067	1	06/19/14 08:00	06/20/14 06:54	1918-00-9	L3
Dinoseb	<0.16 ug	, j/L	0.20	0.16	1	06/19/14 08:00	06/20/14 06:54	88-85-7	
Pentachlorophenol	<0.030 ug	j/L	0.040	0.030	1	06/19/14 08:00	06/20/14 06:54	87-86-5	
Picloram	<0.094 ug	j/L	0.10	0.094	1	06/19/14 08:00	06/20/14 06:54	1918-02-1	
2,4,5-TP (Silvex)	<0.16 ug	j/L	0.20	0.16	1	06/19/14 08:00	06/20/14 06:54	93-72-1	
<i>Surrogates</i> 2,4-DCAA (S)	94 %		70-130		1	06/19/14 08:00	06/20/14 06:54	19719-28-9	
531.1 HPLC Carbamates	Analytical I	Method: EPA	A 531.1						
Aldicarb	<0.70 ug	1/1	2.0	0.70	. 1		06/18/14 18:58	116-06-3	
Aldicarb sulfone	<0.60 ug	•	2.0	0.60	, ' 1		06/18/14 18:58		
Aldicarb sulfoxide	<0.67 ug	•	2.0	0.67	1		06/18/14 18:58		
Carbofuran	<0.75 ug	•	2.0	0.07	1		06/18/14 18:58		
3-Hydroxycarbofuran	<0.75 ug		2.0	0.73	1		06/18/14 18:58		
Methomyl	<0.57 ug		2.0	0.57	1		06/18/14 18:58		
Oxamyl	<0.37 ug		2.0	0.47	1		06/18/14 18:58		
Carbaryl	<0.28 ug		2.0	0.47	1		06/18/14 18:58		
	-0180 09	,	2.0	5.20	•		20, 10, 11, 10,00		

## **REPORT OF LABORATORY ANALYSIS**

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#### ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141932

 Sample:
 Silo Ridge Well 11
 Lab ID: 35141932001
 Collected: 06/12/14 10:45
 Received: 06/13/14 11:10
 Matrix: Drinking Water

 Comments:
 • Data was corrected on 6/17/2014 by JLK. The report mis-flagged the result as less than the MDC.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
531.1 HPLC Carbamates	Analytica	I Method: EPA	531.1						
<i>Surrogates</i> Propoxur (S)	92 9	%	80-120		1		06/18/14 18:58	114-26-1	P4
547 HPLC Glyphosate	Analytica	I Method: EPA	\$ 547						
Glyphosate	<b>&lt;5.4</b> t	ug/L	6.0	5.4	1		06/19/14 12:54		
549.2 HPLC Paraquat Diquat	Analytica	I Method: EPA	549.2 Prepa	aration Meth	od: EF	PA 549.2			
Diquat	<b>&lt;0.15</b> (	ug/L	0.40	0.15	1	06/17/14 19:45	06/18/14 12:53	85-00-7	
525.2 Base Neutral Extractable	Analytica	I Method: EPA	525.2 Prepa	aration Meth	od: EF	PA 525.2			
Aldrin	<0.034 u	ug/L	0.094	0.034	1	06/18/14 09:30	06/19/14 19:31	309-00-2	
Benzo(a)pyrene	<b>&lt;0.018</b> ເ	ug/L	0.094	0.018	1	06/18/14 09:30	06/19/14 19:31	50-32-8	
bis(2-Ethylhexyl)adipate	<0.36 (	ug/L	1.5	0.36	1	06/18/14 09:30	06/19/14 19:31	103-23-1	
bis(2-Ethylhexyl)phthalate	< <b>0.47</b> (	ug/L	1.9	0.47	1	06/18/14 09:30	06/19/14 19:31	117-81-7	
Metribuzin	<0.029 u	ug/L	0.28	0.029	1	06/18/14 09:30	06/19/14 19:31	21087-64-9	
Surrogates		-							
1,3-Dimethyl-2-nitrobenzene(S)	112 '	%	70-130		1	06/18/14 09:30	06/19/14 19:31	81209	
Perylene-d12 (S)	106 '	%	70-130		1	06/18/14 09:30	06/19/14 19:31	1520963	
Triphenylphosphate (S)	118 '	%	70-130		1	06/18/14 09:30	06/19/14 19:31	115-86-6	
548.1 GCS Endothall	Analytica	I Method: EPA	548.1 Prepa	aration Meth	od: EF	PA 548.1			
Endothall	<4.1	ug/L	9.0	4.1	1	06/16/14 16:45	06/17/14 13:07		

#### **REPORT OF LABORATORY ANALYSIS**



 Project:
 42001269

 Pace Project No.:
 35141932

QC Batch:	GCSV/11600	Analysis Method:	EPA 531.1
QC Batch Method:	EPA 531.1	Analysis Description:	531.1 HPLC Carbamate
Associated Lab Sam	ples: 35141932001		

Matrix: Water

METHOD BLANK: 931282

Associated Lab Samples: 35141932001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<0.51	2.0	06/18/14 11:35	
Aldicarb	ug/L	<0.70	2.0	06/18/14 11:35	
Aldicarb sulfone	ug/L	<0.60	2.0	06/18/14 11:35	
Aldicarb sulfoxide	ug/L	<0.67	2.0	06/18/14 11:35	
Carbaryl	ug/L	<0.28	2.0	06/18/14 11:35	
Carbofuran	ug/L.	<0.75	2.0	06/18/14 11:35	
Methomyl	ug/L	<0.57	2.0	06/18/14 11:35	
Oxamyl	ug/L	<0.47	2.0	06/18/14 11:35	
Propoxur (S)	%	100	80-120	06/18/14 11:35	

#### LABORATORY CONTROL SAMPLE: 931283

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	10	9.9	99	80-120	
Aldicarb	ug/L	10	10.7	107	80-120	
Aldicarb sulfone	ug/L	10	9.6	96	80-120	
Aldicarb sulfoxide	ug/L	10	9.5	95	80-120	
Carbaryl	ug/L	10	9.7	97	80-120	
Carbofuran	ug/L	10	9.4	94	80-120	
Methomyl	ug/L	10	9.5	95	80-120	
Oxamyl	ug/L	10	9.3	93	80-120	
Propoxur (S)	%			92	80-120	

MATRIX SPIKE & MATRIX S	PIKE DUPLICAT	E: 93128	4		931285							
	92	205207001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
3-Hydroxycarbofuran	ug/L	ND	10	10	10.4	9.9	104	99	80-120	5	20	
Aldicarb	ug/L	ND	10	10	11.4	11.1	114	<b>11</b> 1	80-120	3	20	
Aldicarb sulfone	ug/L	ND	10	10	9.6	10.5	96	105	80-120	9	20	
Aldicarb sulfoxide	ug/L	ND	10	10	9.7	10.1	97	101	80-120	4	20	
Carbaryl	ug/L	ND	10	10	10.0	10.0	100	100	80-120	.03	20	
Carbofuran	ug/L	ND	10	10	9.7	9.6	97	96	80-120	1	20	
Methomyl	ug/L	ND	10	10	9.9	10.0	99	100	80-120	1	20	
Oxamyl	ug/L	ND	10	10	10.1	10.3	101	103	80-120	2	20	
Propoxur (S)	%						95	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	42001269													
Pace Project No .:	35141932													
QC Batch:	GCSV/11615			Analys	sis Method:	E	EPA 547							
QC Batch Method:	EPA 547			Analys	sis Descript	ion: 5	47 HPLC GI	yphosate						
Associated Lab San	nples: 351419	32001												
METHOD BLANK:	932403				Matrix: Wat	ter					-			
Associated Lab San	nples: 351419	32001												
				Blank		eporting								
Paran	neter		Jnits	Resu	lt 	Limit	Analyz	.ed	Qualifiers					
Glyphosate		ug/L			<5.4	6.0	06/19/14	10:52						
LABORATORY CO	NTROL SAMPLE	932404	4				<u></u>			<u> </u>				
				Spike	LCS	5	LCS	% Rec	;					
Paran	neter	ι	Jnits	Conc.	Resu	lt	% Rec	Limits	Q	alifiers				
Glyphosate		ug/L		50	)	56.1	112	80	-120					
MATRIX SPIKE & M	ATRIX SPIKE D		93240	5		932406								
				MS	MSD	-								
			12159001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max		
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Glyphosate	uç	I/L	5.4U	50	50	53.7	54.2	107	108	80-120	.9	30		
MATRIX SPIKE & M			93240		<u> </u>	932408								
				MS	MSD									
			42291001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	_	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual	
Glyphosate	uç	J/L	5.4U	50	50	58.4	53.1	117	106	80-120	10	30		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project:         42001269           Pace Project No.:         35141932													
Pace Project No.:35141932QC Batch:OEXT/17	779		Analys	is Method:	EF	PA 504,1							
QC Batch Method: EPA 504.	1		Analys	is Descripti	ion: 50	4 EDB D	BCP						
Associated Lab Samples: 35	141932001												
METHOD BLANK: 933211			N	latrix: Wat	er					·			
Associated Lab Samples: 35	141932001												
Parameter		Jnits	Blank Resulf		eporting Limit	Ana	lyzed	Qualif	iers				
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	ug/L ug/L			0049 0062	0.020 0.010		4 20:05 4 20:05						
LABORATORY CONTROL SAM	IPLE & LCSD:	933212	Spike	9. LCS	33213 LCSD	LCS	LCSD	% Rec			/ax		<u>.</u>
Parameter	ι	Jnits	Conc.	Result	Result	% Rec		Limits	RPD			Qua	alifiers
1,2-Dibromo-3-chloropropane	ug/L		.25	0.25	0.25	101	100	70-130		9	40		
1,2-Dibromoethane (EDB)	ug/L		.25	0.26	0.26	105	105	70-130		3	40		
MATRIX SPIKE & MATRIX SPI		93321	4		933215								
	922	05207001	MS Spike	MSD Spike	MS	MSD	MS	MS	D %	Rec		Мах	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re			mits	RPD		Qual
1,2-Dibromo-3-chloropropane	ug/L	ND		.44	0.48	0.4	-			5-135			
1,2-Dibromoethane (EDB)	ug/L	ND	.44	.44	0.50	0.4	8	113	109 6	5-135	4	40	

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## **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

 Project:
 42001269

 Pace Project No.:
 35141932

QC Batch:	OEXT/17723	Analysis Method:	EPA 508.1	
QC Batch Method:	EPA 508.1	Analysis Description:	508 GCS Pesticide	
Associated Lab Sar	nples: 35141932001			
METHOD BLANK:	929833	Matrix: Water		

Associated Lab Samples: 35141932001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
lachlor	 ug/L	<0.034	0.20	06/17/14 21:57	
Atrazine	ug/L	<0.021	0.10	06/17/14 21:57	
utachlor	ug/L	<0.015	0.10	06/17/14 21:57	
hlordane (Technical)	ug/L	<0.047	0.20	06/17/14 21:57	
ieldrin	ug/L	<0.014	0.10	06/17/14 21:57	
ndrin	ug/L	<0.0020	0.010	06/17/14 21:57	
amma-BHC (Lindane)	ug/L	<0.0030	0.020	06/17/14 21:57	
eptachlor	ug/L	<0.0060	0.040	06/17/14 21:57	
eptachlor epoxide	ug/L	<0.0030	0.020	06/17/14 21:57	
exachlorobenzene	ug/L	<0.011	0.10	06/17/14 21:57	
xachlorocyclopentadiene	ug/L	<0.032	0.10	06/17/14 21:57	
thoxychlor	ug/L	<0.014	0.10	06/17/14 21:57	
etolachlor	ug/L.	<0.011	0.10	06/17/14 21:57	
CB, Total	ug/L	<0.080	0.10	06/17/14 21:57	
opachlor	ug/L	<0.010	0.10	06/17/14 21:57	
mazine	ug/L	<0.044	0.070	06/17/14 21:57	
xaphene	ug/L	<0.61	1.0	06/17/14 21:57	
ecachlorobiphenyl (S)	%	99	70-130	06/17/14 21:57	

#### LABORATORY CONTROL SAMPLE: 929834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L		1.1	109	70-130	
Atrazine	ug/L	1.2	1.3	104	70-130	
Butachlor	ug/L	.5	0.54	108	70-130	
Dieldrin	ug/L	.5	0.56	113	70-130	
Endrin	ug/L	.05	0.060	121	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.10	103	70-130	
Heptachlor	ug/L	.2	0.21	106	70-130	
Heptachlor epoxide	ug/L	.1	0.11	108	70-130	
Hexachlorobenzene	ug/L	.5	0.49	98	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.43	85	70-130	
Methoxychlor	ug/L	.5	0.57	115	70-130	
Metolachlor	ug/L	.5	0.53	105	70-130	
Propachlor	ug/L	.5	0.52	104	70-130	
Simazine	ug/L	.88	0.95	108	70-130	
Decachlorobiphenyl (S)	%			89	70-130	

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#### **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

 Project:
 42001269

 Pace Project No.:
 35141932

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 93086	6		930867							
			MS	MSD								
	50	099103001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Alachlor	ug/L	ND	2	2	2.2	2.2	112	112	70-130	.03	40	
Atrazine	ug/L	ND	2.5	2.5	2.6	2.6	105	103	70-130	2	40	
Butachlor	ug/L	ND	1	1	1.1	1.1	110	111	70-130	.6	40	
Dieldrin	ug/L	ND	1	. 1	1.1	1.2	115	116	70-130	.6	40	
Endrin	ug/L	ND	.1	.1	0.12	0.12	121	123	70-130	2	40	
gamma-BHC (Lindane)	ug/L	ND	.2	.2	0.21	0.21	106	107	70-130	1	40	
Heptachlor	ug/L	ND	.4	.4	0.43	0.43	107	109	70-130	2	40	
Heptachlor epoxide	ug/L	ND	.2	.2	0.22	0.22	111	112	70-130	.8	40	
Hexachlorobenzene	ug/L	ND	1	1	0.99	1.0	99	101	70-130	2	40	
Hexachlorocyclopentadiene	ug/L	ND	1	1	0.92	1.0	92	102	70-130	10	40	
Methoxychlor	ug/L	ND	1	1	1.2	1.2	122	123	70-130	1	40	
Metolachlor	ug/L	ND	1	1	1.1	1.1	108	109	70-130	1	40	
Propachlor	ug/L	ND	1	1	1.1	1.1	106	107	70-130	.6	40	
Simazine	ug/L	ND	1.8	1.8	1.7	1.7	97	94	70-130	2	40	
Decachlorobiphenyl (S)	%						108	101	70-130		40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

 Project:
 42001269

 Pace Project No.:
 35141932

QC Batch:	OEXT/17752	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
Associated Lab Sam	iples: 35141932001		

Matrix: Water

#### METHOD BLANK: 931619

Associated Lab Samples: 35141932001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4,5-TP (Silvex)	ug/L	<0.16	0.20	06/20/14 00:10	·
<b>.4</b> -D	ug/L	<0.081	0.10	06/20/14 00:10	
alapon	ug/L	<0.89	1.0	06/20/14 00:10	
icamba	ug/L	<0.067	0.10	06/20/14 00:10	
noseb	ug/L	<0.16	0.20	06/20/14 00:10	
entachlorophenol	ug/L	<0.030	0.040	06/20/14 00:10	
icloram	ug/L	<0.094	0.10	06/20/14 00:10	
4-DCAA (S)	%	105	70-130	06/20/14 00:10	

#### LABORATORY CONTROL SAMPLE: 931620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	1.1	108	70-130	-
2,4-D	ug/L	.5	0.51	103	70-130	
Dalapon	ug/L	5	5.7	114	70-130	
Dicamba	ug/L	.5	0.66	131	70-130 LC	
Dinoseb	ug/L	1	1.2	118	70-130	
Pentachlorophenol	ug/L	.2	0.24	118	70-130	
Picloram	ug/L √	.5	0.42	83	70-130	
2,4-DCAA (S)	%			102	70-130	

MATRIX SPIKE & MATRIX	SPIKE DUPLICAT	E: 93234	4		932345							
			MS	MSD								
	92	205585001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	ND	1	1	0.84	0.83	84	83	70-130	1	40	
2,4-D	ug/L	ND	.5	.5	0.38	0.44	75	87	70-130	14	40	
Dalapon	ug/L	ND	5	5	5.1	5.0	102	100	70-130	2	40	
Dicamba	ug/L	ND	.5	.5	0.61	0.58	122	115	70-130	6	40	
Dinoseb	ug/L	ND	1	1	1.2	1.1	115	107	70-130	8	40	
Pentachlorophenol	ug/L	ND	.2	.2	0.21	0.21	106	106	70-130	.7	40	
Picloram	ug/L	ND	.5	.5	0.40	0.42	80	85	70-130	6	40	
2,4-DCAA (S)	%						83	77	70-130			

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#### **REPORT OF LABORATORY ANALYSIS**



 Project:
 42001269

 Pace Project No.:
 35141932

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93234	6		932347							
			MS	MSD								
	35	142030001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.80	0.87	80	87	70-130	8	40	
2,4-D	ug/L	0.081U	.5	.5	0.38	0.38	76	75	70-130	.3	40	
Dalapon	ug/L	0.89U	5	5	5.1	5.4	101	108	70-130	6	40	
Dicamba	ug/L	0.067U	.5	.5	0.62	0.65	123	130	70-130	6	40	
Dinoseb	ug/L	0.16U	1	1	1.0	1.1	102	113	70-130	11	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	0.21	0.23	102	113	70-130	9	40	
Picloram	ug/L	0.094U	.5	.5	0.42	0.44	83	88	70-130	6	40	
2,4-DCAA (S)	%						83	85	70-130			

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#### **REPORT OF LABORATORY ANALYSIS**



## QUALITY CONTROL DATA

 Project:
 42001269

 Pace Project No.:
 35141932

QC Batch:	OEXT/17743	Analysis Method:	EPA 525.2
QC Batch Method:	EPA 525.2	Analysis Description:	525.2 Base Neutral Extractables
Associated Lab San	nples: 35141932001		

Matrix: Water

#### METHOD BLANK: 930864

Associated Lab Samples: 35141932001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	<0.036	0.10	06/19/14 16:07	
Benzo(a)pyrene	ug/L	<0.019	0.10	06/19/14 16:07	
bis(2-Ethylhexyl)adipate	ug/L	<0.38	1.6	06/19/14 16:07	
bis(2-Ethylhexyl)phthalate	ug/L	<0.50	2.0	06/19/14 16:07	
Metribuzin	ug/L	<0.031	0.30	06/19/14 16:07	
1,3-Dimethyl-2-nitrobenzene(S)	%	122	70-130	06/19/14 16:07	
Perylene-d12 (S)	%	111	70-130	06/19/14 16:07	
Triphenylphosphate (S)	%	107	70-130	06/19/14 16:07	

#### LABORATORY CONTROL SAMPLE: 930865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	.4	0.36	91	70-130	
Benzo(a)pyrene	ug/L	.4	0.46	114	70-130	
bis(2-Ethylhexyl)adipate	ug/L	6.4	6.7	105	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	7.7	96	70-130	
Metribuzin	ug/L	1.2	1.1	88	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			106	70-130	
Perylene-d12 (S)	%			116	70-130	
Triphenylphosphate (S)	%			114	70-130	

MATRIX SPIKE & MATRIX SP	PIKE DUPLICAT	E: 93120	9		931210							
Parameter	35 Units	141563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	< 0.034	.8	.8	0.76	0.66	95	82	70-130	14	40	
Benzo(a)pyrene	ug/L	<0.018	.8	.8	0.83	0.83	104	104	70-130	.2	40	
bis(2-Ethylhexyl)adipate	ug/L	<0.36	12.8	12.8	14.7	14.5	115	113	70-130	1	40	
bis(2-Ethylhexyl)phthalate	ug/L	<0.47	16	16	16.4	16.7	101	103	70-130	2	40	
Metribuzin	ug/L	<0.029	2.4	2.4	2.2	2.2	90	91	70-130	.2	40	
1,3-Dimethyl-2- nitrobenzene(S)	%						109	115	70-130			
Perylene-d12 (S)	%						106	108	70-130			
Triphenylphosphate (S)	%						111	107	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit Is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	42001269												
Pace Project No.:	35141932												
QC Batch:	OEXT/17714			Analys	sis Method:	E	PA 548.1						
QC Batch Method:	EPA 548.1			Analys	sis Descript	ion: 5	48 GCS End	dothall					
Associated Lab San	nples: 3514193	2001											
METHOD BLANK:	929663			1	Matrix: Wa	ter			-		_		
Associated Lab San	nples: 3514193	2001											
David			1 - 11 -	Blank		eporting	<b>A</b>		0				
Paran	heter		Jnits	Resu		Limit	Analyz		Qualifiers	_			
Endothall		ug/L			<4.1	9.0	06/17/14	07:28					
LABORATORY CON	NTROL SAMPLE:	929664	4										
				Spike	LCS		LCS	% Red	5				
Paran	neter		Inits	Conc.	Resu	lt	% Rec	Limits	QL	alifiers	_		
Endothall		ug/L		50	)	57.0	114	80	)-120				
MATRIX SPIKE & M	ATRIX SPIKE DI		: 929879	<b>a</b>		929880				ŗ			
WATCH OF ITE ON			. 020010	MS	MSD	020000							
		3514	1528001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall	ug/	Ľ	4.1U	50	50	47.6	54.3	95	109	80-120	13	40	
MATRIX SPIKE & M	IATRIX SPIKE DU	IPLICATE	: 92988	1		929882							
······································				MS	MSD								
			1901008	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	_
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall	ug/	Ľ	<4.1	50	50	<4.1	10.5	0	21	80-120		40	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project: Pace Project No.:	42001269 35141932												
QC Batch:	OEXT/1771	15		Analys	is Method	; E	PA 549.2				-		
QC Batch Method:	EPA 549.2			Analys	is Descrip	tion: 54	49 HPLC Pa	raquat Diqu	uat				
Associated Lab San	nples: 3514	1932001											
METHOD BLANK:	929666			P	Matrix: Wa	ter							
Associated Lab San	nples: 3514	1932001											
Paran	neter	ι	Jnits	Blank Resu		leporting Limit	Analyz	ed	Qualifiers				
Diquat		ug/L			<0.15	0.40	06/18/14	11:48		_			
LABORATORY CON	NTROL SAMP	LE: 92966	7										
Paran	neter	ι	Jnits	Spike Conc.	LCS Rest		LCS % Rec	% Rec Limits		ualifiers	_		
Diquat		ug/L		2		1.9	93	80	-120		-		
MATRIX SPIKE & M	IATRIX SPIKE		929668	3 MS	MSD	929669							
		3514	42053001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Diquat		ug/L	0.00015 U mg/L	2	2	1.5	<0.15	77	0	80-120		30	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### ANALYTICAL RESULTS

 Project:
 42001269

 Pace Project No.:
 35141932

PWS:	Site ID:	Sample Type:	icco then the MI			
Comments: • Data was correc Parameters	Method	The report mis-flagged the result as Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM 7500Rn-B	2444 ± 107 (67.4) C:NA T:NA	pCi/L	06/16/14 18:42	10043-92-2	
Gross Alpha	EPA 900.0	0.661U ± 0.391 (0.661) C:NA T:NA	pCi/L	06/28/14 16:54	12587-46-1	
Gross Beta	EPA 900.0	2.14 ± 0.606 (0.939) C:NA T:NA	pCi/L	06/28/14 16:54	12587-47-2	
Radium-226	EPA 903.1	0.764U ± 0.427 (0.764) C:NA T:93%	pCi/L	06/27/14 11:16	13982-63-3	
Radium-228	EPA 904.0	0.911U ± 0.414 (0.911) C:65% T:84%	pCi/L	06/30/14 15:20	15262-20-1	
Total Uranium	ASTM D5174.97	0.307 ± 0.008 (0.193) C:NA T:NA	ug/L	07/02/14 15:13	7440-61-1	

## REPORT OF LABORATORY ANALYSIS



Project: Pace Project No.:	42001269 35141932						
QC Batch:	RADC/20294		Analysis Method:	ASTM D51	74.97		
QC Batch Method	ASTM D5174.9	7	Analysis Descripti	on: D5174.97	Total Uranium KPA		
Associated Lab Sa	amples: 3514193	2001					
METHOD BLANK	748659		Matrix: Wate	er			
Associated Lab Sa	amples:						
Para	ameter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	_
Total Uranium		0.046 ± 0.001	(0.193) C:NA T:NA	ug/L	07/02/14 14:26		_

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

Project:	42001269					
Pace Project No.:	35141932					
QC Batch:	RADC/20273	Analysis Method	EPA 900.0			
QC Batch Method:	EPA 900.0	Analysis Descrip	tion: 900.0 Gross	s Alpha/Beta		
Associated Lab Sar	nples: 3514193	2001				
METHOD BLANK:	747925	Matrix: Wa	ter			
Associated Lab Sar	nples:					
Parar	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Gross Alpha		0.099 ± 0.607 (1.60) C:NA T:NA	pCi/L	06/28/14 16:59		
Gross Beta		0.308 ± 0.729 (1.69) C:NA T:NA	pCi/L	06/28/14 16:59		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Project:	42001269					
Pace Project No.:	35141932					
QC Batch:	RADC/20226	· .	Analysis Method:	EPA 903.1		
QC Batch Method:	EPA 903.1		Analysis Description	i: 903.1 Radiu	um-226	
Associated Lab Sa	mples: 3514193	2001				
METHOD BLANK:	746949		Matrix: Water			
Associated Lab Sa	mples:					
Para	meter	Act ± L	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

Project:	42001269					
Pace Project No.:	35141932					
QC Batch:	RADC/20292		Analysis Method:	EPA 904.0		
QC Batch Method	: EPA 904.0		Analysis Descriptio	n: 904.0 Radii	um 228	
Associated Lab S	amples: 3514193	32001				
METHOD BLANK	: 748657		Matrix: Wate	r		
Associated Lab Sa	amples:					
Para	ameter	Act ±	Jnc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.355 ± 0.371	(0.767) C:68% T:90%	pCi/L	06/30/14 15:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project:	42001269				
Pace Project No.:	35141932				
QC Batch;	RADC/20156	Analysis Method:	SM 7500R	Rn-B	
QC Batch Method:	SM 7500Rn-B	Analysis Descript	ion: 7500Rn B	Radon	
Associated Lab Sar	nples: 3514193	2001	·		
METHOD BLANK:	743558	Matrix: Wat	er		
Associated Lab Sar	nples:				
Paran	neter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



42001269

Project:

#### QUALIFIERS

Pace	e Project No.: 35141932
DEF	INITIONS
	DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content. ND - Not Detected at or above adjusted reporting limit.
	J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
	MDL - Adjusted Method Detection Limit.
	PQL - Practical Quantitation Limit.
	RL - Reporting Limit.
	S - Surrogate
	1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
	Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
	LCS(D) - Laboratory Control Sample (Duplicate)
	MS(D) - Matrix Spike (Duplicate)
	DUP - Sample Duplicate
	RPD - Relative Percent Difference
	NC - Not Calculable.
	SG - Silica Gel - Clean-Up
	U - Indicates the compound was analyzed for, but not detected.
	N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration. Act - Activity
	Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-PA Pace Analytical Services - Greensburg

#### ANALYTE QUALIFIERS

- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

#### **REPORT OF LABORATORY ANALYSIS**



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 42001269

 Pace Project No.:
 35141932

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35141932001	Silo Ridge Well 11	EPA 504.1	OEXT/17779	EPA 504.1	GCSV/11634
35141932001	Silo Ridge Well 11	EPA 508.1	OEXT/17723	EPA 508.1	GCSV/11592
35141932001	Silo Ridge Well 11	EPA 515.3	OEXT/17752	EPA 515.3	GCSV/11619
35141932001	Silo Ridge Well 11	EPA 531.1	GCSV/11600		
35141932001	Silo Ridge Well 11	EPA 547	GCSV/11615		
35141932001	Silo Ridge Well 11	EPA 549.2	OEXT/17715	EPA 549.2	GCSV/11603
35141932001	Silo Ridge Well 11	EPA 525.2	OEXT/17743	EPA 525.2	MSSV/6345
35141932001	Silo Ridge Well 11	EPA 548.1	OEXT/17714	EPA 548.1	MSSV/6334
35141932001	Silo Ridge Well 11	SM 7500Rn-B	RADC/20156		
35141932001	Silo Ridge Well 11	EPA 900.0	RADC/20273		
35141932001	Silo Ridge Well 11	EPA 903.1	RADC/20226		
35141932001	Silo Ridge Well 11	EPA 904.0	RADC/20292		
35141932001	Silo Ridge Well 11	ASTM D5174.97	RADC/20294		

**REPORT OF LABORATORY ANALYSIS** 

EnviroTest Laboratories, Inc. 315 Fullerton Avenue Newburgh, NY 12550 Phone (845) 562-0890 Fax (845) 562-0841		Che	Chain of Custody Record	ıstody	Reco				Envir Labo	EnviroTest
	Sampter:		Lab PM: Baver, Deb	ŗ			Carrier Tracking No(s);	No(s);	COC No: 420-7068.1	
Clear III OIII attor (Jab Contract car) Clear Contact Shion Contact	Phone:		E-Mail. dbaver@envirotestlaboratories.com	virotestlabo	ratories.co	E			Page 1 of 1	
Company Pare Analytical Ormond Beach					Analysis		Requested		STL Job #: 420-78776-1	
	Due Date Requested: 6/24/2014			Ma		·			Preservation Codes	N.
	TAT Requested (days):			ui set		-			1 Caller St.	N - Nono O - AsNaO2
State, 20: FL, 32174			6.2%).	ololise					D - Nithe Acid E - NaHSO4 F - MeOH	P - N02045 0 - N02503 R - N0252503
[9]	¥ Od		ः (०।	9 ejer	922 A				G - Amchior H - Ascorbic Aci	S - H2SO4 T - TSP Dodecahydrate
	#OM			nedis	9/80/			<u> </u>		U - Acetorie V - MCAA
Project Name: LBG, Inc.	Project #: 42001269		200 B	9 I.N	AÐ 00		81	<u></u>	بر العام 2	vv - pri 4-3 Z - other (specify)
	SSOW#:		qms2	CT/ 6:	06 /LO		9 /10		oo lo Charl	
	Sample	Type (W	Matrix (www.sec. 5=4014, 0=wasteloki, BT=Tissue,	АЯТИОЭВІ АЯТИОЭВІ АЯТИОЭВІ	ARTNOOR	аятиораі Аятиораі	Аятиорац Аятиорац Аятиорац		redmuki jájo	
Sample Identification Client ID (Lab ID)	Sample Date Time	G=grab) A-M-)	чΧ	IS S	ទេវ៉ែទ	10.0	18			Special Instructions/Note:
Silo Ridge Well 11 (420-78776-1)	6/12/14 10:45		Water	X X X	2.1.6.7	XX	XXX		8	
			0#:3	35141932	193	2				
								ļ	之子 (1943年 (1943年)	
			الالتنبي					<u> </u>		
		50	35141932							
									1. L	
] at	Poison B	Radiological	Sa [	mple Disposal ( A f	sal ( A fee o Client	may be a	assessed if san Disposal By Lab	amples are i	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon	an 1 month) Months
Deliverable Requested: I, II, II, IV, Other (specify)			с <u>у</u>	Special Instructions/QC Requirements	tions/QC F	kequiremen				
Empty Kit Relinquished by:	Date:		Time:				Mathod of	Mathod of Shipmont:		
ant	Date Traje	630 <sup>com</sup>	2Kg	Received by:	1192m	ah.		Date/Time:	0111 Jul	Company
	Date/Time:	Com	Company	Received by:	•			Date/Time:		Company
o Rainquisted by:	Date/Time;	Соп	Company	Received by:	•			Date/Time:		Company
Custody Seals Intact: Custody Seal No.:				Coolar Tampo	arature(s) °C	Coolor Tomperature(s) °C and Other Remarks:	torks;	1.3°C-	- 168	
0 160 M 110										

Page 25 of 32

Pace Analytical	Document Name: Sample Condition Upon Rec Document No.: F-FL-C-007 rev. 05	***		Document Revised: October 9, 2013 Issuing Authonities: Pace Florida Quality Office	
San	nple Condition Upon Receip			Table Number:	
· · · · · · · · · · · · · · · · · · ·			roject #	35141932	
	Chefit Name. <u>C. 1910</u>	<u>/ • 2/                                  </u>	-		
	USPS Client Commercial		🗌 Olhe	r	
Tracking #757666	<u>' 34007 :2197 / 30</u> Present: □yes □ no Seal:	s Intact: Tives Tino	Date and	Initials of person examining	
-	Wrap Bubble Bags None		1	6/13/14	
Thermometer Used	1/2 S Type of Ice: We	Blue None	h	(Temp should be above freezing to 5°C). If below ( sample frozen?	D'C, thèn was
	ctory Dies Dies		D		
Receipt of samples satisfa				requested on COC:	ν <b>\</b> '
If yes, then all conditions bel	ow were met:	If no, then mark box	& describe i	ssue (use comments area if necessar	y).
Chain of Custody Present Chain of Custody Filled Out	an a		Aaria	Dixton	
Relinquished Signature & Samp	pler Name COC		<u> <u> </u></u>	JAN BALLY	
Samples Arrived within Hold Tir				······································	
n anna marma a seach anna ann air aitean a sann an ann a' aitean air ann a' air aitean ann ann a' air air air a	 مراجع المراجع ا			میں میں ایک اور ایک ایک ایک میں میں ایک ایک میں	
Sufficient Volume	the subscript of a number of the second subscript the second subscript of the		<u> </u>	anna an	
Correct Containers Used Containers Intact				and the second	
		0			
Sample Labels match COC (san	mple IDs & date/time of collection)				
·	and and the second s	No Labels: UNO	Time/Date o	n Labels:	
All containers needing preservation compliance with EPA recommendat		٥			
No Headspace in VOA Vials ( >	مجيرة بالمحمد المحمد	0			
Client Notification/ Resolution Person Contacted:		/Time:			<u>1021</u>
ngada ¥glétit, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·				
				<b>م میں بر میں اور اور اور اور اور اور اور اور اور اور</b>	
Project Manager Review:			Date	ð:	•
· · · · · · · · · · · · · · · · · · ·					ł
· · ·	Finished Product I	nformation Only			
.P. Sample ID:	Finished Product I			of Bottles Received	
		<u>S</u>	<u></u>	x 5 Gal x 2.5 Gal	
roduction Code:		<u>S</u> 		x 5 Gal x 2.5 Gal x 1 Gal x 1 Liter	
Production Code:		<u>S</u> 		x 5 Gal x 2.5 Gal x 1 Gal	



www.pacelabs.com

## **Report Prepared for:**

Client Services PASI Florida 8 East Tower Circle Ormond Beach FL 32174

# REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

### **Report Summary:**

**Report Prepared Date:** June 26, 2014

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

## **Report Information:**

Pace Project #: 10270952 Sample Receipt Date: 06/17/2014 Client Project #: 35141932 Client Sub PO #: N/A State Cert #: E87605

## **Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

### This report has been reviewed by:

June 26, 2014 Nate Boberg, Project Manager

(612) 607-6444 (fax) nate.boberg@pacelabs.com



## **Report of Laboratory Analysis**

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The results relate only to the samples included in this report.

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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
lowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q
=			

## **REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# **Reporting Flags**

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

## **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

										201	75602501
Chain of Custody										Pace	Pace Analytical <sup>®</sup> www.paceviatos.com
Workorder: 35141932 W	Workorder Name:42001269	9:42001269			Own	Owner Received Date:		6/13/2014 Bonuesta	13/2014 Results Re Remission Analysis	Results Requested By:	6/27/2014
Bo Garcia Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668		Pace Analy 1700 Elm S Suite 200 Minneapoli Phone (612	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700	sota			nixoiU 8, £1613				
tem Sample (D	Sample Collect Type DateTime	tab 10		peneseidun Š		2	۲ ۲'c'7		المربع المربع مربع المربع ال مربع المربع ا	Construction of the second secon	LAB USE ONLY
1 Silo Ridge Well 11 2 3	PS 6/12/201	6/12/2014 10:45 3514	35141932001	Drinking							
2 4								••••	Comments		
Transfers Released By	Da 6/	Date/Time 6/16/14 /600	Received By	Hace		Date/Time	AI				
3 Cooler Temperature on Receipt	pt 4,4 °C	Custody Seal	/ Seal	or N	M Rec	Received on Ice	e V or	Z	Samp	Samples Intact Y	þr N
			, · · · .	•			Please E- VELAC- PDF form is soon as	Pease E-Mail all r VELAC-complian DF format to the is soon as possible	Pease E-Mail all results in a VELAC-compliant Florida MDL DF format to the PM listed above is soon as possible	DL bove	
Page 30 of 32			, ,					かし 日本 日本 日本 日本		0000 HARRING	
Saturday, June 14. 2014 5:03:53 AM								FWI 1-AL	FMIT-ALL-C-002rev.00 24March2009	44March2uus	Page 1 of

	Document Name: Sample Condition Upon Receipt Form Document No: F-MN-L-213-rev:09	Document Revised: 28Feb2014 Page 1 of 1 Issuing Authority: Pace Minnesota Quality Office
iple Condition pon Receipt	Project #:	JO#:10270952
ier: ⊠Fed Ex ⊡UPS ommercial Pace ⊡Speel cking Number: <u>668 9628</u> 1	이상이 가지 <u>않는</u> 것이야지 않는 것이 깜짝하는 것은 것이 있는 것이 같다.	
tody Seal on Cooler/Box Present? 🔲 Yes	XNo Seals Intact?	Optional:         Proj. Due Date:         Proj. Name:           Temp Blank?         Yes         Yes
mom, Used: —	12167504 132521491 Type of Ice: 뒷Wet [] emp Corrected (°C):	Temp Blank? Yes Ado Blue None Samples on Ice, cooling process has be Biological Tissue Frozen? Yes No Ado Itials of Person Examining Contents:
		Comments:
Chain of Custody Present? Chain of Custody Filled Out?		
2hain of Gustody Relinquished?	KYes No . 3.	
Sampler Name and/or Signature on COC?	<u>Yes No 4.</u>	
amples Arrived within Hold Time?	∑rres No 5. ∵Yes ⊠No 17, 6.	
hort Hold Time Analysis (<72 hr)?		
Rush Turn Around Time Requested? Sufficient Volume?	Ves 2No 7. Ves No 8.	
Correct Containers Used?	Yes No 9	
-Pace Containers Used?	Yes         No         9.           Yes         No         Mail           Yes         No         Mail           Yes         No         Mail           Yes         No         Mail	
ontainers Intact?		
Iltered Volume Received for Dissolved Tests?	Aller and the second	
ample Labels-Match COC? -Includes Date/Time/ID/Analysis Matrix:	$\bigvee \bigvee [2]_{\text{Ves}} [2]_{\text{ND}} [2].$	
Il containers needing acid/base preservation ha	ave been Yes No 13.	HNO3 HISOs NaOH HC
hecked? All containers needing preservation are found to	sbein Sam	1ele#
ompliance with EPA recommendation? HNO3, H2SO4, HCI<2, NaOH >9 Sulfide, NaOH>1.	🖸 Yes 🖾 No 📈	
xceptions, VOA, Collform, TOC, Oll and Grease, DRO/8015 (water) DOC		lal when Lot # of a dded npleted:preservative:
ieadspace in VOA Vials ( >6mm)?	X	
rip Blank Present? Fip Blank Custody Seals Present?		
	∏Yes ⊡No N/A	



Pace AnalyticalServices, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

## Drinking Water Analysis Results 2,3,7,8-TCDD -- USEPA Method 1613B

Tel: 612-607-1700 Fax: 612-607-6444

## Sample ID.....Silo Ridge Well 11

Client..... PASI Florida Lab Sample ID.... 35141932001 Date Collected.....06/12/2014 Date Received.....06/17/2014 Date Extracted.....06/24/2014

	Sample Silo Ridge Well 11	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND		
RL	3.5 pg/L	4.6 pg/L		
2,3,7,8-TCDD Recovery			96%	90%
Spike Recovery Limit			73-146%	73-146%
RPD			6.	9%
IS Recovery	99%	74%	82%	80%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	100%	83%	96%	85%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename Analysis Date	R140625A_22 06/25/2014	R140625A_10 06/25/2014	R140625A_08 06/25/2014	R140625A_12 06/25/2014
Analysis Time	22:23	16:00	15:09	16:43
Analyst	CVS	CVS	CVS	CVS
Volume	1.019L	1.021L	1.033L	0.998L
Dilution	NA	NA	NA	NA
ICAL Date	07/19/2013	07/19/2013	07/19/2013	07/19/2013
CCAL Filename	R140625A_05	R140625A_05	R140625A_05	R140625A_05

! = Outside the Control Limits

- ND = Not Detected
- RL = Reporting Limit

Analyst: \_\_\_\_ Chuck Surpm

- Limits = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A  $P_{\rm A}$
- RPD = Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard  $[2,3,7,8-TCDD {}^{13}C_{12}]$
- CS = Cleanup Standard [2,3,7,8-TCDD-<sup>37</sup>Cl<sub>4</sub>]

Project No......10270952 Page 32 of 32 Page 6 of 6

REPORT# (Lab Use Only)		PAGE 1 of 1			NORMAL	quick	VERBAL	#OF COOLERS	REMARKS	Table 88 (Sb,As,Ba,Be,Cd,Cr,Cn,Hg,Ni	Se,T(,F)	Table BC (NO3,NO2)	Table 8D (Ci,Fe,Mn,Ag,Na,SO4,Zn,Odor,Color)	524.2 (POC,MTBE,Vinyl Chloride)	SDCs (504,508,516,525,531,547,548,549,Dioxins)	Additional Tests (Totat coliform	thru Zinc)	Dis. Fe, Dis. Mn, Sutfide	Radon, Gross Alpha/Beta,	Radium 226/228, Total Uranium	MPA (including Cypto and Glardia)		DATE TIME	DATE TIME	DATE		
112201.	101101	ANALYSES	lastic Hyd. terile	Liter P Sodium Plastic S Plastic U	atic Im Ilon	619 Im( 821			ERS.SUBMITTED	4 1 2 1 3							•						COMPÂNY	COMPANY	COMPANY	a de la constante de la constan La constante de la constante de La constante de la constante de	pH CL2 Reveived b/
<b>STODY</b>	/ () 315 Fullerton Avenue, Newburgh, New York 12560 845-552-0890	REQUIRED AN	,oint SSC3 SSC3	elaiv im Sodium Bodium HCI/Na HCI/Na II)oliT.L	ladn Det 1961	mA (m) nA 191i. 1 (m)25	1		NUMBER OF CONTAINERS SUBMITTED	3 2 1 3 1 2			1-250mt Zine Acetate/Sod Hyd.	1-250mi Amber Unpres.	2-250ml Plastaic Unpres.	2-40mî Amber Sodîum Thio.	1-500 Amber Sod. Thio.	1 liter Amber Plastic Sod Thio /H2SO4	2-1liter Amber Unpres.	35 Total Containers			RECEIVED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)		MEDERATORY REMARKS (1) (GEV
CHAIN OF CUSTODY		4 MATRIX TYPE				WI (D) BA	) or W (	TAW) SL 1016W BN 21M32 AI	D (DHVK	G V 2			1-250n	1-250r	2-250n	2-40m	1-500		2-11iter	35 T	<b>&gt;</b> ₹		TIME RECEI	1 TIME RECEI	4 TIME RECEI	ğ	cooles 7 emp
5	Lab Name. Address & Phone	PROJECT LOCATION	TOWN		-				DENTIFICATION	Wall II						15. 				//	•	:	DATE	56 DATE/1/14	1/10/1/1/	APA - Environmental Assoc	TIME CUSTODYINIACT
	ŝ	PROFECTION	-	203-929-855		ar	01 Shelton CT 06484	(if applicable).	SAMPLE IDENTI	Siblide.	0									-				COMPANY	RE COMPANY	-SOC, Radio, Radon, 1	th elizin
FnviroTest	Laboratories, Inc	PROLEGT REFERENCE	емикотехт PROJECT МАМАВИ	алық (ята) ми LBG. Inc.		сиемтимие Stacey Stieber	cuent <u>Abpress</u> 4 Research Drive Suite 301 Shetton CT 06484	COMPANY CONTRACTING THIS WORK (If applicable)	SAMPLE DATE TIME	6112114 10HZ			-				-						Relinquished BY: (Signature)	EAUTANOISI YA CATAMAR	RELITIOUSTED BY (SIGNA)	subcon/Act;#AcE-soc,Radio,Radon/MPA	RECEIVED FOR LABORATORY DY Services of the services of the ser

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## **WELL 25**

# WATER QUALITY

LEGGETTE, BRASHEARS & GRAHAM, INC.

# EnviroTest 🔛 Laboratories Inc.

## ANALYTICAL REPORT

Job Number: 420-78776-3 SDG Number: Silo Ridge Job Description: LBG, Inc.

For: Leggette, Brashears & Graham, Inc. 4 Research Drive Shelton, CT 06464

Attention: Stacy Stieber

and the second

Debra Bayer Customer Service Manager dbayer@envirotestlaboratories.com 07/24/2014

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554

Envirotest Laboratories, Inc. 315 Fullerton Avenue, Newburgh, NY 12550 Tel (845) 562-0890 Fax (845) 562-0841 www.envirotestlaboratories.com



Job Narrative 420-J78776-3

#### Comments

The SOCs, Radon, Radio are reported under EnviroTest Lab #420-79146-1

#### Receipt

All samples were received in good condition within temperature requirements.

#### GC/MS VOA

No analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### **General Chemistry**

No analytical or quality issues were noted.

#### Biology

No analytical or quality issues were noted.

#### **METHOD SUMMARY**

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-3 SDG Number: Silo Ridge

Description	Lab Location	Method Preparation Method
latrix: Water		
litrate-Nitrite Lachat	EnvTest	QuickChem 10-107-04-1C
CP Metals by 200.7 Sample Filtration 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.7	EnvTest EnvTest EnvTest EnvTest	EPA 200.7 Rev 4.4 FILTRATION EPA 200 EPA 200.7
CPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.8	EnvTest EnvTest EnvTest	EPA 200.8 EPA 200 EPA 200.8
pparent Color	EnvTest	SM21 2120B
lercury in Water by CVAA Digestion for CVAA Mercury in Waters	EnvTest EnvTest	EPA 245.1 EPA 245.1
nions by Ion Chromatography	EnvTest	MCAVWV 300.0
urgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2
urbidity	EnvTest	SM20 SM 2130B
odor, Threshold Test	EnvTest	SM20 SM 2150B
Ikalinity, Titration Method	EnvTest	SM18 SM 2320B
corrosivity LSI Calculation	EnvTest	SM20 SM 2330B
lardness by Calculation	EnvTest	SM20 SM 2340B
otal Dissolved Solids (Dried at 180 °C)	EnvTest	SM18 SM 2540C
chloride by Silver Nitrate Titration	EnvTest	SM18 SM 4500 CI- B
yanide, Total: Colorimetric Method Cyanide: Distillation	EnvTest EnvTest	SM18 SM 4500 CN E SM18 SM 4500 CN C
н	EnvTest	SM19 SM 4500 H+ B
ulfide (Methylene Blue method)	EnvTest	SM20 SM 4500 S2 D
litrite by Colormetric	EnvTest	SM20 SM 4500B
otal Coliform and Escherichia coli by Colilert - Presence/Absence	EnvTest	SMWW SM 9223
General Sub Contract Method	Env.Assoc.	Subcontract

#### Lab References:

Env.Assoc. = Environmental Associates

EnvTest = EnviroTest

#### **METHOD SUMMARY**

Client: Leggette, Brashears & Graham, Inc.			Job Number: 420-78776-3 SDG Number: Silo Ridge
Description	Lab Location	Method	Preparation Method
Method References:			
EPA = US Environmental Protection Agency			
EPA-DW = "Methods For The Determination Of Organic Compoun Its Supplements.	ids In Drinking Water', E	EPA/600/4-88/039	9, December 1988 And
MCAWW = "Methods For Chemical Analysis Of Water And Wastes	s", EPA-600/4-79-020, N	larch 1983 And S	Subsequent Revisions.
QuickChem = Lachat QuickChem Manual			
SM18 = "Standard Methods For The Examination Of Water And W	/astewater'', 18th Editior	n, 1992.	
SM19 = "Standard Methods For The Examination Of Water And W	/astewater'', 19Th Editio	n, 1995."	
SM20 = "Standard Methods For The Examination Of Water And W	/astewater", 20th Editior	ı."	
SM21 = "Standard Methods For The Examination Of Water And W	/astewater", 21st Edition	I	
SMWW = "Standard Methods for the Examination of Water and W	astewater"		

#### METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Method	Analyst	Analyst ID
EPA-DW 524.2	Andersen, Eric C	ECA
EPA 200.7 Rev 4.4	McPhillips, Julie	JM
EPA 200.8	McPhillips, Julie	JM
EPA 245.1	McPhillips, Julie	JM
SM20 SM 2340B	McPhillips, Julie	JM
QuickChem 10-107-04-1C	Cusack, Renee	RC
SM21 2120B	Luis, Carlos	CL
MCAWW 300.0	Ulanmo, RoseAnn	RU
SM20 SM 2130B	Luis, Carlos	CL
SM20 SM 2150B	Luis, Carlos	CL
SM18 SM 2320B	Goldstein, Amy	AG
SM20 SM 2330B	Pistole, Maria	MP
SM18 SM 2540C	Travis, Lyndsey	LT
SM18 SM 4500 CI- B	Goldstein, Amy	AG
SM18 SM 4500 CN E	Cusack, Renee	RC
SM19 SM 4500 H+ B	Luis, Carlos	CL
SM20 SM 4500 S2 D	Goldstein, Amy	AG
SM20 SM 4500B	Ulanmo, RoseAnn	RU
SMWW SM 9223	Luis, Carlos	CL

## SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received	_
420-78776-3	Silo Ridge Well 25	Drinking Water	06/12/2014 1120	06/12/2014 1320	

#### Client: Leggette, Brashears & Graham, Inc.

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Client: Leggette, Br	ashears & Graham, Inc.	J	ob Number: 420-78776-3 Sdg Number: Silo Ridge
Client Sample ID:	Silo Ridge Well 25		
Lab Sample ID: Client Matrix:	420-78776-3 Drinking Water	Date Sampled: Date Received:	06/12/2014 1120 06/12/2014 1320

#### 524.2 Purgeable Organic Compounds in Water by GC/MS

Method: Preparation:	524.2 N/A	Analysis Batch: 420-76303	Instrument ID: Lab File ID:	Agilent 789 X061223.D	
Dilution:	1.0		Initial Weight/Volu	me: 5	mL
Date Analyzed:	06/12/2014 1951		Final Weight/Volur	ne: 5	mL
Date Prepared:	N/A				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	<0.500	and a second state of the second state of a second state of the se	0.500
1,1,1-Trichloroethane	<0.500		0.500
1,1,2,2-Tetrachloroethane	<0.500		0.500
1,1,2-Trichloroethane	<0.500		0.500
1,1-Dichloroethane	<0.500		0.500
1,1-Dichloroethene	<0.500		0.500
1,1-Dichloropropene	<0.500		0.500
1,2,3-Trichlorobenzene	<0.500		0.500
1,2,3-Trichloropropane	<0.500		0.500
1,2,4-Trichlorobenzene	<0.500		0.500
1,2,4-Trimethylbenzene	<0.500		0.500
1,2-Dichloroethane	<0.500		0.500
1,2-Dichlorobenzene	<0.500		0.500
1,2-Dichloropropane	<0.500		0.500
1,3-Dichloropropane	<0.500		0.500
1,4-Dichlorobenzene	<0.500		0.500
2,2-Dichloropropane	<0.500	*	0.500
Benzene	<0.500		0.500
Bromobenzene	<0.500		0.500
Bromochloromethane	<0.500		0.500
Bromomethane	<0.500		0.500
n-Butylbenzene	<0.500		0.500
	<0.500		0.500
cis-1,2-Dichloroethene	<0.500		0.500
cis-1,3-Dichloropropene	<0.500		0.500
Carbon tetrachloride	<0.500		0.500
Chlorobenzene			0.500
Chloroethane	<0.500		0.500
Chloromethane	<0.500		
Dibromomethane	<0.500		0.500
Ethylbenzene	<0.500		0.500
Dichlorodifluoromethane	<0.500		0.500
Hexachlorobutadiene	<0.500		0.500
Isopropylbenzene	<0.500		0.500
p-lsopropyltoluene	<0.500		0.500
Methylene Chloride	<0.500		0.500
m-Xylene & p-Xylene	<0.500		0.500
Methyl tert-butyl ether	<0.500		0.500
o-Xylene	<0.500		0.500
Tetrachloroethene	<0.500		0.500
Toluene	<0.500		0.500
trans-1,2-Dichloroethene	<0.500		0.500
trans-1,3-Dichloropropene	<0.500		0.500
Trichloroethene	<0.500		0.500
tert-Butylbenzene	<0.500		0.500
EnviroTest Laboratoriae Inc	Page 7 of 1	9	07/24/2014

EnviroTest Laboratories, Inc.

Client: Leggette	, Brashears & Graham, Inc.		Job Number: 420-78776-3 Sdg Number: Silo Ridge
Client Sample ID:	Silo Ridge Well 25		
Lab Sample ID:	420-78776-3		Date Sampled: 06/12/2014 1120
Client Matrix:	Drinking Water		Date Received: 06/12/2014 1320
	524.2	Purgeable Organic Compounds in	Water by GC/MS
Method:	524.2	Analysis Batch: 420-76303	Instrument ID: Agilent 7890A/5975C
Preparation:	N/A		Lab File ID: X061223.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/12/2014 1951		Final Weight/Volume: 5 mL
Date Prepared:	N/A		
Analyte	11948 (university 1.00 fee above an 1.1 state a the even of even and 1.2 states to 1.2 states to 1.2 states to	Result (ug/L)	
Trichlorofluorometh	ane	<0.500	0.500
Vinyl chloride		<0.500	0.500
Xylenes, Total		<0.500	0.500
Styrene		<0.500	0.500
sec-Butylbenzene		<0.500	0.500
1,3,5-Trimethylbenz	ene	<0.500	0.500
N-Propylbenzene	-	<0.500	0.500 0.500
1,3-Dichlorobenzen 2-Chlorotoluene	e	<0.500 <0.500	0.500
4-Chlorotoluene		<0.500	0.500
4-Chiorotoluene		<0.500	0.500
Surrogate		%Rec	Acceptance Limits
4-Bromofluorobenze		101	71 - 120
Toluene-d8 (Surr)		102	79 - 121
1,2-Dichloroethane	-d4 (Surr)	93	70 - 128

#### Client: Leggette Brashears & Graham, Inc.

Job Number: 420-78776-3 Sdg Number: Silo Ridge

Client Sample ID:	Silo Ridge Well 25			
Lab Sample ID: Client Matrix:	420-78776-3 Drinking Water		Date Sampled: Date Received:	06/12/2014 1120 06/12/2014 1320
		200.7 Rev 4.4 ICP Metals by	200.7	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 06/17/2014 2244 06/17/2014 0915	Analysis Batch: 420-76419 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron	na ann an Santa Bheirn a' tha the Bheir Sana an 1997 an Bheir Anns ann ann an Anns Ann Phairtean a		na ANA Taona Marina amin'ny fisiana dia kaodim-paositra dia mampiasa kaominina dia kaominina minina dia kaomini	Caracteristic and a second contract and a contract of the cont
Manganese Sodium		236		10.0
Zinc		5690 <20.0		200 20.0
		200.7 Rev 4.4 ICP Metals by 200.7	7-Dissolved	
Method:	200.7 Rev 4.4	Analysis Batch: 420-76525	Instrument ID:	Thermo ICP
Preparation:	200.7	Prep Batch: 420-76436	Lab File ID:	N/A
Dilution: Date Analyzed: Date Prepared:	1.0 06/20/2014 1906 06/19/2014 0921		Initial Weight/Volume: Final Weight/Volume:	mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron	<ol> <li>Design and the Remain or assessment to the same only optimation, management of any optimation.</li> </ol>	2017-000 /r (1997) /r (1997) - 1997-1999 - 1997-1997 - 1997-1997 - 1997-1997 - 1997 - 1997 - 1997 - 1997 - 1997 <60.0	19. Mar (A. M. M. (A. M. (A. M. (M. (M. (A. M. (M. (M. (M. (M. (M. (M. (M. (M. (M.	60.0
Manganese		197		10.0

Client: Leggette, Brashears & Graham, Inc.

Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:

Silo Ridge Well 25

Lab Sample ID: Client Matrix:	420-78776-3 Drinking Water		Date Sampled: Date Received:	06/12/2014 1120 06/12/2014 1320
		200.8 ICPMS Metals by 2	00.8	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 06/17/2014 1437 06/17/2014 0915	Analysis Batch: 420-76383 Prep Batch: 420-76363	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer ELAN N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Lead Arsenic Beryllium Cadmium Chromium Nickel Antimony Thallium Barium Selenium Method: Preparation: Dilution: Date Analyzed:	200.8 200.8 1.0 06/24/2014 1743	<1.00 <1.40 <0.300 <1.00 9.61 5.56 <0.400 <0.300 27.6 7.05 Analysis Batch: 420-76626 Prep Batch: 420-76568	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	1.00 1.40 0.300 1.00 7.00 0.500 0.400 0.300 2.00 2.00 2.00 Perkin Elmer ELAN N/A 50 mL 50 mL
Date Prepared:	06/23/2014 1251			
Analyte	nere werne ook in de anverseere zijn oor dat jaar 1070 en dit de geweere eerste d			
Silver		<1.00		1.00
		245.1 Mercury in Water by	CVAA	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	245.1 245.1 1.0 06/19/2014 1634 06/19/2014 1320	Analysis Batch: 420-76473 Prep Batch: 420-76463	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer FIMS N/A 25 mL 25 mL
Analyte		Result (ug/L)	Qualifier	RL
Mercury	na onen generale est her zu en de service en de service en de service de service de service de service de serv	2004 Control Indication Control and Addition Control (1997) And Con	איז	0.200

Job Number: 420-78776-3 Client: Leggette, Brashears & Graham, Inc. Sdg Number: Silo Ridge Client Sample ID: Silo Ridge Well 25 Lab Sample ID: 420-78776-3 Date Sampled: 06/12/2014 1120 06/12/2014 1320 **Client Matrix: Drinking Water** Date Received: SM 2340B Hardness by Calculation Method: SM 2340B Analysis Batch: 420-76423 Instrument ID: None Preparation: N/A Lab File ID: N/A Dilution: Initial Weight/Volume: 1.0 Date Analyzed: 06/17/2014 2244 Final Weight/Volume: Date Prepared: N/A Result (mg/L) Qualifier Analyte RL Calcium hardness as calcium carbonate 150 1.25

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-78776-3 Sdg Number: Silo Ridge

		Biology			
Client Sample ID:	Silo Ridge Well 25				
Lab Sample ID: Client Matrix:	420-78776-3 Drinking Water		Date Sampled: Date Received:		2/2014 1120 2/2014 1320
Analyte	Result	Qual Units		Dil	Method
Coliform, Total	Absent Anly Batch: 420-76274	CFU/100mL Date Analyzed 06/12/2014 1743		1.0	SM 9223
Escherichia coli	Absent Anly Batch: 420-76274	CFU/100mL Date Analyzed 06/12/2014 1743		1.0	SM 9223

**General Chemistry** 

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 25				
Lab Sample ID:	420-78776-3		Date Sampled:	06/1	2/2014 1120
Client Matrix:	Drinking Water		Date Received:	06/1	2/2014 1320
Analyte	Result	Qual Units		Dil	Method
Langelier Index	-0.100	NONE		1.0	SM 2330B
	Anly Batch: 420-76656	Date Analyzed 06/25/2014 1543			

		General Chemistry			
Client Sample ID:	Silo Ridge Well 25				
•	120-78776-3 Drinking Water		Date Sampled: Date Received:		2/2014 1120 2/2014 1320
Analyte	Result	Qual Units	RL	Dil	Method
Nitrate Nitrite as N	0.266 Anly Batch: 420-76347	mg/L Date Analyzed 06/16/2014 1411	0.0100	1.0	10-107-04-1C
Alkalinity	206 Anly Batch: 420-76413	mg/L Date Analyzed 06/17/2014 0940	5.00	1.0	SM 2320B
Total Dissolved Solids	306 Anly Batch: 420-76437	mg/L Date Analyzed 06/18/2014 1545	5.00	1.0	SM 2540C
Sulfate	33.1 Anly Batch: 420-76381	mg/L. Date Analyzed 06/16/2014 1305	5.00	1.0	300.0
Fluoride	<0.500 Anly Batch: 420-76381	mg/L Date Analyzed 06/16/2014 1305	0.500	1.0	300.0
Chloride	<5.00 Anly Batch: 420-76576	mg/L Date Analyzed 06/23/2014 1541	5.00	1.0	SM 4500 CI- B
Cyanide, Total	<0.00500 Anly Batch: 420-76509	mg/L Date Analyzed 06/20/2014 1200	0.00500	1.0	SM 4500 CN E
Apparent Color	Prep Batch: 420-76507 10.0 Anly Batch: 420-76339	Date Prepared: 06/18/2014 0830 Pt-Co Date Analyzed 06/13/2014 1518	2.00	1.0	2120B
pH@color measuremen	t 7.56 Anly Batch: 420-76339	SU Date Analyzed 06/13/2014 1518	2.00	1.0	2120B
Turbìdity	1.02 Anly Batch: 420-76341	NTU Date Analyzed 06/13/2014 1318	0.100	1.0	SM 2130B
Odor	1.00 Anly Batch: 420-76340	T.O.N. Date Analyzed 06/13/2014 1400	1.00	1.0	SM 2150B
Temp @ Odor Measurer	ment 65.0 Anly Batch: 420-76340	Degrees C Date Analyzed 06/13/2014 1400	5.00	1.0	SM 2150B
рН	7.56 Anly Batch: 420-76337	H SU Date Analyzed 06/13/2014 1442	0.200	1.0	SM 4500 H+ B
Temp @ pH Measureme	ent 22.4 Anly Batch: 420-76337	Degrees C Date Analyzed 06/13/2014 1442	5.00	1.0	SM 4500 H+ B
Nitrite as N	<0.0100 Anly Batch: 420-76396	mg/L Date Analyzed 06/12/2014 1640	0.0100	1.0	SM 4500B

Client: Leggette, Brashears & Graham, Inc.

		General Chemistry			
Client Sample ID:	Silo Ridge Well 25				
Lab Sample ID: Client Matrix:	420-78776-3 Drinking Water		Date Sampled: Date Received:		12/2014 1120 12/2014 1320
Oliciti Matrix.					
Analyte	Result	Qual Units	RL	Dil	Method
Sulfide	<0.100	mg/L	0.100	1.0	SM 4500 S2 D
	Anly Batch: 420-76380	Date Analyzed 06/17/2014 1430			

#### DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits
General Chemistry		
	Н	Sample was prepped or analyzed beyond the specified holding time

## **Definitions and Glossary**

Client: Leggette, Brashears & Graham, Inc.

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum quantitation levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points

			12	E											
EnviroTest Laboratories, Inc.	Lab Name Address & Phone	EnviroTest Laboratories 315 Fullerton Avenue, Newbrungh, New York 12550 845-562-0390	Avenue	Lies U		¶ New Y,	ork 12	550 84	5-562-1	78776-31	2	C)		REPORT# (Lab Use Only)	Only)
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CLIENT NAME Stacey Stieber								noM II		eld In		·	aulck	Х Х	
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	2											:	Se,TI,F)	6	
													Table 8	Table 8C (NO3,NO2)	
			1-250	ni Zinc /	-250ml Zinc Acetate/Sod.Hyd	Sod.Hyd							Table (	3D (Cl.Fe,Mn,Ag,N	Table 8D (Cl.Fe,Mn,Ag;Na,SO4,Zn,Odor,Color)
			1-250	ni Ambe	1-250mi Amber Unpres.								524.2 (	524.2 (POC,MTBE,Vinyl Chloride)	Chloride)
			2-250	ni Plasta	2-250ml Plastaic Unpres	es.							socs (	504,508,515,525,5	SOCs (504,508,515,525,531,547,548,549,Dioxins)
			2-40m	Amber	2-40ml Amber Sodium Thio	Thio.							Additio	Additional Tests (Total collform	oliform
			1-500	Amber S	I-500 Amber Sod. Thio								thru Zínc)	nc)	
			1 liter	Amber F	1 liter Amber Plastic Sod Thio /H2SO4	uoid Thiou	H2SO4						Dis. Fe	Dis. Fe, Dis. Mn, Sulfide	
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Page 18 of 19

## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

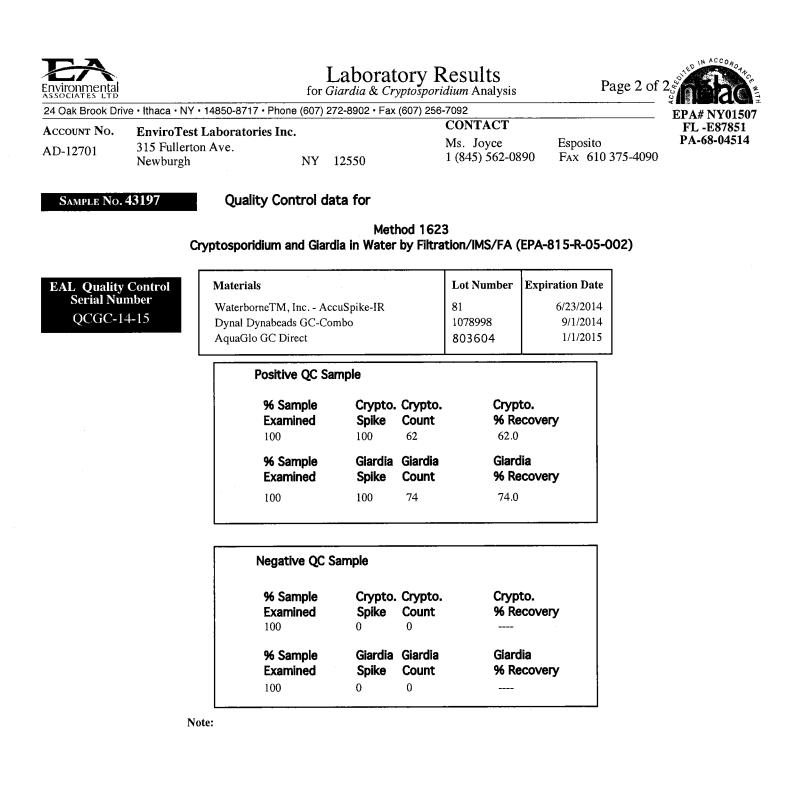
Job Number: 420-78776-3 SDG Number: Silo Ridge

## Login Number: 78776

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	1.3 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	рH
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

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			. ,	272-0902 • Pax (007)		TACT					NY01507 287851
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. <b>O.</b> No. 42	2001269										
SAMPLE NO. 4319	7	SAMPLE SITE	SILO RIDG	e Well # 25		CLIEN	t Identificatio	on 420	-7877	76-T-3	
SAMPLE DAT	`A F	ILTER SAME	PLE								
		VATER TYPE:		Ground Wate	er (GW)	SAN	MPLE COLLECTO	or: S	Stacy S	Stieber	
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ANALYSIS TYF	PE	<b>Method Remarl</b> Method 1623 e immunomagne	ks employs a cc etic separatio rols were sta	oncentration step (centron on (IMS) and an immu	nofluoresc	ent stain	hek filter or Filta for Giardia and (	-Max filta Cryptospo Cysts Observe	oridiun	llowed by n. Positive Result per 100L	
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<b>RESULTS</b> avironmental Asso d. certifies that all ntrol elements ass th the above data en met except as r ted in the commen- ction. Results rela	ociates l quality sociated have may be ents	Method Remarl Method 1623 e immunomagne Negative Cont	ks employs a co tic separatio rols were sta	ANALYTE Empty Giardia Cysts Giardia Cysts with A Giardia Cysts with A Giardia Cysts with A Giardia Cysts with A Cysts with A Total IFA Giardia A ANALYTE Empty Cryptosporia Cryptosporidium Oc Cryptosporidium Oc Total IFA Cryptosp	nofluoresc ncurrently is Detecte Amorpho One Intern More than Count pe lium Oocy boysts with poridium of	ent stain dus Struc nal Struc n One In r 100L ysts Deto h Amorj th Intern Count p	for Giardia and G ture cture nternal Structure ected phous Structure al Structure per 100L	Cryptospo Cysts Observe 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	s ed	n. Positive Result per 100L ND ND ND Result per 100L ND	Result pr 1L ND ND ND ND Result pr 1L ND ND
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<b>RESULTS</b> avironmental Asso d. certifies that all ntrol elements ass th the above data en met except as r ted in the commen- ction. Results rela	ociates l quality sociated have may be ents	Method Remark Method 1623 e immunomagne Negative Conti Giardia Giardia Стурtospori Сомментs All limitations	ks employs a co stic separatio rols were sta	ANALYTE Empty Giardia Cysts Giardia Cysts with A Giardia Cysts with A Giardia Cysts with A Giardia Cysts with A Giardia Cysts with A Total IFA Giardia A ANALYTE Empty Cryptosporia Cryptosporidium Oc Cryptosporidium Oc Cryptosporidium Oc Total IFA Cryptosp QUIVALENT VOLUME EX al methods, laboratory	nofluoresc ncurrently as Detecte Amorpho One Intern More than <b>Count pe</b> <i>lium</i> Oocy ocysts with ocysts with ocysts with coridium ( AMINED: 1	ent stain dus Struc nal Struc n One In r 100L ysts Deta h Amorj th Intern Count p 0L and instr	for Giardia and G ture cture aternal Structure phous Structure al Structure per 100L priments apply. If	Cryptospo Cysts Observe 0 0 0 0 0 0 0 0 0 0 0 0 0	ed sed LIMIT <10.00	n. Positive  Result per 100L  ND  ND  ND  ND  Result per 100L  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Result p 1L ND ND ND ND Result p 1L ND ND ND ND ND ND ND ND ND ND
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# EnviroTest 🔛 Laboratories Inc.

## ANALYTICAL REPORT

Job Number: 420-79146-1

Job Description: LBG, Inc.

For: Leggette, Brashears & Graham, Inc. 4 Research Drive Shelton, CT 06464

Attention: Stacy Stieber

and the second

Debra Bayer Customer Service Manager dbayer@envirotestlaboratories.com 07/24/2014

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554



#### METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79146-1

Description	Lab Location	Method Preparation Method
Matrix: Water		
EPA 504.1 EDB	Pace	EPA 504.1
EPA 505 Pesticide/PCB	Pace	EPA 505
EPA 515 Chlorinated Acids	Pace	EPA 515
EPA 525.2 Semivolatile Organics	Pace	EPA 525.2
PA 531.1 Carbamate Pesticides in Drinki	Pace	EPA 531.1
EPA 900 Series GA/GB/RA226/RA228/Gamma	Pace	EPA 900
Jranium	Pace	STL-STL EPA
General Sub Contract Method	Pace	Subcontract

#### Lab References:

Pace = Pace Analytical - Ormond Beach

#### Method References:

EPA = US Environmental Protection Agency

STL-STL = Severn Trent Laboratories, St. Louis, Facility Standard Operating Procedure.

## SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79146-1

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			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
420-79146-1	Well 25	Drinking Water	06/24/2014 1315	06/24/2014 1518

Use		Sămi Piastic Sterile Mori Viatș Unpres Omi viatș Unpres OUCX VERBAL VERBAL	0	1 3 SOCs (504,508,515,5	Radon, Gross Alpha/Beta, Radium 226/228, Total Uranium	. Total Californ	L L DATE TIME COMPANY DATE TIME COMPANY DATE TIME		
CHAIN OF CUSTODY	550 845-4	الالكندية الافاديا المالجناية المالية الافاديا المالجناية الماليية المالية الماليية المالية مالية مم	1         1				RECEIVED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE)	15 RECEIVED BY (SIGNATURE)	
	Lab Name Address & Phone	20 20 20 20 20 20 20 20 20 20	1 IDENTIFICATION	200		Weit it	DVIC 6/24/19 DATE, 1		
EnviroTest	Laboratories	ewnentsst meduect www.aren Debra Bayer duent (strt) Pw LBG, Inc. 203-95 cuent wwwe Stacey Stieber cuent ADDRess	4 Research Drive, Suite 301, Shel company contractilis THIS WORK of anoleaber SAMPLE			6/24/14 1415 W	RELINQUISHED BY: (SIGNATURE)	RELINGUISHED BY: (SIGNATURE) SUBCONTISHED BY: (SIGNATURE) SUBCONTISHED BY: (SIGNATURE)	

Page 4 of 5

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## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79146-1

## Login Number: 79146

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	4.4 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C $$	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

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July 11, 2014

Ron Bayer EnviroTest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550

RE: Project: LBG, Inc. Pace Project No.: 35143404

Dear Ron Bayer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Cancer

Bo Garcia bo.garcia@pacelabs.com Project Manager

Enclosures

cc: Debra Bayer, EnviroTest Laboratories Inc.
 Renee Cusack, EnviroTest Laboratories Inc.
 Joyce Esposito, EnviroTest Laboratories Inc.
 Janine Rader, EnviroTest Laboratories Inc.
 Meredith Ruthven, EnviroTest Laboratories Inc.



#### **REPORT OF LABORATORY ANALYSIS**

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#### CERTIFICATIONS

Project: LBG, Inc. Pace Project No.: 35143404

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601 ACLASS DOD-ELAP Accreditation #: ADE-1544 Alabama Certification #: 41590 Arizona Certification #: A20734 Arkansas Certification California/TNI Certification #: 04222CA Colorado Certification Connecticut Certification #: PH-0694 Delaware Certification Florida/TNI Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idawali/PADEL Certification Illinois/PADEP Certification Indiana/PADEP Certification lowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133 Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086 Maine Certification #: PA00091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification Missouri Certification #: 235

#### **Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Arizona Certification #: A20735 Colorado Certification: FL NELAC Reciprocity Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: 983079 Georgia Certification #: 883079 Georgia Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification: FL NELAC Reciprocity Illinois Certification: FL NELAC Reciprocity Kansas Certification #: 200068 Indiana Certification #: E-10383 Kentucky Certification #: FL NELAC Reciprocity Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Massachusetts Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Montana Certification #: Cert 0082 Nebraska Certification #: NE-05-29-14 Nevada Certification #: NE-05-29-14 New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification #: PA 051 New York/TNI Certification #: 10888 North Carolina Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: A2706 North Dakota Certification #: PA200002 Pennsylvania/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: PA01457 South Dakota Certification #: PA01457 South Dakota Certification #: TN2867 Texas/TNI Certification #: T104704188 Utah/TNI Certification #: T104704188 Utah/TNI Certification #: TA014572014-4 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Wiginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DHP Certification #: 143 West Virginia DHR Certification #: 143 West Virginia DHR Certification #: 9964C Wisconsin/PADEP Certification

Missouri Certification #: 236 Montana Certification #: Cert 0074 Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New Jersey Certification #: FL765 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification: #IN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 Washington Certification #: 0955 West Virginia Certification #: 9962C Wisconsin Certification #: 390070670 Wyoming (EPA Region 8): FL NELAC Reciprocity

#### REPORT OF LABORATORY ANALYSIS



## SAMPLE SUMMARY

Project:LBG, Inc.Pace Project No.:35143404

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35143404001	Well 25	Drinking Water	06/24/14 13:15	06/25/14 10:40

#### **REPORT OF LABORATORY ANALYSIS**



## SAMPLE ANALYTE COUNT

Project:LBG, Inc.Pace Project No.:35143404

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35143404001		EPA 504.1	IRL	2	PASI-O
		EPA 508.1	JTJ	18	PASI-O
		EPA 515.3	LJM	8	PASI-O
		EPA 531.1	LAJ	9	PASI-O
		EPA 547	LAJ	1	PASI-O
		EPA 549.2	LAJ	1	PASI-O
		EPA 525.2	ТWВ	8	PASI-O
		EPA 548.1	EAO	1	PASI-O
		SM 7500Rn-B	FCC	1	PASI-PA
		EPA 900.0	FCC	2	PASI-PA
		EPA 903.1	JC2	1	PASI-PA
		EPA 904.0	JMR	1	PASI-PA
		EPA 908.0	JAL	1	PASI-PA

#### **REPORT OF LABORATORY ANALYSIS**



## ANALYTICAL RESULTS

Project:LBG, Inc.Pace Project No.:35143404

Sample: Well 25	Lab ID:	35143404001	Collected	1: 06/24/14	13:15	Received: 06/	25/14 10:40 Ma	atrix: Drinking	Water
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytica	I Method: EPA 5	04.1 Prepa	ration Meth	od: EP/	A 504.1			
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	<0.0051 u <0.0065 u	0	0.021 0.010	0.0051 0.0065	1 1	06/26/14 14:00 06/26/14 14:00	06/26/14 21:35 06/26/14 21:35		
508.1 GCS Pesticides	Analytica	Method: EPA 5	08.1 Prepa	ration Meth	od: EP/	A 508.1			
Alachlor Atrazine gamma-BHC (Lindane) Butachlor Chlordane (Technical) Dieldrin Endrin Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorocyclopentadiene Methoxychlor Metolachlor PCB, Total Propachlor Simazine	<0.033 ( <0.020 ( <0.0029 ( <0.014 ( <0.045 ( <0.013 ( <0.0019 ( <0.0019 ( <0.0011 ( <0.0011 ( <0.011 ( <0.001 ( <0.011	ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L ig/L	0.19 0.096 0.019 0.096 0.096 0.0096 0.038 0.019 0.096 0.096 0.096 0.096 0.096 0.096 0.096	0.033 0.020 0.0029 0.014 0.045 0.013 0.0019 0.0058 0.0029 0.011 0.031 0.013 0.011 0.077 0.0096 0.042	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	06/27/14 09:00 06/27/14 09:00	06/28/14 03:39 06/28/14 03:39 06/28/14 03:39 06/28/14 03:39 06/28/14 03:39 06/28/14 03:39 06/28/14 03:39 06/28/14 03:39	1912-24-9 58-89-9 23184-66-9 57-74-9 60-57-1 72-20-8 76-44-8 1024-57-3 118-74-1 77-47-4 72-43-5 51218-45-2 1336-36-3 1918-16-7	
Toxaphene <i>Surrogates</i> Decachlorobiphenyl (S)	< <b>0.58</b> د 104 د	-	0.96 70-130	0.58	1 1	06/27/14 09:00 06/27/14 09:00	06/28/14 03:39 06/28/14 03:39		
515.3 Chlorinated Herbicides 2,4-D Dalapon Dicamba	<0.081 u <0.89 u <0.067 u	лg/L лg/L	0.10 1.0 0.10	0.081 0.89 0.067	1 1 1	06/26/14 11:00 06/26/14 11:00 06/26/14 11:00	06/28/14 02:45 06/28/14 02:45 06/28/14 02:45 06/28/14 02:45	75-99-0 1918-00-9	
Dinoseb Pentachlorophenol Picloram 2,4,5-TP (Silvex) <i>Surrogates</i> 2,4-DCAA (S)	<0.16 ( <0.030 ( <0.094 ( <0.16 ( 86 (	ug/L ug/L ug/L	0.20 0.040 0.10 0.20 70-130	0.16 0.030 0.094 0.16	1 1 1 1	06/26/14 11:00 06/26/14 11:00 06/26/14 11:00 06/26/14 11:00 06/26/14 11:00	06/28/14 02:45 06/28/14 02:45 06/28/14 02:45	87-86-5 1918-02-1 93-72-1	L3
531.1 HPLC Carbamates	Analytica	I Method: EPA 5	31.1						
Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbofuran 3-Hydroxycarbofuran Methomyl Oxamyl Carbaryl	<0.70 c <0.60 c <0.67 c <0.75 c <0.51 c <0.57 c <0.47 c <0.28 c	ıg/L ıg/L ıg/L ıg/L ıg/L	2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	0.70 0.60 0.67 0.75 0.51 0.57 0.47 0.28	1 1 1 1 1 1		06/27/14 23:41 06/27/14 23:41 06/27/14 23:41 06/27/14 23:41 06/27/14 23:41 06/27/14 23:41 06/27/14 23:41 06/27/14 23:41	1646-88-4 1646-87-3 1563-66-2 16655-82-6 16752-77-5 23135-22-0	
<i>Surrogates</i> Propoxur (S)	91 9	%	80-120		1		06/27/14 23:41	114-26-1	P4

## **REPORT OF LABORATORY ANALYSIS**



#### ANALYTICAL RESULTS

Project:LBG, Inc.Pace Project No.:35143404

Sample: Well 25	Lab ID:	35143404001	Collected	06/24/1	4 13:15	Received: 06/	25/14 10:40 M	atrix: Drinking	Water
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate	Analytica	I Method: EPA 5	47						
Glyphosate	< <b>5.4</b> u	ıg/L	6.0	5.4	1		06/27/14 20:11		
549.2 HPLC Paraquat Diquat	Analytica	I Method: EPA 5	49.2 Prepar	ation Meth	od: EP	A 549.2			
Diquat	<b>&lt;0.15</b> u	Jg/L	0.40	0.15	1	06/27/14 20:00	06/30/14 18:30	85-00-7	
525.2 Base Neutral Extractable	Analytica	I Method: EPA 5	25.2 Prepar	ation Meth	nod: EP	A 525.2			
Aldrin	<b>&lt;0.034</b> ເ	ug/L	0.094	0.034	1	07/02/14 10:00	07/03/14 15:20	309-00-2	
Benzo(a)pyrene	<b>&lt;0.018</b> ເ	ug/L	0.094	0.018	1	07/02/14 10:00	07/03/14 15:20	50-32-8	
bis(2-Ethylhexyl)adipate	<0.36 ເ	ug/L	1.5	0.36	1	07/02/14 10:00	07/03/14 15:20	103-23-1	
bis(2-Ethylhexyl)phthalate	<b>9.0</b> ເ	Jg/L	1.9	0.47	1	07/02/14 10:00	07/03/14 15:20	117-81-7	CO
Metribuzin	< <b>0.029</b> (	Jg/L	0.28	0.029	1	07/02/14 10:00	07/03/14 15:20	21087-64-9	
Surrogates		-							
1,3-Dimethyl-2-nitrobenzene(S)	104 9	%	70-130		1	07/02/14 10:00	07/03/14 15:20	81209	
Perylene-d12 (S)	81 9	%	70-130		1	07/02/14 10:00	07/03/14 15:20	1520963	
Triphenylphosphate (S)	101 9	%	70-130		1	07/02/14 10:00	07/03/14 15:20	115-86-6	
548.1 GCS Endothall	Analytica	I Method: EPA 5	48.1 Prepar	ation Meth	nod: EP	A 548.1			
Endothall	<b>&lt;4.1</b> ເ	ıg/L	9.0	4.1	1	06/27/14 16:45	06/28/14 10:04		

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

Project:LBG, Inc.Pace Project No.:35143404

QC Batch:	GCSV/11693	Analysis Method:	EPA 531.1
QC Batch Method:	EPA 531.1	Analysis Description:	531.1 HPLC Carbamate
Associated Lab Sar	nples: 35143404001		
METHOD BLANK:	939942	Matrix: Water	

Associated Lab Samples: 35143404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3-Hydroxycarbofuran	ug/L	<0.51	2.0	06/27/14 14:05	
Aldicarb	ug/L	<0.70	2.0	06/27/14 14:05	
Aldicarb sulfone	ug/L	<0.60	2.0	06/27/14 14:05	
Aldicarb sulfoxide	ug/L	<0.67	2.0	06/27/14 14:05	
Carbaryl	ug/L	<0.28	2.0	06/27/14 14:05	
Carbofuran	ug/L	<0.75	2.0	06/27/14 14:05	
Methomyl	ug/L	<0.57	2.0	06/27/14 14:05	
Oxamyl	ug/L	<0.47	2.0	06/27/14 14:05	
Propoxur (S)	%	86	80-120	06/27/14 14:05	

#### LABORATORY CONTROL SAMPLE: 939943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Hydroxycarbofuran	ug/L	10	10.2	102	80-120	
Aldicarb	ug/L	10	11.4	114	80-120	
Aldicarb sulfone	ug/L	10	10.5	105	80-120	
Aldicarb sulfoxide	ug/L	10	10.0	`100	80-120	
Carbaryl	ug/L	10	10.5	105	80-120	
Carbofuran	ug/L	10	10	100	80-120	
Methomyl	ug/L	10	10.5	105	80-120	
Oxamyl	ug/L	10	10.4	104	80-120	
Propoxur (S)	%			101	80-120	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93994	4		939945							
Parameter	35 Units	143246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3-Hydroxycarbofuran	ug/L	0.51U	10	10	9.9	9.6	99	96	80-120	3	20	
Aldicarb	ug/L	0.70U	10	10	10.5	10.3	105	103	80-120	2	20	
Aldicarb sulfone	ug/L	0.60U	10	10	9.3	10.0	93	100	80-120	8	20	
Aldicarb sulfoxide	ug/L	0.67U	10	10	9.5	9.9	95	99	80-120	4	20	
Carbaryl	ug/L	0.28U	10	10	9.7	10.1	97	101	80-120	4	20	
Carbofuran	ug/L	0.75U	10	10	9.5	9.5	95	95	80-120	.2	20	
Methomyl	ug/L	0.57U	10	10	9.9	10.3	99	103	80-120	4	20	
Oxamyl	ug/L	0.47U	10	10	9.7	10.3	97	103	80-120	6	20	
Propoxur (S)	%						96	94	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Pace Analytical www.pacelabs.com

Project:	LBG, Inc.												
Pace Project No.:	35143404												
QC Batch:	GCSV/11695			Analys	is Method:	EI	PA 547						
QC Batch Method:	EPA 547			Analys	is Descript	ion: 54	47 HPLC GI	yphosate					
Associated Lab San	nples: 3514340	04001											
METHOD BLANK:	939946				Aatrix: Wat	ter							
Associated Lab San	nples: 3514340	04001											
				Blank		eporting							
Paran	neter		Units	Resul	t	Limit	Analyz	ed	Qualifiers				
Glyphosate		ug/L			<5.4	6.0	06/27/14	18:11					
LABORATORY CON	NTROL SAMPLE:	93994	7										
				Spike	LCS		LCS	% Rec					
Paran	neter		Units	Conc.	Resu	lt	% Rec	Limits	Qı	ualifiers	_		
Glyphosate	·	ug/L		50		47.6	95	80	-120				
MATRIX SPIKE & M	IATRIX SPIKE DI	JPLICATI	E: 93994	8		939949	<u>.</u>						
				MS	MSD								
			43622001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	<u> </u>
							Dooult			Limoito			
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

<sup>s</sup>ace Analytica www.pacelabs.com

Project: LE	G, Inc.													
Pace Project No.: 35	143404													
QC Batch: C	DEXT/17856			Analys	is Method:	EF	PA 504.1				· · ·			
QC Batch Method: E	PA 504.1			Analys	is Descript	ion: 50	4 EDB D	BCP						
Associated Lab Sample	s: 35143	404001												
METHOD BLANK: 93	8660			Ň	latrix: Wat	ter			•••					
Associated Lab Sample	s: 35143	404001												
				Blank		eporting			<b>.</b>					
Paramete	:Г		Units	Result	t 	Limit	Ana	lyzed	Qualif	iers	_			
1,2-Dibromo-3-chloropr	•	ug/L			0049	0.020		4 18:49						
1,2-Dibromoethane (ED	B)	ug/L		<0.1	0062	0.010	06/26/1	14 18:49						
		E & LCSD:	938661			38662			<u>.</u>					
				Spike	LCS	LCSD	LCS	LCSD	% Rec			Max		
Paramete	er	I	Units	Conc.	Result	Result	% Rec	% Rec	Limits	R	⊃D	RPD	Qua	alifiers
1,2-Dibromo-3-chloropr	opane	ug/∟		.25	0.22	0.21	88	85	70-130		3	40		
1,2-Dibromoethane (ED	B)	ug/L		.25	0.23	0.23	94	93	70-130		.6	40		
MATRIX SPIKE & MAT				3		938664	·							
				MS	MSD									
		351	43207001	Spike	Spike	MS	MSD	MS			% Rec		Max	
Parameter		Units	Result	Conc.	Conc.	Result	Result	% Re	ec % R	ec	Limits	RPD	RPD	Qual
1,2-Dibromo-3-chloropr	opane i	ıg/L	<0.0051	.44	.44	0.41	0.4	2	94	97	65-13		-	
1,2-Dibromoethane (ED	)B) ι	ıg/L	<0.0065	.44	.44	0.40	0.4	4	91	100	65-13	5 9	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

Project: LBG, Inc. Pace Project No.: 35143404

METHOD BLANK: 939202

QC Batch:	OEXT/17866	Analysis Method:	EPA 508.1
QC Batch Method:	EPA 508.1	Analysis Description:	508 GCS Pesticide
Associated Lab San	nples: 35143404001		

Matrix: Water

Associated Lab Samples: 35143404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alachlor	ug/L	<0.034	0.20	06/27/14 21:17	
Atrazine	ug/L	<0.021	0.10	06/27/14 21:17	
Butachlor	ug/L	<0.015	0.10	06/27/14 21:17	
Chlordane (Technical)	ug/L	<0.047	0.20	06/27/14 21:17	
Dieldrin	ug/L	<0.014	0.10	06/27/14 21:17	
Endrin	ug/L	<0.0020	0.010	06/27/14 21:17	
gamma-BHC (Lindane)	ug/L	<0.0030	0.020	06/27/14 21:17	
Heptachlor	ug/L	<0.0060	0.040	06/27/14 21:17	
Heptachlor epoxide	ug/L	<0.0030	0.020	06/27/14 21:17	
Hexachlorobenzene	ug/L	<0.011	0.10	06/27/14 21:17	
Hexachlorocyclopentadiene	ug/L	<0.032	0.10	06/27/14 21:17	
Methoxychlor	ug/L	<0.014	0.10	06/27/14 21:17	
Metolachlor	ug/L	<0.011	0.10	06/27/14 21:17	
PCB, Total	ug/L	<0.080	0.10	06/27/14 21:17	
Propachlor	ug/L	<0.010	0.10	06/27/14 21:17	
Simazine	ug/L	<0.044	0.070	06/27/14 21:17	
Toxaphene	ug/L	<0.61	1.0	06/27/14 21:17	
Decachlorobiphenyl (S)	%	2	70-130	06/27/14 21:17	P2,S7

#### LABORATORY CONTROL SAMPLE: 939203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L		1.1	106	70-130	
Atrazine	ug/L	1.2	1.1	89	70-130	
Butachlor	ug/L	.5	0.52	103	70-130	
Dieldrin	ug/L	.5	0.56	113	70-130	
Endrin	ug/L	.05	0.062	125	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.10	104	70-130	
Heptachlor	ug/L	.2	0.20	102	70-130	
Heptachlor epoxide	ug/L	.1	0.11	106	70-130	
Hexachlorobenzene	ug/L	.5	0.48	96	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.35	70	70-130	
Methoxychlor	ug/L	.5	0.53	106	70-130	
Metolachlor	ug/L	.5	0.51	102	70-130	
Propachlor	ug/L	.5	0.49	98	70-130	
Simazine	ug/L	.88	0.72	82	70-130	
Decachlorobiphenyl (S)	%			2	70-130 F	P2,S7

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project: LBG, Inc. Pace Project No.: 35143404

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 93986	3		939864							
			MS	MSD								
	35	143469002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Alachlor	ug/L	<0.033	.98	.97	1.1	1.1	113	116	70-130	2	40	
Atrazine	ug/L	<0.021	1.2	1.2	1.1	1.1	91	94	70-130	3	40	
Butachlor	ug/L	<0.015	.49	.49	0.54	0.56	111	115	70-130	3	40	
Dieldrin	ug/L	<0.014	.49	.49	0.58	0.59	119	122	70-130	1	40	
Endrin	ug/L	<0.0020	.049	.049	0.056	0.057	115	118	70-130	2	40	
gamma-BHC (Lindane)	ug/L	<0.0030	.098	.097	0.11	0.10	107	108	70-130	.3	40	
Heptachlor	ug/L	<0.0059	.2	.19	0.22	0.22	110	112	70-130	.8	40	
Heptachlor epoxide	ug/L	<0.0030	.098	.097	0.11	0.11	115	115	70-130	1	40	
Hexachlorobenzene	ug/L	<0.011	.49	.49	0.48	0.49	99	101	70-130	2	40	
Hexachlorocyclopentadiene	ug/L	<0.031	.49	.49	0.53	0.50	108	104	70-130	5	40	
Methoxychlor	ug/L	<0.014	.49	.49	0.63	0.61	130	126	70-130	3	40	
Metolachlor	ug/L	<0.011	.49	.49	0.52	0.52	106	107	70-130	.8	40	
Propachior	ug/L	<0.0098	.49	.49	0.50	0.51	102	106	70-130	3	40	
Simazine	ug/L	<0.043	.86	.85	0.80	0.88	93	103	70-130	10	40	
Decachlorobiphenyl (S)	%						109	90	70-130		40	

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#### **REPORT OF LABORATORY ANALYSIS**



Project: LBG, Inc. Pace Project No.: 35143404

QC Batch:	OEXT/17858	Analysis Method:	EPA 515.3
QC Batch Method:	EPA 515.3	Analysis Description:	5153 GCS Herbicides
Associated Lab San	ples: 35143404001		

Matrix: Water

METHOD BLANK: 938788

Associated Lab Samples: 35143404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	<0.16	0.20	06/27/14 18:25	·
2,4-D	ug/L	<0.081	0.10	06/27/14 18:25	
Dalapon	ug/L	<0.89	1.0	06/27/14 18:25	
Dicamba	ug/L	<0.067	0.10	06/27/14 18:25	
Dinoseb	ug/L	<0.16	0.20	06/27/14 18:25	
Pentachlorophenol	ug/L	<0.030	0.040	06/27/14 18:25	
Picloram	ug/L	<0.094	0.10	06/27/14 18:25	
2,4-DCAA (S)	%	84	70-130	06/27/14 18:25	

#### LABORATORY CONTROL SAMPLE: 938789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	1.0	101	70-130	
2,4-D	ug/L	.5	0.53	106	70-130	
Dalapon	ug/L	5	5.4	107	70-130	
Dicamba	ug/L	.5	0.52	105	70-130	
Dinoseb	ug/L	1	1.1	112	70-130	
Pentachlorophenol	ug/L	.2	0.20	99	70-130	
Picloram	ug/L	.5	0.66	131	70-130 L	0
2,4-DCAA (S)	%			84	70-130	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93879	0		938791							
	35	143136001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.97	1.0	97	100	70-130	3	40	
2,4-D	ug/L	0.081U	.5	.5	0.47	0.48	94	95	70-130	.8	40	
Dalapon	ug/L	0.89U	5	5	4.9	5.0	99	101	70-130	2	40	
Dicamba	ug/L	0.067U	.5	.5	0.48	0.49	96	99	70-130	2	40	
Dinoseb	ug/L	0.16U	1	1	1.1	1.1	107	113	70-130	5	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	0.19	0.19	92	95	70-130	4	40	
Picloram	ug/L	0.094U	.5	.5	0.67	0.71	134	142	70-130	6	40	MO
2,4-DCAA (S)	%						81	81	70-130			

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#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALITY CONTROL DATA

Project: LBG, Inc. Pace Project No.: 35143404

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93879	2		938793						
		143246001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD Qua
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.95	0.98	95	98	70-130	2	40
2,4-D	ug/L	0.081U	.5	.5	0.58	0.54	116	109	70-130	6	40
Dalapon	ug/L	0.89U	5	5	5.2	4.9	104	98	70-130	6	40
Dicamba	ug/L	0.067U	.5	.5	0.48	0.52	96	105	70-130	9	40
Dinoseb	ug/L	0.16U	1	1	1.1	1.1	107	108	70-130	2	40
Pentachlorophenol	ug/L	0.030U	.2	.2	<0.030	<0.030	3	3	70-130		40 M1
Picloram	ug/L	0.094U	.5	.5	0.67	0.66	135	131	70-130	3	40 M0
2,4-DCAA (S)	%						79	74	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project: LBG, Inc. Pace Project No.: 35143404

QC Batch:	OEXT/17932	Analysis Method:	EPA 525.2
QC Batch Method:	EPA 525.2	Analysis Description:	525.2 Base Neutral Extractables
Associated Lab Sam	ples: 35143404001		

Matrix: Water

#### METHOD BLANK: 942679

Associated Lab Samples: 35143404001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	<0.036	0.10	07/03/14 11:13	
Benzo(a)pyrene	ug/L	<0.019	0.10	07/03/14 11:13	
bis(2-Ethylhexyl)adipate	ug/L	<0.38	1.6	07/03/14 11:13	
bis(2-Ethylhexyl)phthalate	ug/L	<0.50	2.0	07/03/14 11:13	
Metribuzin	ug/L	<0.031	0.30	07/03/14 11:13	
1,3-Dimethyl-2-nitrobenzene(S)	%	98	70-130	07/03/14 11:13	
Perylene-d12 (S)	%	82	70-130	07/03/14 11:13	
Triphenylphosphate (S)	%	99	70-130	07/03/14 11:13	

LABORATORY CONTROL SAMPL	E: 942680					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	 ug/L		0.35		70-130	
Benzo(a)pyrene	ug/L	.4	0.35	87	70-130	
bis(2-Ethylhexyl)adipate	ug/L	6.4	5.2	82	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	6.1	76	70-130	
Metribuzin	ug/L	1.2	1. <b>4</b>	117	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			103	70-130	
Perylene-d12 (S)	%			84	70-130	
Triphenylphosphate (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 94354	1		943542							
Parameter	35 Units	143922001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	0.036U	.39	.4	0.048J	<0.036	12	0	70-130		40	
Benzo(a)pyrene	ug/L	0.019U	.39	.4	0.36	0.39	91	97	70-130	8	40	
bis(2-Ethylhexyl)adipate	ug/L	0.38U	6.2	6.3	5.2	5.2	83	81	70-130	.6	40	
bis(2-Ethylhexyl)phthalate	ug/L	0.50U	7.8	7.9	6.3	6.2	80	77	70-130	2	40	
Metribuzin	ug/L	0.031U	1.2	1.2	1.4	1.2	123	100	70-130	19	40	
1,3-Dimethyl-2- nitrobenzene(S)	%						101	100	70-130			
Pervlene-d12 (S)	%						96	93	70-130			
Triphenylphosphate (S)	%						100	96	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	LBG, Inc.												
Pace Project No.:	35143404												
QC Batch:	OEXT/178	61		Analys	sis Method:	: E	PA 548.1						
QC Batch Method:	EPA 548.1			Analys	sis Descript	tion: 5	48 GCS End	dothall					
Associated Lab San	nples: 351	43404001											
METHOD BLANK:	938902			٦	Matrix: Wa	ter							
Associated Lab San	nples: 351	43404001											
_				Blan		eporting							
Paran	neter	l	Jnits	Resu	lt	Limit	Analyz	.ed	Qualifiers				
Endothall		ug/L			<4.1	9.0	06/27/14	08:12					
		PLE: 938903	3										
			-	Spike	LCS	6	LCS	% Rec	;				
Paran	neter	ι	Jnits	Conc.	Resu	ılt	% Rec	Limits	Qı	ualifiers			
Endothall		ug/L		50	)	53.5	107	80	-120		-		
MATRIX SPIKE & M			93921			939211							
				MS	MSD	000211							
		3514	42925001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall		ug/L	4.1U	50	50	57.4	51.2	115	102	80-120	11	40	
MATRIX SPIKE & M			94064	0		940641							
				MS	MSD	0.007.1							
		3514	43235001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramet	er	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Endothall		ug/L	4.1U	50	50	42.0	42.9	84	86	80-120	2	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project:	LBG, Inc												
Pace Project No.:	3514340	4											
QC Batch:	OEXT/	17874		Analys	sis Method:	E	PA 549.2						
QC Batch Method:	EPA 54	9.2		Analys	sis Descript	tion: 5	49 HPLC Pa	raquat Diq	luat				
Associated Lab Sar	mples:	35143404001											
METHOD BLANK:	939608				Matrix: Wa	ter							
Associated Lab Sar	mples:	35143404001											
_				Blan		eporting			~ ""				
	meter		Units	Resu		Limit	Analyz		Qualifiers				
Diquat		ug/L			<0.15	0.40	06/30/14	16:39					
LABORATORY CO	NTROL SA	AMPLE: 93960	)9										
				Spike	LCS		LCS	% Red	=				
Parar	meter		Units	Conc.	Resu	llt	% Rec	Limits	s QL	ualifiers			
Diquat		ug/L		2	2	1.9	95	80	)-120				
MATRIX SPIKE & N		PIKE DUPLICAT	E: 93961	0		939611	-						
				MS	MSD								
Parame	ter	35 <sup>-</sup> Units	143246001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diquat		ug/L	0.15U	2	2	1.7	1.7	84	83	80-120	2	30	-
		PIKE DUPLICAT	E: 94088		MSD	940882							
MATRIX SPIKE & N	MATRIX SI			MS	MISU								
MATRIX SPIKE & I	MATRIX SI		43836001	MS Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parame			143836001 Result			MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD		Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



#### ANALYTICAL RESULTS

Project: LBG, Inc. Pace Project No.: 35143404

Sample: Well 25 PWS:	Lab ID: 3514 Site ID:	3404001 Collected: 06/24/14 13: Sample Type:	15 Received:	06/25/14 10:40	Matrix: Drinking	Water
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM 7500Rn-B	1,293 ± 71.3 (56.4) C:NA T:NA	pCi/L	06/27/14 10:0	5 10043-92-2	
Gross Alpha	EPA 900.0	2.88U ± 1.41 (2.88) C:NA T:NA	pCi/L	07/07/14 08:00	0 12587-46-1	
Gross Beta	EPA 900.0	1.76 ± 0.945 (1.76) C:NA T:NA	pCi/L	07/07/14 08:00	) 12587-47-2	
Radium-226	EPA 903.1	0.732 ± 0.537 (0.680) C:NA T:98%	pCi/L	07/07/14 14:19	9 13982-63-3	
Radium-228	EPA 904.0	0.744U ± 0.355 (0.744) C:78% T:82%	pCi/L	07/07/14 11:24	15262-20-1	
Total Uranium	EPA 908.0	1.15 ± 0.281 (0.378) C:NA T:84%	pCi/L	07/07/14 18:28	3 7440-61-1	

## REPORT OF LABORATORY ANALYSIS



Project:	LBG, Inc.					
Pace Project No.:	35143404					
QC Batch:	RADC/20376	Analysis Method:	EPA 900.0			
QC Batch Method:	EPA 900.0	Analysis Description	n: 900.0 Gross	s Alpha/Beta		
Associated Lab Sa	mples: 3514340	4001				
METHOD BLANK:	751886	Matrix: Wate	r			
Associated Lab Sat	mples:					
Para	meter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Gross Alpha		0.126 ± 0.717 (1.83) C:NA T:NA	pCi/L	07/07/14 07:57		
Gross Beta		2.43 ± 1.34 (2.50) C:NA T:NA	pCi/L	07/07/14 07:57		

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Project:	LBG, Inc.						
Pace Project No.:	35143404						
QC Batch:	RADC/20363		Analysis Method:	EPA 904.0			
QC Batch Method	EPA 904.0		Analysis Descriptio	n: 904.0 Radi	um 228		
Associated Lab S	amples: 3514340	04001					
METHOD BLANK	. 751702		Matrix: Water	•		·	<u></u>
Associated Lab S	amples:						
Par	ameter	Act ±	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers	_
Radium-228		0.670 ± 0.355	(0.635) C:81% T:92%	pCi/L	07/07/14 11:26		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



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## QUALITY CONTROL DATA

Project:	LBG, Inc.						
Pace Project No.:	35143404						
QC Batch:	RADC/20361		Analysis Method:	EPA 903.1			
QC Batch Method	: EPA 903.1		Analysis Descriptio	n: 903.1 Radiu	ım-226		
Associated Lab Sa	amples: 3514340	04001					
METHOD BLANK	751700		Matrix: Water	•			
Associated Lab Sa	amples:						
Para	ameter	Act ± U	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		-0.209 ± 0.555	(0.990) C:NA T:90%	pCi/L	07/07/14 13:54		-

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#### **REPORT OF LABORATORY ANALYSIS**



#### QUALITY CONTROL DATA

Project:	LBG, Inc.						
Pace Project No.:	35143404						
QC Batch:	RADC/20304		Analysis Method:	SM 7500Rr	ı-B		
QC Batch Method	: SM 7500Rn-B		Analysis Description	on: 7500Rn B F	Radon		
Associated Lab S	amples: 3514340	4001					
METHOD BLANK	: 748744	<u></u>	Matrix: Wate				
Associated Lab S	amples:						
Par	ameter	Act :	ե Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radon		-104 + 188	(33.5) C:NA T:NA	pCi/L	06/27/14 07:29		

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#### **REPORT OF LABORATORY ANALYSIS**



Project:	LBG, Inc.						
Pace Project No.:	35143404						
QC Batch:	RADC/20351		Analysis Method:	EPA 908.0			
QC Batch Method:	EPA 908.0		Analysis Descriptior	n: 908.0 Total	Uranium		
Associated Lab Sa	imples: 351434(	04001					
METHOD BLANK:	751688		Matrix: Water				
Associated Lab Sa	imples:						
Para	imeter	Act ± U	nc (MĐC) Carr Trac	Units	Analyzed	Qualifiers	
Total Uranium		0.0344 ± 0.143	(0.273) C:NA T:110%	pCi/L	07/07/14 18:27		-

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#### **REPORT OF LABORATORY ANALYSIS**



#### QUALIFIERS

Project: LBG, Inc. Pace Project No.: 35143404

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-PA Pace Analytical Services - Greensburg

#### ANALYTE QUALIFIERS

- C0 Result confirmed by second analysis.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- P4 Sample field preservation does not meet EPA or method recommendations for this analysis.
- S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

#### REPORT OF LABORATORY ANALYSIS

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#### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:LBG, Inc.Pace Project No.:35143404

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35143404001	Well 25	EPA 504.1	OEXT/17856	EPA 504.1	GCSV/11683
35143404001	Well 25	EPA 508.1	OEXT/17866	EPA 508.1	GCSV/11702
35143404001	Well 25	EPA 515.3	OEXT/17858	EPA 515.3	GCSV/11686
35143404001	Well 25	EPA 531.1	GCSV/11693		
35143404001	Well 25	EPA 547	GCSV/11695		
35143404001	Well 25	EPA 549.2	OEXT/17874	EPA 549.2	GCSV/11711
35143404001	Well 25	EPA 525.2	OEXT/17932	EPA 525.2	MSSV/6406
35143404001	Well 25	EPA 548.1	OEXT/17861	EPA 548.1	MSSV/6377
35143404001	Well 25	SM 7500Rn-B	RADC/20304		
35143404001	Well 25	EPA 900.0	RADC/20376		
35143404001	Well 25	EPA 903.1	RADC/20361		
35143404001	Well 25	EPA 904.0	RADC/20363		
35143404001	Well 25	EPA 908.0	RADC/20351		

## **REPORT OF LABORATORY ANALYSIS**

EnviroTest Labo	0103010	A Star				1						EnviroTect	oTect
315 Fullerton Avenue Newburgh, NY 12550				io Internet	of Custody Record	ody R	ecor	σ				Labo	Laboratories Inc.
Phone (845) 552-0890 Proceeding and a second state of the second se				Ad Carl	APD PM:				Carrier Tra	Carrier Tracking No(s)		COC No: 420-7092 1	
Client Information Volume Control Control Control	Phone:			E-Mail	, Uebra							Page:	
client compat. Shipping/Receiving				dbay	dbayer@envirotestlaboratories.com	stlaborato	ries.com					Page 1 of 1	
Company: Pace Analytical Ormond Beach							Analysis	is Req	Requested			420-79146-1	
Addross: 8 East Tower Circle.	Due Date Requested: 7/5/2014	÷				WO	 				- <del>11 - 11 - 11 - 11 - 11 - 11 - 11 - 1</del>		
Cliv: Ormond Beach	TAT Requested (days):	/s):				ni eeb						B - NaOH C - Zn Acetato D - Nitric Acid	N - NONO O - AsNDO2 P - Na2O4S
State, Zip. FL, 32174						loitea						E - NaHSO4 F - MoOH	Q - Na2SO3 R - Na2S2SO3
Phone: 111-222-3333(Tel)	# Od					d øjeu			. <u> </u>			G - Amchlor H - Ascorbic Acto I - Iron	S - H2SO4 J T - TSP Dodecahydrato 11 - Achione
Email:	.# OW				10181	<b>เต</b> ่ปาต;							V - MCAA W - ph 4-5
Project Name: I BG, Inc	Project #: 42001269				DÚ	5 I. I C						Venuo	Z - other (specity)
Site:	SSOW#:				a)alsi.	9 /LO						it of e	
			Sample Type	Matrix (w-wite. s-rolid.	batali(3)b Alekanno, Artnode	аятиора Аятиора	аятиоре Аятиоре	AATNOD8 AATNOD8	BCONTRA BCONTRA	ATNOOS BCONTRA	илиора	edmŰŇ [Ĕ	
e Identification Client ID (Lab ID)	Sample Date	Time	(G=grab)	BT-Tissue, A-Air	ins j Ioa >	ins		125	1.4	ns 🕅	ns 😭		Special Instructions/Note:
Contraction of the second second				Motor			N N	23			<u> </u>	80	
Well 25 (420-79146-1)	DI24/14	<u>0</u>			8					1		201	
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			Dadiotocinal		Sump(	le Disposal ( A f Return To Client	l ( A fee Client	a Sen	assessed if sam Disposal Bv Lab	d if samµ Bv Lab	los are re	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) — Return To Client Disposal By Lab Archive For Mon	an 1 month) Months
v, Other (specify)		CURINOMI I	antifoxione L		Special	Special Instructions/QC Requirements:	ns/QC R	aquireme	nts:				
Emply Kit Relinquished by:		Date:			Time:				Mo	Method of Shipment	ment:		
Reinfurced by the A	Date/Time:	14 16	630	Company	Roc	Roceived by:	ULN.	inch			Date/Time:	114 104	Company Company
Relinquished by:	Date/Time:			campany	202	Keceived by					Data Time.		Company
6 Relinquished by:	Date/Time:			Company	Rac	Racalved by:	Ug yezh	of Other I	arrivetes.	<u> </u>			
Custody Seals Intact: Custody Seal No.: ∆ Yes Δ No					8	lier i empere				2:4		-1-16	2

Page 25 of 32

Paco Analylical	Document Name: Sample Condition Upon Rec Document No.:	eipt Form	Document Revised: October 9, 2013 Issuing Authonities:	
1	F-FL-C-007 rev. 05		Pace Florida Quality Office	1
Sam	ple Condition Upon Receip	t Form (SCUR)	Table Number:	
- -	Client Name: <u>EhUir</u>	STEST F	Project # <u>35143404</u>	<del>_</del>
Courier: Ted Ex 🗆 UPS	USPS 🗌 Client 🔲 Commercial	Pace	Olher	
Tracking #704	05311666	<u> </u>		
	resent: 🗌 yes 🗌 no Seal Vrap 🙀 Bubble Bags 🗌 None		Date and Initials of person examining contents:	
Thermometer Used	165 Type of Ice: We			we dif C. Hosp weak
Cooler Temperature C $3.q$	Visual) - O, (Correction	1	(Temp should be above freezing to 6°C). If bek (Actual) sample frozen?	5# 0 °C, 0181 was
Receipt of samples satisfac	tory: Dres DHo		Rush TAT requested on COC:	
fyes, then all conditions belo		If no, then mark bo	x & describe issue (use comments area if necess	sary):
Chain of Custody Present				
Chain of Custody Filled Out		<u>                                      </u>		
Relinquished Signature & Sampl	er Name COC	0		
Samples Arrived within Hold Tim	<b>e</b>	o		
Sufficient Volume				
Correct Containers Used		0		
Containers Intact	•			
ample Labels match COC (san	ple IDs & date/time of collection)	a		
1	•	No Labels:	No Time/Date on Labels;	
I containers needing preservation a	are found to be in		•	
ompliance with EPA recommendation of the text of tex of text of text of text of tex of tex of text of tex		·		
				1
lient Notification/ Resolution:				
Person Contacted:		e/Time:		_
omments/ Resolution (use back				,
- 		1415:00	· · ·	_
·		DWC 14512		
	Preserved by:	<del></del>	ه من المراجع من المراجع المراجع المراجع من المر	
	<u></u>			—
Project Manager Review:	· _ ·		Date:	
-				
	Finished Product	Information On	У	_
ана аланан алан алан алан алан алан ала			Size & Qty of Bottles Received	
P. Sample ID:				
oduction Code:			x 2.5 Gal x 1 Gal	
ite/Time Opened:		•	x 1 Liter	
	emaining:		x 500 mL x 250 mL	



www.pacelabs.com

# **Report Prepared for:**

Client Services PASI Florida 8 East Tower Circle Ormond Beach FL 32174

# REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

### **Report Summary:**

**Report Prepared Date:** July 10, 2014

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

# **Report Information:**

Pace Project #: 10272357 Sample Receipt Date: 06/27/2014 Client Project #: 35143404 Client Sub PO #: N/A State Cert #: E87605

### **Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

## This report has been reviewed by:

July 10, 2014 Nate Boberg, Project Manager

(612) 607-6444 (fax) nate.boberg@pacelabs.com



## **Report of Laboratory Analysis**

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

Page 27 of 32 Page 1 of 6

Pace Analytical<sup>™</sup>

Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
lowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

# **REPORT OF LABORATORY ANALYSIS**

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Report No.....10272357\_1613DW



Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

# **Reporting Flags**

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

# **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Report No.....10272357\_1613DW

S	Pace Analytical "	Results Requested By: 7/10/2014.		LAB USE ONLY	3		Commonts		Samples Intact V or N	Please E-Mail all results in a NELAC-Compliant Florida MDL	PDF format to the PM listed above as soon as possible.		FMT-ALL-C-002rev.00 24March2009 Page 1 of
H9284101		Owner Received Date: 6/25/2014 Requireded	MILEI	TEJ91	X		Date/Time	e calitation	Received on Ice Y or N	Please E-N NELAC-Con	PDF format t as soo		FMT-AL
		Workorder Namet BG, Inc.	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700	The second secon	6/24/2014 13:15 35143404001 Drinking		In-toffime /// A Received By		⊘.2.°C Custody Seal Y or (N				
	Chain of Custody	ler: 35143404	Report To Bo Garcia Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 Phone (386)672-5668 Fax (386)672-5668		288	3		1 ransiers keleaseu by	3 Cooler Temperature on Receipt		Doc	Page 30	0 e e e e e e e e e e e e e e e e e e e

er de

	Pace Analytical*	Sample Cond	cument Name: Ition Upon Receip ocument No.: N-L-213-rev:09	t Form	ocument Revised, 28Feb2014 Page 1 of 1 Issuing Authority ace Minnesota Quality Office	
ample Condition Upon Receipt Durler: Commercial Tracking Number: Sustody Seal on Coc	Client Name: Pace Super Pace Spee 0081965 Ver/Box Present? Types	<u>z 636 </u> _	Project #	WO#:1	0272357	J. Name
acking Material;	□Bubble Wrap → Bubb B88A9130516413 → B88A3 □B88A3 Col:	ble Bags None 912167504 9132521491 Type emp Corrected (°C):	Other: oflice: XWet O. Z	Blue Nor	Temp Blank? Kres.	eess has be
and the state of the state of the state	illed Out? elinguished? /or Signature on COC?	Tes Pres Vres Vres		1. 2. 3. 4.	Comments:	
Samples Antivedwi Short Hold Time A Rush Turn Around Sufficient Volume? Correct Containers -Pace Containers Containers Intact?	nalysis (<72:hr)? Time Requested? Used?	Tres Ves Ves Tres Tres Ves Ves		<u>5.</u>		
Sample Labels Matri Includes,Date/T All containers need checked? All containers need	celved for Dissolved Tests? h COG? Img/ID/Analysis Matrix: Ingracid/base preservation ha ng preservation are found to A recommendation?	Ves Ve been		11 12. 13: ⊡HŅC Sāmple #	а ПН3SOa ПNаОн	ШНСІ
(HNO3, H2SO4, HCI<	2) NaOH >9 Sulfide, NaOH>12 Ilform, TOC, Oll and Grease, DOC ( <u>Ials'((&gt;6mm)</u> ?	Cyanide)		Initial when completed: 14: 15:	, Lot # of added preservative:	
Pace Trip Blank Lot . ENT NOTIFICATION	<u>t (If purchased):</u> I/RESOLUTION Ontacted:			s∕Time:	eld Data Required? []Yes [	]No.
Ject Manager Revi Whenever there is a Incorrect preservativ	M L HT	D- urollna compliance sam ners)	> Dies, a copy of this f	Date: 6: orm will be sent to the	Jorth Carolina DEHNR Certification (	Dfflce.(he.)



Pace AnalyticalServices, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

## **Drinking Water Analysis Results** 2,3,7,8-TCDD -- USEPA Method 1613B

Tel: 612-607-1700 Fax: 612-607-6444

## Sample ID..... Well 25

Client..... PASI Florida Lab Sample ID..... 35143404001 Date Collected.....06/24/2014 Date Received ...... 06/27/2014 Date Extracted.....07/08/2014

	Sample Well 25	Method Blank	Lab Spike	Lab Spike Dup
[2,3,7,8-TCDD]	ND	ND		
RL	2.5 pg/L	4.4 pg/L		
2,3,7,8-TCDD Recovery	-		106%	102%
Spike Recovery Limit			73-146%	73-146%
RPD			3.5%	
IS Recovery	60%	66%	74%	81%
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%
CS Recovery	87%	81%	87%	96%
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%
Filename	R140708A_25	R140708A_08	R140708A_06	R140708A_07
Analysis Date	07/09/2014	07/08/2014	07/08/2014	07/08/2014 22:41
Analysis Time	09:00 BAL	23:15 BAL	22:06 BAL	BAL
Analyst Volume	0.944L	1.002L	1.005L	1.023L
Dilution	NA	NA	NA	NA
ICAL Date	07/19/2013	07/19/2013	07/19/2013	07/19/2013
CCAL Filename	R140708A_04	R140708A_04	R140708A_04	R140708A_04

= Outside the Control Limits

ND = Not Detected

1

Analyst: Bar a Lart

RL = Reporting Limit = Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7A Limits = Relative Percent Difference of Lab Spike Recoveries RPD = Internal Standard  $[2,3,7,8-TCDD- {}^{13}C_{12}]$ = Cleanup Standard  $[2,3,7,8-TCDD- {}^{37}Cl_4]$ IS

CS

Project No.....10272357 Page 32 of 32 Page 6 of 6

Report No.....10272357\_1613DW

ENVIRONMENTAL ASSOCIATES LTD. 24 Oak Brook Drive, Ithaca, NY 14850 (607) 272-8902 Fax (607) 256-7092



REPORT: MICROSCOPIC PARTICULATE ANALYSIS

FILTER ID: 43198		<u>315 Fulle</u>	est Laboratories Inc. erton Ave. h NY 12550
Station/Body of water:	Silo Ridge Well # 25	···	
RECEIPT OF FILTER:			
Date Received: 6/13/20	<u>14</u> # of filters: <u>NA</u> Typ	e: <u>bulk sample</u>	er: <u>FedEx</u>
COLLECTION:			
	Stieber	Date & Time Collected:	<u>6/12/2014 11:20am</u>
Temperature: <u>na °F</u>		Turbidity:	na
Water Type: <u>Grou</u>	nd Water (GW)	Date & Time Processed:	6/13/2014 4:00 PM
		Date Analyzed:	6/27/2014
FILTER PROCESSING			
Color of water around filt	er: <u>N/A</u>	Total volume of sediment:	0.01 mL
Filter color:	Clear Bulk Water	Volume of sediment/100 gallons:	0.38 ml
Color of sediment:	white	Phase equivalent gallon volume e	
# gallons filtered:	2.641	r have equivalent galler volume e	Z.04
PARTICULATE DEBRIS		1-3/fiéld @ 100X] (NF) - none PROTOZOANS	
	Quantity Description	Quantity	Description
Large part. 5 $\mu$ m & larger	EH fine silt	Other Coccidia	, <u>,,,,,</u> ,
Small part. up to 5 $\mu$ m	<u>EH</u> fine amorphous debris	Other protozoansNF	
Plant debris	NE		· · · · · · · · · · · · · · · · · · ·
		ALGAE	
OTHER ORGANISMS		Green Algae	
Nematodes	<u>NF</u>		
Nematode eggs	NE		
Rotifers	<u>NE</u>		
Crustaceans			
Crustacean eggs		Blue-Green Algae <u>NF</u>	
Insects	<u>NF</u>		
Other		Flagellated AlgaeNF	
COMMENTS:			

No biological materials were observed. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk).

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

**REPORT REVIEWED BY:** 

Susan Z. Boutros

DATE: JUNE 30, 2014

E.A.- Rev. April.3, 2006 E.A.- Rev. Feb 15, 2010

President & Lab Director

עט אוווע עט, 2014 President & Lab Director

Dr. Susan Boutros

# WELL 31

# WATER QUALITY

LEGGETTE, BRASHEARS & GRAHAM, INC.

# EnviroTest 🔛 Laboratories Inc.

# ANALYTICAL REPORT

Job Number: 420-79020-1

Job Description: LBG, Inc.

For: Leggette, Brashears & Graham, Inc. 4 Research Drive Shelton, CT 06464

Attention: Stacy Stieber

Jace Deposito

Designee for Debra Bayer Customer Service Manager dbayer@envirotestlaboratories.com 07/08/2014

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554





#### Job Narrative 420-J79020-1

#### Comments

No additional comments.

#### Receipt

All samples were received in good condition within temperature requirements.

#### GC/MS VOA

No analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### **General Chemistry**

Method SM 4500 H+ B: The holding time for pH is 15 minutes, the samples were received outside of the holding time.

No other analytical or quality issues were noted.

#### Biology

No analytical or quality issues were noted.

## METHOD SUMMARY

. . . .

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			<u>.</u>
ICP Metals by 200.7 Sample Filtration 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.7	EnvTest EnvTest EnvTest EnvTest		4 FILTRATION EPA 200 EPA 200.7
CPMS Metals by 200.8 200 Series Drinking Water Prep Determination Step Total Metals Digestion for 200.8	EnvTest EnvTest EnvTest		EPA 200 EPA 200.8
Apparent Color	EnvTest	SM21 2120B	
Vercury in Water by CVAA Digestion for CVAA Mercury in Waters	EnvTest EnvTest	EPA 245.1	EPA 245.1
Anions by Ion Chromatography	Env⊺est	MCAWW 300.0	
Anions by Ion Chromatography	EnvTest	MCAWW 300.0	
EPA 504.1 EDB	Pace	EPA 504.1	
PA 505 Pesticide/PCB	Pace	EPA 505	
PA 515 Chlorinated Acids	Pace	EPA 515	
urgeable Organic Compounds in Water by GC/MS	EnvTest	EPA-DW 524.2	
PA 525.2 Semivolatile Organics	Pace	EPA 525.2	
PA 531.1 Carbamate Pesticides in Drinki	Pace	EPA 531.1	
PA 900 Series GA/GB/RA226/RA228/Gamma	Pace	EPA 900	
Iranium	Pace	STL-STL EPA	
leterotropic Plate Count	EnvTest	IDEXX SIMPLATE	E
urbidity	EnvTest	SM20 SM 2130B	
Ddor, Threshold Test	EnvTest	SM20 SM 2150B	
Ikalinity, Titration Method	Env⊺est	SM18 SM 2320B	
Corrosivity LSI Calculation	Env⊺est	SM20 SM 2330B	
ardness by Calculation	Env⊺est	SM20 SM 2340B	
otal Dissolved Solids (Dried at 180 °C)	Env⊺est	SM18 SM 2540C	
Cyanide, Total: Colorimetric Method Cyanide: Distillation	EnvTest EnvTest	SM18 SM 4500 C	N E SM18 SM 4500 CN C
н	EnvTest	SM19 SM 4500 H	+ B
ulfide (Methylene Blue method)	EnvTest	SM20 SM 4500 S2	2 D
litrite by Colormetric	EnvTest	SM20 SM 4500B	
otal Coliform and Escherichia coli by Colilert - Presence/Absence	EnvTest	SMWW SM 9223	
General Sub Contract Method	Env.Assoc.	Subcontract	
General Sub Contract Method	Pace	Subcontract	

EnviroTest Laboratories, Inc.

## METHOD SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Description	Lab Location	Method	Preparation Method	
Lab References:				
Env.Assoc. = Environmental Associates				
EnvTest = EnviroTest				
Pace = Pace Analytical - Ormond Beach				
Method References:				
EPA = US Environmental Protection Agency				
EPA-DW = "Methods For The Determination Of Organic Compound Its Supplements.	s In Drinking Water",	EPA/600/4-88/03	9, December 1988 And	
IDEXX =				
MCAWW = "Methods For Chemical Analysis Of Water And Wastes"	', EPA-600/4-79-020,	March 1983 And	Subsequent Revisions.	
SM18 = "Standard Methods For The Examination Of Water And Wa	istewater", 18th Editio	n, 1992.		
SM19 = "Standard Methods For The Examination Of Water And Wa	istewater", 19Th Editio	on, 1995."		
SM20 = "Standard Methods For The Examination Of Water And Wa	istewater", 20th Editio	n."		
SM21 = "Standard Methods For The Examination Of Water And Wa	istewater", 21st Editio	า		
SMWW = "Standard Methods for the Examination of Water and Wa	stewater			
STL-STL = Severn Trent Laboratories, St. Louis, Facility Standard (	Operating Procedure.			

#### METHOD / ANALYST SUMMARY

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

Analyst ID Analyst Method ECA Andersen, Eric C EPA-DW 524.2 JM EPA 200.7 Rev 4.4 McPhillips, Julie McPhillips, Julie JM EPA 200.8 McPhillips, Julie JM EPA 245.1 JM McPhillips, Julie SM20 SM 2340B CL Luis, Carlos SM21 2120B RU MCAWW 300.0 Ulanmo, RoseAnn CL IDEXX SIMPLATE Luis, Carlos CL Luis, Carlos SM20 SM 2130B CL Luis, Carlos SM20 SM 2150B AG Goldstein, Amy SM18 SM 2320B MP Pistole, Maria SM20 SM 2330B LT Travis, Lyndsey SM18 SM 2540C RC SM18 SM 4500 CN E Cusack, Renee CL Luis, Carlos SM19 SM 4500 H+ B AG Goldstein, Amy SM20 SM 4500 S2 D RU Ulanmo, RoseAnn SM20 SM 4500B LT Travis, Lyndsey SMWW SM 9223

## SAMPLE SUMMARY

Client: Leggette, Brashears & Graham, Inc.

-----

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-79020-1	Well 31	Drinking Water	06/19/2014 1000	06/19/2014 1225

Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Well 31		
Lab Sample ID:	420-79020-1		Date Sampled: 06/19/2014 1000
Client Matrix:	Drinking Water		Date Received: 06/19/2014 1225
		524.2 Purgeable Organic Compounds in V	Vater by GC/MS
Method:	524.2	Analysis Batch: 420-76550	Instrument ID: HP
Preparation:	N/A		Lab File ID: V062013.D
Dilution:	1.0		Initial Weight/Volume: 5 mL
Date Analyzed:	06/20/2014 1508		Final Weight/Volume: 5 mL
Date Prepared:	N/A		
Analuta		Result (ug/L)	Qualifier RL
Analyte 1,1,1,2-Tetrachloroe	thana	<0.500	
1,1,1-Trichloroethar		<0.500	0.500
1,1,2,2-Tetrachloroe		<0.500	0.500
1,1,2-Trichloroethar		<0.500	0.500
1,1-Dichloroethane		<0.500	0.500
1,1-Dichloroethene		<0.500	0.500
1,1-Dichloropropene	2	<0.500	0.500
1,2,3-Trichlorobenz		<0.500	0.500
1,2,3-Trichloropropa		<0.500	0.500
1,2,4-Trichlorobenz		<0.500	0.500
1,2,4-Trimethylbenz		<0.500	·~ 0.500
1,2-Dichloroethane		<0.500	0.500
1,2-Dichlorobenzen	e	<0.500	0.500
1,2-Dichloropropane	e	<0.500	0.500
1,3-Dichloropropane	e	<0.500	0.500
1,4-Dichlorobenzen	e	<0.500	0.500
2,2-Dichloropropane	e	<0.500	0.500
Benzene		<0.500	0.500
Bromobenzene		<0.500	0.500
Bromochloromethar	ne	<0.500	0.500
Bromomethane		<0.500	0.500
n-Butylbenzene		<0.500	0.500
cis-1,2-Dichloroethe		<0.500	0.500
cis-1,3-Dichloroprop		<0.500	0.500 0.500
Carbon tetrachloride	e	<0.500	0.500
Chlorobenzene		<0.500	0.500
Chloroethane		<0.500 <0.500	0.500
Chloromethane		<0.500	0.500
Dibromomethane Ethylbenzene		<0.500	0.500
Dichlorodifluoromet	hane	<0.500	0.500
Hexachlorobutadier		<0.500	0.500
Isopropylbenzene		<0.500	0.500
p-isopropyltoluene		<0.500	0.500
Methylene Chloride		<0.500	0.500
m-Xylene & p-Xyler		<0.500	0.500
Methyl tert-butyl eth		<0.500	0.500
o-Xylene		<0.500	0.500
Tetrachloroethene		<0.500	0.500
Toluene		<0.500	0.500
trans-1,2-Dichloroet	thene	<0.500	0.500
trans-1,3-Dichlorop	ropene	<0.500	0.500
Trichloroethene		<0.500	0.500
tert-Butylbenzene		<0.500	0.500

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

Client Sample ID:	Well 31		
Lab Sample ID: Client Matrix:	420-79020-1 Drinking Water		Date Sampled:         06/19/2014         1000           Date Received:         06/19/2014         1225
		524.2 Purgeable Organic Compounds in	Water by GC/MS
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	524.2 N/A 1.0 06/20/2014 1508 N/A	Analysis Batch: 420-76550	Instrument ID: HP Lab File ID: V062013.D Initial Weight/Volume: 5 mL Final Weight/Volume: 5 mL
Analyte		Result (ug/L)	Qualifier RL
Trichlorofluorometh	ane	<0.500	ыл алт тадар на партика на так так и се так и на и де де се са се стата стата с так и субъе се се собрани на с 0.500
Vinyl chloride		<0.500	0.500
Xylenes, Total		<0.500	0.500
Styrene		<0.500	0.500
sec-Butylbenzene		<0.500	0.500
1,3,5-Trimethylbenz	ene	<0.500	0.500
N-Propylbenzene		<0.500	0.500
1,3-Dichlorobenzen	e	<0.500	0.500
2-Chlorotoluene		<0.500	0.500
4-Chlorotoluene		<0.500	0.500
Surrogate		%Rec	Acceptance Limits
4-Bromofluorobenz	ene	833 (* 1977) 1982 (* 1977) 1997 (* 1984) 1997 (* 1984) 1997 (* 1985) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 1997 (* 1997) 199	71 - 120
Toluene-d8 (Surr)		96	79 - 121
1,2-Dichloroethane	-d4 (Surr)	94	70 - 128

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Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Well 31			
Lab Sample ID: Client Matrix:	420-79020-1 Drinking Water		Date Sampled: Date Received:	06/19/2014 1000 06/19/2014 1225
		200.7 Rev 4.4 ICP Metals by	/ 200.7	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200 1.0 06/24/2014 1753 06/23/2014 1107	Analysis Batch: 420-76627 Prep Batch: 420-76556	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A 50 mL 50 mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese Sodium Zinc		288 295 3970 28.1	dad o se standar ( ) eta Militar ( 1992) da 1992) da ante este a Arte esta esta ( 2012) ( 2012) ( 2012) ( 2012	60.0 10.0 200 20.0
		200.7 Rev 4.4 ICP Metals by 200.	7-Dissolved	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.7 Rev 4.4 200.7 1.0 06/26/2014 2241 06/24/2014 1123	Analysis Batch: 420-76727 Prep Batch: 420-76597	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Thermo ICP N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Iron Manganese	n - Construint de la construir	117 246	an dhanna an bhairt a sun an t-shrannan an san an sin s	60.0 10.0

Client: Leggette, Brashears & Graham, Inc.

Client Sample ID:	Well 31			
Lab Sample ID: Client Matrix:	420-79020-1 Drinking Water		Date Sampled: Date Received:	06/19/2014 1000 06/19/2014 1225
		200.8 ICPMS Metals by 20	00.8	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 200 1.0 06/30/2014 1509 06/20/2014 1444	Analysis Batch: 420-76848 Prep Batch: 420-76511	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer ELAN N/A mL mL
Analyte		Result (ug/L)	Qualifier	RL
Pb Arsenic Beryllium Cadmium Chromium Nickel Antimony Thallium Barium Selenium Method:	200.8	<1.00 <1.40 <0.300 <1.00 <7.00 3.00 <0.400 <0.300 4.42 <2.00 Analysis Batch: 420-76848	Instrument ID:	1.00 1.40 0.300 1.00 7.00 0.500 0.400 0.300 2.00 2.00 2.00 Perkin Elmer ELAN
Preparation: Dilution: Date Analyzed: Date Prepared:	200.8 1.0 06/30/2014 1618 06/24/2014 1052	Prep Batch: 420-76595	Lab File ID: Initial Weight/Volume: Final Weight/Volume:	N/A 50 mL 50 mL
Analyte		Result (ug/L)	Qualifier	RL
Silver	a na sa	Comparison of a statement of the maximum of the comparison of t	a na ana ao amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr	
		245.1 Mercury in Water by	CVAA	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	245.1 245.1 1.0 06/26/2014 1528 06/26/2014 1059	Analysis Batch: 420-76716 Prep Batch: 420-76674	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	Perkin Elmer FIMS N/A 25 mL 25 mL
Analyte		Result (ug/L)	Qualifier	RL
Mercury	an a	••• • • • • • • • • • • • • • • • • •	<ul> <li>Provide managements of additional measurements of the control of the</li></ul>	0.200

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

Client Sample ID:	Well 31			
Lab Sample ID: Client Matrix:	420-79020-1 Drinking Water		Date Sampled: Date Received:	06/19/2014 1000 06/19/2014 1225
		SM 2340B Hardness by Calc	ulation	
Method: Preparation: Dilution: Date Analyzed: Date Prepared:	SM 2340B N/A 1.0 06/24/2014 1753 N/A	Analysis Batch: 420-76650	Instrument ID: Lab File ID: Initial Weight/Volume: Final Weight/Volume:	None N/A
Analyte		Result (mg/L)	Qualifier	RL
Calcium hardness	as calcium carbonate	1994 (La manage Compter Structure), 2000 (1995), 2000 (19	anna an ann an Anna ann an Anna ann an Anna Anna an Anna Anna an Anna Anna Anna Anna Anna Anna Anna Anna Anna A	1.25

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Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

		Biology			
Client Sample ID:	Well 31				
Lab Sample ID:	420-79020-1		Date Sampled:	06/1	9/2014 1000
Client Matrix:	Drinking Water		Date Received:	06/1	9/2014 1225
Analyte	Result	Qual Units		Dil	Method
Coliform, Total	Absent	CFU/100mL		1.0	SM 9223
	Anly Batch: 420-76477	Date Analyzed 06/19/2014 1738			
Escherichia coli	Absent	CFU/100mL		1.0	SM 9223
	Anly Batch: 420-76477	Date Analyzed 06/19/2014 1738			
Analyte	Result	Qual Units	RL	Dil	Method
Heterotrophic Plate C	Count 15.0	CFU/mL	2.00	1.0	SIMPLATE
	Anly Batch: 420-76482	Date Analyzed 06/19/2014 1500			

General Chemistry

1

Job Number: 420-79020-1

Client: Leggette, Brashears & Graham, Inc.

General Chemistry					
Client Sample ID:	Well 31				
Lab Sample ID: Client Matrix:	420-79020-1 Drinking Water		Date Sampled: Date Received:		19/2014 1000 19/2014 1225
Analyte	Result	Qual Units	RL	Dil	Method
Nitrate as N	<0.250 Anly Batch: 420-76544	mg/L Date Analyzed 06/20/2014 1304	0.250	1.0	300.0
Analyte	Result	Qual Units		Dil	Method
Langelier Index	-0.600 Anly Batch: 420-77003	NONE Date Analyzed 07/08/2014 0745		1.0	SM 2330B

Job Number: 420-79020-1

		General Chemistry			
Client Sample ID:	Well 31				
	20-79020-1 rinking Water		Date Sampled: Date Received:		9/2014 1000 9/2014 1225
Analyte	Result	Qual Units	RL	Dil	Method
Alkalinity	71.2 Anly Batch: 420-76609	mg/L Date Analyzed 06/24/2014 0913	5.00	1.0	SM 2320B
Total Dissolved Solids	144 Anly Batch: 420-76547	mg/L Date Analyzed 06/22/2014 1600	5.00	1.0	SM 2540C
Chloride	<1.50 Anly Batch: 420-76544	mg/L Date Analyzed 06/20/2014 1304	1.50	1.0	300.0
Sulfate	21.6 Anly Batch: 420-76544	mg/L Date Analyzed 06/20/2014 1304	5.00	1.0	300.0
Fluoride	<0.500 Anly Batch: 420-76544	mg/L Date Analyzed 06/20/2014 1304	0.500	1.0	300.0
Cyanide, Total	<0.00500 Anly Batch: 420-76704	mg/L Date Analyzed 06/26/2014 1400	0.00500	1.0	SM 4500 CN E
Apparent Color	Prep Batch: 420-76702 5.00 Anly Batch: 420-76539	Date Prepared: 06/26/2014 0845 Pt-Co Date Analyzed 06/20/2014 1109	2.00	1.0	2120B
pH@color measurement	7.74 Anly Batch: 420-76539	SU Date Analyzed 06/20/2014 1109	2.00	1.0	2120B
Turbidity	2.08 Anly Batch: 420-76541	NTU Date Analyzed 06/20/2014 1631	0.100	1.0	SM 2130B
Odor	1.00 Anly Batch: 420-76540	T.O.N. Date Analyzed 06/20/2014 1252	1.00	1.0	SM 2150B
Temp @ Odor Measuren	nent 63.0 Anly Batch: 420-76540	Degrees C Date Analyzed 06/20/2014 1252	5.00	1.0	SM 2150B
рН	7.74 Anly Batch: 420-76493	H SU Date Analyzed 06/19/2014 1738	0.200	1.0	SM 4500 H+ B
Temp @ pH Measureme	nt 21.1 Anly Batch: 420-76493	Degrees C Date Analyzed 06/19/2014 1738	5.00	1.0	SM 4500 H+ B
Nitrite as N	<0.0100 Anly Batch: 420-76523	mg/L Date Analyzed 06/19/2014 1520	0.0100	1.0	SM 4500B
Sulfide	<0.100 Anly Batch: 420-76600	mg/L Date Analyzed 06/24/2014 1141	0.100	1.0	SM 4500 S2 D

# DATA REPORTING QUALIFIERS

Client: Leggette, Brashears & Graham, Inc.

Lab Section	Qualifier	Description
General Chemistry		
	Н	Sample was prepped or analyzed beyond the specified holding time

# **Definitions and Glossary**

Client: Leggette, Brashears & Graham, Inc.

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum quantitation levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

REPORT# (Lab Use Only)	PAGE 1 of 1	TURNAROUND TIME	NORMAL	QUICK		#OF COOLERS	REMARKS	Table 8B (Sb,Ås,Ba,Be,Cd,Cr,Cn,Hg,Ni	Se,TI,F)	Table 8C (NO3,NO2)	Table 8D (Cl,Fe,Mn,Ag,Na,SO4,Zn,Odor,Color)	524.2 (POC,MTBE,Vinyl Chloride)	SOCs (504,508,515,525,531,547,548,549,Dioxins)	Additional Tests (Total coliform	thru Zinc)	Dis. Fe, Dis. Mn, Sulfide	Radon, Gross Alpha/Beta,	Radium 226/228, Total Uranium	MPA (including Cypto and Giardia)		DATE TIME	DATE TIME	DATE TIME		
	SES	Sterile Sterile	Liter   bibo Sodiu mites I m fites I mu lites I mu	1251	54	-16	SUBMITTED	4 1 2 1 3 1							*					-		COMPANY	COMPANY		LIZ OCT Revelved by
IN OF CUSTODY EnviroTest Laboratories 315 Fullerton Avenue, Newburgh, New York 12550 845-562-0590	REQUIRED ANALYSES	.oirit r 60256 biaA a	ml Sod)ur ber Sod)ur ber HCI/N hstic Nitr	öoml Amb mA iter Puiter M Puiter M			NUMBER OF CONTAINERS SUBMITTED	2 1 3 1 2			1-250ml Zinc Acetate/Sod Hyd.	1-250ml Amber Unpres	2-250mi Plastaic Unpres.	2-40mi Amber Sodium Thia.	-500 Amber Sod Thio.	I liter Amber Plastic Sod, Thio /H2SO4	2-1liter Amber Unpres.	35 Total Containers			RECEIVED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	RECEIVED BY (SIGNATURE)		LABORATORY REMARKS ICE V PH
	MATRIX TYPE	qet	e) juqice(e	сом. (£), йдля талу өлгөлүү	SOLID SOLID M O W	TAW) 2L MeW QU	IOBUDA Mana) d				1-250ml Zi	1-250ml Ar	2-250mi PI	2-40ml Am	1-500 Amb	1: litter Amb	2-1liter Am	35 Tot		7	Y TIME RECEIVED			Assoc	Cooler Terrin Cir H
CH/ Lab Name Address & Phone	PROJECT LOCATION	Thy level	<u>и</u>				DENTIFICATION	51		and a second											7 DATE /19/1	DATE/19/14	DATE	APA - Environmental Assoc.	ITME CUSTODY NTACT
t ies, Inc.	PROJECT NO		CLIENT PHONE 203-929-855	e	301 Shelton: CT 06484	(Of apolicable);	SAMPLE IDENT	10 201													COMPANY	K COMPANY	-	SUBCONTACT, PACE-SOC, Radio, Radon, MPA	
EnviroTest Laboratories, Inc	PROJECT REFERENCE AG &	ENVIROTEST PROJECT MANAGER Debra Bayer	слеит (sirt) м. LBG, Inc.	cuent tume Stacey Stieber	cuterin ADRESS 4 Research Drive Suite 301 Shelton: CT 06484	COMPANY CONTRACTING THIS WORK (If applicable	SAMPLE DATE TIME	14/	1 1 1 1						-			-			RELINOUISHED BY (SIGNATURE)	SAMPLED BY: (SUSNATURE)	RELINGUISHED BY (SIGNATURE)	SUBCONTACT: PACI	RECEIVED FOR LABORATORY BY (SPANURE) ALL LADA

Page 17 of 18

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Leggette, Brashears & Graham, Inc.

Job Number: 420-79020-1

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Login Number: 79020

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	6.4 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C $$	True	
If false, was sample received on ice within 6 hours of collection.	NA	
Based on above criteria cooler temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	False	На
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Samples do not require spinning of compositing.	1140	

Environmental Associates Ltd			La for <i>Gia</i>	aboratory ardia & Cryptospo	Resu	lts malysis	I	Page 1 c	of 2	
24 Oak Brook Drive • I	thaca • N	NY • 14850-8717 •	<sup>-</sup> hone (607) 272	-8902 · Fax (607) 2	56-7092 CON					Y01507
AD-12701 31		<b>est Laboratorie</b> s erton Ave. h		2550	Esposito 390 Fax 1 (4	12) 331-7	PA-68	287851 -04514		
<b>P.O.</b> No. Pr	roject #	42001269								
SAMPLE NO. 4321	2	SAMPLE SITE	Well 31			CLIENT	IDENTIFICATION	420-790	)20-1	
SAMPLE DAT	A	FILTER SAME	PLE		d.					
SAME DE DAT		WATER TYPE:		Ground Water	(GW)	Sam	PLE COLLECTOR:	L An	tosh	
		DATE COLLECTE DATE RECEIVED:		Jun 19, 2014 Jun 20, 2014	10:00a	Амс	DUNT COLLECTED: BIDITY:		gal (10 L)	
		Receipt Temper	ATURE (°C) :	°C): 2.2				na		
		ELUTION START D		Jun 20, 2014	1:00pm	рН: Гпл	TER COLOR:	na N/A		
EAL Quality Con GC Serial Numl QCGC-14-16	ber	Total volume o	F SEDIMENT:	<b>0.1</b> ML			SAMPLE NOTES Accepted			
		ber of Aliquots		1						
ANALYSIS TYI		immunomagne	cs employs a conce tic separation (I	ntration step (centri MS) and an immun 1 and examined con	ofluoresce	Enviroch ent stain f	ek filter or Filta-Ma or Giardia and Cryj	ux filter), f otosporidi	ollowed by um. Positive	and
RESULTS			Ana	LYTE				Cysts Observed	Result per 100L	Result per 1L
Environmental Asso			Emr	pty <i>Giardia</i> Cysts	Detected	1		0	ND	ND
Ltd. certifies that all control elements ass				rdia Cysts with A				0	ND	ND
with the above data	have	Giardia	·	rdia Cysts with O	_			0	ND	ND
been met except as i noted in the comme			Gia	rdia Cysts with N	Iore than	One Int	ernal Structure	0	ND	ND
section. Results related to the sample.	ate only	1	Tot	al IFA <i>Giardia</i> C	ount per	· 100L		0	ND	ND
to the sumpto.			Ana	LYTE			Oocysts Observed	Result per 100L	Result per IL	
		Empty Cryptosporidium Oocysts Dete						0	ND	ND
				ptosporidium Ood		0	ND	ND		
		Cryptosport	dium	ptosporidium Oo	-		0	ND	ND	
			Tot	al IFA Cryptospo	oridium (	Count pe	er 100L	0	ND	ND

COMMENTS

All limitations of analytical methods, laboratory dilutions, and instruments apply. If there are any questions about this report please contact the person certifying the report at the lab number.

NOTICE: EPA Method 1623 indicates 1 matrix sample is needed for every 20 field samples. Please contact the laboratory for details. ANALYST Dr. Susan Boutros DATE COMPLETED June 23, 2014

EQUIVALENT VOLUME EXAMINED: 10L

Analysis Certified By Susan Z. Bartis Dr. Susan Boutros

President & Lab Director

DATE CERTIFIED June 23, 2014

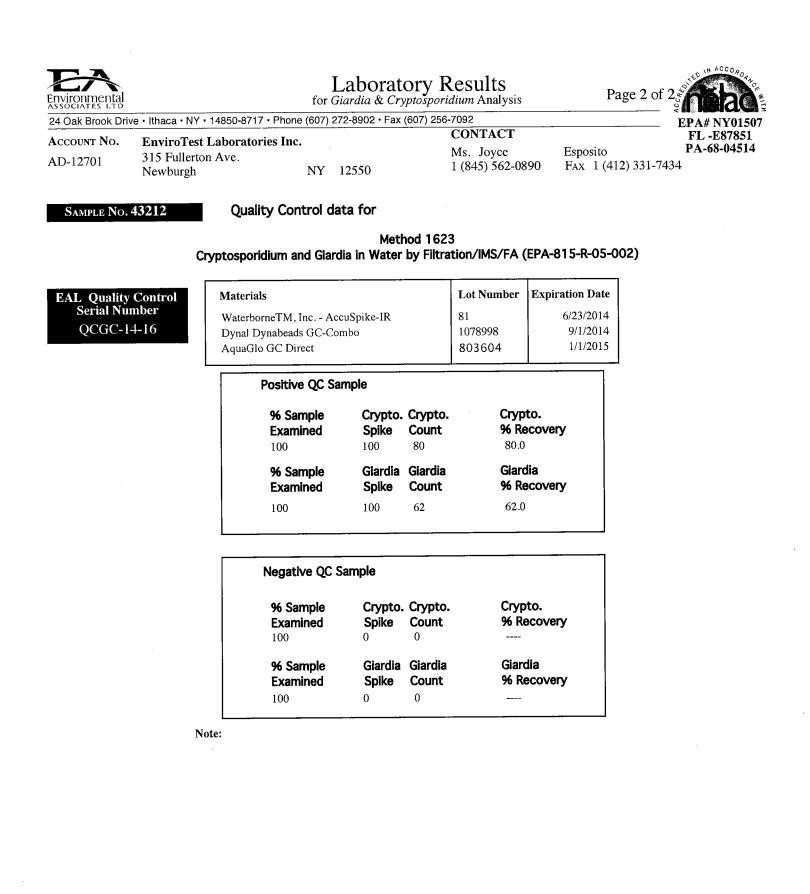
DETECTION LIMIT

PER 100L: <10.00

DETECTION LIMIT

< 0.100

PER 1L:



ENVIRONMENTAL ASSOCIATES LTD. Page 1 of 1 24 Oak Brook Drive, Ithaca, NY 14850 (607) 272-8902 Fax (607) 256-7092 F8785 **REPORT: MICROSCOPIC PARTICULATE ANALYSIS** Client: Joyce Esposito EnviroTest Laboratories Inc 315 Fullerton Ave Newburah NY 12550 FILTER ID: 43213 Station/Body of water: Well 31 **RECEIPT OF FILTER:** Date Received: 6/20/2014 # of filters: NA\_\_\_\_ Type: bulk sample Carrier: FedEx COLLECTION: 6/19/2014 10:00am Collector: L Antosh Date & Time Collected: na °F Turbidity: na Temperature: 6/20/2014 4:30 PM Ground Water (GW) Date & Time Processed: Water Type: 6/27/2014 Date Analyzed: FILTER PROCESSING Color of water around filter: N/A <u>0.01</u> ml Total volume of sediment: Clear Bulk Water 0.38 ml Filter color: Volume of sediment/100 gallons: Color of sediment: tan Phase equivalent gallon volume examined: 2.64 # gallons filtered: 2.641ANALYSIS OF PARTICULATES: key = (EH) - extremely heavy [>20/field @ 100X] (H) - heavy [10-20/field @ 100X] (R) - rare [<1-3/field @ 100X] (NF) - none found (M) -moderate [4-9/field @ 100X] PROTOZOANS **PARTICULATE DEBRIS** Quantity Description Quantity Description \_\_NF Other Coccidia EH\_ fine silt Large part. 5 µm & larger fine amorphous debris Other protozoans NF EΗ Small part. up to 5  $\mu$ m NF Plant debris ALGAE OTHER ORGANISMS Green Algae NF \_NE Nematodes NF Nematode eggs \_\_NF\_ Rotifers NF Diatoms NF Crustaceans NE Crustacean eggs Blue-Green Algae \_\_\_\_NF NF Insects NF Other Flagellated Algae \_\_\_\_NF\_\_ COMMENTS:

No biological materials were observed. Based upon microscopic particulate analysis and the proposed EPA risk factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk).

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample.

**REPORT REVIEWED BY:** 

Jusan Z. Bartros

June 30, 2014 DATE:

President & Lab Director

Environmental Associates Ltd. certifies that all quality control elements associated with the above data have been met except as may be noted in the comments section. Results relate only to the sample. Environmental Associates, Ltd. Based upon microscopic particulate analysis and the proposed EPA risk Page 2 of 2 COMMENTS: No biological materials were observed. Based upon microscopic particulate analysis and the proposed EPA r factors associated with bio-indicators there is a low risk of surface contamination (EPA risk factors= 0 low risk). REFERENCE: Consensus Method for Determining Groundwaters Under the Direct Influence of Surface Water Using Microscopic Particulate Analysis ≓L NELAP. Comments EnviroTest Laboratories Inc. Low Risk REPORT: MICROSCOPIC PARTICULATE ANALYSIS EPA 910/9-92-029 Relative Frequency Relative Risk Factor Utility Name ENVIRONMENTAL ASSOCIATES LTD. (MPA) US EPA Manchester Environmental Laboratory, EPA 910/9-92-029, October 1992. 24 Oak Brook Drive, Ithaca, NY 14850 EPA Relative Surface Water Risk Factors (607) 272-8902 Fax (607) 256-7092 עעשי DATE: June 30, 2014 President & Lab Director 0 0 0 0 0 0 **EPA Relative Risk** ШZ ЧZ ЦZ ЦZ ЦZ Well ID# Well 31 Juscu A. "Dutur #/100 gallon 0 0 0 0 0 0 0 0 0 0 0 EAL Sample ID: Dr. Susan Boutros 43213 Plant Debris (with chloro.) Non-photo. flag. & ciliates Photosynthetic flagellates Secondary Particulates Primary Particulates REPORT REVIEWED BY: Date: 6/19/2014 Insects/larvae Crustaceans Other Algae Vematodes Amoeba Diatoms Rotifers Other:

www.pacelabs.com

Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

July 03, 2014

Ron Bayer EnviroTest Laboratories Inc. 315 Fullerton Avenue Newburgh, NY 12550

RE: Project: LBG, Inc. 42001269 Pace Project No.: 35142778

Dear Ron Bayer:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bo Garcia bo.garcia@pacelabs.com Project Manager

Enclosures

cc: Debra Bayer, EnviroTest Laboratories Inc. Renee Cusack, EnviroTest Laboratories Inc. Joyce Esposito, EnviroTest Laboratories Inc. Janine Rader, EnviroTest Laboratories Inc. Meredith Ruthven, EnviroTest Laboratories Inc.



## REPORT OF LABORATORY ANALYSIS

ce Analytica www.pacelabs.com

Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

#### CERTIFICATIONS

Project: LBG, Inc. 42001269 Pace Project No.: 35142778

#### Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601 ACLASS DOD-ELAP Accreditation #: ADE-1544 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California/TNI Certification #: 04222CA Colorado Certification Connecticut Certification #: PH-0694 Delaware Certification Florida/TNI Certification #: E87683 Guam/PADEP Certification Hawaii/PADEP Certification Idaho Certification Illinois/PADEP Certification Indiana/PADEP Certification Iowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133 Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086 Maine Certification #: PA00091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification Missouri Certification #: 235

#### **Ormond Beach Certification IDs**

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Arizona Certification #: AZ0735 Colorado Certification: FL NELAC Reciprocity Connecticut Certification: FL NELAC Reciprocity Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Massachusetts Certification #: M-FL1264 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity

Montana Certification #: Cert 0082 Nebraska Certification #: NE-05-29-14 Nevada Certification New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Oregon/TNI Certification #: R420002 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 South Dakota Certification Tennessee Certification #: TN2867 Texas/TNI Certification #: T104704188 Utah/TNI Certification #: PA014572014-4 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin/PADEP Certification Wyoming Certification #: 8TMS-Q

Missouri Certification #: 236 Montana Certification: NE-OS-28-14 Nevada Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New Jersey Certification #: 1268 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 Pennsylvania Certification #: 12710 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification: FL N02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 Washington Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS



## SAMPLE SUMMARY

Project: Pace Project No	LBG, Inc. 42001269 .: 35142778			
Lab ID	Sample ID	Matrix	Date Collected	Date Received
35142778001	Well 31	Drinking Water	06/19/14 10:00	06/20/14 10:30

## REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

## SAMPLE ANALYTE COUNT

Project:LBG, Inc. 42001269Pace Project No.:35142778

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35142778001	Well 31	EPA 504.1	IRL	2	PASI-O
		EPA 508.1	JTJ	18	PASI-O
		EPA 515.3	LJM	8	PASI-O
		EPA 531.1	LAJ	9	PASI-O
		EPA 547	LAJ	1	PASI-O
		EPA 549.2	LAJ	1	PASI-O
		EPA 525.2	TWB	8	PASI-O
		EPA 548.1	EAO	1	PASI-O
		SM 7500Rn-B	FCC	1	PASI-PA
		EPA 900.0	FCC	2	PASI-PA
		EPA 903.1	SLA	1	PASI-PA
		EPA 904.0	JMR	1	PASI-PA
		EPA 908.0	LAL	1	PASI-PA

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

LBG, Inc. 42001269 Project: Pace I 778

e Project No.: 35	1427
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Sample: Well 31	Lab ID: 351427	78001 Collected	d: 06/19/14	4 10:00	Received: 06/	20/14 10:30 Ma	atrix: Drinking \	Nater
Parameters	Results Units	B PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
504.1 GCS EDB and DBCP	Analytical Method	: EPA 504.1 Prepa	ration Meth	nod: EP/	A 504.1			
1,2-Dibromo-3-chloropropane	<b>&lt;0.0050</b> ug/L	0.021	0.0050	1	06/23/14 12:30	06/23/14 22:16		
1,2-Dibromoethane (EDB)	<b>&lt;0.0064</b> ug/L	0.010	0.0064	1	06/23/14 12:30	06/23/14 22:16	106-93-4	
508.1 GCS Pesticides	Analytical Method	: EPA 508.1 Prepa	aration Meth	10d: EP	A 508.1			
Alachlor	<b>&lt;0.032</b> ug/L	0.19	0.032	1	06/23/14 09:30	06/23/14 21:33		
Atrazine	<b>&lt;0.020</b> ug/L	0.094	0.020	1	06/23/14 09:30	06/23/14 21:33		
gamma-BHC (Lindane)	<0.0028 ug/L	0.019	0.0028	1	06/23/14 09:30			
Butachlor	<b>&lt;0.014</b> ug/L	0.094	0.014	1	06/23/14 09:30	06/23/14 21:33	23184-66-9	
Chlordane (Technical)	<b>&lt;0.044</b> ug/L	0.19	0.044	1	06/23/14 09:30	06/23/14 21:33	57-74-9	
Dieldrin	<0.013 ug/L	0.094	0.013	1	06/23/14 09:30	06/23/14 21:33	60-57-1	
Endrin	<0.0019 ug/L	0.0094	0.0019	1	06/23/14 09:30			
Heptachlor	<0.0057 ug/L	0.038	0.0057	1	06/23/14 09:30	06/23/14 21:33	76-44-8	
Heptachlor epoxide	<0.0028 ug/L	0.019	0.0028	1	06/23/14 09:30			
Hexachlorobenzene	<0.010 ug/L	0.094	0.010	1	06/23/14 09:30		118-74-1	
	<0.010 ug/L	0.094	0.030	1	06/23/14 09:30			
Hexachlorocyclopentadiene	<0.030 ug/L	0.094	0.013	1	06/23/14 09:30			
Methoxychlor	•	0.094	0.010	1	06/23/14 09:30			
Metolachlor	<0.010 ug/L			1	06/23/14 09:30			
PCB, Total	<0.075 ug/L	0.094	0.075			06/23/14 21:33		
Propachlor	<0.0094 ug/L	0.094	0.0094	1	06/23/14 09:30			
Simazine	<b>&lt;0.042</b> ug/L	0.066	0.042	1	06/23/14 09:30	06/23/14 21:33		
Toxaphene	<b>&lt;0.57</b> ug/L	0.94	0.57	1	06/23/14 09:30	06/23/14 21:33	8001-35-2	
Surrogates						00/00/44 04:00	0054 04 0	
Decachlorobiphenyl (S)	118 %	70-130		1	06/23/14 09:30	06/23/14 21:33	2051-24-3	
515.3 Chlorinated Herbicides	Analytical Method	: EPA 515.3 Prepa	aration Met	hod: EP	A 515.3			
2,4-D	<b>&lt;0.081</b> ug/L	0.10	0.081	1	06/23/14 08:00	06/25/14 19:24	94-75-7	
Dalapon	<0.89 ug/L	1.0	0.89	1	06/23/14 08:00	06/25/14 19:24	75-99-0	
Dicamba	<0.067 ug/L	0.10	0.067	1	06/23/14 08:00	06/25/14 19:24	1918-00-9	
Dinoseb	<0.16 ug/L	0.20	0.16	1	06/23/14 08:00	06/25/14 19:24	88-85-7	
Pentachlorophenol	<0.030 ug/L	0.040	0.030	1	06/23/14 08:00	06/25/14 19:24	87-86-5	
Picloram	<0.094 ug/L	0.10	0.094	1	06/23/14 08:00	06/25/14 19:24	1918-02-1	
2,4,5-TP (Silvex)	<0.16 ug/L	0.20	0.16	1	06/23/14 08:00		93-72-1	
Surrogates	40.10 ug/L	0.20	0.10	•				
2,4-DCAA (S)	74 %	70-130		1	06/23/14 08:00	06/25/14 19:24	19719-28-9	
531.1 HPLC Carbamates	Analytical Method	I: EPA 531.1						
Aldicarb	<b>&lt;0.70</b> ug/L	2.0	0.70	1		06/23/14 22:44	116-06-3	
Aldicarb sulfone	<0.60 ug/L	2.0	0.60	1		06/23/14 22:44	1646-88-4	
Aldicarb sulfoxide	<0.67 ug/L	2.0	0.67	1		06/23/14 22:44	1646-87-3	
Carbofuran	<0.75 ug/L	2.0	0.75	1		06/23/14 22:44	1563-66-2	
3-Hydroxycarbofuran	<0.70 ug/∟ <0.51 ug/∟	2.0	0.51	1		06/23/14 22:44		
Methomyl	<0.57 ug/L	2.0	0.57	1		06/23/14 22:44		
	<0.47 ug/L	2.0	0.47	1		06/23/14 22:44		
Oxamyl	0	2.0	0.47	, 1		06/23/14 22:44		
Carbaryl	<0.28 ug/L	2.0	0.20	I		00/20/14 22.44	00-20-2	
Surrogates	07 0/	80-120		1		06/23/14 22:44	114-26-1	
Propoxur (S)	97 %	00-120		I		00120117 22.44	117 20-1	

## **REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: LBG, Inc. 42001269

Pace Project No.: 35142778

Sample: Well 31	Lab ID: 35142778001	Collected	d: 06/19/14	10:00	Received: 06/	20/14 10:30 Ma	atrix: Drinking V	Water
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
547 HPLC Glyphosate	Analytical Method: EPA	547						
Glyphosate	<b>&lt;5.4</b> ug/L	6.0	5.4	1		06/25/14 12:44		
549.2 HPLC Paraquat Diquat	Analytical Method: EPA	549.2 Prepa	ration Meth	od: EP	A 549.2			
Diquat	<b>&lt;0.15</b> ug/L	0.40	0.15	1	06/24/14 14:00	06/26/14 12:11	85-00-7	
525.2 Base Neutral Extractable	Analytical Method: EPA	525.2 Prepa	ration Meth	nod: EP	A 525.2			
Aldrin	<0.034 ug/L	0.094	0.034	1	06/23/14 09:30	06/24/14 23:22	309-00-2	
Benzo(a)pyrene	<0.018 ug/L	0.094	0.018	1	06/23/14 09:30	06/24/14 23:22	50-32-8	
bis(2-Ethylhexyl)adipate	<0.36 ug/L	1.5	0.36	1	06/23/14 09:30	06/24/14 23:22	103-23-1	
bis(2-Ethylhexyl)phthalate	<0.47 ug/L	1.9	0.47	1	06/23/14 09:30	06/24/14 23:22	117-81-7	
Metribuzin	<0.029 ug/L	0.28	0.029	1	06/23/14 09:30	06/24/14 23:22	21087-64-9	
Surrogates	_							
1,3-Dimethyl-2-nitrobenzene(S)	114 %	70-130		1	06/23/14 09:30	06/24/14 23:22		
Perylene-d12 (S)	87 %	70-130		1	06/23/14 09:30	06/24/14 23:22		
Triphenylphosphate (S)	100 %	70-130		1	06/23/14 09:30	06/24/14 23:22	115-86-6	
548.1 GCS Endothall	Analytical Method: EPA	548.1 Prepa	aration Meth	nod: EP	A 548.1			
Endothall	<b>&lt;4.1</b> ug/L	9.0	4.1	1	06/25/14 18:35	06/26/14 06:58		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: LBG, Inc. 42001: Pace Project No.: 35142778	269						
QC Batch: GCSV/11639		Analysis N	/lethod:	EPA 531.1			
QC Batch Method: EPA 531.1		Analysis [	escription:	531.1 HPLC C	arbamate		
Associated Lab Samples: 3514277	78001	-					
METHOD BLANK: 935263	<u></u>	Matr	ix: Water				
Associated Lab Samples: 3514277	8001						
		Blank	Reporting				
Parameter	Units	Result	Limit	Analyze	ed Qualifi	ers	
3-Hydroxycarbofuran	ug/L	<0.5	51 2	.0 06/23/14 1	3:51		
Aldicarb	ug/L	<0.7	70 2	.0 06/23/14 1	3:51		
Aldicarb sulfone	ug/L	<0.6	50 2	.0 06/23/14 1	3:51		
Aldicarb sulfoxide	ug/L	<0.6	67 2	.0 06/23/14 1			
Carbaryl	ug/L	<0.2		.0 06/23/14 1			
Carbofuran	ug/L	<0.7		0 06/23/14 1			
Methomyl	ug/L	<0.5		0 06/23/14 1			
Oxamyl	ug/L	<0.4		.0 06/23/14 1			
Propoxur (S)	%	8	30 80-1	20 06/23/14 1	3:51		
LABORATORY CONTROL SAMPLE:	935264						
		Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
3-Hydroxycarbofuran	ug/L	10	10.4	104	80-120		
Aldicarb	ug/L	10	11.9	119	80-120		
Aldicarb sulfone	ug/L	10	11.1	111	80-120		
Aldicarb sulfoxide	ug/L	10	10.8	108	80-120		
Carbaryl	ug/L	10	10.7	107	80-120		
Carbofuran	ug/L	10	10.9	109	80-120		
Methomyl	ug/L	10	10.6	106	80-120		
Oxamyl	ug/L	10	10.9	109	80-120		
Propoxur (S)	%			102	80-120		

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93526	5		935266							
Parameter	35 Units	142580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
3-Hydroxycarbofuran	ug/L	0.51U	10	10	10.4	10.2	104	102	80-120	1	20	
Aldicarb	ug/L	0.70U	10	10	12.0	10.8	120	108	80-120	10	20	
Aldicarb sulfone	ug/L	0.60U	10	10	11.5	11.4	115	114	80-120	1	20	
Aldicarb sulfoxide	ug/L	0.67U	10	10	10	9.6	100	96	80-120	3	20	
Carbaryl	ug/L	0.28U	10	10	11.2	10.2	112	102	80-120	9	20	
Carbofuran	ug/L	0.75U	10	10	11.0	9.3	110	93	80-120	17	20	
Methomyl	ug/L	0.57U	10	10	9.7	9.1	97	91	80-120	6	20	
Oxamyl	ug/L	0.47U	10	10	10.4	10	104	100	80-120	4	20	
Propoxur (S)	%						104	96	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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Project:	LBG, Inc. 4200	1269											
Pace Project No.:	35142778												
QC Batch:	GCSV/11656		,	Analys	is Method:	E	PA 547						
QC Batch Method:	EPA 547			Analys	is Descript	ion: 54	47 HPLC Gly	yphosate					
Associated Lab San	nples: 35142	778001											
METHOD BLANK:	936139			N	latrix: Wat	er							
Associated Lab San	nples: 35142	778001											
				Blank		eporting							
Paran	neter		Units	Result	t 	Limit	Analyz	ed	Qualifiers	_			
Glyphosate		ug/L			<5.4	6.0	06/25/14	11:50					
LABORATORY COI	NTROL SAMPL	E: 9361	40										
				Spike	LCS	;	LCS	% Rec					
Parar	neter		Units	Conc.	Resu	lt	% Rec	Limits	QL	ualifiers			
Glyphosate		ug/L		50		49.0	98	80	-120				
MATRIX SPIKE & M	ATRIX SPIKE I	DUPLICAT	E: 93614			936142							
				MS	MSD								
			205334001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	0
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Glyphosate		ıg/L	ND	50	50	50.9	52.7	102	105	80-120	4	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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Project: LBG, Inc. 42 Pace Project No.: 35142778	2001269											
QC Batch: OEXT/177	99	,	is Method:		PA 504.1							
QC Batch Method: EPA 504.1	10770001	Analysi	is Descripti	on: 50	4 EDB D	BCh						
Associated Lab Samples: 351	42778001						<u> </u>					
METHOD BLANK: 935286		N	latrix: Wate	er								
Associated Lab Samples: 351	42778001											
Parameter	Units	Blank Result		eporting Limit	Anal	yzed	Qualifi	ers				
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane (EDB)	ug/L ug/L		0049 0062	0.020 0.010		4 18:45 4 18:45						
LABORATORY CONTROL SAM	PLE & LCSD: 935287		-	35288								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD		lax PD	Qua	lifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.24	0.30	96	121	70-130	2	3	40		
1,2-Dibromoethane (EDB)	ug/L	.25	0.31	0.31	124	123	70-130		5	40		
MATRIX SPIKE & MATRIX SPIK	E DUPLICATE: 93528	9 MS	MSD	935290		<u> </u>						
	92206096006	Spike	Spike	MS	MSD	MS	s MSI	D %	Rec		Мах	
Parameter	Units Result	Conc.	Conc.	Result	Result	% R	ec % Re	ec Li	mits	RPD	RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L ND	.44	.44	0.42	0.3		97		5-135	18	40	
1,2-Dibromoethane (EDB)	ug/L ND	.44	.44	0.52	0.4	9	120	113 6	5-135	6	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

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EPA 508.1 508 GCS Pesticide

Project:LBG, Inc. 42001269Pace Project No.:35142778QC Batch:OEXT/17790QC Batch Method:EPA 508.1

Associated Lab Samples: 35142778001

METHOD BLANK: 933816

Matrix: Water

Analysis Method:

Analysis Description:

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
lachlor	ug/L	<0.034	0.20	06/23/14 19:00	
trazine	ug/L	<0.021	0.10	06/23/14 19:00	
Butachlor	ug/L	<0.015	0.10	06/23/14 19:00	
Chlordane (Technical)	ug/L	<0.047	0.20	06/23/14 19:00	
Dieldrin	ug/L	<0.014	0.10	06/23/14 19:00	
Indrin	ug/L	<0.0020	0.010	06/23/14 19:00	
amma-BHC (Lindane)	ug/L	<0.0030	0.020	06/23/14 19:00	
leptachlor	ug/L	<0.0060	0.040	06/23/14 19:00	
leptachlor epoxide	ug/L	<0.0030	0.020	06/23/14 19:00	
lexachlorobenzene	ug/L	<0.011	0.10	06/23/14 19:00	
lexachlorocyclopentadiene	ug/L	<0.032	0.10	06/23/14 19:00	
1ethoxychlor	ug/L	<0.014	0.10	06/23/14 19:00	
1etolachlor	ug/L	<0.011	0.10	06/23/14 19:00	
PCB, Total	ug/L	<0.080	0.10	06/23/14 19:00	
Propachlor	ug/L	<0.010	0.10	06/23/14 19:00	
Simazine	ug/L	<0.044	0.070	06/23/14 19:00	
oxaphene	ug/L	<0.61	1.0	06/23/14 19:00	
ecachlorobiphenyl (S)	%	91	70-130	06/23/14 19:00	

#### LABORATORY CONTROL SAMPLE: 933817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alachlor	ug/L	<u> </u>	1.1	113	70-130	
Atrazine	ug/L	1.2	1.3	105	70-130	
Butachlor	ug/L	.5	0.56	113	70-130	
Dieldrin	ug/L	.5	0.59	118	70-130	
Endrin	ug/L	.05	0.061	122	70-130	
gamma-BHC (Lindane)	ug/L	.1	0.11	111	70-130	
Heptachlor	ug/L	.2	0.22	108	70-130	
Heptachlor epoxide	ug/L	.1	0.11	111	70-130	
Hexachlorobenzene	ug/L	.5	0.51	101	70-130	
Hexachlorocyclopentadiene	ug/L	.5	0.39	79	70-130	
Methoxychlor	ug/L	.5	0.58	115	70-130	
Metolachlor	ug/L	.5	0.53	107	70-130	
Propachlor	ug/L	.5	0.53	106	70-130	
Simazine	ug/L	.88	0.76	87	70-130	
Decachlorobiphenyl (S)	%			100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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Project: LBG, Inc. 42001269 Pace Project No.: 35142778

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 93525	0		935251							
			MS	MSD								
	35	42925001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Alachlor	ug/L	0.032U	2	2	2.3	2.2	113	111	70-130	2	40	
Atrazine	ug/L	0.020U	2.5	2.5	2.4	2.4	95	97	70-130	3	40	
Butachlor	ug/L	0.014U	1	1	1.1	1.1	110	110	70-130	.03	40	
Dieldrin	ug/L	0.013U	1	1	1.2	1.2	120	117	70-130	2	40	
Endrin	ug/L	0.0019 U	.1	.1	0.13	0.12	128	120	70-130	6	40	
gamma-BHC (Lindane)	ug/L	0.0029 U	.2	.2	0.21	0.21	107	104	70-130	3	40	
Heptachlor	ug/L	0.0057 U	.4	.4	0.44	0.43	111	107	70-130	3	40	
Heptachlor epoxide	ug/L	0.0029 U	.2	.2	0.21	0.22	104	112	70-130	7	40	
Hexachlorobenzene	ug/L	0.010U	1	1	1.0	1.0	102	100	70-130	2	40	
Hexachlorocyclopentadiene	ug/L	0.030U	1	1	1.1	1.0	110	105	70-130	5	40	
Methoxychlor	ug/L	0.013U	1	1	1.2	1.2	124	125	70-130	1	40	
Metolachlor	ug/L	0.010U	1	1	0.96	1.1	96	105	70-130	10	40	
Propachlor	ug/L	0.0095 U	1	1	1.1	1.1	109	107	70-130	1	40	
Simazine	ug/L	0.042U	1.8	1.8	1.6	1.5	94	88	70-130	6	40	
Decachlorobiphenyl (S)	%						96	92	70-130	I	40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Pentachlorophenol

Picloram

2,4-DCAA (S)

## QUALITY CONTROL DATA

Project:	LBG, Inc. 42001269						
Pace Project No.:	35142778						
QC Batch:	OEXT/17798	-	Analysis Meth	nod: E	PA 515.3	<u>-</u>	
QC Batch Method:	EPA 515.3		Analysis Dese	cription: 5	153 GCS Herbicides		
Associated Lab Sa	nples: 35142778001						
METHOD BLANK:	935252		Matrix:	Water			
Associated Lab Sa	nples: 35142778001						
			Blank	Reporting			
Para	neter	Units	Result	Limit	Analyzed	Qualifiers	
2,4,5-TP (Silvex)	ug/L		<0.16	0.20	06/25/14 15:14		
2,4-D	ug/L		<0.081	0.10	06/25/14 15:14		
Dalapon	ug/L		<0.89	1.0	06/25/14 15:14		
Dicamba	ug/L		<0.067	0.10	06/25/14 15:14		
Dinoseb	ug/L		<0.16	0.20	06/25/14 15:14		

0.040 06/25/14 15:14

0.10 06/25/14 15:14

70-130 06/25/14 15:14

LABORATORY CONTROL SAMPLE:	935253	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
2,4,5-TP (Silvex)	ug/L	1	0.94	94	70-130	
2,4-D	ug/L	.5	0.38	76	70-130	
Dalapon	ug/L	5	5.1	103	70-130	
Dicamba	ug/L	.5	0.53	107	70-130	
Dinoseb	ug/L	1	0.92	92	70-130	
Pentachlorophenol	ug/L	.2	0.20	98	70-130	
Picloram	ug/L	.5	0.46	93	70-130	
2,4-DCAA (S)	%			84	70-130	

<0.030

<0.094

83

ug/L

ug/L

%

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93525	4		935255							
Parameter	35 <sup>.</sup> Units	142863001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.82	0.92	82	92	70-130	11	40	
2.4-D	ug/L	0.081U	5	.5	0.53	0.56	106	113	70-130	6	40	
Dalapon	ug/L	45.3	5	5	44.6	46.4	-15	21	70-130	4	40	M1
Dicamba	ug/L	0.067U	.5	.5	0.56	0.61	111	122	70-130	10	40	
Dinoseb	ug/L	0.16U	1	1	0.91	1.0	91	102	70-130	12	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	0.16	0.18	80	90	70-130	12	40	
Picloram	ug/L	0.094U	.5	.5	0.59	0.60	118	120	70-130	1	40	
2,4-DCAA (S)	%						82	86	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

Date: 07/03/2014 02:50 PM

<sup>y</sup>ace Analytical www.pacelabs.com

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## QUALITY CONTROL DATA

Project: LBG, Inc. 42001269 Pace Project No.: 35142778

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 93525			935257							
Parameter	35 Units	142926004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	ug/L	0.16U	1	1	0.87	0.90	87	90	70-130	3	40	
2,4-D	ug/L	0.081U	.5	.5	0.43	0.40	86	80	70-130	8	40	
Dalapon	ug/L	0.89U	5	5	4.6	4.7	92	94	70-130	2	40	
Dicamba	ug/L	0.067U	.5	.5	0.48	0.49	96	99	70-130	3	40	
Dinoseb	ug/L	0.16U	1	1	1.0	1.1	101	106	70-130	5	40	
Pentachlorophenol	ug/L	0.030U	.2	.2	0.19	0.20	95	98	70-130	4	40	
Picloram	ug/L	0.094U	.5	.5	0.47	0.44	95	88	70-130	7	40	
2,4-DCAA (S)	%						75	68	70-130			S0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project: LBG, Inc. 42 Pace Project No.: 35142778	2001269				
QC Batch: OEXT/177	91	Analysis Met	hod: EF	PA 525.2	
QC Batch Method: EPA 525.2		Analysis Des	cription: 52	25.2 Base Neutral E	Extractables
Associated Lab Samples: 351	42778001				
METHOD BLANK: 933819 Associated Lab Samples: 351	42778001	Matrix:	Water		
Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aldrin	ug/L	< 0.036	0.10	06/24/14 19:58	
Benzo(a)pyrene	ug/L	<0.019	0.10	06/24/14 19:58	
bis(2-Ethylhexyl)adipate	ug/L	<0.38	1.6	06/24/14 19:58	
bis(2-Ethylhexyl)phthalate	ug/L	<0.50	2.0	06/24/14 19:58	
Metribuzin	ug/L	<0.031	0.30	06/24/14 19:58	
1,3-Dimethyl-2-nitrobenzene(S)	%	117	70-130	06/24/14 19:58	
Pervlene-d12 (S)	%	91	70-130	06/24/14 19:58	
Triphenylphosphate (S)	%	100	70-130	06/24/14 19:58	

LABORATORY CONTROL SAMPLE:	933820	Caika	LCS	LCS	% Rec	
Parameter	Units	Spike Conc.	Result	% Rec	Limits	Qualifiers
Aldrin	ug/L	.4	0.37	94	70-130	
Benzo(a)pyrene	ug/L	.4	0.35	86	70-130	
bis(2-Ethylhexyl)adipate	ug/L	6.4	5.7	89	70-130	
bis(2-Ethylhexyl)phthalate	ug/L	8	7.1	89	70-130	
Metribuzin	ug/L	1.2	1.4	116	70-130	
1,3-Dimethyl-2-nitrobenzene(S)	%			108	70-130	
Perylene-d12 (S)	%			94	70-130	
Triphenylphosphate (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SP	PIKE DUPLICAT	E: 93524	8		935249							
Parameter	35 <sup>.</sup> Units	142526001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	0.035U	.8	.8	0.16J	0.15J	20	19	70-130		40	M1
Benzo(a)pyrene	ug/L	0.018U	.8	.8	0.090J	0.11J	11	14	70-130		40	M1
bis(2-Ethylhexyl)adipate	ug/L	0.37U	12.8	12.8	12.1	12.0	95	94	70-130	.8	40	
bis(2-Ethylhexyl)phthalate	ug/L	0.48U	16	16	15.3	15.4	95	96	70-130	.9	40	
Metribuzin	ug/L	0.030U	2.4	2.4	2.6	2.7	109	114	70-130	4	40	
1,3-Dimethyl-2- nitrobenzene(S)	%						106	110	70-130			
Perylene-d12 (S)	%						46	52	70-130			S0
Triphenylphosphate (S)	%						102	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project: Pace Project No.:	LBG, Inc. 42001 35142778	269											
QC Batch:	OEXT/17819			Analys	is Method:	E	PA 548.1			-			
QC Batch Method:	EPA 548.1			Analys	is Descript	ion: 5	48 GCS End	lothall					
Associated Lab San	nples: 3514277	8001											
METHOD BLANK:	936552			N	1atrix: Wat	ter							
Associated Lab Sar	nples: 3514277	8001											
				Blank	R	eporting							
Paran	neter		Units	Result	t	Limit	Analyz	ed	Qualifiers				
Endothall		ug/L			<4.1	9.0	06/25/14	09:12					
LABORATORY CO	NTROL SAMPLE:	93655	3				LCS	 % Rec					
Parar	neter		Units	Spike Conc.	LCS Resu		% Rec	Limits		alifiers			
Endothall		ug/L		50		43.0	86	80	-120		-		
MATRIX SPIKE & M	IATRIX SPIKE DU	JPLICATE	E: 936784	4 MS	MSD	936785					·		
		351	42863001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD		Qual
Endothall	ug	/L	4.1U	50	50	26.5	25.9	53	52	80-120	2	40	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**



Project: Pace Project No.:	LBG, Inc. 42001 35142778	269											
QC Batch:	OEXT/17814			Analys	sis Method		PA 549.2						
QC Batch Method:	EPA 549.2			-	sis Descrip		49 HPLC Pa	araquat Diqu	uat				
Associated Lab Sar	nples: 3514277	78001											
METHOD BLANK:	935690			 	Matrix: Wa	ter							·····
Associated Lab Sar	nples: 3514277	78001											
				Blanl	K R	eporting							
Parar	neter		Units	Resu	lt	Limit	Analyz	ed	Qualifiers				
Diquat		ug/L			<0.15	0.40	06/26/14	12:02					
LABORATORY CO	NTROL SAMPLE:	93569	91										
P			1.1-14-	Spike	LCS Resu		LCS % Rec	% Rec Limits		ualifiers			
Parar			Units	Conc.			·				-		
Diquat		ug/L		2	2	1.7	85	80	-120				
MATRIX SPIKE & M			E: 93602	8		936029							
			L. 0000L	MS	MSD								
		351	142863001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parame	ter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
	ug		0.15U	2	2	3.1	3.0	154	148	80-120	3		 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### ANALYTICAL RESULTS

Project:LBG, Inc. 42001269Pace Project No.:35142778

Sample: Well 31 PWS:	Lab ID: 35142 Site ID:	2778001 Collected: 06/19/14 10: Sample Type:	00 Received:	06/20/14 10:30	Matrix: Drinking	Water
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radon	SM 7500Rn-B	1,804 ± 93.9 (67.6) C:NA T:NA	pCi/L	06/23/14 17:29	10043-92-2	
Gross Alpha	EPA 900.0	2.30U ± 1.12 (2.30) C:NA T:NA	pCi/L	06/30/14 07:21	12587-46-1	
Gross Beta	EPA 900.0	2.40 ± 1.03 (1.78) C:NA T:NA	pCi/L	06/30/14 07:21	12587-47-2	
Radium-226	EPA 903.1	0.896U ± 0.625 (0.896) C:NA T:83%	pCi/L	06/30/14 14:16	13982-63-3	
Radium-228	EPA 904.0	0.727U ± 0.372 (0.727) C:71% T:90%	pCi/L	06/30/14 15:19	15262-20-1	
Total Uranium	EPA 908.0	0.656 ± 0.166 (0.197) C:NA T:92%	pCi/L	06/27/14 20:34	7440-61-1	

### REPORT OF LABORATORY ANALYSIS

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#### QUALITY CONTROL DATA

Project:	LBG, Inc. 420012	269				
Pace Project No.:	35142778					
QC Batch:	RADC/20299		Analysis Method:	EPA 908.0		
QC Batch Method:	EPA 908.0		Analysis Description:	908.0 Total	Uranium	
Associated Lab Sa	mples: 3514277	8001				
METHOD BLANK:	748664		Matrix: Water			
Associated Lab Sa	imples:					
	imples: imeter	Act ± U	nc (MDC) Carr Trac	Units	Analyzed	Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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Project:	LBG, Inc. 4200126	9				
Pace Project No.:	35142778					
QC Batch:	RADC/20259	Analysis Method:	SM 7500Rn	-B		
QC Batch Method	: SM 7500Rn-B	Analysis Description	n: 7500Rn B R	Radon		
Associated Lab Sa	amples: 35142778	001				
METHOD BLANK	747193	Matrix: Water		• •		
Associated Lab Sa	amples:					
Para	ameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radon		-1.0 ± 17.6 (30.9) C:NA T:NA	pCi/L	06/23/14 15:59		

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#### **REPORT OF LABORATORY ANALYSIS**

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Project:	LBG, Inc. 42001	269					
Pace Project No.:	35142778						
QC Batch:	RADC/20290		Analysis Method:	EPA 903.1			······
QC Batch Method:	EPA 903.1		Analysis Description	on: 903.1 Rad	lium-226		
Associated Lab Sa	amples: 3514277	8001					
METHOD BLANK:	748655		Matrix: Wate	r	n- <u>+-</u> -:		
Associated Lab Sa	imples:						
Para	ameter	Act ± Un	c (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Radium-226		$-0.332 \pm 0.442$ (	0.921) C:NA T:96%	pCi/L	06/30/14 13:36		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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Project:	LBG, Inc. 42001	269			
Pace Project No.:	35142778				
QC Batch:	RADC/20292	Analysis Method	d: EPA 904.0	· · · · ·	
QC Batch Method:	EPA 904.0	Analysis Descri	ption: 904.0 Radiu	um 228	
Associated Lab Sar	mples: 3514277	78001			
METHOD BLANK:	748657	Matrix: W	ater	<u> </u>	
Associated Lab Sa	mples:				
Para	meter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.355 ± 0.371 (0.767) C:68% T:90%	pCi/L	06/30/14 15:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALITY CONTROL DATA

Project:	LBG, Inc. 420012	69			
Pace Project No.:	35142778	,			
QC Batch:	RADC/20297	Analysis Metho	od: EPA 900.	0	
QC Batch Method:	EPA 900.0	Analysis Desci	ription: 900.0 Gr	oss Alpha/Beta	
Associated Lab Sa	mples: 35142778	8001			
METHOD BLANK:	748662	Matrix: V	Vater		
Associated Lab Sa	mples:				
Para	meter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	· · · · · · · · · · · · · · · · · · ·	-0.127 ± 0.535 (1.61) C:NA T:NA	pCi/L	06/30/14 07:22	
Gross Beta		0.375 ± 0.764 (1.77) C:NA T:NA	pCi/L	06/30/14 07:22	

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#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

Project: LBG, Inc. 42001269 Pace Project No.: 35142778

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-PA Pace Analytical Services - Greensburg

#### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

#### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:LBG, Inc. 42001269Pace Project No.:35142778

Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
Well 31	EPA 504.1	OEXT/17799	EPA 504.1	GCSV/11641
Well 31	EPA 508.1	OEXT/17790	EPA 508.1	GCSV/11643
Well 31	EPA 515.3	OEXT/17798	EPA 515.3	GCSV/11644
Well 31	EPA 531.1	GCSV/11639		
Well 31	EPA 547	GCSV/11656		
Well 31	EPA 549.2	OEXT/17814	EPA 549.2	GCSV/11670
Well 31	EPA 525.2	OEXT/17791	EPA 525.2	MSSV/6363
Well 31	EPA 548.1	OEXT/17819	EPA 548.1	MSSV/6365
Well 31	SM 7500Rn-B	RADC/20259		
Well 31	EPA 900.0	RADC/20297		
Well 31	EPA 903.1	RADC/20290		
Well 31	EPA 904.0	RADC/20292		
Well 31	EPA 908.0	RADC/20299		
	Well 31 Well 31	Well 31         EPA 504.1           Well 31         EPA 508.1           Well 31         EPA 515.3           Well 31         EPA 531.1           Well 31         EPA 547           Well 31         EPA 549.2           Well 31         EPA 525.2           Well 31         EPA 548.1           Well 31         SM 7500Rn-B           Well 31         EPA 900.0           Well 31         EPA 900.0           Well 31         EPA 904.0	Well 31         EPA 504.1         OEXT/17799           Well 31         EPA 508.1         OEXT/17790           Well 31         EPA 515.3         OEXT/17798           Well 31         EPA 531.1         GCSV/11639           Well 31         EPA 547         GCSV/11656           Well 31         EPA 549.2         OEXT/17791           Well 31         EPA 548.1         OEXT/17814           Well 31         EPA 548.1         OEXT/17819           Well 31         EPA 548.1         OEXT/17819           Well 31         EPA 900.0         RADC/20259           Well 31         EPA 900.0         RADC/20297           Well 31         EPA 904.0         RADC/20290	Vell 31         EPA 504.1         OEXT/17799         EPA 504.1           Well 31         EPA 508.1         OEXT/17790         EPA 508.1           Well 31         EPA 515.3         OEXT/17798         EPA 515.3           Well 31         EPA 531.1         GCSV/11639         EPA 549.2           Well 31         EPA 549.2         OEXT/17791         EPA 549.2           Well 31         EPA 525.2         OEXT/17814         EPA 548.1           Well 31         EPA 548.1         OEXT/17819         EPA 548.1           Well 31         EPA 500.0         RADC/20259         Well 31           Well 31         EPA 900.0         RADC/20297         Well 31           Well 31         EPA 903.1         RADC/20290         EPA 904.0

### REPORT OF LABORATORY ANALYSIS

EnviroTest Laboratories, Inc. 315 Fullerton Avenue Newburgh, NY 12550 Phone (845) 552-0890 Fax (845) 552-0841			Chain c	Chain of Custody Record	ord		EnviroTest Laboratories Inc.
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	Sa Sa Sa Sa	G	ple Matrix e (w-water, a-solid, imp, o-water/oil,	айай (Fillered) виболи (Killered) вивсоитка алтоотата алтоотата алтоотата алтоотата	AATKOOBUE AATKOOBUE AATKOOBUE AATKOOBUE	AATNOOBU2 AATNOOBU2	Number 100 Special Instructions/Note:
Sample Identification Client ID (Lab ID)			Thesenvation Code		123 23 23 23	という	には、
	6/19/14 1	10:00	Water		x x x × ×	x x	18
		-					No.
					351427	778	
				35142778			
Possible Hazard Identification	Poison B	n 🗌 Radiological	logical	Sample Disposal ( A fe	e may be assessed if sam Disposal By Lab	d if samples are By Lab	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Months
ested: 1, 11, 11f, 1V, Other (specify)				Special Instructions/QC Requirements	Requirements:		
Empty Kit Relinquished by:	Date:	e:		Time:	Ma	Mathod of Shipmont	
Remission by	2 14	1630	Compare	Roceived by:	) )	Date/Time	0/19 (030
Reiniquicipad by:	Date/Time:		Company	Roceived by.		Date/Time:	S. y ~ T / lest company
00 Relinquished by:	Date/Time.		Company	Rocalved by:	-	Date/Timo:	Сотралу
o Custody Seals Intact: Custody Seal No.:				Coolor Temperatura(s) *C and Othor Remarks:	c and Othor Remarks:		
A 165							

	nental ES LTD thaca, NY 14850 • (60'	EAL MPA S and Chai	ample II in of Cus	) Sheet tody	while space to the r service@eal-labs.com	-	
Client	nformation Address:				Address:		
	e, Brashears	& Graham,	Inc.	in the second	lest Laborate	ories Inc.	
Contact Perso	stacy	Stiebe	<u>r</u>	Contact Perso MS.	Debbie	Ba	yer
Street Address 4 Resea	rch Drive, S	uite 301		Street Address 315 Ful	lerton Ave.		
	Shelton		484	City No Phone	ewburgh	State Zip	12550
Phone 113-43	9-8555	1 203 926-9	140	1 (845	5) 562-0890		
Payment M	lethod with EAL OElec	tronic Check (AC			se Order #	OCash	
	Information		y Data i 51		Area) US / 1	erial Number on Fi	lier≠
	Meter Read	ing ,		r no or men			
	Start: 6/	<u>19/14  </u> m	/002 ime	) 		Meter Reading	gal.
Optional . Data •	Water Temp. :	°C	Conductiv		mS/cm		
	Water pH : Turbidity:	pH NTU	Total CI F Cl Free:	tesidual:	mg/L mg/L		
	Stop:	N/A	īme			_ * 1 0 ¢	s 2 7 ★ gal.
Optional , Data •	Water Temp. :	°C	Conductiv	ity Start:	mS/cm		
	Water pH :	pH NTU	Total Cl F Cl Free:	tesidual:	mg/L mg/L		
	Turbidity:			iber gal (1 Gallon	lons filtered: = 3.785 Liters)		
	ng Sample (Please Print t Day Shipping Service		_	Collector's S	ingiture Next Day S	hipping Number	
	UPS DHL DOL ted Processi		*			an a	
	Veekend Receipt Veekend Receipt &	O4 Processing O3	8 Hour O Day Fee	lephone Resul Yes ONC & Result	Fax#	<b></b>	
* Pie	14 Hour ease note extra fees are a lab must be notified by	added for expedited pr	ocessing times,	Yes ON in order to in		<u> </u>	
I I	icreby agree to pay the	extra charges associat	ed with Expedit			Signa	
Reinquished by:		Diste Diste		Reanguished by: Received for Envi	warmental Associates LNd. by	Date : Date	Time Tene
	& Tracking Number			Gonvnenta:			<u> </u>

Utility Information	and Chain of C Shipping In		For La	b	
PWS name:	Lab name:	7-272-8902	Date re	ceived:	
Leggette, Brashears &	Environmental As		. Time re	ceived:	
<b>Graham, Inc.</b> PWS address:	Lab address:			ad bu:	
4 Research Drive, Suite	24 Oak Brook Dr., Ith	aca, NY 14850	Receive	su by.	
301	Next Day Shipping Se		Sample on rece	temperature	
Shelton CT 06484	Fed Ex DF	IL. her	1		
Ph: A-03-929-8555	(Please mark with X)		Sample conditio		
Sampler name: Stacy Sticber	Date shipped: Tracking number:		on rece		
Sample Identification Information	(the combination of I	bolded items a	are used to lo		L
			Billing Info	D. Purchase Order #	
			EnviroTe	st Laboratories Inc.	
			Ms. Deb	bie Bayer	
			315 Fulle	rton Ave.	
Sample collection point ID:	Silo Ridge In	XU 31	Newburg	h NY 12550	
Sample collection point name:	Wal 31	Ph: 1 (845) 562-0890			
Sample collection date: (Mark with X)	6/19/14				
Source water type <sup>a</sup> (circle one):	✓ ☐ Élowing stre ☐ GWUDI (b)	am (FS) □ - FS □	Reservoir/ GWUDI (b	lake (RL) ) - RL	
	Cryptospori	dium field sa	mole ME	. coli	
EPA 1623 Envirocheck HV G8		dium matrix	spike		
	Sample Collect	lion Informatio	סה		
Cryptosporidit	ım			E. coli	
Initial meter reading (Gallons) (field-filtered samples only):		Sample colle	ection time:	14013	
Final meter reading (Gallons) (field-filtered samples only):		Turbidity (N	TU):		
Sample collection time (or start time, if field filtering): /0	67)	Total Vol. C	ollected		
Sample collection stop time (field-filtered samples only):		Filter Serial	Number	* 10 6 2 8 *	
		NY 8672 ≥7. <del>-</del> 1.29. 3. 1987	<b>_</b>		Alinit
Source water temperature:					
Source water temperature: Additional comments:	- D				
	AR -	<u></u>	angan ang ang ang ang ang ang ang ang an	Date:	

	Pace Analytical	Uccument Name Sample Condition Upon Re Document No. F-FL-C-007 rev, 0	ceipt Form	Document Revised: October 9, 2013 Issuing Aŭthofites: Pace Fiorida Quality Office	_
	Samp	ble Condition Upon Recei	pt Form (SCUR)	Table Number.	·
		Client Name: From		Project # 35142718	
	Tracking #			Olher	
		asent: 🗌 yes 🖗 no Seal rap 🎯 Bubble Bags 🗌 None		Date and Initials of person examining contents:	
	Thermometer Used <u>TIV</u>	05 Type of Ice: We	D Blue None	1030	
	Cooler Temperature®C	(Visual) <u>-O (</u> Correction	Factor) 5.4	(Temp should be above freezing to 6°C). If bot _(Actual) sample frozen? Yes □No	ow 0°C, then was
	Receipt of samples satisfacto	rv: ØYes Olio		Rush TAT requested on COC:	
	If yes, then all conditions below		If no then mark bo	x & describe issue (use comments area if neces	sary):
	Chain of Custody Present				
	Chain of Custody Filled Out		0		
	Relinquished Signature & Sampler Samples Arrived within Hold Time	Name COC			
			0		
	Sufficient Volume		0		
	Correct Containers Used				
	Containers Intact				
	Sample Labels match COC (sample	e IDs & date/time of collection)	No Labels:	to Time/Date on Labels:	
	All containers needing preservation are compliance with EPA recommendation.	· · · · · · · · · · · · · · · · · · ·			
Í	No Headspace in VOA Vials (>6mn	n):	D		
	Client Notification/ Resolution:	0.14			
	Person Contacted: Comments/ Resolution (use back for		Time:	<u> </u>	
-	Commenda resolution (use back to				
-		La an			
	n an			1	
				/	
			//_		· · · · · · · · · · · · · · · · · · ·
	Project Manager Review:			Date: 17114	
ľ		Finished Product In	formation Only		
F	P. Sample (D:			ize & Qty of Bottles Received	
Pi	roduction Code:	<u></u>	÷	x 5 Gal x 2.5 Gal	
Di	ste/Time Opened:			x 1 Gal x 1 Liter	_
Nı	mber of Unopened Bottles Rema	ining:	 	x 500 mL x 250 mL x Olher:	Page 28 of 34



www.pacelabs.com

## **Report Prepared for:**

Client Services PASI Florida 8 East Tower Circle Ormond Beach FL 32174

# REPORT OF LABORATORY ANALYSIS FOR 2,3,7,8-TCDD

#### **Report Summary:**

**Report Prepared Date:** July 3, 2014

Pace Analytical Services, Inc. 1700 Elm Street Minneapolis, MN 55414 Phone: 612.607.1700 Fax: 612.607.6444

## **Report Information:**

Pace Project #: 10271856 Sample Receipt Date: 06/24/2014 Client Project #: 35142778 Client Sub PO #: N/A State Cert #: E87605

#### **Invoicing & Reporting Options:**

The report provided has been invoiced as a Level 2 Drinking Water Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Nate Boberg, your Pace Project Manager.

#### This report has been reviewed by:

July 03, 2014 Nate Boberg, Project Manager

(612) 607-6444 (fax) nate.boberg@pacelabs.com



## **Report of Laboratory Analysis**

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The results relate only to the samples included in this report.

Page 29 of 34

Pace Analytical<sup>™</sup>

Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607-6444

## Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota	027-053-137
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE	MN002
Colorado	MN00064	New York (NEL	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Puerto Rico	MN00064
Indiana	C-MN-01	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
lowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia	9952C
Maryland	322	Wisconsin	999407970
Michigan	9909	Wyoming	8TMS-Q

## **REPORT OF LABORATORY ANALYSIS**

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Report No.....10271856\_1613DW

Pace Analytical

Pace Analytical Services, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

> Tel: 612-607-1700 Fax: 612- 607<u>-6444</u>

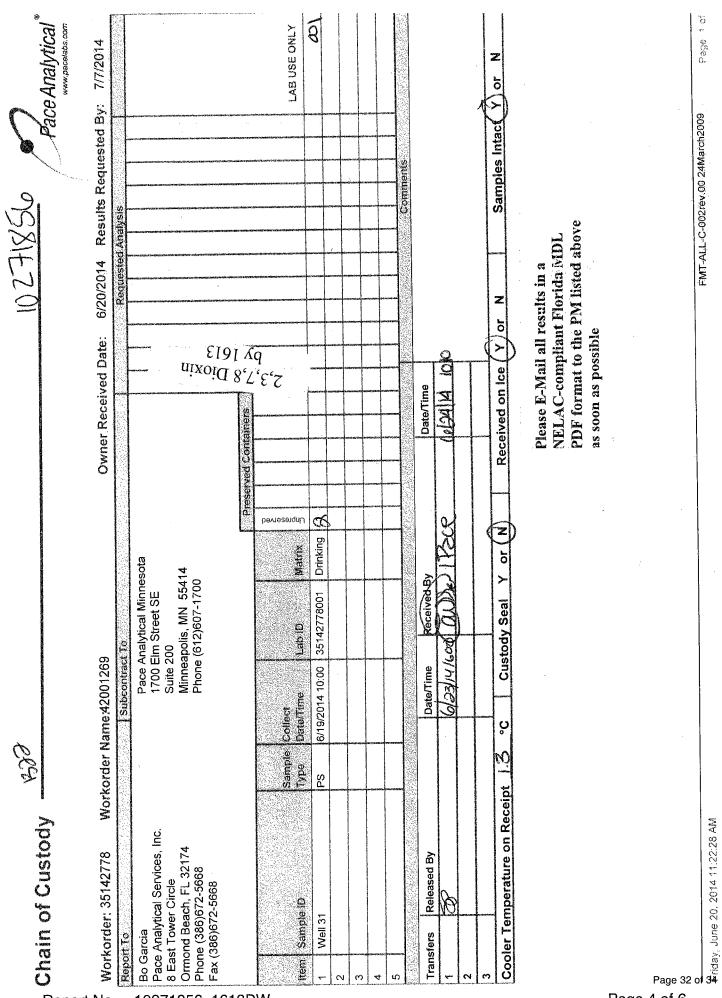
# **Reporting Flags**

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X =%D Exceeds limits
- Y = Calculated using average of daily RFs
- \* = See Discussion

## REPORT OF LABORATORY ANALYSIS

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Page 31 of 34 Page 3 of 6



Report No.....10271856\_1613DW

hermom. Used:       B88A9130516413       B88A912167504       Type of Ice:       AWet:       Blue       None       Samples on Ice, cooling process has the sample condition of the samples on Ice, cooling process has the sample condition of the samples on Ice, cooling process has the sample condition of the sample condition of the sample condition of the samples on Ice, cooling process has the sample condition of the sample condition conditis conditis condition condition conditis condition cond	Pace Analytical®	Sample Condition Docum	nt Name: U <b>pon Receipt Form</b> ent No.: <b>13-rev.09</b>	Document Revised: 28Feb2014 Page 1 of 1 Issuing Authority: Pace Minnesota Quality Office	
Jascoby seal on Cooler Jook Present? If es bala intart If es balo control to the cooler Jook Present? If es bala bala Bags Interest in the seal of control to the cooler Temp Blank? All ves Interest in BassAparation to exceed and the sease of the sease	Upon Receipt Pace FL purier: Afeed Ex UPS Commercial Pace Speed	ee Other:		)#:10271856	
ermon. Used:    B88A9130516413    B88A912167504    Type of fee:    Blue    None    Samples on ice, cooling process has to back freezing to 6*C    Color Famp Corrected (*C:    S    Blue    None    Samples on ice, cooling process has to back freezing to 6*C    Color Famp Corrected (*C:    S    Blue    None    Samples on ice, cooling process has to back freezing to 6*C    S    S    S    S    S    S    S	ustody Seal on Cooler/Box Present? Seal on Cooler/Box Present?	ANO Seals I	ntact? 🗌 Yes 🌾	lo <b>Optional:</b> Proj. Due Date: P	roj. Name:
armon. Used:       B88A912051643       B88A912167504       Type of Ice:       Skilleg       Blue       Inone       Isamples on Ice, cooling process has to black cooling proces has to black cooling process has to black cooling process has to	acking Material: ABubble Wrap ABubble	Bags None [	lOther:	Temp Blank? XYe	s 🗍No
Chain of Custody Present?       Ves       No       1.         Chain of Custody Relinquished?       See       No       2.         Chain of Custody Relinquished?       See       No       3.         Sampler Name and/or Signature on COC?       Ves       No       4.         Samples Arrived within Hold Time?       See       No       6.         Rush Turn Around Time Requested?       Ves       No       8.         Correct Containers Used?       Ves       No       9.         -Pace Containers Used?       Ves       No       10.         Filtered Volume Received for Dissolved Tests?       Ives       No       11.         Sample Labels Match COC?       Ves       No       12.         -Includes Date/Time/ID/Analysis       Matrix:       Ves       No       Sample #         Complex Labels Match COC?       Ves       No       Sample #       Sample #         Containers needing ardservation are found to be in compleme.       No       N/A       13.       HNO_3       Hr_SO_4       Intai when incluster         (HOA, HSO, HC2: NOAL PS Solidie, NoAl-N212 Cyanide)       Exceptions: VOA, Colform, TOC, Oil and Greese, IVE       No       N/A       Sample #         DR0/fol15 (water) DOC       Instai when inclustered?	ermom. Used: B88A9130516413 B88A91 Germom. Used: B88A9130516413 B88A91 Germom. Used: Col: Coler Ten	2167504 32521491 Type of Ice np Corrected (°C):	3	Biological Tissue Frozen? Yes	
Chain of Custody Filled Out?       Sires       No       2.         Chain of Custody Relinguished?       Sires       No       3.         Sampler Name and/or Signature on COC?       Types       No       4.         Sampler Arrived within Hold Time?       Sires       No       4.         Sampler Arrived within Hold Time?       Sires       No       6.         Short Hold Time Analysis (<72 hr)?	Chain of Custody Procent2	Solver CT		Comments:	
Chain of Custody Relinquished?       Image: statute on COC?		8			
Sampler Name and/or Signature on COC?       Yes       No.       4.         Samples Arrived within Hold Time?       Xes       No.       5.         Short Hold Time Analysis (<72 hr)?					·····
Samples Arrived within Hold Time?       Yes       No       S.         Short Hold Time Analysis (-72 hr)?       Yes       No       G.         Rush Turn Around Time Requested?       Yes       No       G.         Sufficient Volume?       Yes       No       G.         Correct Containers Used?       Yes       No       G.         -Pace Containers Used?       Yes       No       G.         -Correct Containers Used?       Yes       No       G.         Containers Intact?       Yes       No       G.         Filtered Volume Received for Dissolved Tests?       Yes       No       H.         Sample Labels Match COC?       Yes       No       H.       G.         -includes Date/Time/D/Analysis       Matrix:       Yes       No       H.         All containers needing preservation have been compliance with EPA recommendation?       Yes       No       Sample #         (MOQ, HSOQ, HCI-2; NaOH >9 Sufficie, NaOH>12 Cyanide)       Yes       No       No       Sample #         Complance with EPA recommendation?       Yes       No       No       No       Initial when iso added completed; preservative:         Complance in VOA Vials (>6mm)?       Yes       No       No       NA       14.			<u>VO S.</u> S.		
Short Hold Time Analysis (<72 hr)?			·		
Rush Turn Around Time Requested?       Ves       No       7.         Sufficient Volume?       No       8.         Correct Containers Used?       Ves       No       9.         -Pace Containers Used?       Ves       No       10.         Filtered Volume Received for Dissolved Tests?       Ves       No       11.         Sample Labels Match COC?       Ves       No       12.         -includes Date/Time/ID/Analysis       Matrix:       Ves       No       13.         All containers needing acld/base preservation have been checked?       No       NA       13.       HNO3       HisSO4       ImaOH         All containers needing preservation are found to be in compliance with EPA recommendation?       No       NA       Sample #       Sample #         (HNO3, HisSO4, HC23; NO4 Hos Subtif(M, MOH>12 Cyanide)       Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC       NA       14.         Headspace in VOA Vials (>5mm)?       Yes       No       NA       14.         Trip Blank Netsel (if purchased):       Intial when in the fidded completed:       Preservative:       No         Headspace in VOA Vials (>5mm)?       Yes       No       NA       14.         Trip Blank Lot # (if purchased):       Intital when in the fidd Data Required?       <			······································		
Rush Tum Arouno Tum Requestedr       Intesting State       No       A         Sufficient Volume?       Yes       No       A         Correct Containers Used?       Yes       No       Intesting         -Pace Containers Used?       Yes       No       Intesting         Containers Intact?       Yes       No       Intesting         Filtered Volume Received for Dissolved Tests?       Yes       No       Intesting         Sample Labels Match COC?       Yes       No       Intesting       Intesting         -Includes Date/Time/ID/Analysis       Matrix:       Within the PA economendation?       Intesting					
Sufficient Volume?       Ares       No       A.         Correct Containers Used?       Yes       No       9.         -Pace Containers Used?       Yes       No       10.         Filtered Volume Received for Dissolved Tests?       Yes       No       11.         Sample Labels Match COC?       Yes       No       11.         -includes Date/Time/ID/Analysis       Matrix:       Image: No       13.         All containers needing acid/base preservation have been checked?       Yes       No       NA         All containers needing preservation are found to be in compliance with EPA recommendation?       Yes       No       NA         Congoliance with EPA recommendation?       Yes       No       NA       Sample #         OR/8015 (water) DOC       Yes       No       NA       14.         Trip Blank Present?       Yes       No       NA       14.         Trip Blank Lot # (if purchased):		A			· · · · · · · · · · · · · · · · · · ·
Containers Used?       Yes       No       Yes       10.         Containers Intact?       Yes       No       10.         Filtered Volume Received for Dissolved Tests?       Yes       No       11.         Sample Labels Match COC?       Yes       No       12.         -Includes Date/Time/ID/Analysis       Matrix:       Image: Sample H       13.         All containers needing acid/base preservation have been checked?       No       NA       13.         All containers needing preservation are found to be in compliance with EPA recommendation?       Ives       No       NA         Conditioners inceding preservation are found to be in compliance with EPA recommendation?       Ives       No       NA       Sample #         Conditioners inceding preservation are found to be in compliance with EPA recommendation?       Ives       No       NA       Sample #         Conditioners inceding preservation are found to be in compliance with EPA recommendation?       Ives       No       NA       Sample #         Conditioners inceding preservation are found to be in compliance with EPA recommendation?       Ives       No       NA       Sample #         Condots (HAC), H3SO, HC-2; NaOL >5 Sulfide, NaOH-12 Cyanide)       Eves       No       NA       Initial when completed: completed: completed: completed: completed: completed: completed: preservative: com			<u>vo <u>v</u>u   8.</u>	······································	
		, <u> </u>	V 14		
Containers intact?       Pages       INC       10.         Filtered Volume Received for Dissolved Tests?       Image: Solved Tests?       Image:					
Fiftered Volume Received for Dissolved Tests?       Yes       No       11.         Sample Labels Match COC?       Yes       No       12.         -Includes Date/Time/ID/Analysis       Matrix:       13.       HNO3       H2SO4       NaOH         All containers needing acid/base preservation have been checked?       Yes       No       N/A       13.       HNO3       H2SO4       NaOH       HC         All containers needing preservation are found to be in compliance with EPA recommendation?       Initial when compliance with EPA recommendation?       Initial when completed:       Lot # of added completed:       Preservative:         Received in VOA, Collform, TOC, Oll and Grease, DRO/8015 (water) DOC       Initial when completed:       Lot # of added completed:       preservative:         Headspace in VOA Vials (>6mm)?       Yes       No       N/A       14.         Trip Blank Present?       Yes       No       N/A       15.         Trip Blank Lot # (if purchased):       Field Data Required?       Yes       No         IENT NOTIFICATION/RESOLUTION       Date/Time:       Comments/Resolution:       Sample			VO 10.		••••••••
Sample Labels Midth Code?		/		· · · · · · · · · · · · · · · · · · ·	
All containers needing acid/base preservation have been checked?       Image: Solution of the solution		Ves LI			
checked?YesNoIsHNO3H2SO4NAOHHCS   All containers needing preservation are found to be in compliance with EPA recommendation?NYSO4NAOHSample #   (HNO3, H_2SO4, HCl<2; NAOH >9 Sulfide, NAOH>12 Cyanide)NAOHNAOHNAOHNAOH   Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOCNONANANAOH   Headspace in VOA Vials (>6mm)?YesNONANA   Trip Blank Present?YesNONA		<u>WI</u>	<u></u>		
compliance with EPA recommendation?       Ives       No       VA         (HNO3, H2SO4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)       Initial when       Lot # of added         Exceptions: VOA, Coliform, TOC, Oil and Grease,       Ives       No       Initial when       Lot # of added         DRO/8015 (water) DOC       Ives       Ives       No       NA       14.         Headspace in VOA Vials (>6mm)?       Ives       Ives       No       NA       14.         Trip Blank Present?       Ives       Ives       No       NA       14.         Trip Blank Custody Seals Present?       Ives       Ives       No       NA         Pace Trip Blank Lot # (if purchased):       Ives       Ives       Ives       Ives         IENT NOTIFICATION/RESOLUTION       Field Data Required?       Ives       Ives       Ives         Person Contacted:       Date/Time:       Date/Time:       Ives       Ives       Ives       Ives         Comments/Resolution:       Ives		Yes	NO N/A 13.	☐HNO₃ ☐H₂SO₄ ☐NaOH	[]нсі
Exceptions: VOA, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC       Initial when completed:       Lot # of added preservative:         Headspace in VOA Vials (>6mm)?       IYes       No       NA       14.         Trip Blank Present?       IYes       No       NA       15.         Trip Blank Custody Seals Present?       IYes       No       N/A       15.         Pace Trip Blank Lot # (if purchased):       IS       Field Data Required?       IYes       INo         Itent NOTIFICATION/RESOLUTION       Field Data Required?       IYes       INo         Person Contacted:       Date/Time:       Date/Time:       IYes       INo	compliance with EPA recommendation?	Yes 🔲	172 <b>-</b>		
Headspace in VOA Vials (>6mm)?       Yes       No       NA       14.         Trip Blank Present?       Yes       No       NA       15.         Trip Blank Custody Seals Present?       Yes       No       N/A         Pace Trip Blank Lot # (if purchased):	Exceptions: VOA, Coliform, TOC, Oil and Grease,		No.		
Trip Blank Present?       Yes       No       NA       15.         Trip Blank Custody Seals Present?       Yes       No       NA         Pace Trip Blank Lot # (if purchased):	DRO/8015 (water) DOC		complete	d:preservative:	-
Trip Blank Custody Seals Present?       Yes       No       N/A         Pace Trip Blank Lot # (if purchased):	Headspace in VOA Vials ( >6mm)?	Yes	No NXA 14.		
Pace Trip Blank Lot # (if purchased):	Trip Blank Present?	Yes	No N/A 15.		
IENT NOTIFICATION/RESOLUTION       Field Data Required?       Yes       No         Person Contacted:       Date/Time:	Trip Blank Custody Seals Present?	Yes	No N/A		
Person Contacted: Date/Time:	Pace Trip Blank Lot # (if purchased):	<del></del>			
Comments/Resolution:	IENT NOTIFICATION/RESOLUTION			Field Data Required?	No
oject Manager Review: 1 JJBJ Date: 10-25-14	Comments/Resolution:				
piect Manager Review: 1 J. ABJ Date: 10-25-14	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
piect Manager Review: $121/202$ Date: $(-22-17)$			·		
				1 0 - 1/1	

Pace Analytical<sup>™</sup>

Pace AnalyticalServices, Inc. 1700 Elm Street - Suite 200 Minneapolis, MN 55414

Drinking Water Analysis Results 2,3,7,8-TCDD -- USEPA Method 1613B Tel: 612-607-1700 Fax: 612-607-6444

## Sample ID..... WELL 31

Client..... PASI Florida Lab Sample ID.... 35142778001 Date Collected.....06/19/2014 Date Received.....06/24/2014 Date Extracted.....07/01/2014

	Sample WELL 31	Method Blank	Lab Spike	Lab Spike Dup	
[2,3,7,8-TCDD]	ND	ND			
RL	1.3 pg/L	1.3 pg/L			
2,3,7,8-TCDD Recovery			104%	100%	
Spike Recovery Limit			73-146%	73-146%	
RPD			3.8%		
IS Recovery	77%	88%	83%	80%	
IS Recovery Limits	31-137%	31-137%	25-141%	25-141%	
CS Recovery	94%	92%	94%	94%	
CS Recovery Limits	42-164%	42-164%	37-158%	37-158%	
Filename Analysis Date Analysis Time	R140702A_08 07/02/2014 21:19	R140702A_05 07/02/2014 19:36	R140702A_03 07/02/2014 18:28	R140702A_04 07/02/2014 19:02	
Analyst Volume Dilution ICAL Date CCAL Filename	CVS 0.930L NA 07/19/2013 R140702A 02	CVS 1.008L NA 07/19/2013 R140702A_02	CVS 1.000L NA 07/19/2013 R140702A 02	CVS 1.013L NA 07/19/2013 R140702A 02	

= Outside the Control Limits

= Not Detected

!

 $N\!D$ 

Analyst: \_\_\_\_ Surpr

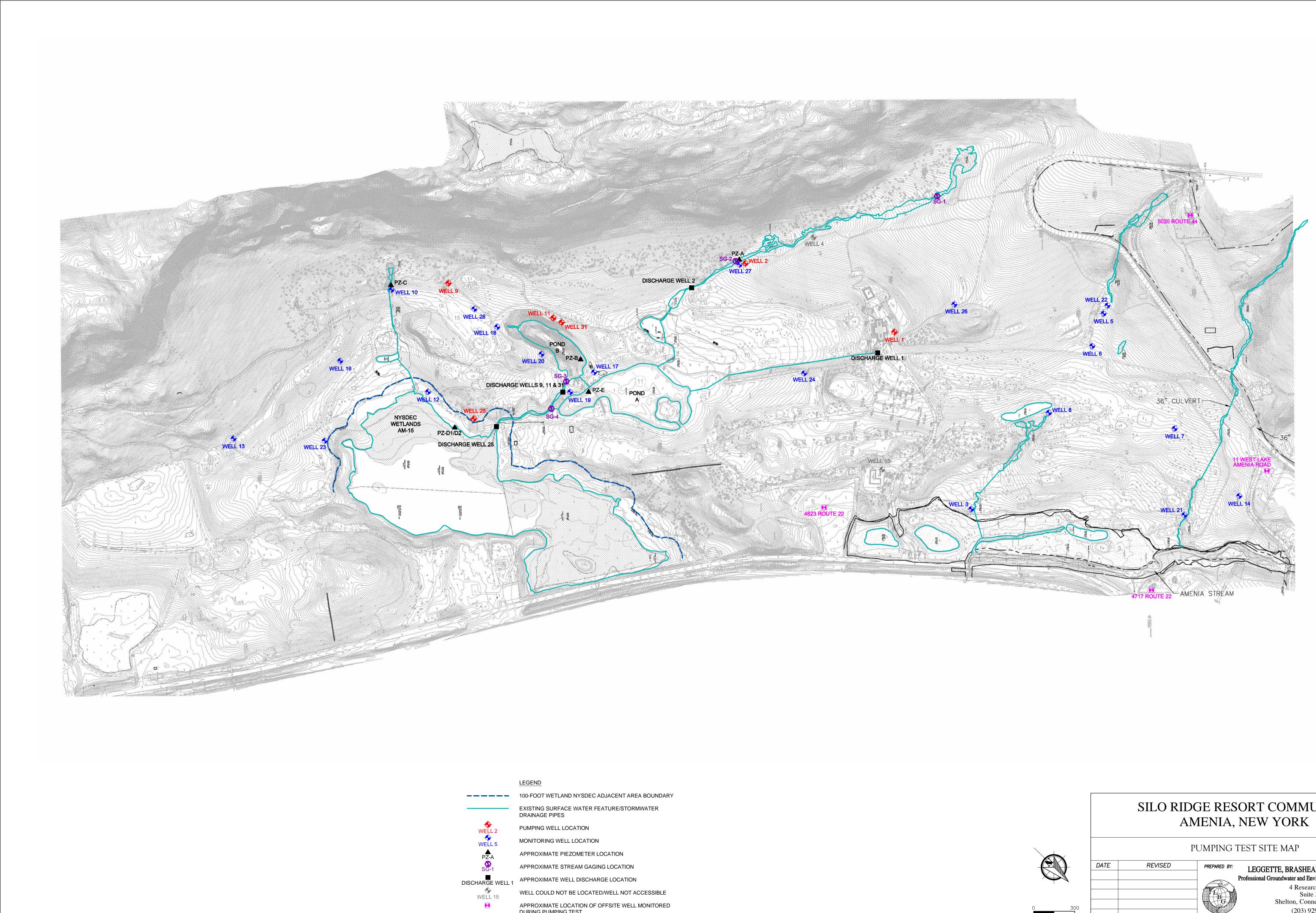
- RL= Reporting LimitLimits= Control Limits from Method 1613 (10/94 Revision), Tables 6A and 7ARPD= Relative Percent Difference of Lab Spike Recoveries
- IS = Internal Standard  $[2,3,7,8-TCDD-{}^{13}C_{12}]$
- $CS = Cleanup Standard [2,3,7,8-TCDD- {}^{37}Cl_4]$

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PLATE

LEGGETTE, BRASHEARS & GRAHAM, INC.



APPROXIMATE LOCATION OF OFFSITE WELL MONITORED DURING PUMPING TEST

O:\DWG\Silo Ridge\2014\P1-Pumping Test Site Map.dwg, Layout1, 8/21/2014 8:44:42 AM, PDF-XChange for AcroPlot Pro\_\_\_\_\_

# SILO RIDGE RESORT COMMUNITY LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Groundwater and Environmental Engineering Services 4 Research Drive Suite 301 Shelton, Connecticut 06484 (203) 929-8555 SCALE IN FEET DRAWN: RAC CHECKED: SS DATE: 07/31/14 PLATE: 1