



Department of  
Environmental  
Conservation

# 1735 Express Drive North

## GEOPHYSICAL CHARACTERISTICS & EVALUATION OF LITHOLOGY

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## Contents

Introduction: .....	3
Objectives: .....	3
Regional Geological Data: .....	3
Data Acquisition: .....	4
Data Processing:.....	5
I. Import to Surfer .....	6
II. Data Processing in Surfer .....	6
III. Data Limitations .....	6
Data Interpretation:.....	6
Conclusions: .....	8
References .....	8
Table 1: Field Data .....	9
Figures.....	10
Figure 1: Site Location Map .....	10
Figure 2: Cross-Section Layout.....	10
Figure 3A: Transect 1 (A-A') Gamma Cross-Section.....	10
Figure 3B Transect 1 (A-A') Conductivity Cross-Section .....	10
Figure 3C Transect 1 (A-A') Geological Interpretation.....	10
Figure 4A: Transect 2 (B-B') Gamma Cross-Section .....	10
Figure 4B: Transect 2 (B-B') Conductivity Cross-Section.....	10
Figure 4C: Transect 2 (B-B') Geological Interpretation .....	10
Figure 5A: Transect 3 (C-C') Gamma Cross-Section .....	10
Figure 5B: Transect 3 (C-C') Conductivity Cross-Section.....	10
Figure 5C: Transect 3 (C-C') Geological Interpretation .....	10
Figure 6: 3D Gamma Log of Site Wells.....	10
Appendices.....	13
Appendix A: Gamma & Conductivity Excel Line Logs.....	14
Appendix B: 1735 Express North Drive Soil Logs August 5, 2006 .....	21
Appendix C: 1735 Express Drive North Well Logs October 7, 2010.....	24
Appendix D: Technical Data: RI & IRM, 1735 Express Drive North.....	124

## Introduction:

1735 Express Drive North is a 1.58-acre site located in Hauppauge, Suffolk, County, New York. The property includes a 30,000 square foot concrete block building on a slab foundation. Historically the site was operated as a chemical company responsible for manufacturing, mixing, repackaging, and distribution of chemicals including both chlorinated and non-chlorinated solvents. Due to the site's history of chemical use, contaminants found at the site include volatile organic compounds (VOCs) including 1,1,1 Trichloroethane, Tetrachloroethene, Trichloroethene, cis-1,2 Dichloroethene, Toluene, Ethylbenzene, and Xylene. Site contamination was discovered on-site in drainage structures which required remedial excavations. VOCs were also detected in groundwater and soil vapor, prompting the installation of a sub-slab depressurization system (SSDS) on the site building and the investigation of groundwater contamination on-site and off-site. The project manager called for geophysical characterization of the site and nearby areas lithology to better determine potential flow paths for groundwater containing the aforementioned contaminants.

## Objectives:

Thirty-one (31) monitoring wells were installed as part of an investigation into the 1735 Express Drive North both on and off-site in 2010. Well construction information for these wells was not included in this report because of insufficient data regarding lithology and construction during drilling. The objective of the geophysical survey effort was to determine overburden lithology off-site of the 1735 Express North Drive site and identify any geologic features controlling fate and transport. Downhole geophysical surveys allowed for investigation and identification of overburden lithology, including identification of high hydraulic conductivity layers, confining layers, and aquitards by measuring the electrical and radiological response of soils.

## Regional Geological Data:

Long Island is in southeastern New York, bordered to the north by Long Island Sound, and to the south by the Atlantic Ocean. The Island is 120 miles long and at its widest point is 25 miles wide. The geography of Long Island consists of high bluffs at the north end of the island, a crest towards the middle of the island, and a gently sloping plain on the southern portion of the island.

The lithology of Long Island consists of Pleistocene-era glacial deposits including moraines and fluvial outwash plains at and near the surface, which is considered the Upper-Glacial formation containing the Upper Glacial aquifer. The Upper Glacial Aquifer is an unconfined aquifer near the surface of Long Island. The lithology of the upper glacial is primarily composed of well sorted coarse sands and fine gravels with some interbedded silts and clays along the outwash plain in the central-southern portion of the Island. The deposition of the Upper Glacial formation occurred during the Wisconsinian Glacial event which created a series of moraines during the advancing and retreating of the continental ice sheet. The Upper Glacial lithology at the northern portion of the island is generally composed of poorly sorted tills. Hydraulic conductivity is varied in these different lithologies, with the poorly sorted tills at the northern

portion of the island having lower hydraulic conductivity than the gravels and sands present in the outwash plains on the southern portion of the Island.

The Cretaceous-Age Magothy formation underlies the Upper Glacial Aquifer and is typically broken down to the Upper and Lower Magothy. The Upper Magothy is composed of a variety of sands, silts, and clays that decrease hydraulic conductivity with depth in the shallower portions of the Magothy Aquifer. Along the southern portion of Long Island, the Upper Magothy also includes the Gardiners Clay, also known as the 100-foot clay, and the Jameco Aquifer. Moving south to north, the Gardiners Clay and Jameco Aquifer feather out to the point where the Upper Glacial Aquifer directly overlies the Lower Magothy as a disconformity. The Lower Magothy is composed of coarser sands that allow for greater hydraulic conductivity, which allows for use as a drinking water aquifer that is utilized by the inhabitants of Long Island.

Beneath the Magothy lies the Raritan Clay, which is a confining unit that overlies the Lloyd Sand, which is the basal member of the Raritan Formation. The Raritan formation lies over Precambrian highly metamorphosed gneiss, which generally dips in a southern direction with the continental shelf (Walter et al, 2020).

The site is in roughly the center-portion of the island where surficial geology is described as morainal, which matches the observations made on site. Sorted coarse sands exist at the basal portion of wells drilled on and near site at approximately 50 feet asl. Sands are then interbedded with silty sands from approximately 85 feet asl to the surface, which corresponds to glacial advancing and retreating.

## Data Acquisition:

The Geonics EM39, conductivity and gamma logging probes were used to collect electrical and radiological sensing data respectively. Geonics EM39 Conductivity probe measures the conductance of the soil-water matrix in the half-space between two electrodes mounted on the probe calculated in microsiemens per meter ( $\mu\text{S}/\text{m}$ ). The EM39 utilizes coaxial coil geometry with an intercoil spacing of 50 centimeters to allow for a half meter radius of exploration into the formation. The Geonics Gamma39 Gamma probe used in this effort measures gamma radiation in counts per second (cps) of gamma radiation hits to the probe while descending or ascending through a borehole (Geonics 2013). The vertical sampling interval was set at 0.05m, which is equivalent to approximately 0.16 feet for both tools.

Both the Geonics EM39 and Gamma39 operate on an internal battery power source. Both geophysical probes connect to the Console via cable. The tooling cable core is a coaxial cable and allows for effective investigation up to 1500 feet in depth (Geonics 2016). A tripod with depth decoder is set over the borehole the probes are raised and lowered while data is simultaneously recorded on PC hard drive. Data acquired during this imaging effort was stored in a solid-state flash drive during field work and was uploaded at central office for data processing and analyzation.

During data collection, MP-13 was used for Quality Assurance/Quality Control (QA/QC) to ensure consistency in readings from the Gamma and Conductivity probes. Each probe was



lowered into MP-13 for geophysical logging as usual, then gamma and conductivity logs were performed again as each probe was raised out of MP-13. Conductivity and Gamma data sets for up/down log readings were compared to check for anomalies. No issues were detected during QA/QC.

The GPS equipment used to map monitoring well locations was a Trimble™ which is a hand-held GPS coordinate device with an accuracy of 4 inches that allows the user to plot points and assign names of those points from the field.

Ryan Richard, Alex Malamet, and Emily Barry of the New York Department of Environmental Conservation (DEC) Region 3 Office and Mark Domaracki, Jared Donaldson, and Alex Klein from DEC Central Office collected geophysical data between October 12<sup>th</sup> and 13<sup>th</sup>, 2022.

## Data Processing:

Survey data was consolidated in DAT39 conversion suite and tabulated using Microsoft Excel™. Data imported from the Geonics probe is recorded as depth in meters and conductivity in micro siemens per meter (uS/m) or gamma in counts per second (cps). Geophysical logs depths were converted from meters to feet. GPS top of casing (toc) elevation (feet) was used to correct geophysical logs from depth to elevation in feet. Once converted to elevation, logs could be cross correlated with adjacent logging data. Raw conductivity data was cut to remove magnetic interference associated with steel near the surface. In order to eliminate noise, data sets for both conductivity and gamma logs were processed using a moving average of 5 data points. Individual logs were generated in Excel and are provided in Appendix A. Processed Excel files were imported into surfer for lithology profiling and mapping.

Well top of casing elevations were gathered from previous site investigations for all except a few wells which included MP-9, MP-13, MP-29, and MP-30. Wells that did not have casing elevations were given estimated elevations subject to linear interpretation given the elevation of other known nearby wells adjusted for change in ground surface elevation. This process of determining the elevation of an existing well without elevation data involved determining the difference in elevation between two wells in a transect that had given elevations on either side of the well that didn't have elevation data. The distance between the wells with elevation data was measured, which provided enough information to determine the rise/run per foot. The distance from one well with existing elevation data to the well without elevation data was determined, and then the elevation of the well without data was calculated based on the rise/run multiplied by the distance from the well with existing elevation data. While this process allows for a relative value for elevation, it is not exact as the surface is not linear by nature. However, the surface of the study area was relatively flat, and wells with unknown elevations were typically in transects with wells that had existing elevations, which field staff at the time of investigation found sufficient to determine fairly accurate elevations of wells that did not already have existing elevation values.

Water table elevation data was gathered by measuring the depth to water from each well's top of casing before logging took place, then subtracting the depth to water from the top of casing

elevation to provide the elevation of the groundwater table in feet above sea level. Well data and water table elevation data is included in Table 1.

ArcMap™ was used to create Figures 1 and 2, using existing New York State Geospatial data as a template on which to show the site map (Figure 1), and how each transect was projected across the study area (Figure 2).

### I. Import to Surfer

The coordinates from the Trimble™ GPS were uploaded via Pathfinder to a computer where the GPS coordinates were added as a column into the processed Geonics excel file. The final excel file included monitoring well name, longitude, latitude, depth, elevation, azimuth, inclination, conductivity, and gamma data as point data. The files were uploaded to Surfer 23.

Top of Casing elevation and water table elevation were then imported to surfer as values and assigned to the corresponding geographic locations of wells logged during this effort.

### II. Data Processing in Surfer

Surface elevations were grided via the Kriging method which is ideal for irregularly spaced data. Surface and water table elevations were assigned to their corresponding wells for geospatial relation. Cross-section layout was interpreted from the geospatial data. Three cross-sections were obtained using the gamma and conductivity data by linear triangulation. Transect 1 (A-A') is a cross-section stretching south-north intersecting MW-1, MP-4, MP-6, MP-7, MP-9, and MP-11 (Figures 3A-3C). Transect 2 (B-B') is east-west spanning between MP-6, MP-12, MP-13, and MP-14 (Figures 4A-4C). Transect 3 (C-C') is southeast-northwest spanning between MP-1, MP-4 and MP-14 (Figures 5A-5C). All wells were then displayed in a 3d image to show potential lithological relationships across the study area, presented in Figure 6.

### III. Data Limitations

The conductivity probe is prone to magnetic interference. Shallow metallic objects (ie. casing or shallow utilities). Conductivity data near the top of each well was excluded due to interference with the metal monitoring well housing. Conductivity logs are evaluated for groundwater presence in the interpretation of data. Gamma log data is not susceptible to these same limitations.

Wells MP-29 and MP-30 are significantly lower in elevation than the rest of the surveyed wells. Both MP-29 and MP-30 did not contain water. As a result, MP-29 and MP-30 were eliminated from the 3D data interpretation and cross-sectional analysis.

## Data Interpretation:

The first step in data interpretation was reviewing gamma and conductivity logs in Excel. Data files were then imported to Surfer to create cross sections and 2D and 3D models for interpretation. Cross-sections generated in Surfer for gamma and conductivity were interpreted side by side with excel line logs for cross section figure creation. Data was analyzed relative to

elevation. MP-1 was used to calibrate probe sensitivity and range relative to a nearby site boring log with descriptions of soils. Conductivity readings above 70  $\mu\text{S}/\text{m}$  correlate well to silty sand. Conductivity readings under 70  $\mu\text{S}/\text{m}$  correlate to sands, with well sorted sands (poorly graded) having slightly lower conductivity readings than poorly sorted sands (well graded). Gamma readings below 40 cps were interpreted as coarse sand and gravel. Gamma readings between 40 and 60 were interpreted as sand, while readings above 60 cps were interpreted as silty sand. Gamma values above 80 cps were interpreted as silty-clayey sand. Due to the distance between MP-1 and the site, gamma log correlations were also checked against the gamma log of MW-1 and the soil log of LP-4B, which was a soil boring performed in an on-site leaching pool in the vicinity of MW-1 in order to ensure geophysical field data was consistent with historically observed subsurface lithology.

Regional and local geological history was considered when making interpretations. The regional geological history of Long Island is associated with the Wisconsin glaciation between 12 and 20 thousand years ago. Long Island itself is a terminal moraine created during the glacial maxima. The site is located on the Ronkonkoma terminal moraine. The moraine was formed during interglacial retreat and ice readvance. Depositional environments associated with the Ronkonkoma include glacial, fluvial and lacustrine.

Gamma log exhibited the most consistent response for interpretation of overburden lithology. Gamma logs exhibited a large shift in baseline values in all the boreholes around 80 feet asl. A baseline of low gamma response is established at the bottom of the borehole with rapid increase in gamma values above 80-90 feet asl. The response is interpreted as a thick layer of a silica rich coarse sand and gravel transitioning into a finer grain sand. Very low gamma readings below 90 feet asl are consistent with the timeline of glacial deposition associated with the Ronkonkoma terminal moraine which could transport and deposit coarse materials.

Above the 80 feet to the surface (140 to 160 feet asl), gamma response shows variation along a similar baseline with generalized increased count as you move towards the surface. Data is interpreted as layers of sands are interbedded with silty sand. The thickness and position of the interbedded sands and silty sands varies from 80 to 120 feet asl.

At approximately 120 feet asl an increase in gamma is observed across all logs with a steady conductivity log. This is interpreted as a distinct silty-sand layer with a thickness of 10 to 20 feet, before transitioning back into a sand. Another distinct layer of silty sand is observed near the surface at 130 to 140 feet asl. However, in some lower elevations the layer appears to be missing suggesting it may have been eroded away during inter-glacial fluvial processes. The timeline and positioning of the layers would be consistent with fluvial and lacustrine deposition of finer sediments along terminal moraine margins post glaciation.

Geophysical logs are consistent with the local geological history. Coarse silica rich sediments consistent with glacial deposition underlie, finer fluvial and lacustrine deposits. The finer sediments are thought to be associated with the fluvial and lacustrine deposition during glacial retreat. Damming along the moraine margins and alluvial fan depositions south of the moraine are consistent with the interpretation.

## Conclusions:

The 1735 Express North Drive site and off-site was once a glacial moraine margin between the glacial advance and outwash plains of Long Island. At depth (approximately 50 to 85 feet asl) the lithology is composed of primarily coarse sand and gravel suggesting glacial depositional environment created by ablation. Above 85 feet in elevation, sands are interbedded with silty-sands and medium-fine sands, suggesting meltwater streams allowed sediment carried by the glacier to be sorted and deposited relatively close to the glacial margins. Above 120 feet asl it appears as the glacier retreated north, finer silts and sands were able to be deposited at the moraine margins before fluvial processes cut through the moraine east of the site creating a large alluvial fan to the south of the moraine margin.

## References

Walter, D. Finklestein, J. Distribution of Selected Hydrogeologic Characteristics of the Upper Glacial and Magothy Aquifers, Long Island, New York. USGS. 2020

FPM Group. Remedial Investigation Work Plan, 1735 Express Drive North, Hauppauge, New York. December 2013

Geonics Limited. EM39 Conductivity. 2016. <http://www.geonics.com/html/em39.html>

Geonics Limited. Gamma39 Natural Gamma. 2013. <http://www.geonics.com/html/gamma39.html>



## Table 1: Field Data

Monitoring Well	Lat	Long	MW Diameter (inches)	TOC Elevation (ft)*	Depth to water (feet)	Total Depth (feet)	Bottom Elevation	Water Table Elevation (ft)	Azimuth	Declination	Screen Interval (ft)*	Sump Interval (ft)**	Gamma Log File	Conductivity Log File	QA/QC
MW-1	40.807993	-73.232506	2	150	85.01	111.1	38.9	64.99	0	0	NA	NA			
MP-1	40.808273	-73.228591	2	166.04	102.31	112.82	53.22	63.73	0	0	110-115	115-120	MP1GD	MP1UP4	
MP-4	40.809147	-73.228779	2	158.35	94.69	122.9	35.45	63.66	0	0	160-165	165-170	MP4GD1	MP4CU4	
MP-6	40.810023	-73.228749	2	150.98	87.38	102.1	48.88	63.6	0	0	160-165	165-170	MP6GD1	MP6CD2	
MP-7	40.810392	-73.228742	2	147.55	84.09	101.88	45.67	63.46	0	0	NA	NA	7GD1	7CD1	
MP-9	40.810926	-73.228726	2	143	79.68	94.16	48.84	63.32	0	0	160-165	165-170	9GD1	9CD1	
MP-11	40.811485	-73.228822	2	138.38	91.55	91.55	46.83	46.83	0	0	150-155	155-160	11GD1	11CD1	
MP-12	40.810159	-73.227269	2	157.78	94.71	107.53	50.25	63.07	0	0	160-165	165-170	12GD1	MP12CU1	
MP-13	40.810158	-73.226856	2	158	100.92	111.91	46.09	57.08	0	0	160-165	165-170	13GD1	13CD1/13CU2	X
MP-14	40.810149	-73.226415	2	158.53	95.68	112.36	46.17	62.85	0	0	160-165	165-170	MP14GD1	MP14CD1	
MW-2S	40.808304	-73.231957	1	151.15	86.77	90.27	60.88	64.38	0	0	NA	NA	NA	NA	
MW-2I	40.808304	-73.231957	1	151.15	86.83	92.23	58.92	64.32	0	0	NA	NA	NA	NA	
MW-2D	40.808304	-73.231957	1	151.15	86.79	106.42	44.73	64.36	0	0	NA	NA	NA	NA	
MW-4D	40.807902	-73.231839	1	151.55	86.6	106.41	45.14	64.95	0	0	NA	NA	NA	NA	
MW-4S	40.807902	-73.231839	1	158.35		87.54	70.81		0	0	NA	NA	NA	NA	
MP-29	40.813428	-73.220911	2	75	26.82	39.56	35.44	48.18	0	0	110-115	115-120	MP29GD1	MP29CU2	
MP-30	40.81289	-73.220826	2	78	31.13	38.27	39.73	46.87	0	0	110-115	115-120	MP30GD1	MP30CD1	

Indicates Well Elevation Unknown: value determined through linear interpretation

\*TOC Elevation Values from Appendix D of Report

\*\*Values from Appendix C of Report

## Figures

Figure 1: Site Location Map

Figure 2: Cross-Section Layout

Figure 3A: Transect 1 (A-A') Gamma Cross-Section

Figure 3B Transect 1 (A-A') Conductivity Cross-Section

Figure 3C Transect 1 (A-A') Geological Interpretation

Figure 4A: Transect 2 (B-B') Gamma Cross-Section

Figure 4B: Transect 2 (B-B') Conductivity Cross-Section

Figure 4C: Transect 2 (B-B') Geological Interpretation

Figure 5A: Transect 3 (C-C') Gamma Cross-Section

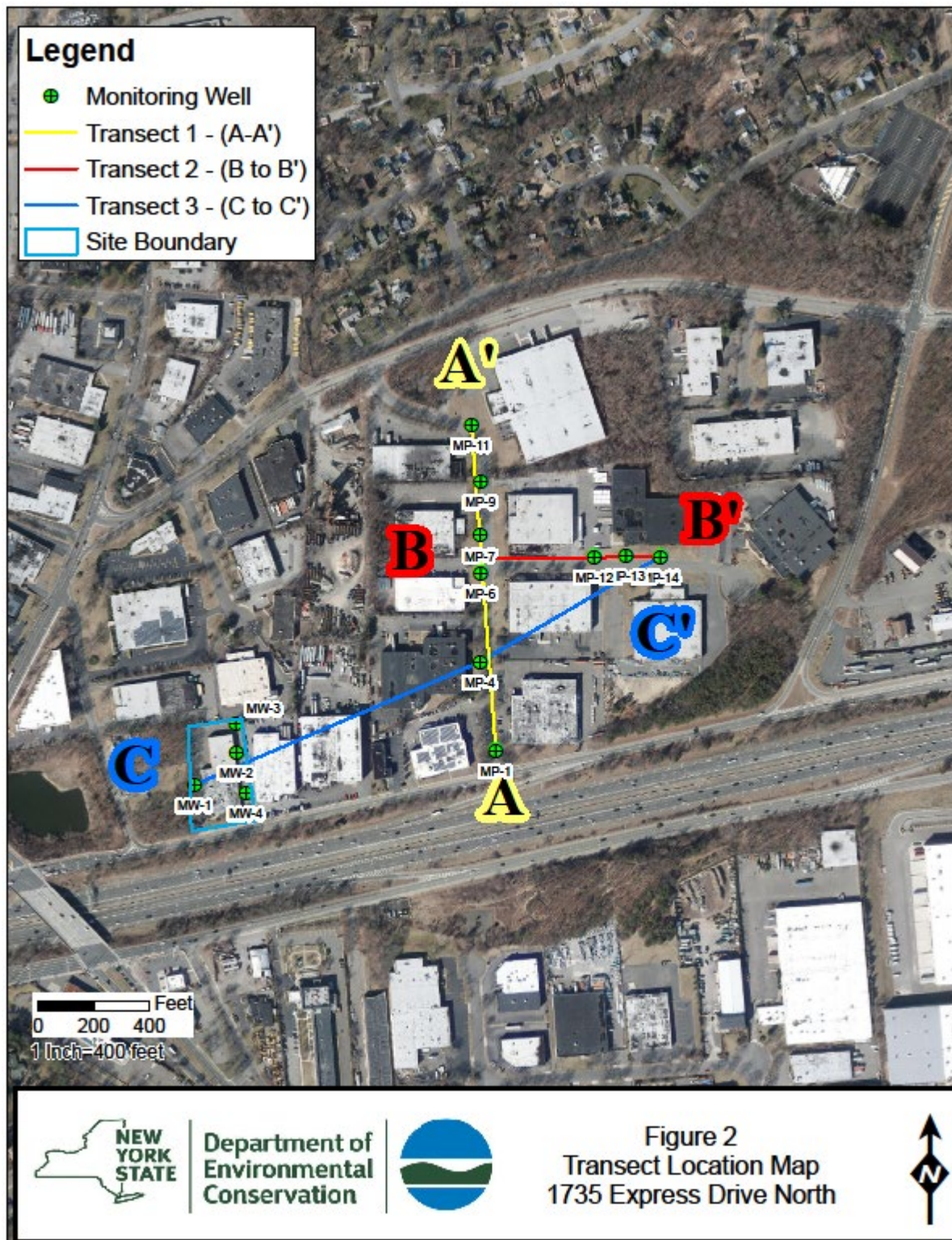
Figure 5B: Transect 3 (C-C') Conductivity Cross-Section

Figure 5C: Transect 3 (C-C') Geological Interpretation

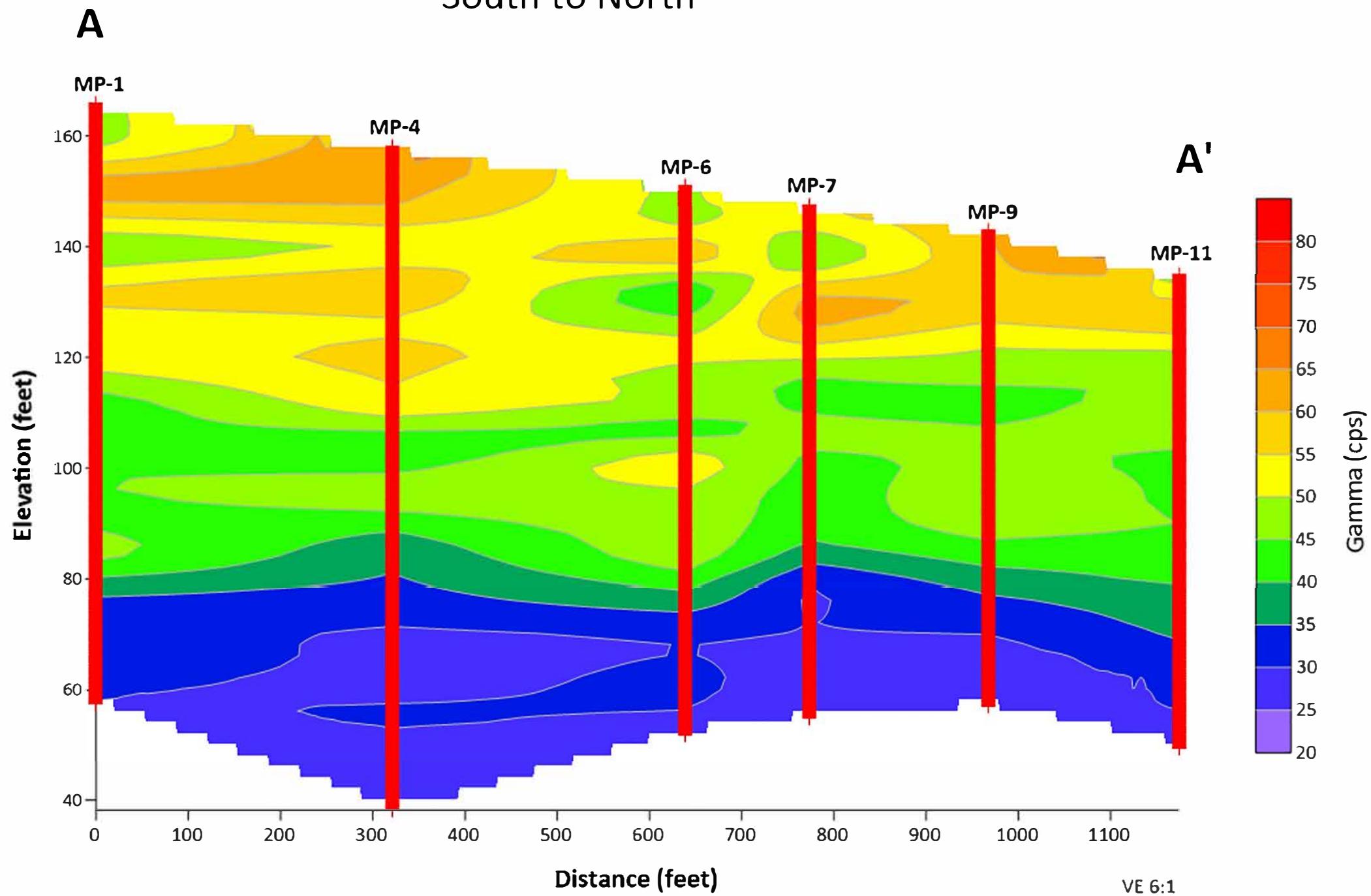
Figure 6: 3D Gamma Log of Site Wells



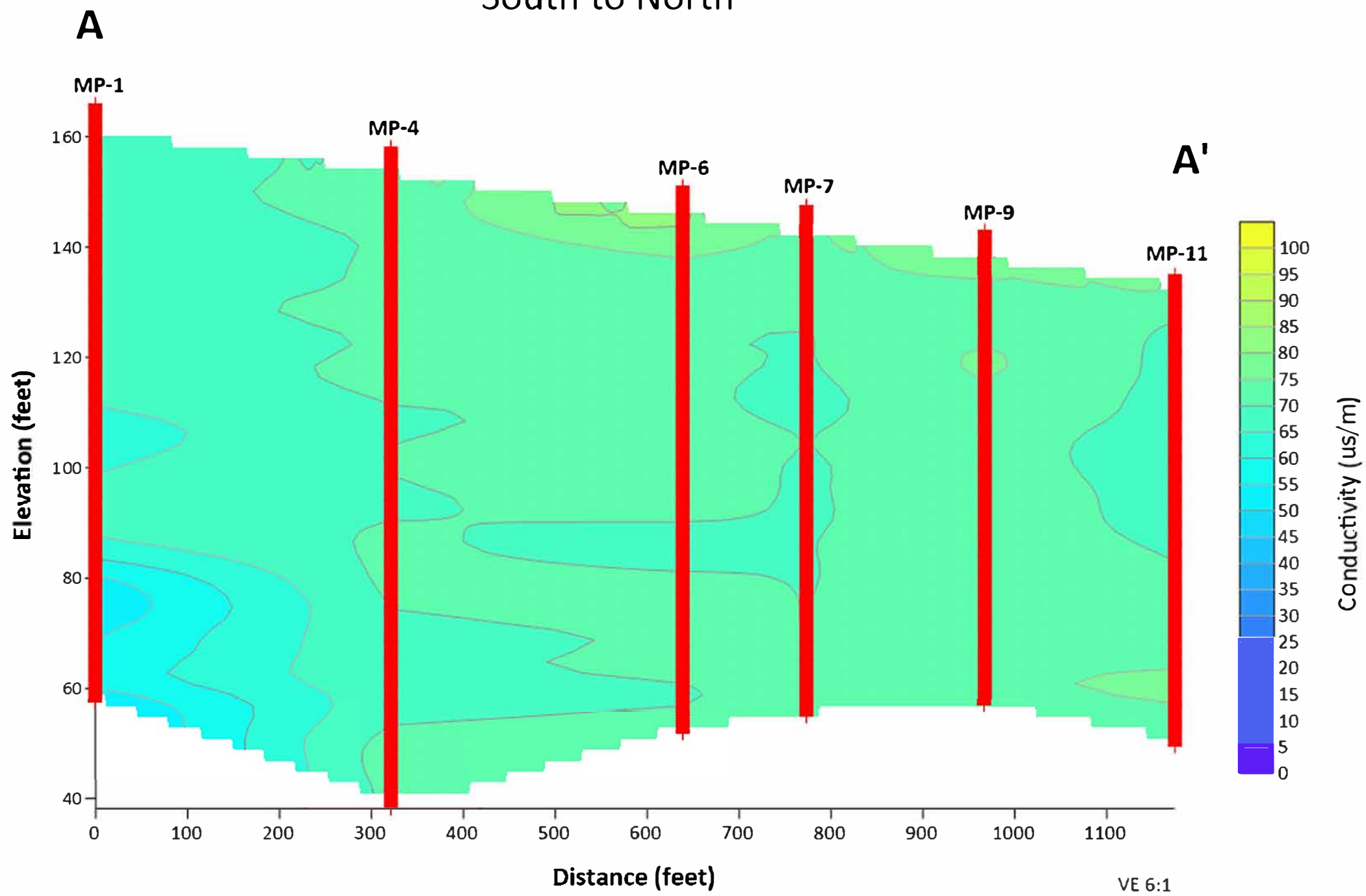




**Figure 3A**  
**Gamma Model Cross-section**  
Transect 1 (A - A')  
South to North

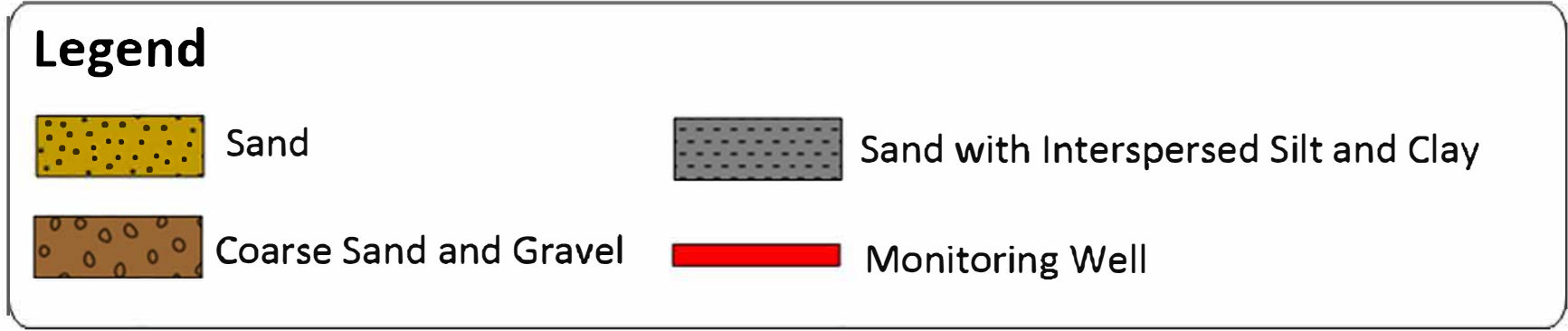
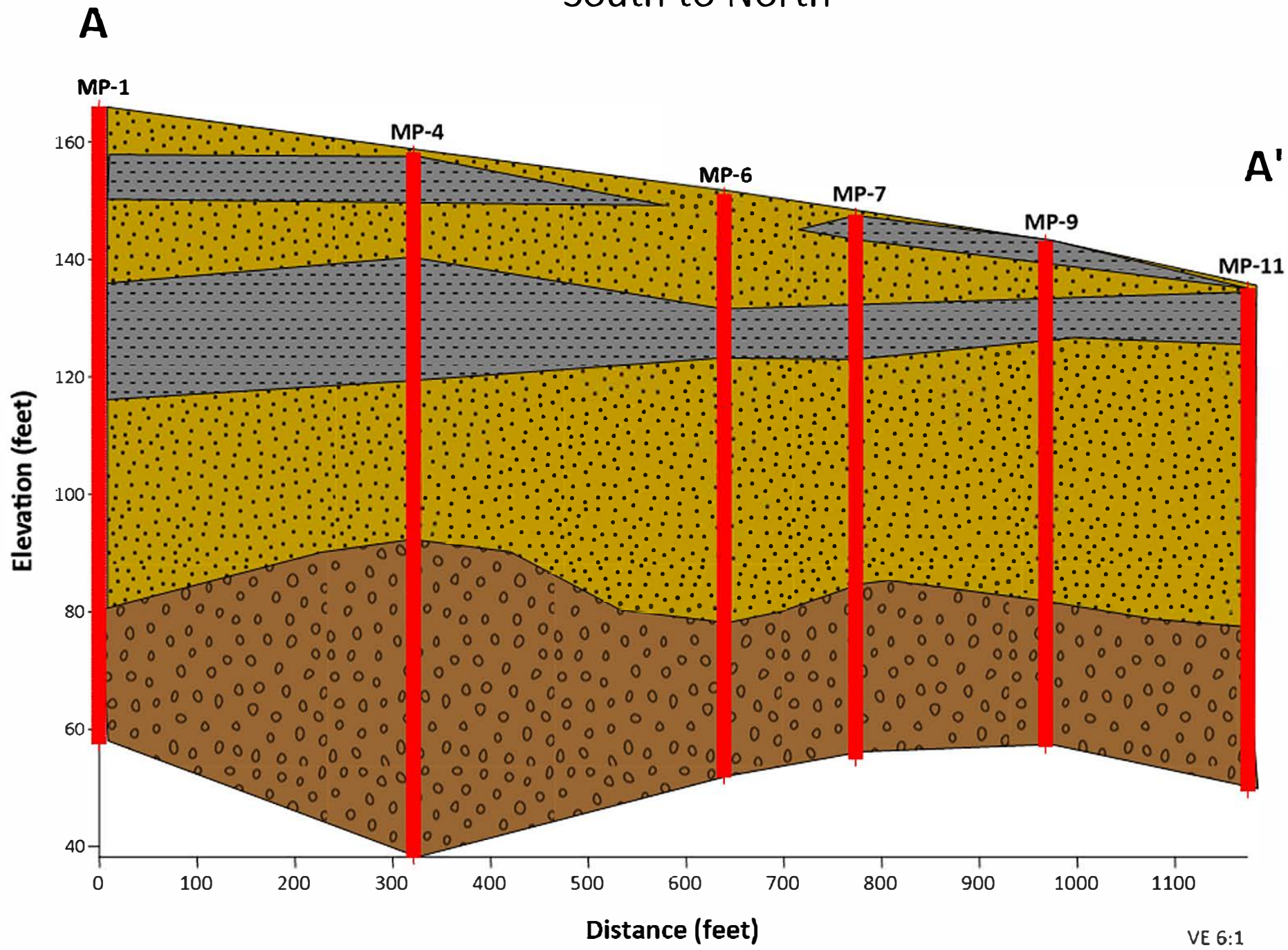


**Figure 3B**  
**Conductivity Model Cross-section**  
Transect 1 (A - A')  
South to North



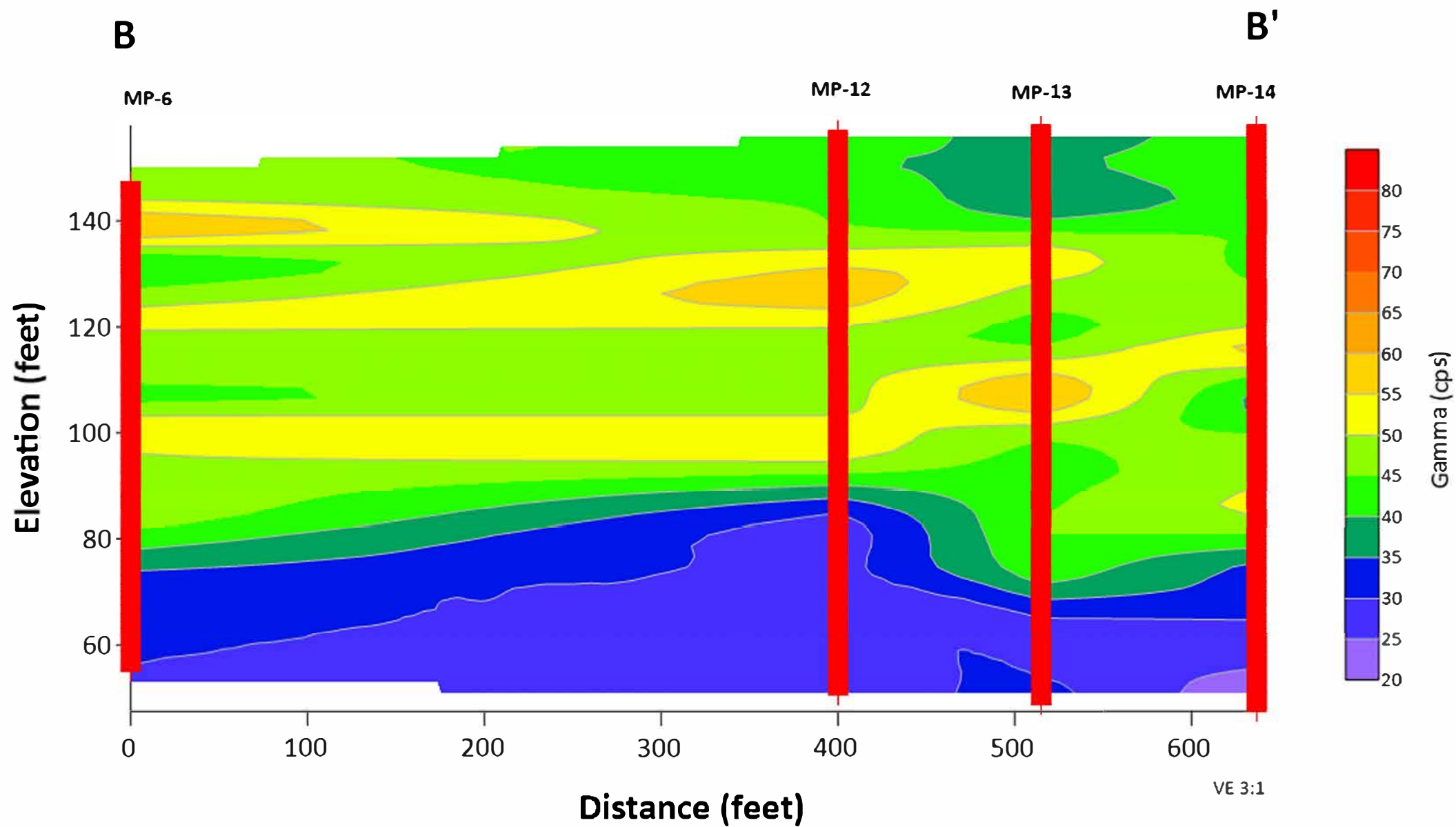


**Figure 3C**  
**Geological Interpretation Cross-section**  
 Transect 1 (A - A')  
 South to North

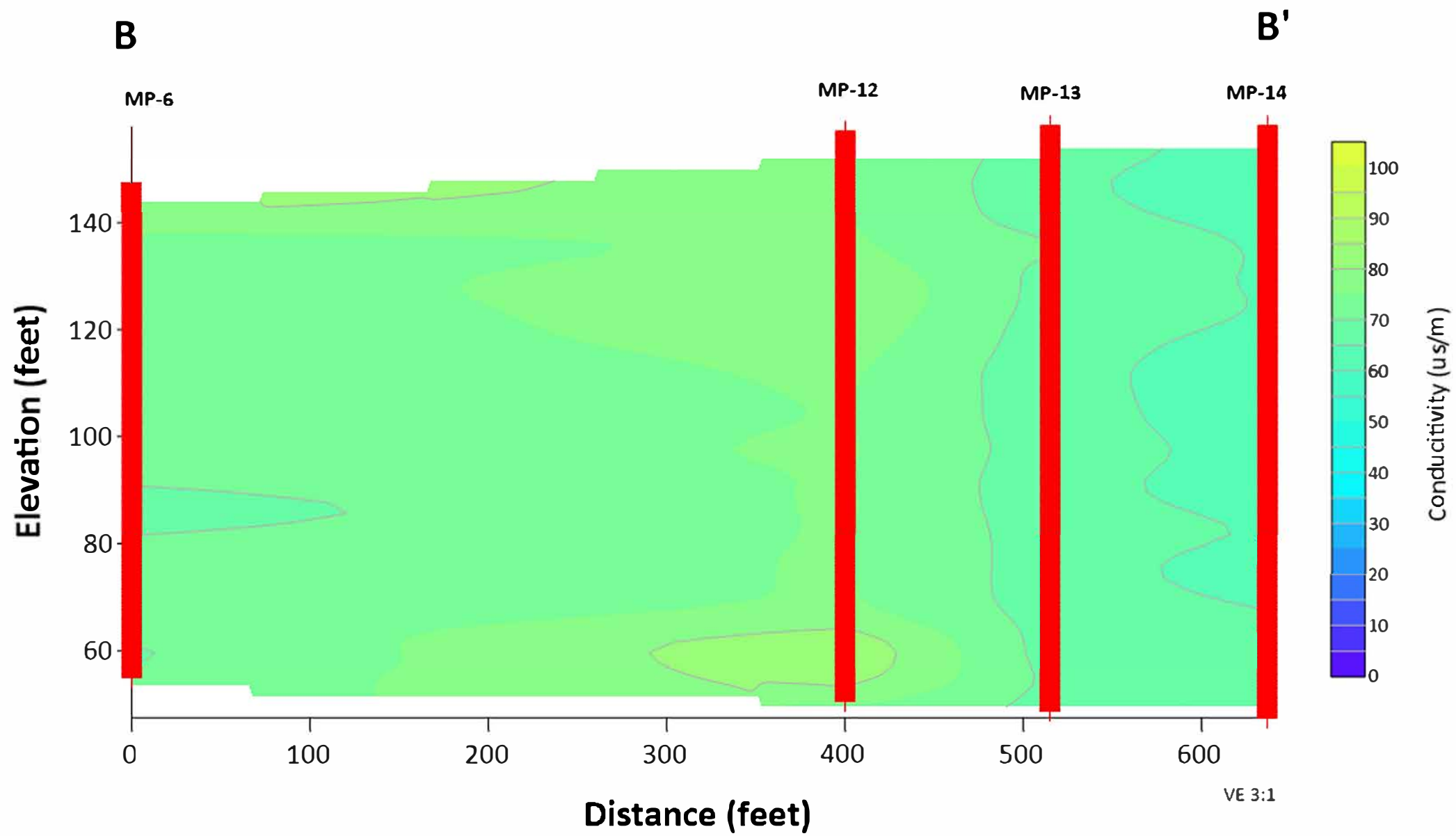




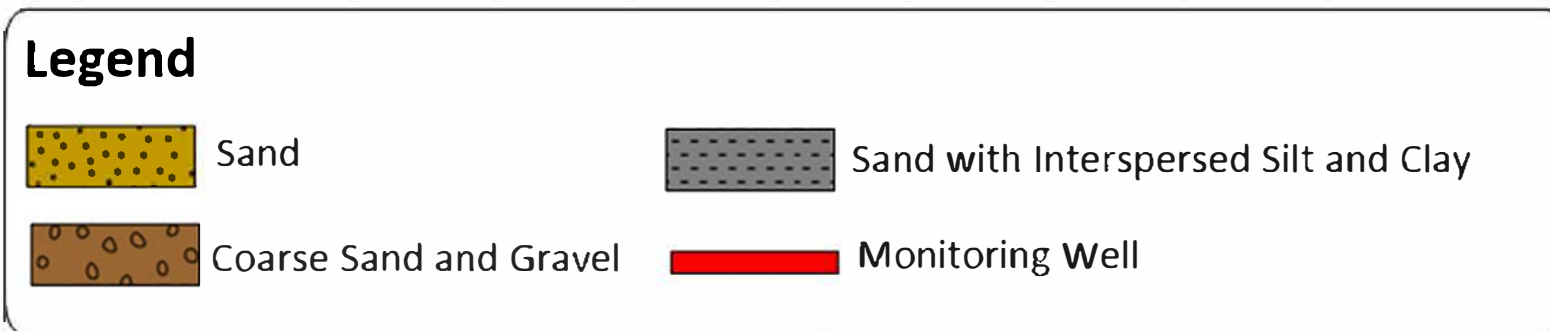
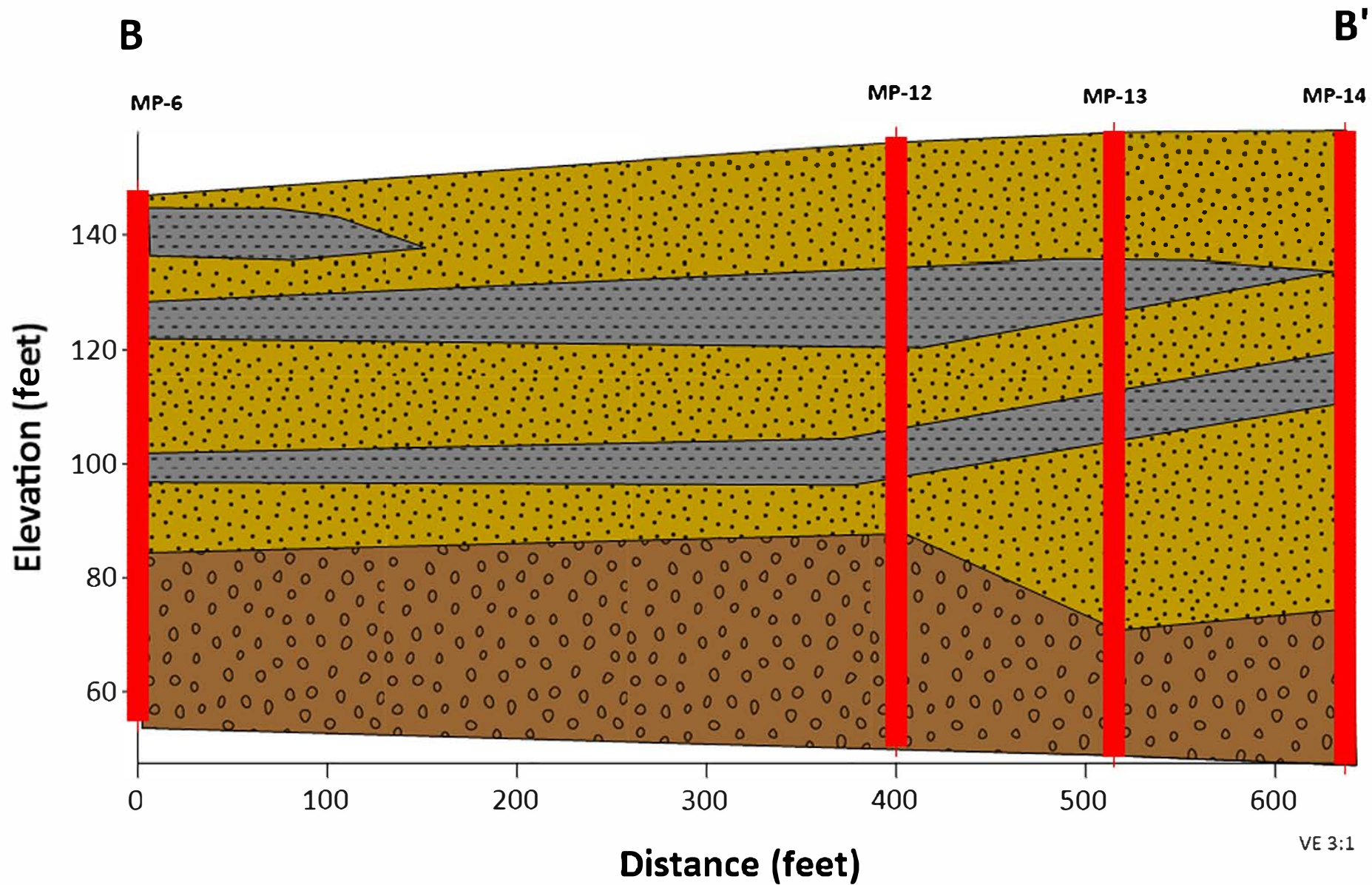
**Figure 4A**  
**Gamma Cross-section**  
Transect 2 (B - B')  
East to West



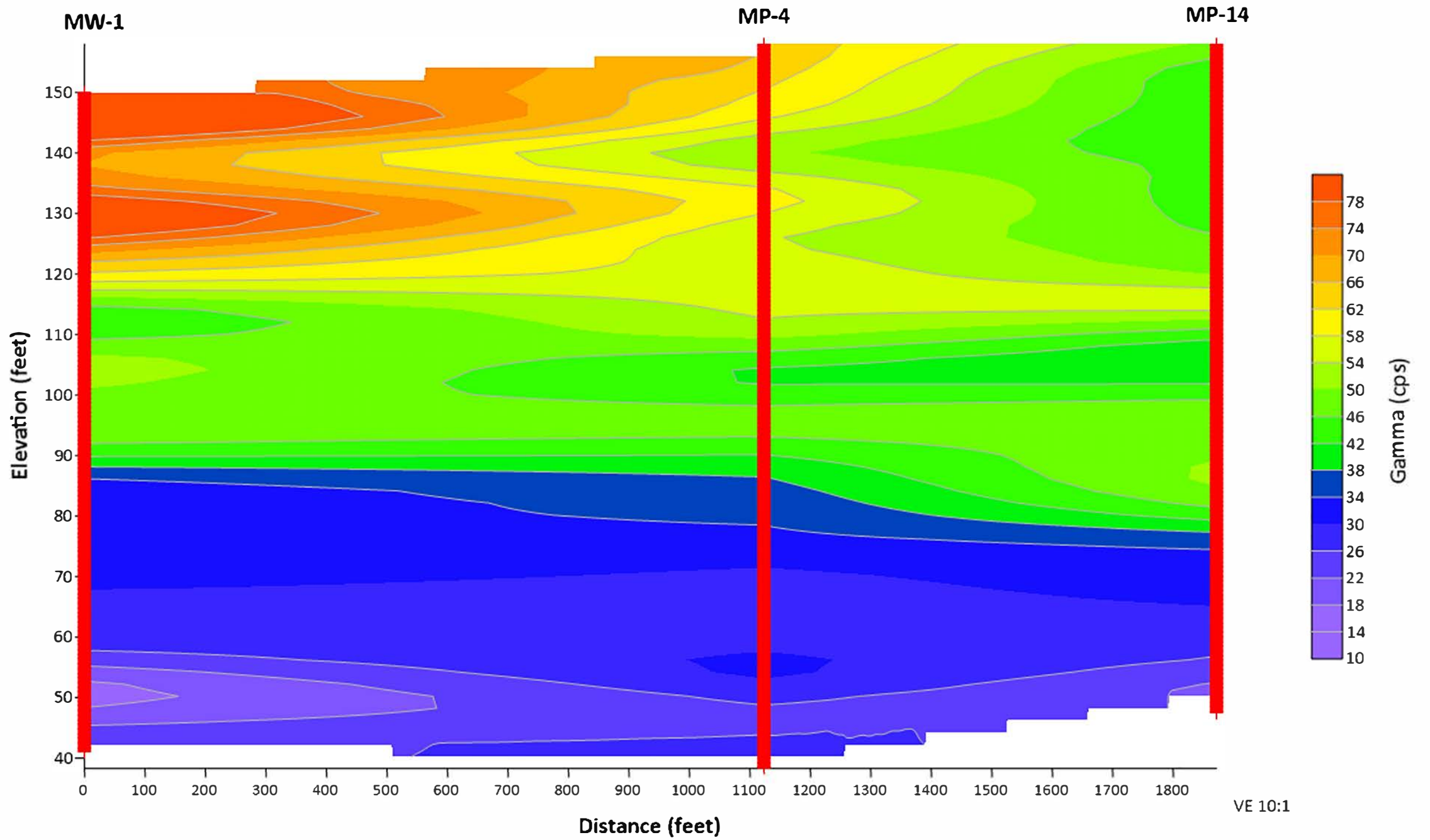
**Figure 4B**  
**Conductivity Cross-section**  
Transect 2 (B - B')  
East to West



**Figure 4C**  
**Geological Interpretation Cross-section**  
 Transect 2 (B - B')  
 East to West



**Figure 5A**  
**Gamma Model Cross-section**  
Transect 3 (C - C')  
Southwest to Northeast

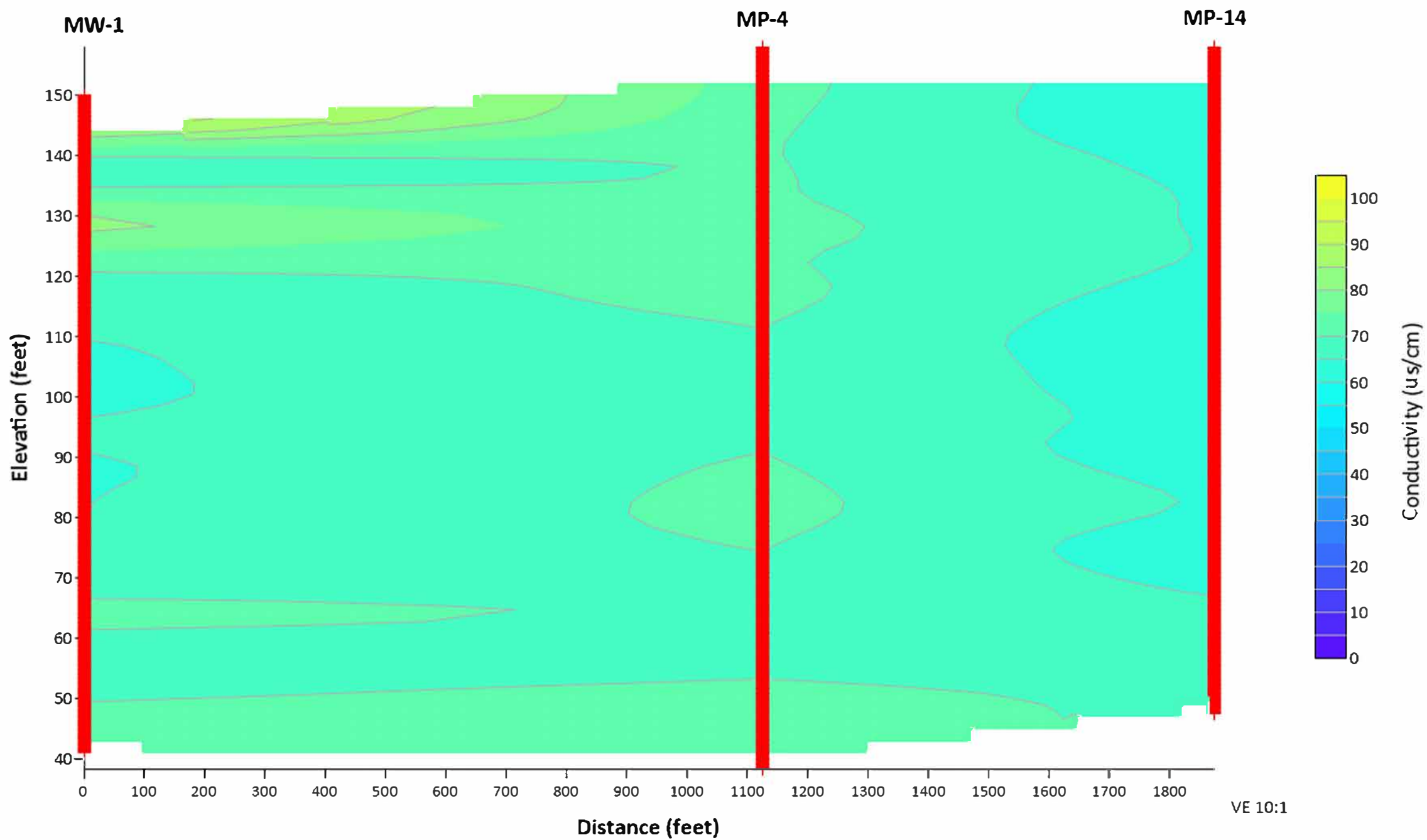




# Figure 5B

## Conductivity Model Cross-section

Transect 3 (C - C')  
Southwest to Northeast

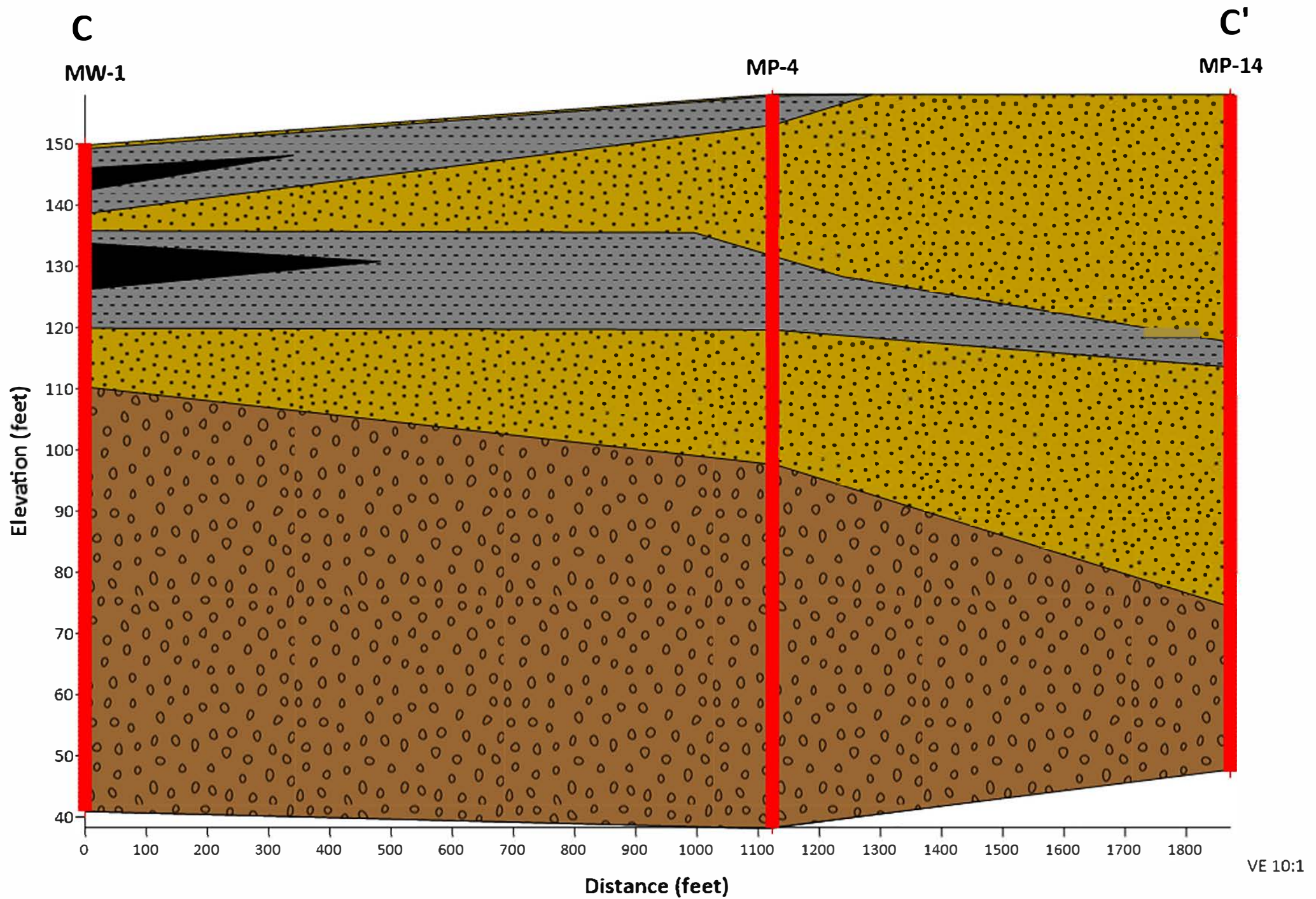


# Figure 5C

## Geology Interpretation Cross-section

### Transect 3 (C - C')

#### Southwest to Northeast



### Legend



Sand



Sand with Interspersed Silt and Clay



Coarse Sand and Gravel

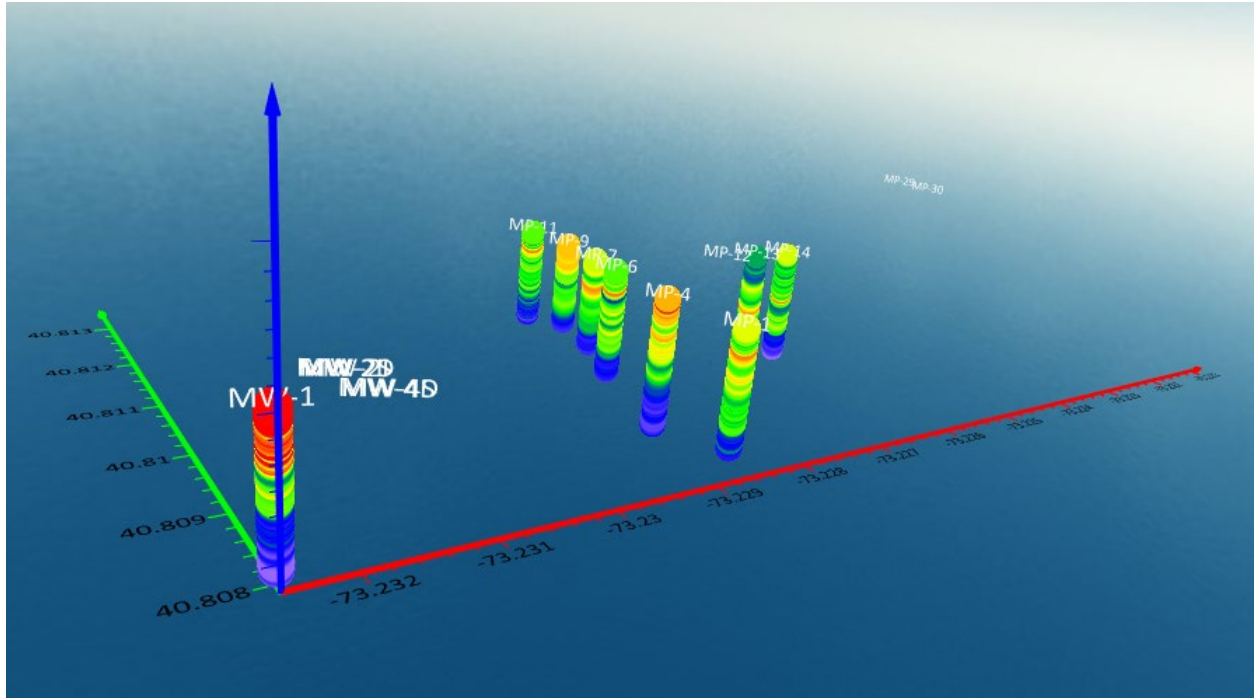


Silt and Clay



Monitoring Well

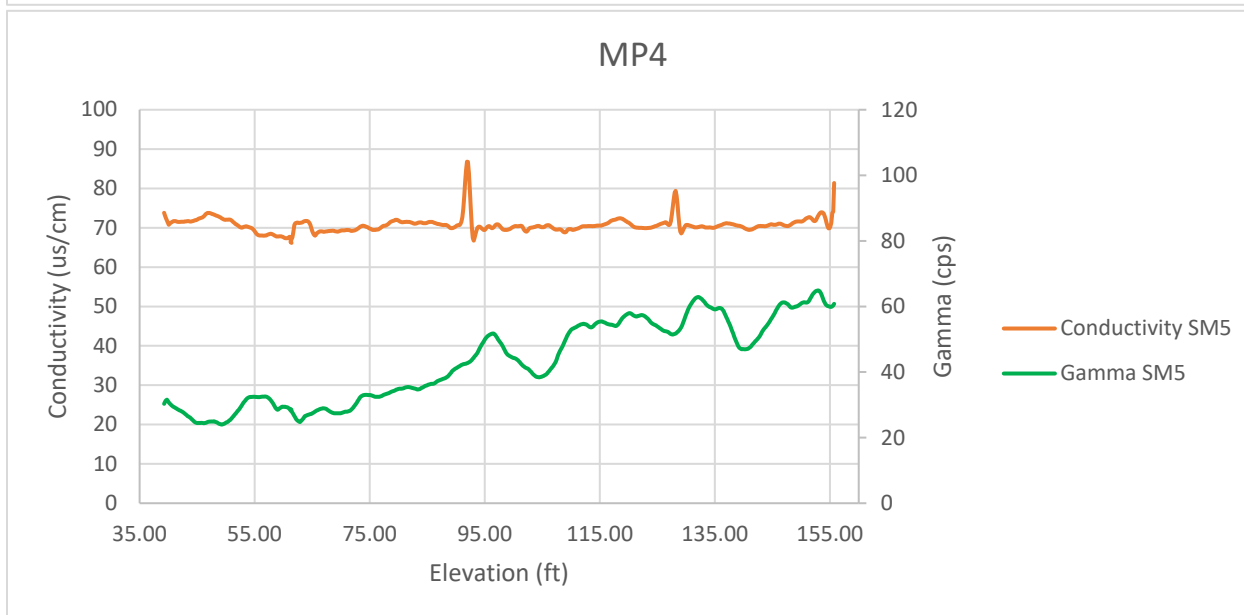
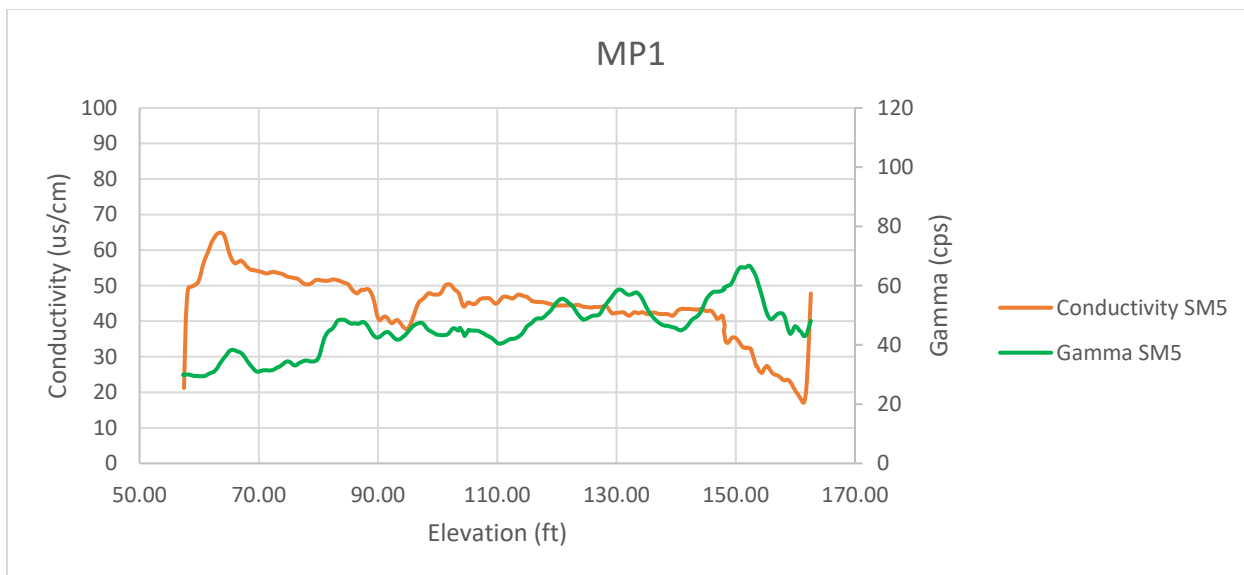
Figure 6: 3D Gamma Log of Site Wells

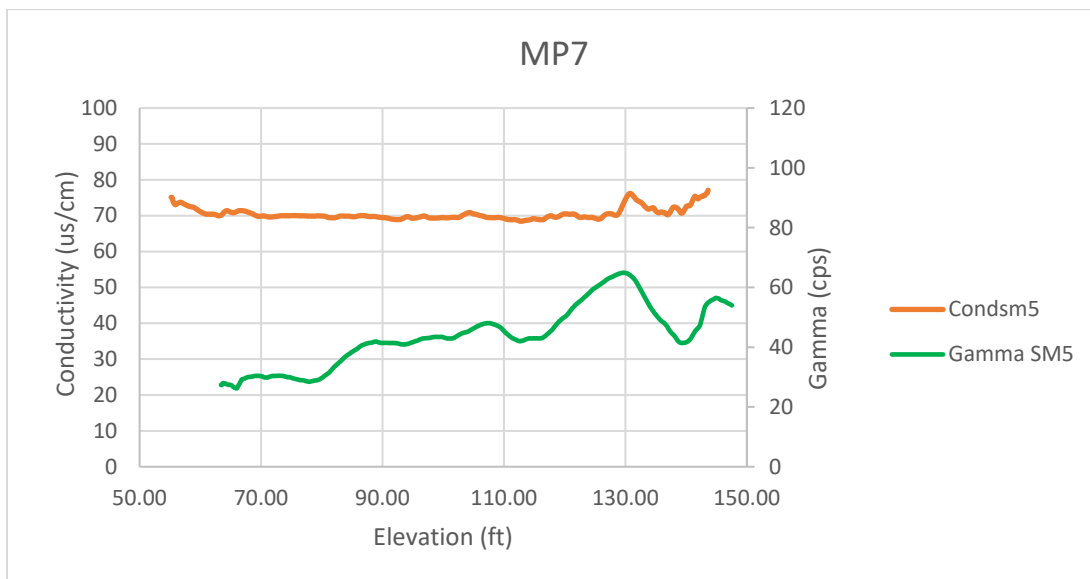
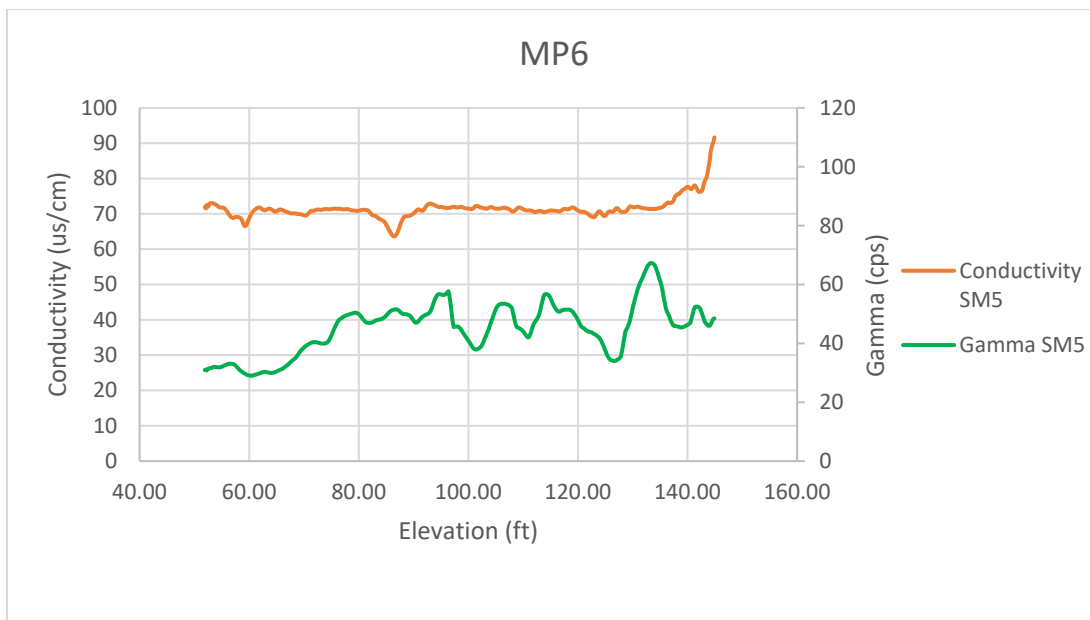


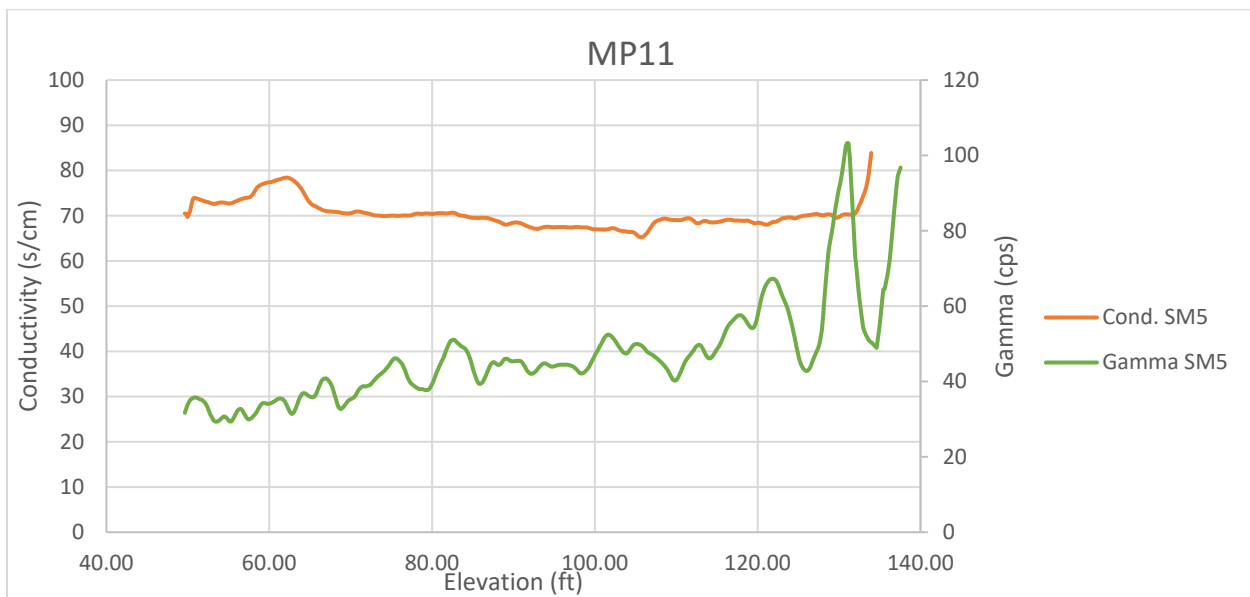
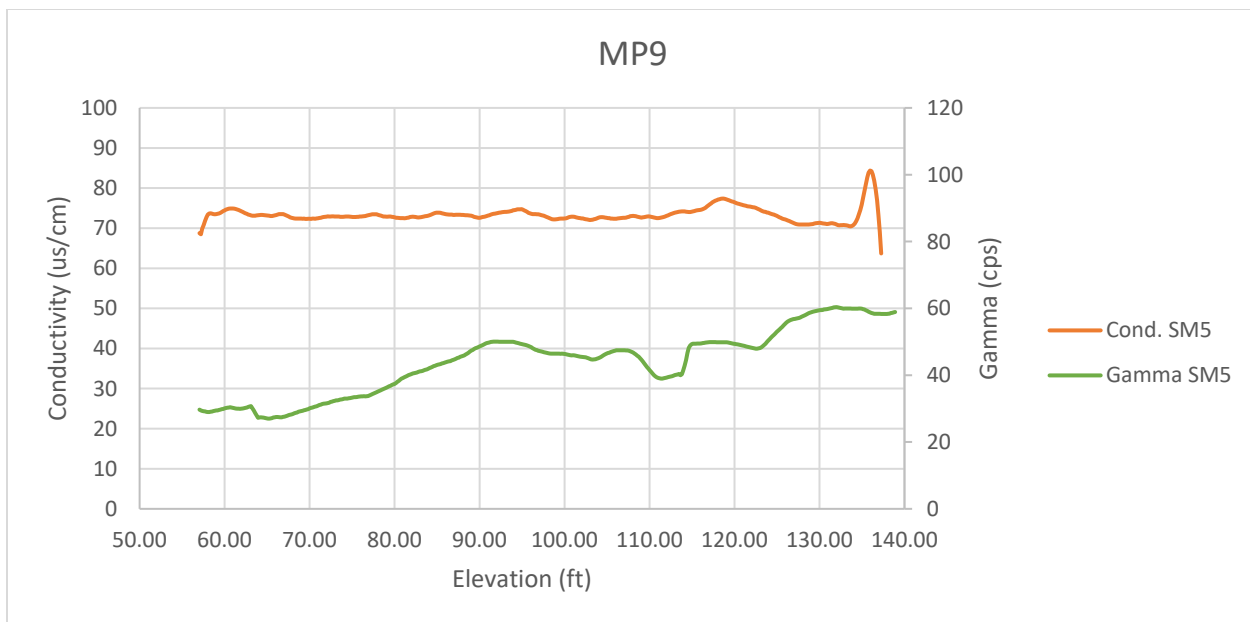
## Appendices

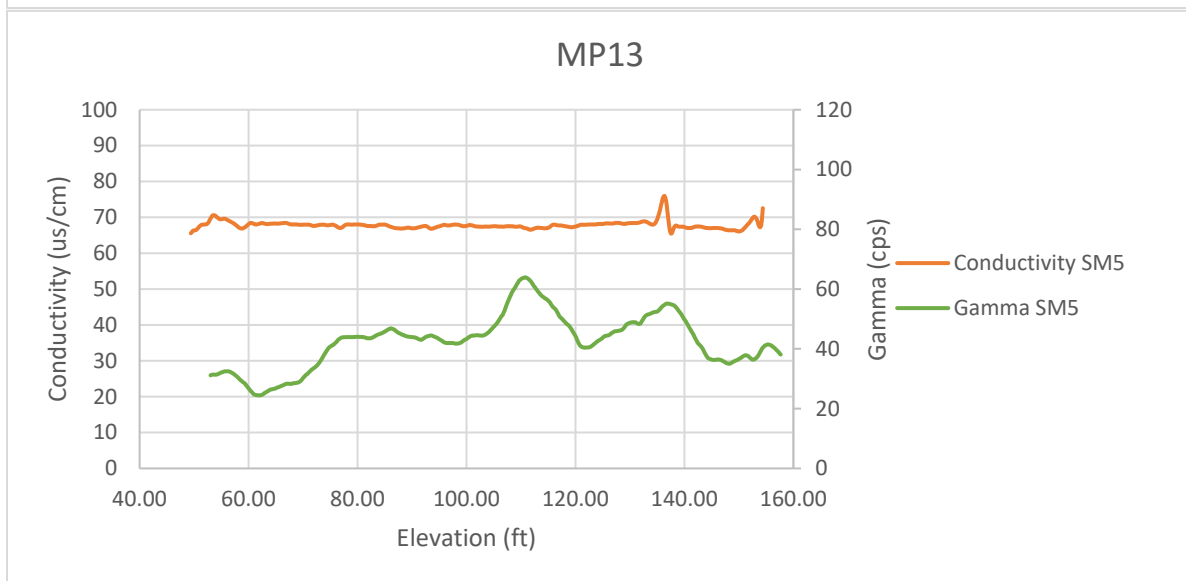
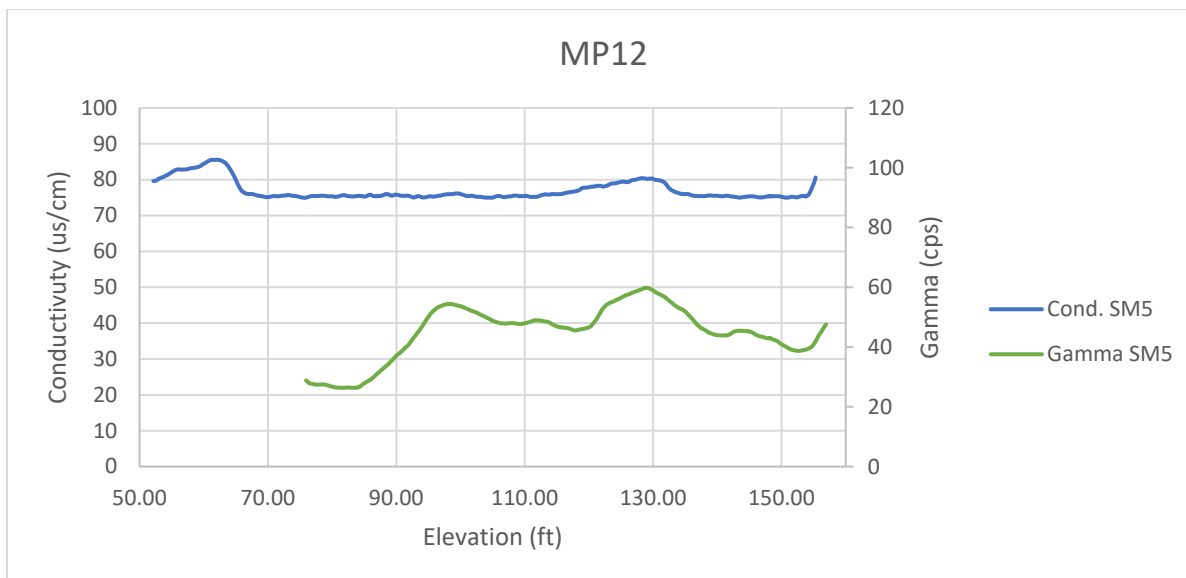
Appendix A: Gamma & Conductivity Excel Line Logs

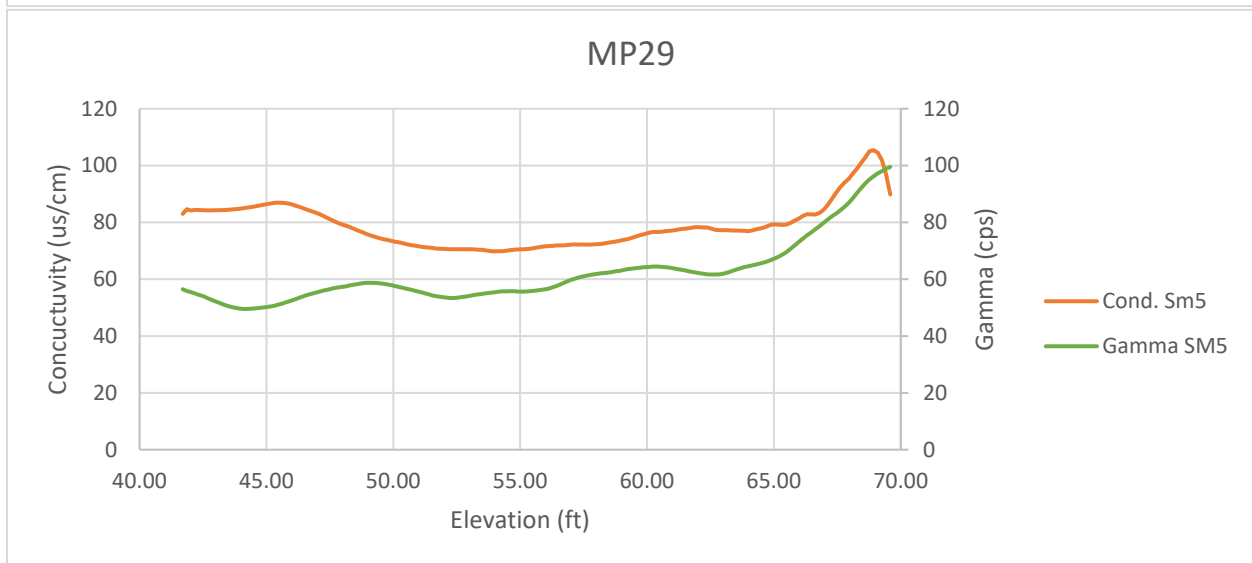
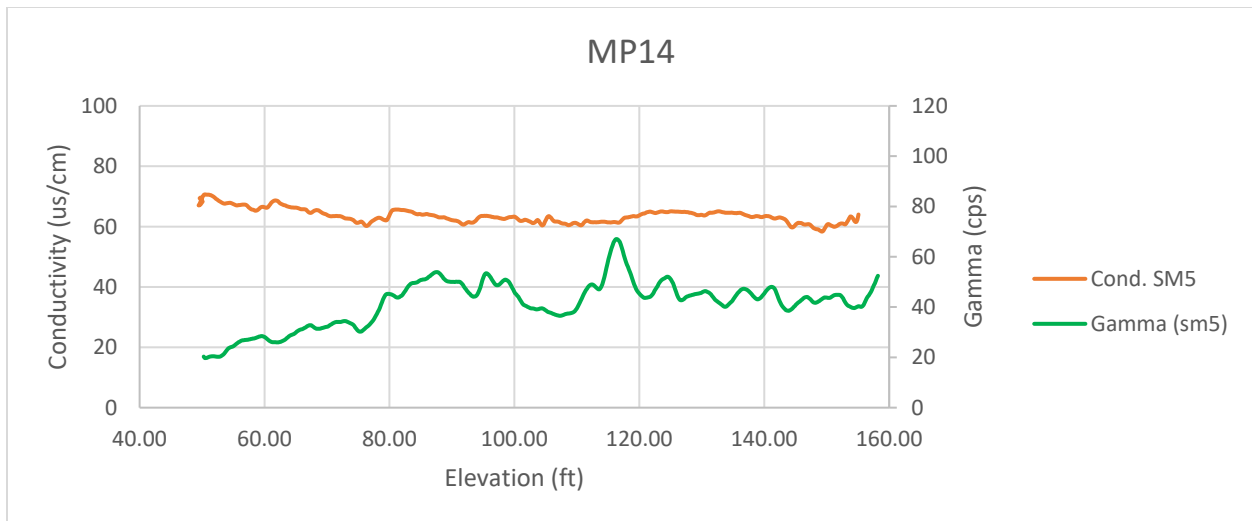




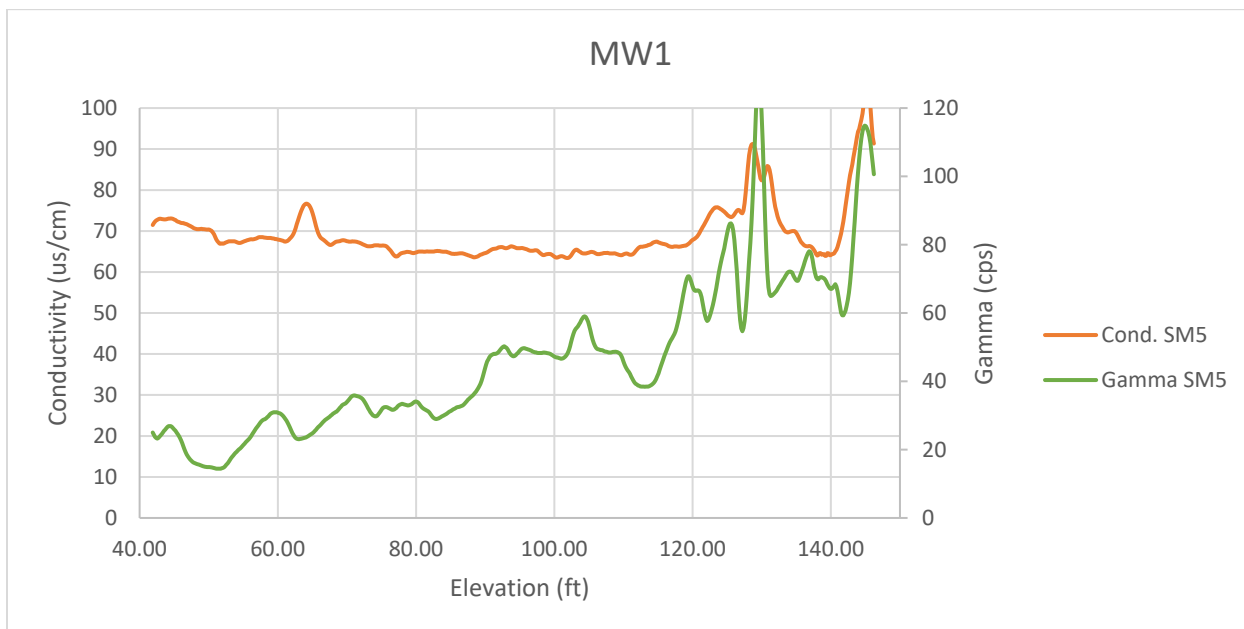
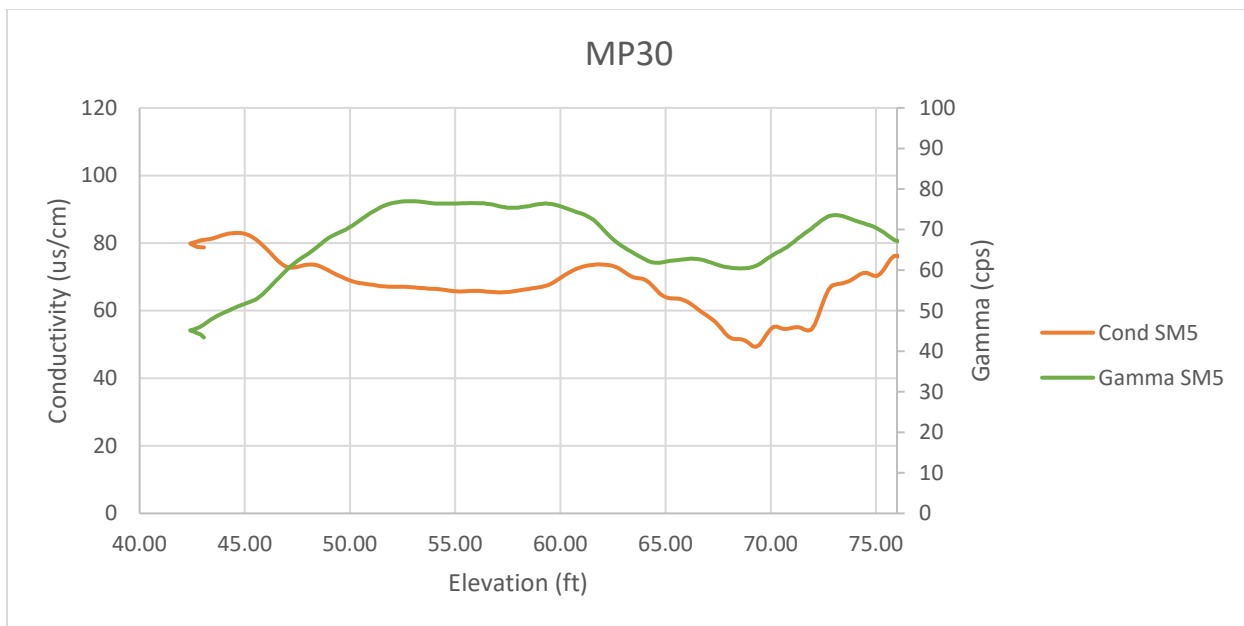












[Appendix B: 1735 Express North Drive Soil Logs August 5, 2006](#)

FPM GROUP Ronkonkoma, New York				SITE MAP
PROJECT <u>MAGGIO</u> FPM JOB # <u>894-06-01</u>				
LOCATION <u>1735 EXPWY. DR. N.</u> W.O. No. _____				
WELL No. <u>LP-4B</u>		TOTAL DEPTH <u>61'</u>	DIAMETER <u>4 1/4</u> ID	
SURFACE ELEV. _____		WATER LEVEL INITIAL _____	24-hrs _____	
SCREEN DIA. _____		LENGTH _____	SLOT SIZE _____	
CASING DIA. _____		LENGTH _____	TYPE _____	
DRILLING COMP. <u>ADT</u>		DRILLING METHOD <u>CME 75 HSA</u>	SERVICE ROAD _____	
DRILLER <u>RUDY R.</u>		LOG BY <u>B.C.</u>	DATE DRILLED <u>8/5/06</u>	LIE _____
DEPTH (FEET)	PID (ppm)	WELL CONSTRUCTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
2				
4				
6				
8				
10				
12				
14				13.5' DEPTH TO SEDIMENT. 5K GALLONS OF STORMWATER PUMPED OFF PRIOR TO DRILLING. LP-3 DRAINING TO LP-4 DURING DRILLING. AUGERS ADVANCED TO 19' WITH CENTER PLUG.
16				
18				
20	1065		SW	
22				19-21 4/5/12/12 10" RECOVERY. SW. DARK GRAY-GRAY M-C SAND, TRACE GRAVEL, SOLVENT ODOR. MOIST.
24	58		SM	
26				24-26 10/13/15/16 14" RECOVERY. SM. GRAY-TAN M-F SILTY SAND. TRACE GRAVEL. SOLVENT ODOR. MOIST.
28				
30	46		SM	
32				29-31 6/6/9/8 10" RECOVERY. SM. TAN M-F SILTY SAND. TRACE GRAVEL. FAINT SOLVENT ODOR. MOIST.
34				
36	38		SW	
38				34-36 13/24/39/42 12" RECOVERY. SW. TAN M-F SAND. LITTLE SILT & GRAVEL. FAINT SOLVENT ODOR. DAMP.
40	13		SW/SP	
42				39-41 2/10/15/25 8" RECOVERY. TOP 5" SW. TAN M-C SAND, SOME GRAVEL. BOTTOM 3" SP. TAN M SAND. TRACE GRAVEL. FAINT ODOR. DAMP.
44	8		SW	
46				
48				44-46 11/21/35/25 8" RECOVERY. SW. TAN M-C SAND. LITTLE GRAVEL. FAINT SOLVENT ODOR. DAMP.
50				
52				

H:\MAGGIO\DRILLING LOG LP-4B.dwg, 8/7/2006 4:40:40 PM, 1:1

FPM GROUP Ronkonkoma, New York				SITE MAP
PROJECT <u>MAGGIO</u> FPM JOB # <u>894-06-01</u>				
LOCATION <u>1735 EXPWY. DR. N.</u> W.O. No. _____				
WELL No. <u>LP-4B</u>		TOTAL DEPTH <u>61</u>	DIAMETER <u>4 1/4</u> ID	
SURFACE ELEV. _____		WATER LEVEL INITIAL _____	24-hrs _____	
SCREEN DIA. _____		LENGTH _____	SLOT SIZE _____	
CASING DIA. _____		LENGTH _____	TYPE _____	
DRILLING COMP. <u>ADT</u>		DRILLING METHOD <u>CME 75 HSA</u>	SERVICE ROAD	
DRILLER <u>RUDY R.</u>		LOG BY <u>B.C.</u>	DATE DRILLED <u>8/5/06</u>	LIE
DEPTH (FEET)	PID (ppm)	WELL CONSTRUCTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
50	3		SW	49-51 13/30/38/36 10" RECOVERY. SW. SAME AS 44-46.
52				
54	5		SW	54-56 7/22/24/32 10" RECOVERY. SW. SAA.
56				
58				59-61 9/16/21/32 9" RECOVERY. SW. SAA, EXCEPT SOME GRAVEL.
60	4		SW	61 END OF BORING.
62				
				PULL AUGERS OUT TO 30' B.G. HOLE COLLAPSED. CHECK W/ TAPE. GROUT 30'-15' B.G.

H:\MAGGIO\BORING LOG LP-4B-CONT.dwg, 8/7/2006 4:51:37 PM, 1:1

Appendix C: 1735 Express Drive North Well Logs October 7, 2010

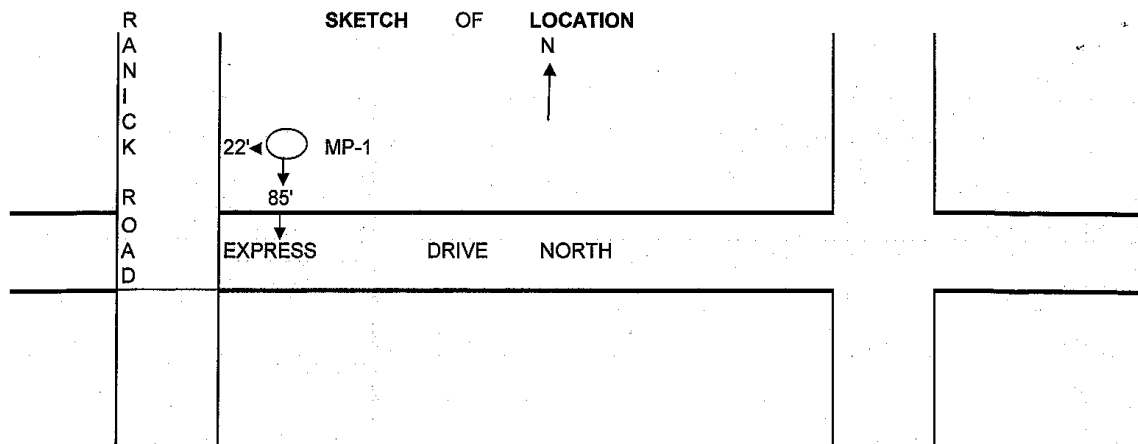


County Suffolk MP-1 20100116 Well Number S-180072

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>98.90'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>115'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m. against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES		ft. of total head _____
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER in. _____	DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger	USE OF WATER Test	
WORK STARTED <b>10/7/2010</b>	COMPLETED <b>10/7/2010</b>	
DATE <b>10/7/2010</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
<p>*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.</p>		

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH				MP-1	20100116
1) Community	Happaugue		2) N.Y.S. Well#	S-180072	
3) Township	Islip		4) Lat, Long.&Seq.#	N40.80829	
5) Owner	Suffolk County Department of Health Services			W073.22871	
6) Address	220 Rabro Drive East		Hauppauge	N.Y.	
7) Completion Date of Well	10/7/2010		8) Aquifer Screened	110'-115'	
9) Des. of MP					
10) Elev. of MP >			11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"	
14) Well Depth	Profile		15) Screened Interval	5'	
16) Type of Well	PVC		17) Depth to Water	98.90'	
18) Use of Well			19) Quadrangle Name		
Sketch By	L Velasquez		Date	10/7/2010	
			Hagstrom Map	15-W-17	

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

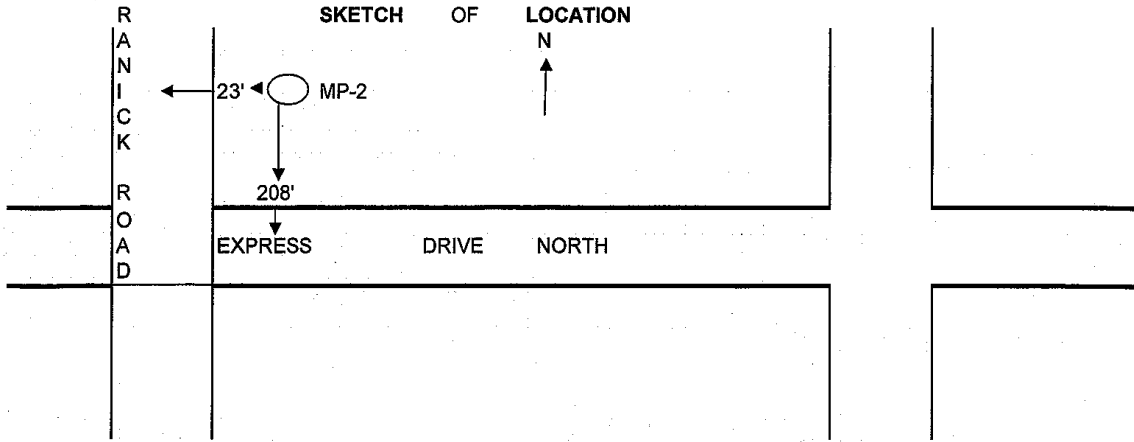
County Suffolk MP-2 20100117 Well Number S-130073

**COMPLETION REPORT-LONG ISLAND WELL**

S-130073

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>96.50'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>165'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m. against _____	ft. of discharge head _____
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test
WORK STARTED <b>10/8/2010</b>	COMPLETED <b>10/8/2010</b>	
DATE <b>10/8/2010</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
 showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold



LOCATION SKETCH		MP-2	20100117
1) Community	Happauge	2) N.Y.S. Well#	S-130073
3) Township	Islip	4) Lat, Long.&Seq,#	N40.80863
5) Owner	Suffolk County Department of Health Services		W073.22871
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	10/8/2010	8) Aquifer Screened	160'-165'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	Profile 170'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	96.50'
18) Use of Well	Profile	19) Quadrangle Name	

The diagram shows a plan view of the well locations. A vertical line represents RANICK ROAD. A horizontal line at the bottom represents EXPRESS DRIVE NORTH. Another horizontal line below that represents 495 WEST. Two wells are marked with circles: MP-2 is located 23 feet west of RANICK ROAD and 123 feet north of MP-1. MP-1 is located 22 feet west of RANICK ROAD and 85 feet north of 495 WEST. A rectangular building is shown to the east of the wells. A north arrow points upwards.

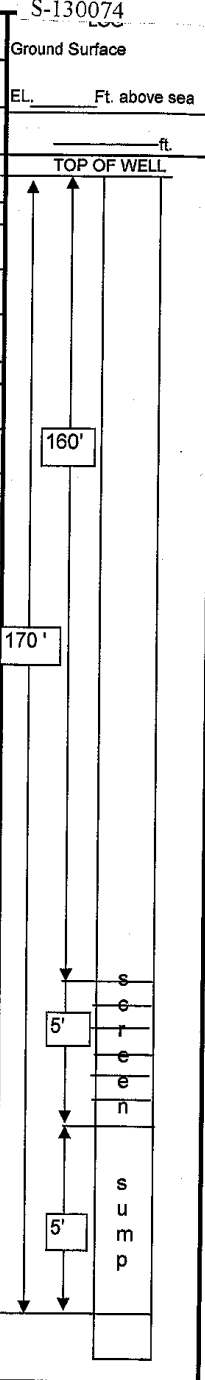
Sketch By	L Velasquez	Date	10/8/2010	Hagstrom Map	15-W-17
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

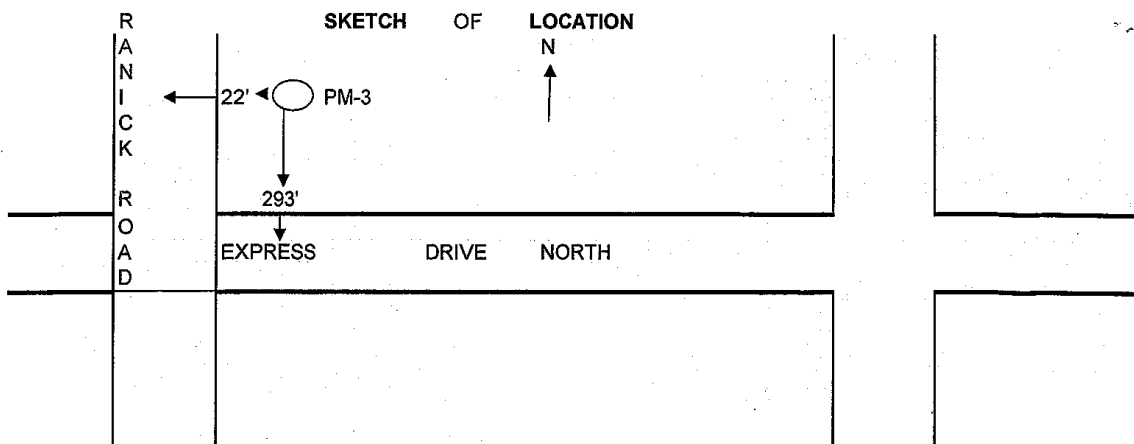
County Suffolk MP-3 20100118 Well Number S-130074

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER Suffolk County Department of Health Services		Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Ranick road, Happaugue			
Depth of Well Below Surface 170'		Depth to Groundwater From Surface 94.0'	
CASING			
Diameter 2" in.   in.   in.   in.		ft.	
Length 165' ft.   ft.   ft.   ft.		ft.	
SEALING		OPENINGS	
SCREEN			
Make Johnson		OPENINGS 10slot	
Diameter 2" in.   in.   in.   in.		ft.	
Length 5' ft.   ft.   ft.   ft.		ft.	
DEPTH TO TOP FROM TOP OF CASING			
PUMP TEST			
DATE		TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____		MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   in.		LEVEL DURING MAXIMUM PUMPING ft.   in.	
MAXIMUM DRAWDOWN ft.		Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED			
TYPE		MAKE	MODEL NUMBER
MOTIVE POWER		MAKE	H.P.
Capacity g.p.m.against _____ ft. of discharge head			
NUMBER OF BOWLS OR STAGES ft. of total head _____			
DROP LINE		SUCTION LINE	
DIAMETER in.		DIAMETER in.	
Length ft.		Length in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test	
WORK STARTED 10/12/2010		COMPLETED 10/12/2010	
DATE 10/12/2010	DRILLER Luis Velasquez		REGISTRATION NO. 1854
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



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Location will with respect to at least two streets or roads  
 showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- |                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> Hempstead | <input type="checkbox"/> North Hempstead | <input type="checkbox"/> Oyster Bay |
|------------------------------------|--|-------------------------------------|

**Suffolk County**

- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Babylon        | <input type="checkbox"/> Brookhaven       | <input type="checkbox"/> East Hampton |
| <input type="checkbox"/> Huntington     | <input checked="" type="checkbox"/> Islip | <input type="checkbox"/> Riverhead    |
| <input type="checkbox"/> Shelter Island | <input type="checkbox"/> Smithtown        | <input type="checkbox"/> Southampton  |
| <input type="checkbox"/> Southold       |   |                                       |

LOCATION SKETCH		MP-3	20100118
1) Community	Happauge	2) N.Y.S. Well#	5-130074
3) Township	Islip	4) Lat, Long.&Seq.#	N40.80891
5) Owner	Suffolk County Department of Health Services		W073.22871
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	10/12/2010	8) Aquifer Screened	160'-165'
9) Des. of MP			
10) Elev. of MP>	11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	Profile	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	94.0'
18) Use of Well	Profile	19) Quadrangle Name	

The diagram shows a vertical road labeled 'RANLICK ROAD' on the left. Three monitoring points (MP-1, MP-2, MP-3) are located to the right of the road. MP-1 is 22' from the road, 85' from MP-2, and 85' from the bottom boundary. MP-2 is 23' from the road and 23' from MP-1. MP-3 is 22' from the road and 85' from MP-2. A building is shown to the right of the road. A north arrow is in the top left. The road is labeled 'EXPRESS DRIVE NORTH' and '495 WEST'.

Sketch By	L Velasquez	Date	10/12/2010	Hagstrom Map	15-W-17
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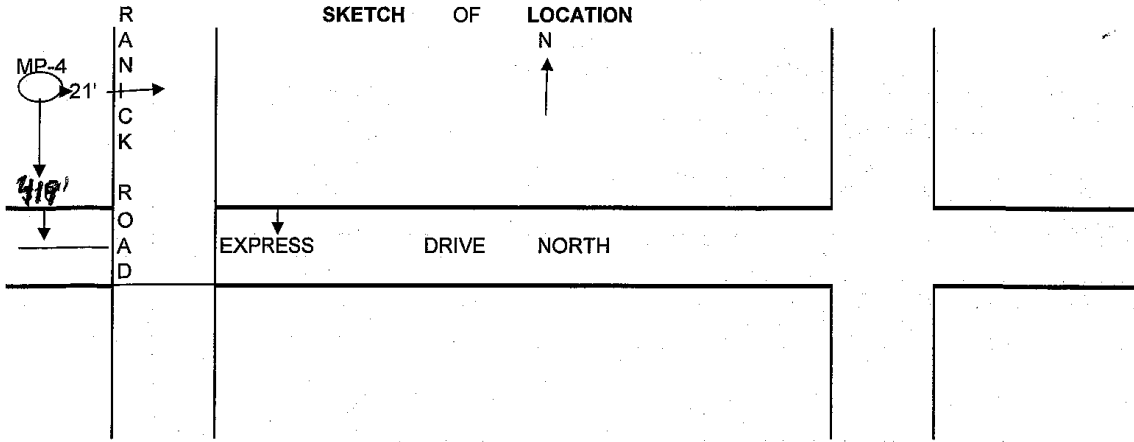
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-4 20100119 Well Number S-130075  
**COMPLETION REPORT-LONG ISLAND WELL** S-130075

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>91.50'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>165' ft.</b>	_____ ft.	_____ ft.
SEALING		OPENINGS
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>5' ft.</b>	_____ ft.	_____ ft.
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST _____ days _____ hours	MAXIMUM DISCHARGE _____ gallons per min.	
STATIC LEVEL PRIOR TO TEST _____ ft.	LEVEL DURING MAXIMUM PUMPING _____ ft.	
MAXIMUM DRAWDOWN _____ ft.	Approx. time of return level after of pumping _____ hours _____ min.	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity _____ g.p.m.against _____ ft. of discharge head		
NUMBER OF BOWLS OR STAGES _____ ft. of total head		
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>	
WORK STARTED <b>10/13/2010</b>	COMPLETED <b>10/13/2010</b>	
DATE <b>10/13/2010</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy





Location will with respect to at least two streets or roads showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton
- Huntington       Islip       Riverhead
- Shelter Island       Smithtown       Southampton
- Southold

LOCATION SKETCH		MP-4	20100119
1) Community	Happauge	2) N.Y.S. Well#	<i>S-120075</i>
3) Township	Islip	4) Lat, Long.&Seq.#	N40.80919
5) Owner	Suffolk County Department of Health Services		W073.22877
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	10/13/2010	8) Aquifer Screened	160'-165'
9) Des. of MP			
10) Elev. of MP>	11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	Profile	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	91.50'
18) Use of Well	Profile	19) Quadrangle Name	

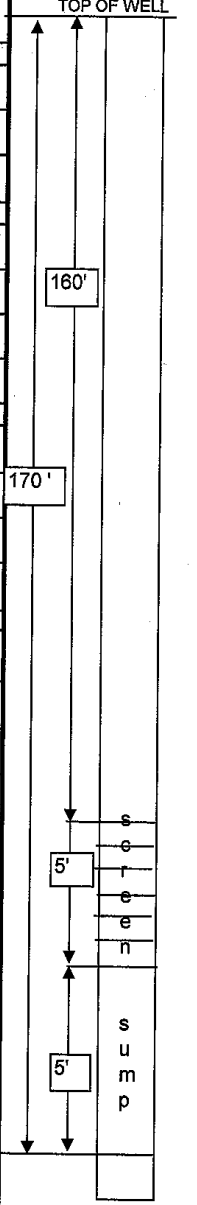
The diagram shows a plan view of the well locations. A vertical road labeled 'RANICK ROAD' runs through the center. To the left of the road is 'EXPRESS DRIVE NORTH' and to the right is '495 WEST'. Well MP-4 is located on the left side of RANICK ROAD, 21 feet from the road. Well MP-3 is on the right side, 22 feet from the road. Well MP-2 is on the right side, 23 feet from the road. Well MP-1 is on the right side, 22 feet from the road. Vertical distances between wells on the right side are: 85 feet between MP-3 and MP-2, 23 feet between MP-2 and MP-1, and 85 feet between MP-1 and the 495 WEST road. Two buildings are shown, one on each side of RANICK ROAD. A handwritten '479' is written near the bottom of the vertical line from MP-4 to the road.

Sketch By	L Velasquez	Date	10/13/2010	Hagstrom Map	15-W-17
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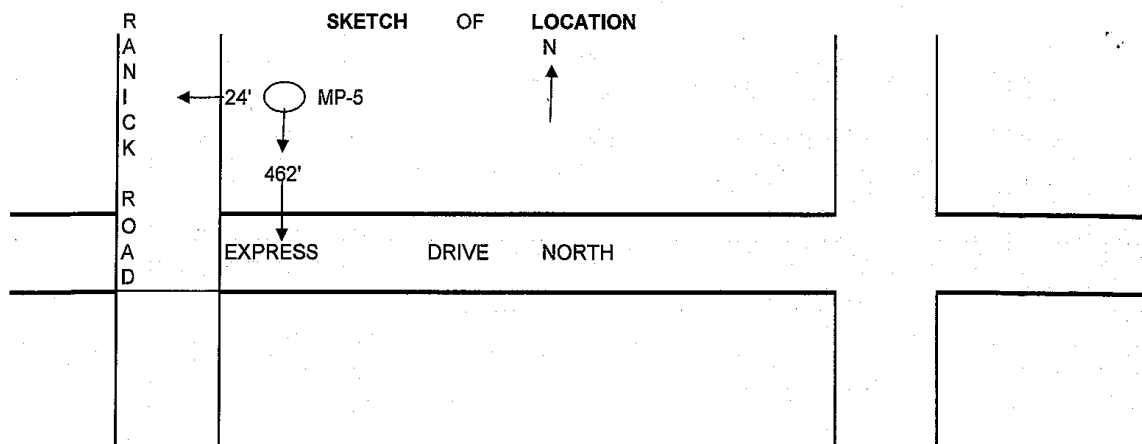
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-5 20100120 Well Number S-130076

COMPLETION REPORT-LONG ISLAND WELL		S-130076	
OWNER Suffolk County Department of Health Services		LOG Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Ranick road, Happaugue		_____ ft.	
Depth of Well Below Surface 170'	Depth to Groundwater From Surface 88.40'	TOP OF WELL	
CASING			
Diameter 2" in.	_____ in.	_____ in.	_____ in.
Length 165' ft.	_____ ft.	_____ ft.	_____ ft.
SEALING		OPENINGS	
SCREEN			
Make Johnson	OPENINGS 10slot		
Diameter 2" in.	_____ in.	_____ in.	_____ in.
Length 5' ft.	_____ ft.	_____ ft.	_____ ft.
DEPTH TO TOP FROM TOP OF CASING			
PUMP TEST			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
PUMPING INSTALLED			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity g.p.m.against _____		ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES _____		ft. of total head _____	
DROP LINE		SUCTION LINE	
DIAMETER _____ in.		DIAMETER _____ in.	
Length _____ ft.		Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test	
WORK STARTED 10/14/2010		COMPLETED 10/14/2010	
DATE 10/14/2010	DRILLER Luis Velasquez	REGISTRATION NO. 1854	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead
- North Hempstead
- Oyster Bay

**Suffolk County**

- Babylon
- Brookhaven
- East Hampton
- Huntington
- Islip
- Riverhead
- Shelter Island
- Smithtown
- Southampton
- Southold

LOCATION SKETCH		MP-5	20100120
1) Community	Happauge	2) N.Y.S. Well#	S-130076
3) Township	Islip	4) Lat, Long.&Seq.#	N40.80957
5) Owner	Suffolk County Department of Health Services		W073.22863
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	10/14/2010	8) Aquifer Screened	160'-165'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	Profile	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	88.40'
18) Use of Well	Profile	19) Quadrangle Name	

Sketch By L Velasquez Date 10/14/2010 Hagstrom Map 15-W-17

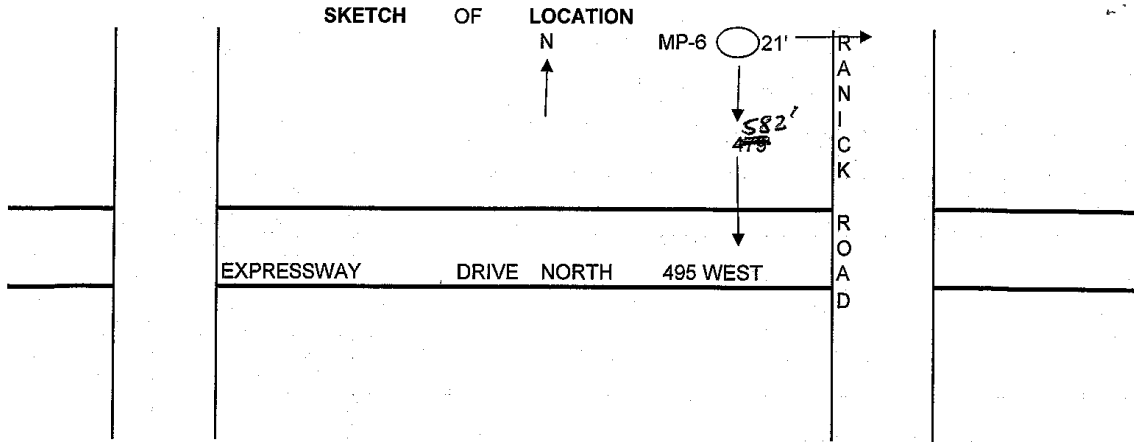


NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-6 20100121 Well Number S-130077  
**COMPLETION REPORT-LONG ISLAND WELL** S-130077

OWNER Suffolk County Department of Health Services		LOG Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL RANICK ROAD, HAPPAUGUE		_____ ft.	
Depth of Well Below Surface 170'		Depth to Groundwater From Surface 84'	
CASING		TOP OF WELL	
Diameter 2" in.   in.   in.   in.			
Length 165' ft.   ft.   ft.   ft.			
SEALING			
OPENINGS			
SCREEN			
Make Johnson		OPENINGS 10slot	
Diameter 2" in.   in.   in.   in.			
Length 5' ft.   ft.   ft.   ft.			
DEPTH TO TOP FROM TOP OF CASING			
PUMP TEST			
DATE		TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____		MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____		LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____		Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED			
TYPE		MAKE	
MOTIVE POWER		MAKE	
Capacity g.p.m. against _____		ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES		ft. of total head _____	
DROP LINE		SUCTION LINE	
DIAMETER in. _____		DIAMETER in. _____	
Length ft. _____		Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other AUGER		USE OF WATER Test	
WORK STARTED 10/17/2010		COMPLETED 10/17/2010	
DATE 10/17/2010		DRILLER Luis Velasquez	
		REGISTRATION NO. 1854	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
 showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- |                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> Hempstead | <input type="checkbox"/> North Hempstead | <input type="checkbox"/> Oyster Bay |
|------------------------------------|--|-------------------------------------|

**Suffolk County**

- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Babylon        | <input type="checkbox"/> Brookhaven       | <input type="checkbox"/> East Hampton |
| <input type="checkbox"/> Huntington     | <input checked="" type="checkbox"/> Islip | <input type="checkbox"/> Riverhead    |
| <input type="checkbox"/> Shelter Island | <input type="checkbox"/> Smithtown        | <input type="checkbox"/> Southampton  |
| <input type="checkbox"/> Southold       |   |                                       |

LOCATION SKETCH		MP-6	20100121
1) Community	HAPPAUGUE	2) N.Y.S. Well#	S-130077
3) Township	ISLIP	4) Lat, Long. & Seq.#	N 40.81007
5) Owner	Suffolk County Department of Health Services		W073.22874
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	10/17/2010	8) Aquifer Screened	180'-165'
9) Des. of MP			
10) Elev. of MP >		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	170'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	84'
18) Use of Well	Profile	19) Quadrangle Name	

N  
↑

MP ○ → 21' →

↓ 170'  
5' 496'

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EXPRESSWAY DRIVE NORTH 495 WEST

Sketch By	MATT BUZBY	Date	10/17/2010	Hagstrom Map	15-W-17
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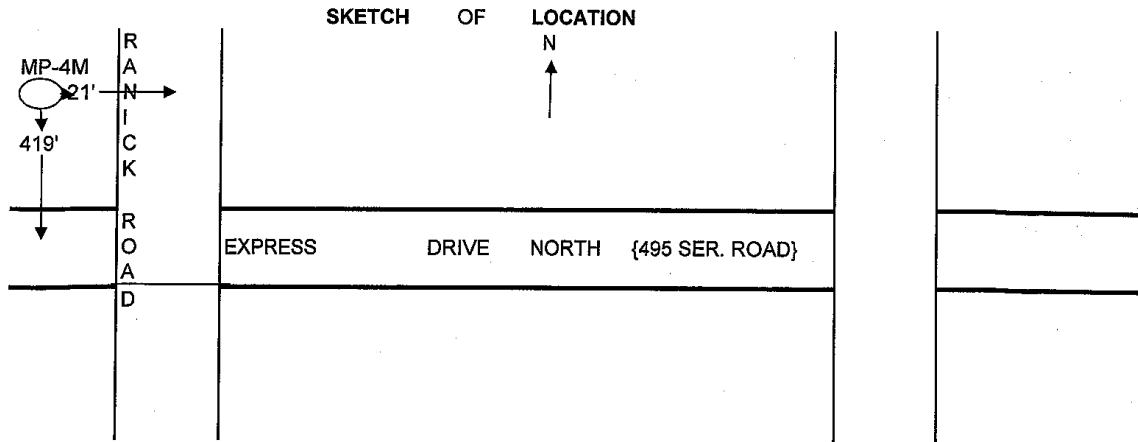
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-4M 20110001 Well Number S-170339

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>110'</b>	Depth to Groundwater From Surface <b>92.20'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		<p>0-2' Cement</p> <p>100'</p> <p>2'-5' Bentonite (pellets)</p> <p>5'-110' Gravel pack</p> <p>5' screen</p> <p>5' sump</p>
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>105'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   in.	LEVEL DURING MAXIMUM PUMPING ft.   in.	
MAXIMUM DRAWDOWN ft.	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER in.	DIAMETER in.	
Length ft.	Length in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <input type="checkbox"/> Test
WORK STARTED <b>1/5/2011</b>	COMPLETED <b>1/5/2011</b>	
DATE <b>1/5/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
 showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH		MP-4M	20110001	5-130339
1) Community	Happauge	2) N.Y.S. Well#	N40.809208	
3) Township	Islip	4) Lat, Long & Seq, #	w073.228750	
5) Owner	Suffolk County Department of Health Services			
6) Address	220 Rabro Drive East	Hauppauge	N.Y.	
7) Completion Date of Well	1/5/2011	8) Aquifer Screened	100'-105'	
9) Des. of MP				
10) Elev. of MP >	11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"
14) Well Depth	110'	15) Screened Interval	5'	
16) Type of Well	PVC	17) Depth to Water	92.20'	
18) Use of Well	Test	19) Quadrangle Name		

The diagram is a site sketch showing the location of well MP-4M. A north arrow points upwards. To the left is a rectangular area labeled 'BUILDING'. A circle representing the well 'MP-4M' is located to the right of the building. A horizontal line labeled 'RANICK ROAD' runs vertically through the well. A horizontal line labeled 'RASON COURT' is to the right of RANICK ROAD. A horizontal line labeled 'EXPRESS DRIVE NORTH [495 WES SERVICE ROAD]' runs horizontally below the well. A vertical line with a downward arrow indicates a distance of 419' from the well to the bottom of the page. A horizontal line with a rightward arrow indicates a distance of 21' from the well to RANICK ROAD.

Sketch By	L Velasquez	Date	1/5/2011	Hagstrom Map
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

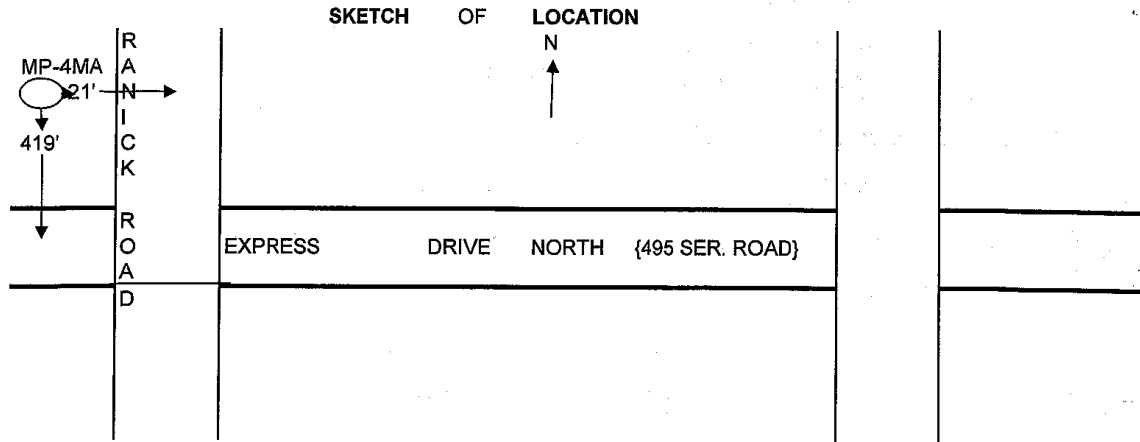
County Suffolk MP-4MA 20110002 Well Number 5-130340 *Maggio*

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>92.20'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		<p>110'</p> <p>0-2' Cement</p> <p>2'-5' Bentonite (pellets)</p> <p>120'</p> <p>5'-120' Gravel pack</p> <p>5'</p> <p>s c r e e n</p> <p>s u m p</p>
Diameter <b>2" in.</b>	_____ in.	
Length <b>115' ft.</b>	_____ ft.	
SEALING		
OPENINGS		
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2" in.</b>	_____ in.	
Length <b>5' ft.</b>	_____ ft.	
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES		ft. of total head _____
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>1/6/2011</b>	COMPLETED	
DATE <b>1/6/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy





Location will with respect to at least two streets or roads showing distance from corner and front of lot.

**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH		MP-4MA 20110002	<i>S-170340</i>
1) Community	Happauge	2) N.Y.S. Well#	N40.809152
3) Township	Islip	4) Lat, Long.&Seq.#	w073.228778
5) Owner	Suffolk County Department of Health Services		
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	1/6/2011	8) Aquifer Screened	110'-115'
9) Des. of MP			
10) Elev. of MP >	11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	120'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	92.20'
18) Use of Well	Test	19) Quadrangle Name	

R A N I C K R O A D

R A S O N C O U R T

EXPRESS DRIVE NORTH [495 WEST SERVICE ROAD]

Sketch By	L Velasquez	Date	1/6/2011	Hagstrom Map
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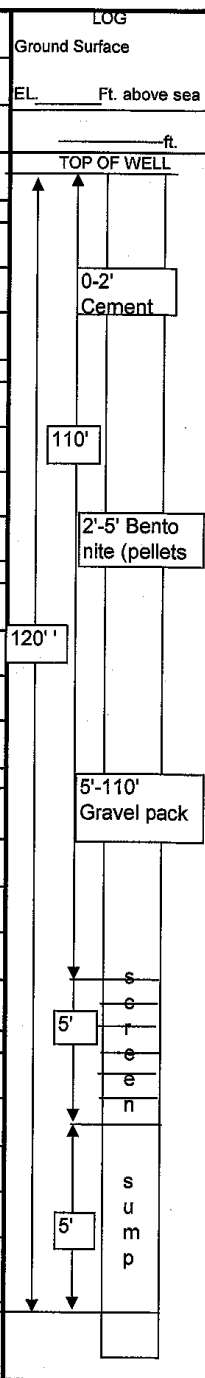
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

*Maggro*

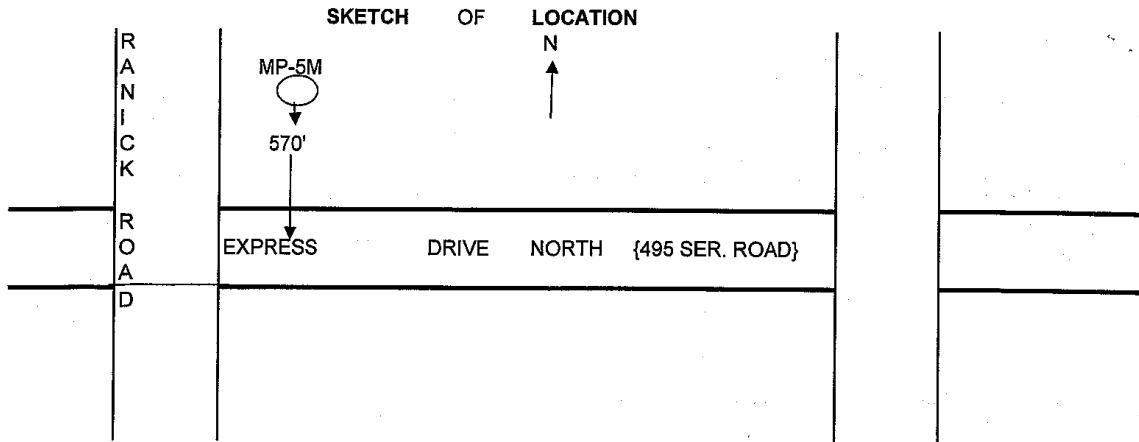
County Suffolk MP-5M 20110003 Well Number J-170341

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>89.60'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2" in.</b>		
Length <b>115' ft.</b>		<b>0-2' Cement</b>
<b>SEALING</b>		
<b>OPENINGS</b>		
<b>SCREEN</b>		
Make <b>Johnson</b>	<b>OPENINGS</b> <b>10slot</b>	
Diameter <b>2" in.</b>		<b>110'</b>
Length <b>5' ft.</b>		<b>2'-5' Bento nite (pellets)</b>
<b>DEPTH TO TOP FROM TOP OF CASING</b>		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	<b>120'</b>
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		
DIAMETER in. _____	<b>SUCTION LINE</b>	
Length ft. _____	DIAMETER in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>1/11/2011</b>	COMPLETED <b>1/11/2011</b>	
DATE <b>1/11/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		



ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- |                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> Hempstead | <input type="checkbox"/> North Hempstead | <input type="checkbox"/> Oyster Bay |
|------------------------------------|--|-------------------------------------|

**Suffolk County**

- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Babylon        | <input type="checkbox"/> Brookhaven       | <input type="checkbox"/> East Hampton |
| <input type="checkbox"/> Huntington     | <input checked="" type="checkbox"/> Islip | <input type="checkbox"/> Riverhead    |
| <input type="checkbox"/> Shelter Island | <input type="checkbox"/> Smithtown        | <input type="checkbox"/> Southampton  |
| <input type="checkbox"/> Southold       |   |                                       |

LOCATION SKETCH				MP-5M	20110003	<i>S-1 30341</i>
1) Community	Happauge		2) N.Y.S. Well#	N40.80980937		
3) Township	Islip		4) Lat, Long.&Seq.#	w073.228778		
5) Owner	Suffolk County Department of Health Services					
6) Address	220 Rabro Drive East		Hauppauge	N.Y.		
7) Completion Date of Well	1/5/2011		8) Aquifer Screened	110'-115'		
9) Des. of MP						
10) Elev. of MP>			11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"		
14) Well Depth	120'		15) Screened Interval	5'		
16) Type of Well	PVC		17) Depth to Water	89.60'		
18) Use of Well	Test		19) Quadrangle Name			

The sketch shows a plan view of the well locations. A north arrow points upwards. A vertical line represents RANICK ROAD. To the left of the road is a rectangular area labeled 'BUILDING'. Well MP-4M is located to the left of RANICK ROAD, with a horizontal distance of 21 feet from the road and a vertical depth of 419 feet. Well MP-5M is located to the right of RANICK ROAD, with a horizontal distance of 24 feet from the road and a vertical depth of 570 feet. At the bottom of the sketch, a horizontal line represents EXPRESS DRIVE NORTH, with a bracketed section labeled [495 WES SERVICE ROAD].

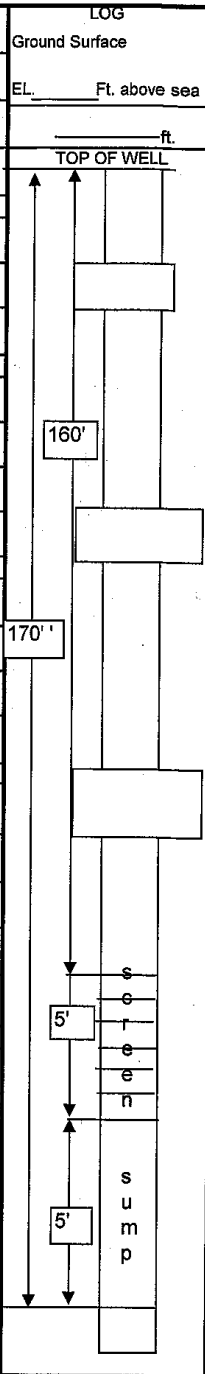
Sketch By	L Velasquez	Date	1/11/2011	Hagstrom Map
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

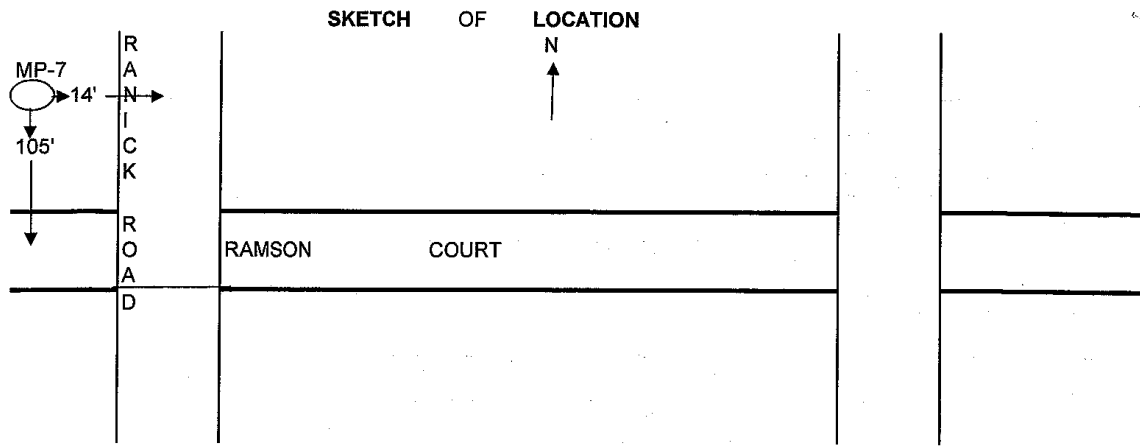
County Suffolk MP-7 20110004 Well Number S-170392 MAGGIO

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>81.10'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>165'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST _____ days _____ hours	MAXIMUM DISCHARGE _____ gallons per min.	
STATIC LEVEL PRIOR TO TEST _____ ft.   _____ in.	LEVEL DURING MAXIMUM PUMPING _____ ft.   _____ in.	
MAXIMUM DRAWDOWN _____ ft.	Approx. time of return level after of pumping _____ hours _____ min.	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity _____ g.p.m. against _____ ft. of discharge head		
NUMBER OF BOWLS OR STAGES _____ ft. of total head		
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>1/19/2011</b>	COMPLETED <b>1/19/2011</b>	
DATE <b>1/19/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		



ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
 showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold



LOCATION SKETCH		MP-7	20110004	<i>P-130342</i>
1) Community	Happauge	2) N.Y.S. Well#	N40.810371	
3) Township	Islip	4) Lat, Long.&Seq.#	w073.228737	
5) Owner	Suffolk County Department of Health Services			
6) Address	220 Rabro Drive East Hauppauge N.Y.			
7) Completion Date of Well	1/19/2011	8) Aquifer Screened	160'-165'	
9) Des. of MP				
10) Elev. of MP >	11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"	
14) Well Depth	170'	15) Screened Interval	5'	
16) Type of Well	PVC	17) Depth to Water	81.90'	
18) Use of Well	Profile	19) Quadrangle Name		

The sketch shows a rectangular area representing the site. On the left is a vertical rectangle labeled 'BUILDING'. To its right is a circle labeled 'MP-7'. A horizontal arrow points from the building to the well, labeled '105''. A vertical line labeled 'RANICK ROAD' runs north-south. A horizontal arrow points from the well to Ranick Road, labeled '21''. To the right of Ranick Road is a horizontal line labeled 'RASON COURT'. At the bottom of the sketch, a horizontal line is labeled 'EXPRESS DRIVE NORTH' on the left and '495 (SERVICE ROAD) WEST' on the right. A north arrow points upwards in the upper right quadrant.

Sketch By	L Velasquez	Date	1/19/2011	Hagstrom Map	15-W-17
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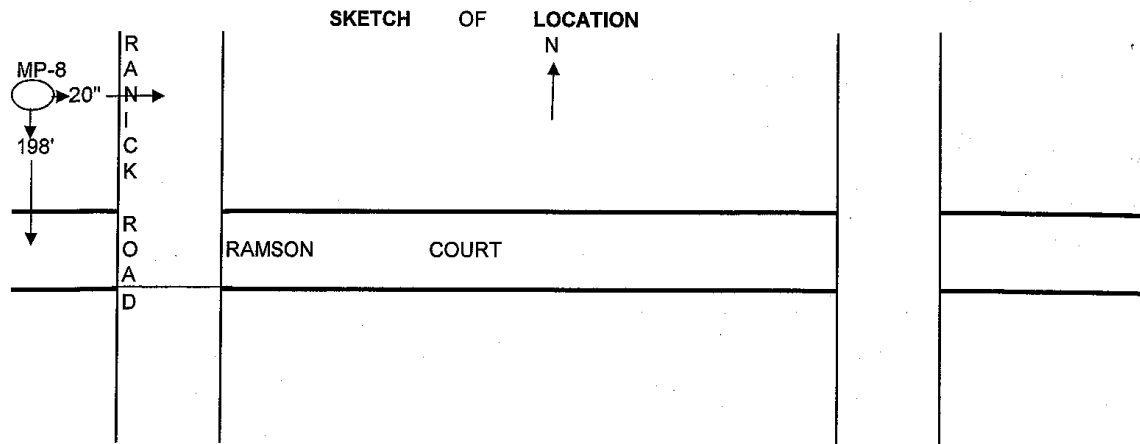
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County, Suffolk MP-8 20110005 Well Number 5-130343 *maggio*

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface	
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea	
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.	
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>81.10'</b>	<b>TOP OF WELL</b>	
<b>CASING</b>			
Diameter <b>2"</b> in.   in.   in.   in.   in.			
Length <b>165'</b> ft.   ft.   ft.   ft.   ft.			
SEALING	OPENINGS		
<b>SCREEN</b>			
Make <b>Johnson</b>	OPENINGS <b>10slot</b>		
Diameter <b>2"</b> in.   in.   in.   in.   in.			
Length <b>5'</b> ft.   ft.   ft.   ft.   ft.			
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity g.p.m.against _____	ft. of discharge head _____		
NUMBER OF BOWLS OR STAGES	ft. of total head _____		
<b>DROP LINE</b>		<b>SUCTION LINE</b>	
DIAMETER in. _____	DIAMETER in. _____		
Length ft. _____	Length in. _____		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>		
WORK STARTED <b>1/20/2011</b>	COMPLETED <b>1/20/2011</b>		
DATE <b>1/20/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>	
<p>*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.</p>			

ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH				MP-8	20110005-130343
1) Community	Happauge		2) N.Y.S. Well#	N40.810648	
3) Township	Islip		4) Lat, Long.&Seq.#	w073.228733	
5) Owner	Suffolk County Department of Health Services				
6) Address	220 Rabro Drive East		Hauppauge N.Y.		
7) Completion Date of Well	1/20/2011		8) Aquifer Screened	160'-165'	
9) Des. of MP					
10) Elev. of MP>			11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"	
14) Well Depth	170'		15) Screened Interval	5'	
16) Type of Well	PVC		17) Depth to Water	80'	
18) Use of Well	Profile		19) Quadrangle Name		

EXPRESS DRIVE NORTH      495 (SERVICE ROAD) WEST

Sketch By	L Velasquez	Date	1/20/2011	Hagstrom Map	15-W-17
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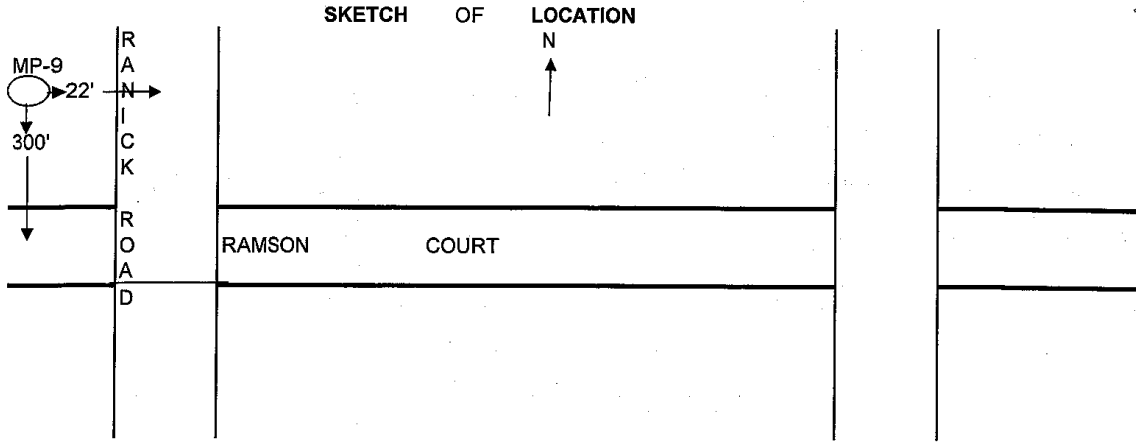
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-9 20110006 Well Number 5-130844 *maggio*

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>77.40'</b>	<b>TOP OF WELL</b>
CASING		
Diameter <b>2" in.</b>	Length <b>165' ft.</b>	
SEALING		
SCREEN		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2" in.</b>	Length <b>5' ft.</b>	
DEPTH TO TOP FROM TOP OF CASING		
PUMP TEST		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m.against	ft. of discharge head
NUMBER OF BOWLS OR STAGES		ft. of total head
DROP LINE		SUCTION LINE
DIAMETER in. _____	Length ft. _____	DIAMETER in. _____
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>2/7/2011</b>	COMPLETED <b>2/7/2011</b>	
DATE <b>2/7/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH		MP-9	20110006	S-130344
1) Community	Happaugue	2) N.Y.S. Well#	N40.810923	
3) Township	Islip	4) Lat, Long.&Seq,#	w073.228723	
5) Owner	Suffolk County Department of Health Services			
6) Address	220 Rabro Drive East	Hauppauge	N.Y.	
7) Completion Date of Well	2/7/2011	8) Aquifer Screened	160'-165'	
9) Des. of MP				
10) Elev. of MP>	11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"
14) Well Depth	170'	15) Screened Interval	5'	
16) Type of Well	PVC	17) Depth to Water	77.40'	
18) Use of Well	Profile	19) Quadrangle Name		

EXPRESS DRIVE NORTH      495 (SERVICE ROAD) WEST

Sketch By L Velasquez      Date 2/7/2011      Hagstrom Map      15-W-17

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

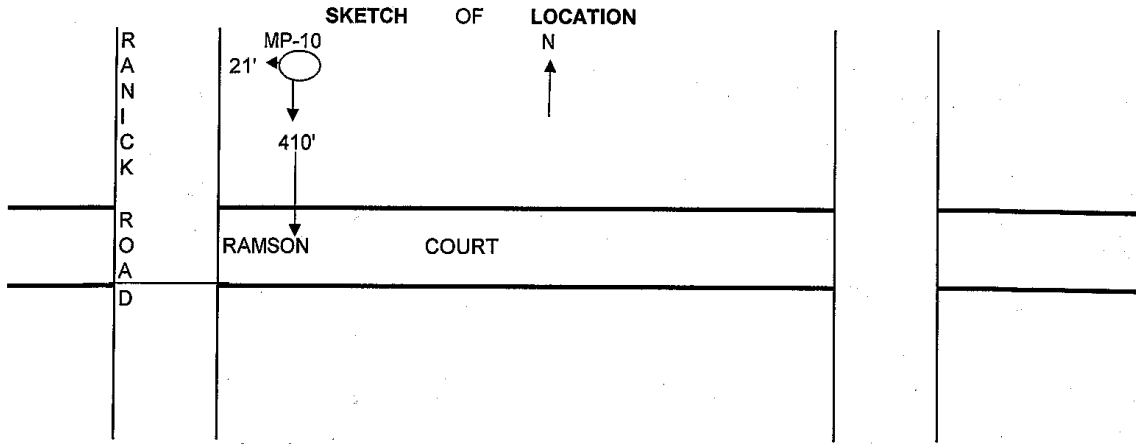
County Suffolk MP-10 20110007 Well Number 5-176345

*Maggie W*

OWNER		LOG	
Suffolk County Department of Health Services		Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Ranick road ,Happaugue		_____ft.	
Depth of Well Below Surface 160'		Depth to Groundwater From Surface 75.05'	
CASING		TOP OF WELL	
Diameter 2" in.   in.   in.   in.		↑	
Length 155' ft.   ft.   ft.   ft.		↑	
SEALING		↑	
OPENINGS		↑	
SCREEN		↑	
Make Johnson		↑	
OPENINGS 10slot		↑	
Diameter 2" in.   in.   in.   in.		↑	
Length 5' ft.   ft.   ft.   ft.		↑	
DEPTH TO TOP FROM TOP OF CASING		↑	
PUMP TEST		↑	
DATE		TEST OR PERMANENT PUMP	
DURATION OF TEST days hours		MAXIMUM DISCHARGE gallons per min.	
STATIC LEVEL PRIOR TO TEST ft.   in.		LEVEL DURING MAXIMUM PUMPING ft.   in.	
MAXIMUM DRAWDOWN ft.		Approx. time of return level after of pumping hours min.	
PUMPING INSTALLED		↑	
TYPE		MAKE	
MODEL NUMBER		H.P.	
MOTIVE POWER		MAKE	
Capacity g.p.m.against   ft. of discharge head		↑	
NUMBER OF BOWLS OR STAGES ft. of total head		↑	
DROP LINE		↑	
DIAMETER in.		SUCTION LINE in.	
Length ft.		Length in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test	
WORK STARTED 2/9/2011		COMPLETED 2/9/2011	
DATE 2/9/2011		DRILLER Luis Velasquez	
REGISTRATION NO. 1854		s c r e e n s u m p	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		150'	
		160''	
		5'	
		5'	

ORIGINAL- Environmental Conservation Copy





Location will with respect to at least two streets or roads showing distance from corner and front of lot.

**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH				MP-10	20110007	S-1730345
1) Community	Happaugue		2) N.Y.S. Well#	N40.811227		
3) Township	Islip		4) Lat, Long.&Seq,#	w073.228612		
5) Owner	Suffolk County Department of Health Services					
6) Address	220 Rabro Drive East		Hauppauge	N.Y.		
7) Completion Date of Well	2/9/2011		8) Aquifer Screened	150'-155'		
9) Des. of MP						
10) Elev. of MP >			11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"		
14) Well Depth	160'		15) Screened Interval	5'		
16) Type of Well	PVC		17) Depth to Water	75.05'		
18) Use of Well	Profile		19) Quadrangle Name			

The diagram is a site sketch showing the location of well MP-10. A vertical line represents RANICK ROAD. A horizontal line represents RASON COURT. A well, indicated by a circle, is located 21 feet west of RANICK ROAD and 410 feet north of RASON COURT. A north arrow points upwards. Three rectangular areas are labeled 'BUILDING'. At the bottom of the sketch, the street names 'EXPRESS DRIVE NORTH' and '495 (SERVICE ROAD) WEST' are indicated.

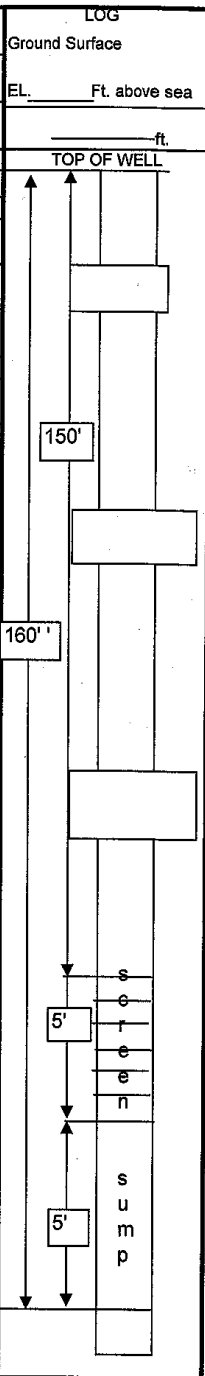
Sketch By	L. Velasquez	Date	2/9/2011	Hagstrom Map	15-W-17
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

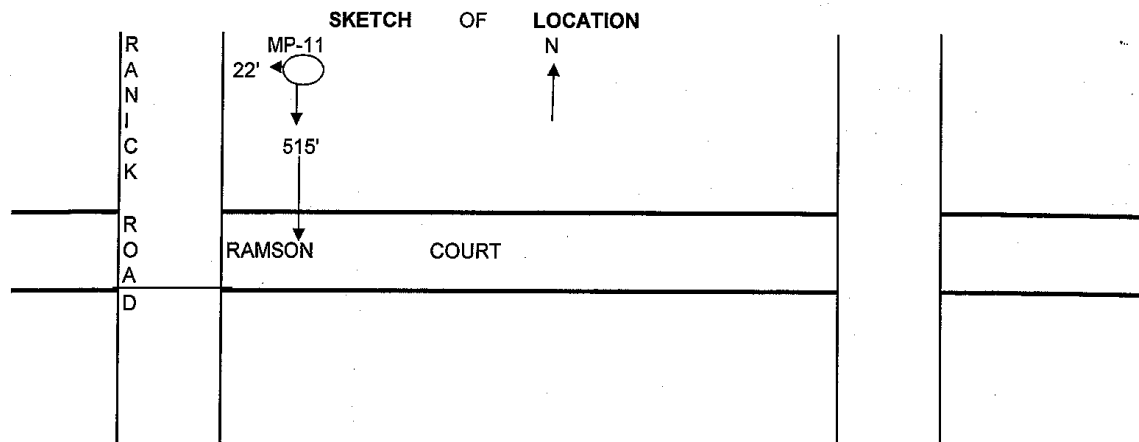
County Suffolk MP-11 201100011 Well Number 5-130349 <sup>1149910</sup>

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ft.
Depth of Well Below Surface <b>160'</b>	Depth to Groundwater From Surface <b>72.70'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>155' ft.</b>	_____ ft.	_____ ft.
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>5' ft.</b>	_____ ft.	_____ ft.
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST _____ days _____ hours	MAXIMUM DISCHARGE _____ gallons per min.	
STATIC LEVEL PRIOR TO TEST _____ ft.   _____ in.	LEVEL DURING MAXIMUM PUMPING _____ ft.   _____ in.	
MAXIMUM DRAWDOWN _____ ft.	Approx. time of return level after of pumping _____ hours _____ min.	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity _____ g.p.m.against _____ ft. of discharge head	NUMBER OF BOWLS OR STAGES _____ ft. of total head	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.		DIAMETER _____ in.
Length _____ ft.		Length _____ in.
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>2/17/2011</b>	COMPLETED	
DATE <b>2/17/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		



ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads showing distance from corner and front of lot.

**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

LOCATION SKETCH				MP-11	201100011	S-130349
1) Community	Happaugue		2) N.Y.S. Well#	N40.811483		
3) Township	Islip		4) Lat, Long.&Seq.#	w073.228798		
5) Owner	Suffolk County Department of Health Services					
6) Address	220 Rabro Drive East		Hauppauge	N.Y.		
7) Completion Date of Well	2/17/2011		8) Aquifer Screened	150'-155'		
9) Des. of MP						
10) Elev. of MP>			11) Elev. of Land Surface			
12) MP	At	at/above/below Land Surface		13) Diam. of Casing	2"	
14) Well Depth	160'		15) Screened Interval	5'		
16) Type of Well	PVC		17) Depth to Water	72.70'		
18) Use of Well	Profile		19) Quadrangle Name			

EXPRESS DRIVE NORTH      495 (SERVICE ROAD) WEST

Sketch By	L Velasquez	Date	2/17/2011	Hagstrom Map	15-W-17
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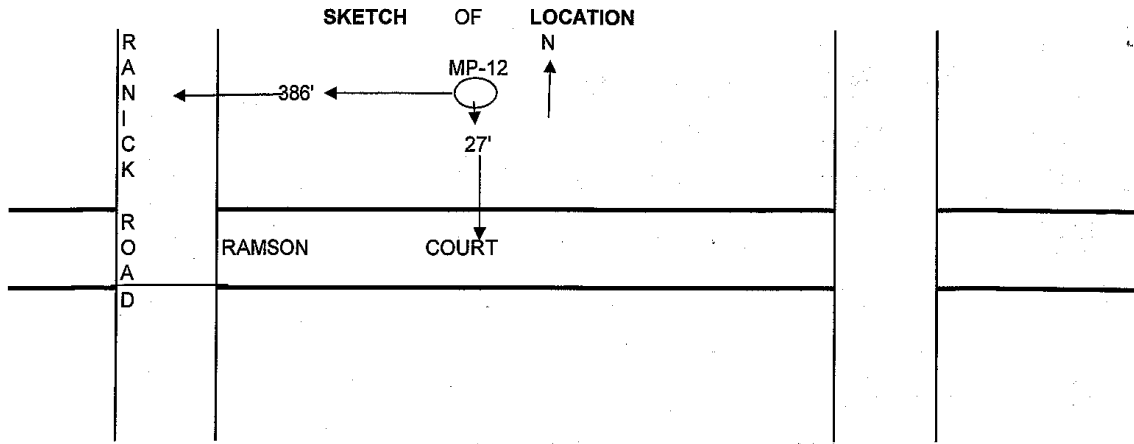
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-12 20110012 Well Number 5-130356 *Maggio*

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface	
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea	
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.	
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>93.40'</b>	<b>TOP OF WELL</b>	
CASING			
Diameter <b>2"</b> in.   in.   in.   in.			
Length <b>165'</b> ft.   ft.   ft.   ft.			
SEALING	OPENINGS		
SCREEN			
Make <b>Johnson</b>	OPENINGS <b>10slot</b>		
Diameter <b>2"</b> in.   in.   in.   in.			
Length <b>5'</b> ft.   ft.   ft.   ft.			
DEPTH TO TOP FROM TOP OF CASING			
PUMP TEST			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
PUMPING INSTALLED			
TYPE	MAKE		MODEL NUMBER
MOTIVE POWER	MAKE		H.P.
Capacity	g.p.m.against _____		ft. of discharge head _____
NUMBER OF BOWLS OR STAGES	ft. of total head _____		
DROP LINE			SUCTION LINE
DIAMETER _____ in.	DIAMETER _____ in.		
Length _____ ft.	Length _____ in.		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>	
WORK STARTED <b>13/1/2011</b>	COMPLETED		
DATE <b>3/1/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH		MP-12	20110012	S-130356
1) Community	Happaugue	2) N.Y.S. Well#	N40.810163	
3) Township	Islip	4) Lat, Long.&Seq.#	w073.227260	
5) Owner	Suffolk County Department of Health Services			
6) Address	220 Rabro Drive East	Hauppauge	N.Y.	
7) Completion Date of Well	3/1/2011	8) Aquifer Screened	160'-165'	
9) Des. of MP				
10) Elev. of MP>	11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"	
14) Well Depth	170'	15) Screened Interval	5'	
16) Type of Well	PVC	17) Depth to Water	93.40'	
18) Use of Well	Profile	19) Quadrangle Name		

The sketch shows a plan view of the well locations. A north arrow points upwards. A vertical line represents Ramson Road, with the word 'RAMSON ROAD' written vertically along it. To the left of Ramson Road is a rectangular area labeled 'BUILDING'. Below Ramson Road is a horizontal line representing Express Drive North, with the text 'EXPRESS DRIVE NORTH [495 WES SERVICE ROAD]' written below it. Three wells are marked with circles: MP-4M is located 21 feet east of Ramson Road and 419 feet south of Express Drive North. MP-5M is located 24 feet west of Ramson Road and 570 feet south of Express Drive North. MP-12 is located 386 feet west of Ramson Road and 27 feet south of Ramson Court, which is a horizontal line above MP-5M.

Sketch By	L Velasquez	Date	3/1/2011	Hagstrom Map
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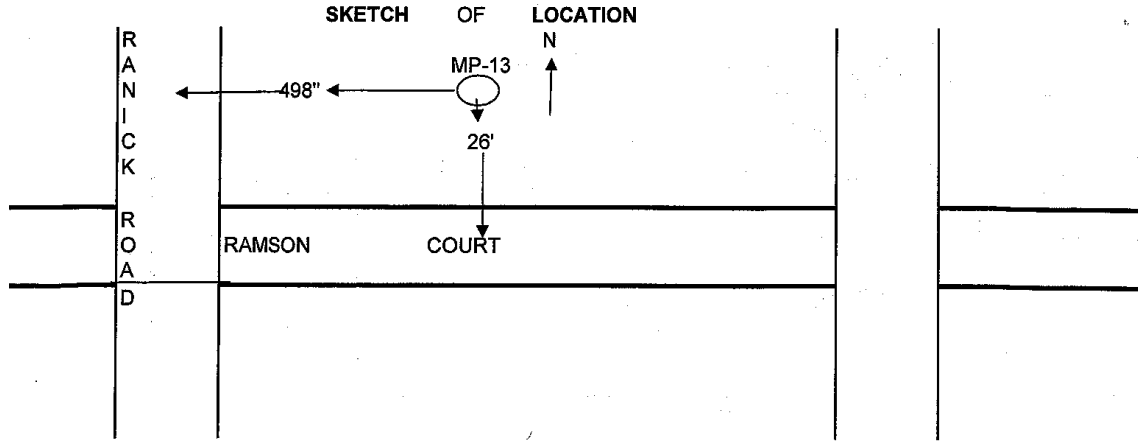
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-13 20110013 Well Number 5-130351 *maggio*

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Ranick road ,Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>170'</b>	Depth to Groundwater From Surface <b>94.25'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>165'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m.against _____	ft. of discharge head _____
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER in. _____	DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>	
WORK STARTED <b>13/3/2011</b>	COMPLETED <b>3/3/2011</b>	
DATE <b>3/3/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads  
showing distance from corner and front of lot.  
**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LOCATION SKETCH		MP-13	20110013	<i>5-13035'</i>
1) Community	Happauge	2) N.Y.S. Well#	N40.810137	
3) Township	Islip	4) Lat, Long.&Seq.#	w073.226868	
5) Owner	Suffolk County Department of Health Services			
6) Address	220 Rabro Drive East	Hauppauge	N.Y.	
7) Completion Date of Well	3/3/2011	8) Aquifer Screened	160'-165'	
9) Des. of MP				
10) Elev. of MP>	11) Elev. of Land Surface			
12) MP At	at/above/below Land Surface		13) Diam. of Casing	2"
14) Well Depth	170'	15) Screened Interval	5'	
16) Type of Well	PVC	17) Depth to Water	94.25'	
18) Use of Well	Profile	19) Quadrangle Name		

The sketch shows a plan view of the well locations. A north arrow points upwards. A building is shown on the left. A vertical line represents Ramson Road. A horizontal line represents Ramson Court. A horizontal line at the bottom represents Express Drive North [495 West Service Road]. Well MP-4M is located west of Ramson Road, 21 feet from it, with a depth of 419 feet. Well MP-5M is located east of Ramson Road, 24 feet from it, with a depth of 570 feet. Wells MP-12 and MP-13 are located north of Ramson Court. MP-12 is 386 feet west of Ramson Court and 27 feet from the Ramson Road line. MP-13 is 112 feet east of MP-12 and 26 feet from the Ramson Court line.

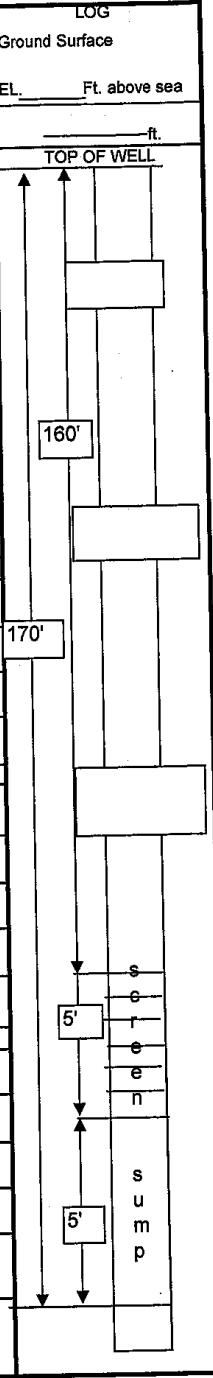
Sketch By	L Velasquez	Date	3/3/2011	Hagstrom Map	15-W-17
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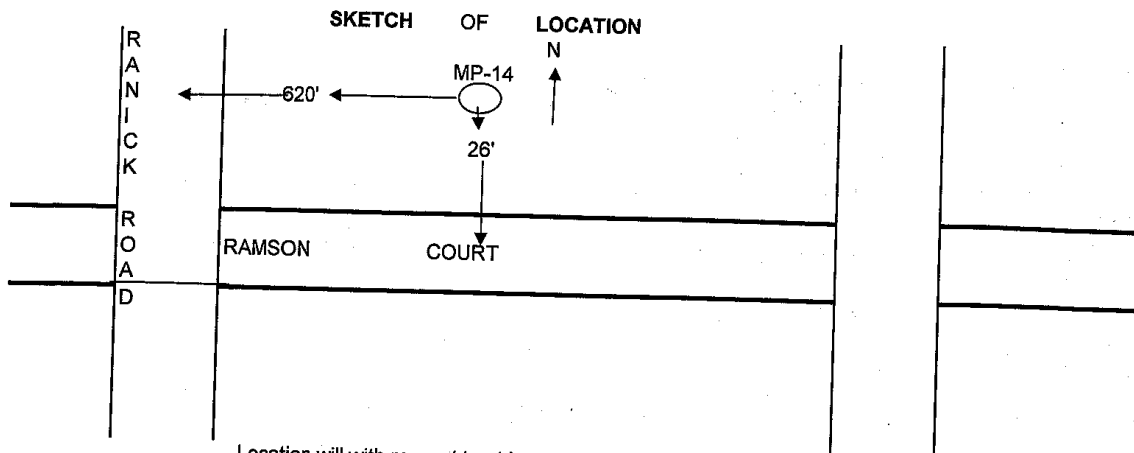
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-14 20110014 Well Number 5-130352

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>			LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>			EL. _____ Ft. above sea
LOCATION OF WELL <b>Ramson court ,Happaugue</b>			_____ ft.
Depth of Well Below Surface <b>170'</b>		Depth to Groundwater From Surface <b>93.60'</b>	<b>TOP OF WELL</b>
<b>CASING</b>			
Diameter <b>2"</b> in.   in.   in.   in.			
Length <b>165'</b> ft.   ft.   ft.   ft.			
SEALING		OPENINGS	
<b>SCREEN</b>			
Make <b>Johnson</b>		OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.			
Length <b>5'</b> ft.   ft.   ft.   ft.			
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE		TEST OR PERMANENT PUMP	
DURATION OF TEST		MAXIMUM DISCHARGE	
days	hours	gallons per min.	
STATIC LEVEL PRIOR TO TEST		LEVEL DURING MAXIMUM PUMPING	
ft.	in.	ft.	in.
MAXIMUM DRAWDOWN		Approx. time of return level after of pumping	
ft.	hours	min.	
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
NETIVE POWER	MAKE	H.P.	
BOWLS OR STAGES		ft. of discharge head	
g.p.m. against		ft. of total head	
SUCTION LINE		SUCTION LINE	
DIAMETER		DIAMETER	
in.	in.		
Length		Length	
ft.	in.		
USE OF WATER		USE OF WATER	
other Auger		Test	
COMPLETED		COMPLETED	
3/4/2011		REGISTRATION NO.	
1854			
with depth below ground surface water bearing beds and other matters of interest. Regulation and Reports.			





Location will with respect to at least two streets or roads showing distance from corner and front of lot.  
**Show North Point**

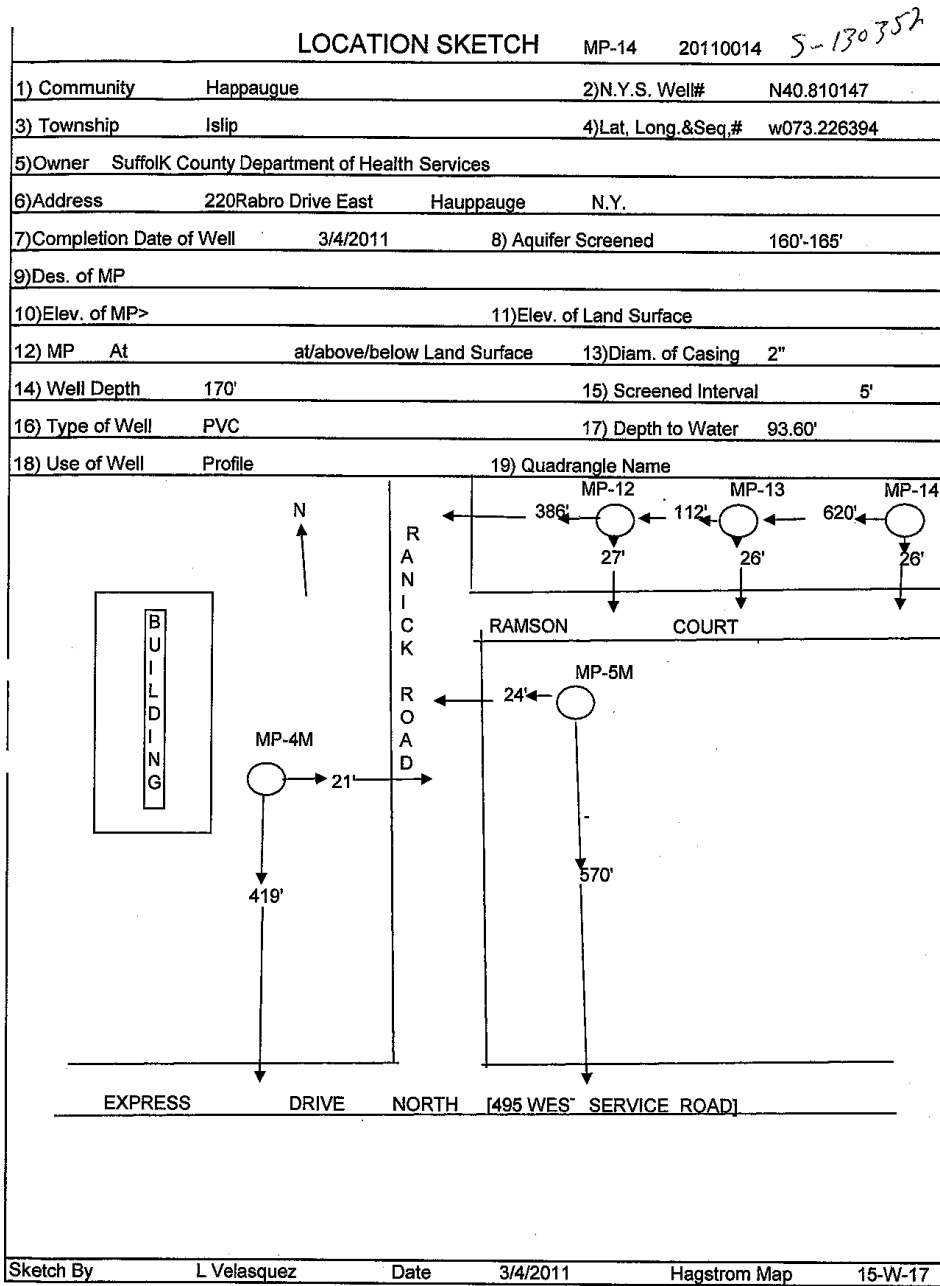
**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- |                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> Hempstead | <input type="checkbox"/> North Hempstead | <input type="checkbox"/> Oyster Bay |
|------------------------------------|--|-------------------------------------|

**Suffolk County**

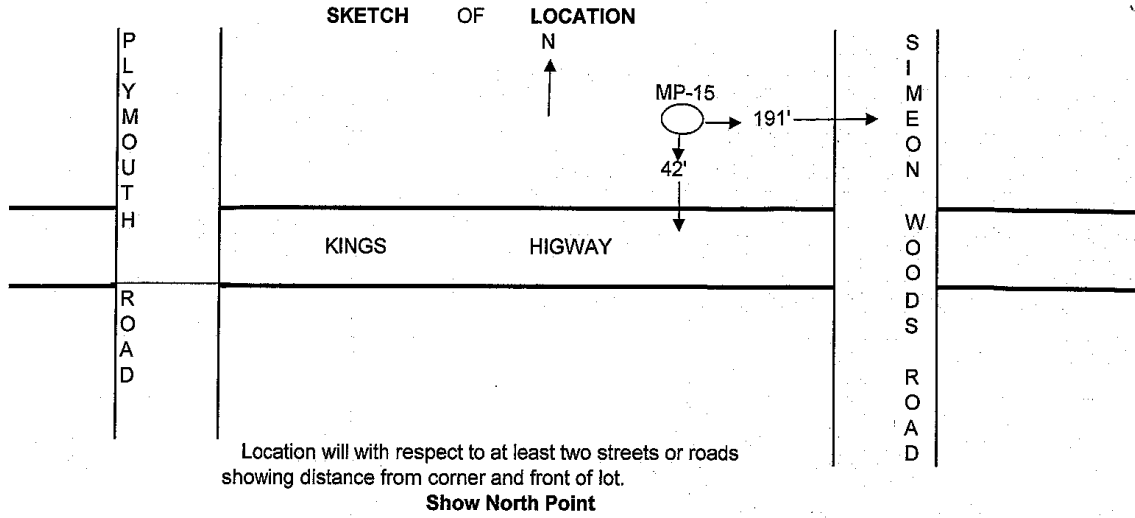
- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Babylon        | <input type="checkbox"/> Brookhaven       | <input type="checkbox"/> East Hampton |
| <input type="checkbox"/> Huntington     | <input checked="" type="checkbox"/> Islip | <input type="checkbox"/> Riverhead    |
| <input type="checkbox"/> Shelter Island | <input type="checkbox"/> Smithtown        | <input type="checkbox"/> Southampton  |
| <input type="checkbox"/> Southold       |   |                                       |



NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.815036  
 LOTITUDE W073.222611  
 County Suffolk MP-15 20110031 Well Number S-130415

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG	
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		Ground Surface	
LOCATION OF WELL <b>Kings highway, Happaugue</b>		EL. _____ Ft. above sea	
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>27.50'</b>	_____ ft.	
CASING		TOP OF WELL	
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.	↑		
Length <b>115'</b> ft.   _____ ft.   _____ ft.   _____ ft.	↑		
SEALING	OPENINGS		
SCREEN		↑	
Make <b>Johnson</b>	OPENINGS <b>10slot</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.	↑		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.	↑		
DEPTH TO TOP FROM TOP OF CASING		↑	
PUMP TEST		↑	
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
PUMPING INSTALLED		↑	
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity	g.p.m. against _____ ft. of discharge head		
NUMBER OF BOWLS OR STAGES		ft. of total head	
DROP LINE		SUCTION LINE	
DIAMETER _____ in.	DIAMETER _____ in.		
Length _____ ft.	Length _____ in.		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>		
WORK STARTED <b>4/14/2011</b>	COMPLETED <b>4/14/2011</b>		
DATE <b>4/14/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LATITUDE N40.815036  
 LOTITUDE W073.222611



LOCATION SKETCH				MP-15	20110031
1) Community	Happauge		2) N.Y.S. Well#	5-130482	
3) Township	Islip		4) Lat, Long. & Seq.#	N40.815036	
5) Owner	Suffolk County Department of Health Services			W073.222611	
6) Address	220 Rabro Drive East		Hauppauge	N.Y.	
7) Completion Date of Well	4/14/2011		8) Aquifer Screened	110'-115'	
9) Des. of MP					
10) Elev. of MP >			11) Elev. of Land Surface		
12) MP	At	at/above/below Land Surface	13) Diam. of Casing	2"	
14) Well Depth	120'		15) Screened Interval	5'	
16) Type of Well	PVC		17) Depth to Water	27.50'	
18) Use of Well		Profile		19) Quadrangle Name	

The diagram shows a well labeled 'MP-15' located between 'PLYMOUTH ROAD' (on the left) and 'SIMMONS ROAD' (on the right). Below the well is 'KINGS HIGHWAY'. A horizontal line labeled 'WOODS' is located between the well and the highway. Distances are indicated: 191' from the well to the woods, 42' from the well to the highway, 67' from the well to a 'LIPA POLE', and 100' from the well to another 'LIPA POLE #116'.

Sketch By	L. Velasquez	Date	4/14/2011	Hagstrom Map	15-X-18
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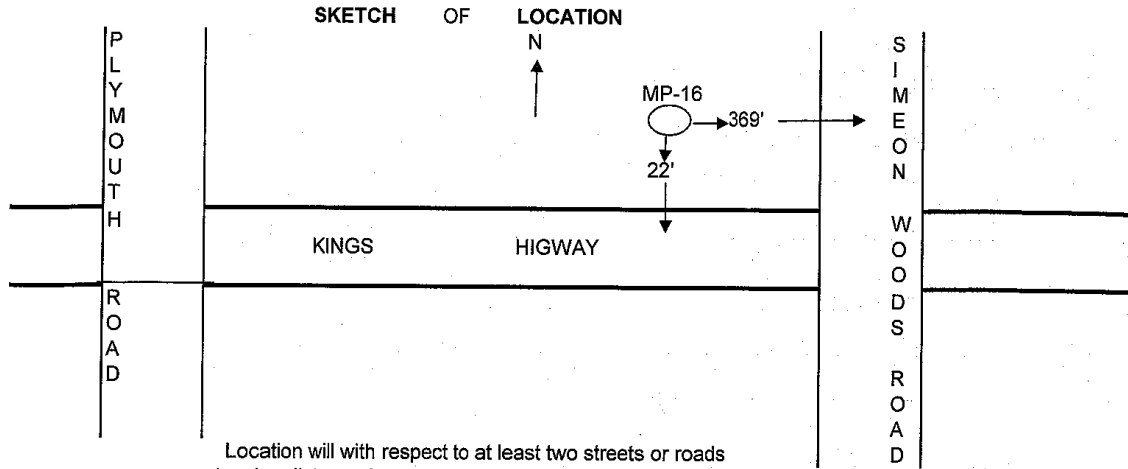
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.814735  
 LOTITUDE W073.223048  
 Well Number 5-130487

County Suffolk MP-16 20110032

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Kings highway, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>100'</b>	Depth to Groundwater From Surface <b>30.55'</b>	TOP OF WELL
CASING		
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>95'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
SCREEN		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
PUMP TEST		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
DROP LINE		SCREEN
DIAMETER in. _____	SUCTION LINE DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger	USE OF WATER Test	
WORK STARTED <b>4/18/2011</b>	COMPLETED <b>4/18/2011</b>	
DATE <b>4/18/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LATITUDE N40.815036  
 LOTITUDE W073.222611

LOCATION SKETCH		MP-16	20110032
1) Community	Happauge	2) N.Y.S. Well#	S-130483
3) Township	Islip	4) Lat, Long.&Seq.#	N40.814735
5) Owner	Suffolk County Department of Health Services		W073.223048
6) Address	220 Rabro Drive East Happauge N.Y.		
7) Completion Date of Well	4/18/2011	8) Aquifer Screened	90'95'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	100'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	30.55'
18) Use of Well	Profile	19) Quadrangle Name	

The sketch shows two monitoring points, MP-16 and MP-15, located between Plymouth Road and Simmons Woods Road. MP-16 is 178 feet west of MP-15. A 64-foot highway runs between the roads. Utility poles are located south of the highway: a 'lipa pole #116' is 22 feet south of MP-16, another 'lipa pole' is 66 feet south of MP-16, a 'LIPA POLE' is 42 feet south of MP-15, and a 'LIPA POLE #116' is 100 feet south of MP-15. A north arrow is present at the top of the sketch.

Sketch By	L Velasquez	Date	4/18/2011	Hagstrom Map	15-X-18
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.814630

LOTITUDE W073.223575

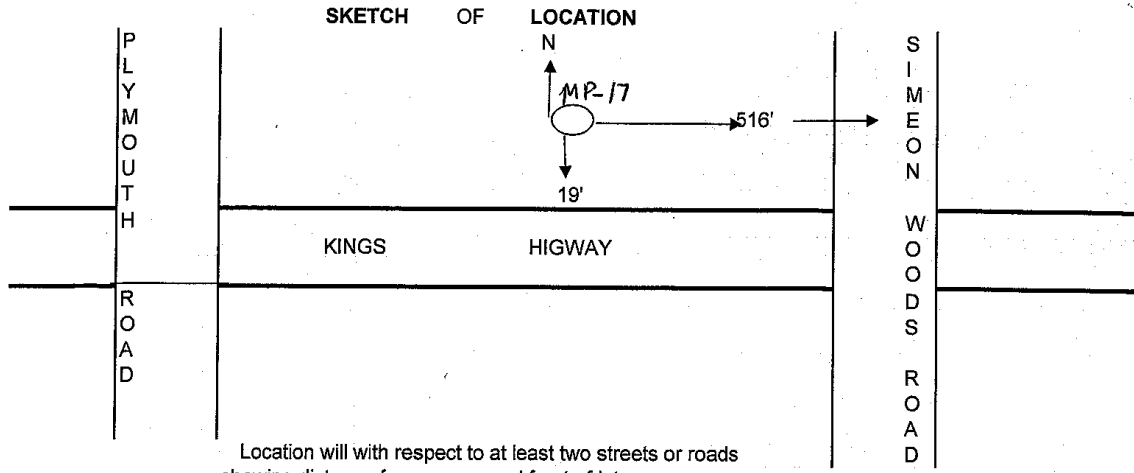
County Suffolk MP-17 20110033

Well Number 5-130484

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface	
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea	
LOCATION OF WELL <b>Kings highway, Happaugue</b>		_____ ft.	
Depth of Well Below Surface <b>130'</b>	Depth to Groundwater From Surface <b>32.94</b>	TOP OF WELL	
<b>CASING</b>			
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.			
Length <b>125'</b> ft.   _____ ft.   _____ ft.   _____ ft.			
SEALING	OPENINGS		
<b>SCREEN</b>			
Make <b>Johnson</b>	OPENINGS <b>10slot</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.	90'		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.			
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft.   _____ in.	LEVEL DURING MAXIMUM PUMPING ft.   _____ in.		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity g.p.m.against _____	ft. of discharge head _____		
NUMBER OF BOWLS OR STAGES	ft. of total head _____		
<b>DROP LINE</b>		<b>SUCTION LINE</b>	
DIAMETER _____ in.	DIAMETER _____ in.		
Length _____ ft.	Length _____ in.		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>		
WORK STARTED <b>4/20/2011</b>	COMPLETED <b>4/20/2011</b>		
DATE <b>4/20/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			

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**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

LATITUDE N40.814630  
 LOTITUDE W073.223575

LOCATION SKETCH		MP-17	20110033
1) Community	Happaugue	2) N.Y.S. Well#	5-130484
3) Township	Islip	4) Lat, Long. & Seq.#	N40.814735
5) Owner	Suffolk County Department of Health Services		W073.223048
6) Address	220 Rabro Drive East Happaugue N.Y.		
7) Completion Date of Well	4/20/2011	8) Aquifer Screened	120'-125'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	130'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	32.94'
18) Use of Well	Profile	19) Quadrangle Name	

The sketch shows three monitoring points (MP-17, MP-16, MP-15) arranged horizontally. MP-17 is 170' from MP-16, and MP-16 is 178' from MP-15. A north arrow is above the wells. Below the wells are five lipa poles. Distances from MP-17 to poles are 19' and 75'. From MP-16 to poles are 22' and 66'. From MP-15 to poles are 42' and 100'. The poles are labeled: LIPA POLE #113, lipa pole #116, lipa pole, LIPA POLE, and LIPA POLE #116. Roads shown are PLYMOUTH ROAD, SIMMONS ROAD, and KINGS HIGHWAY.

Sketch By	L. Velasquez	Date	4/20/2011	Hagstrom Map	15-X-18
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.814448

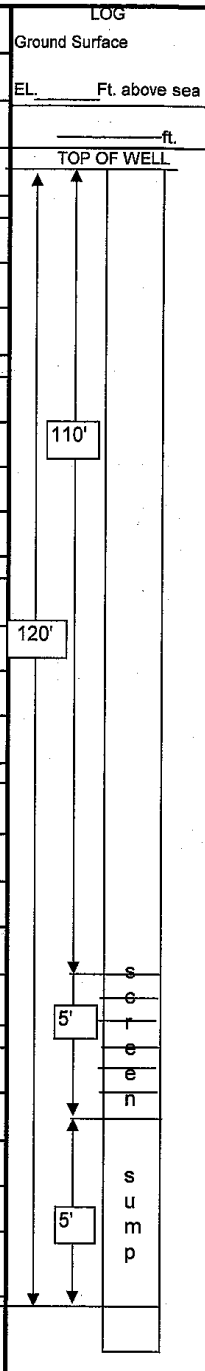
LOTITUDE W073.224090

County Suffolk MP-18 20110034

Well Number S-170485

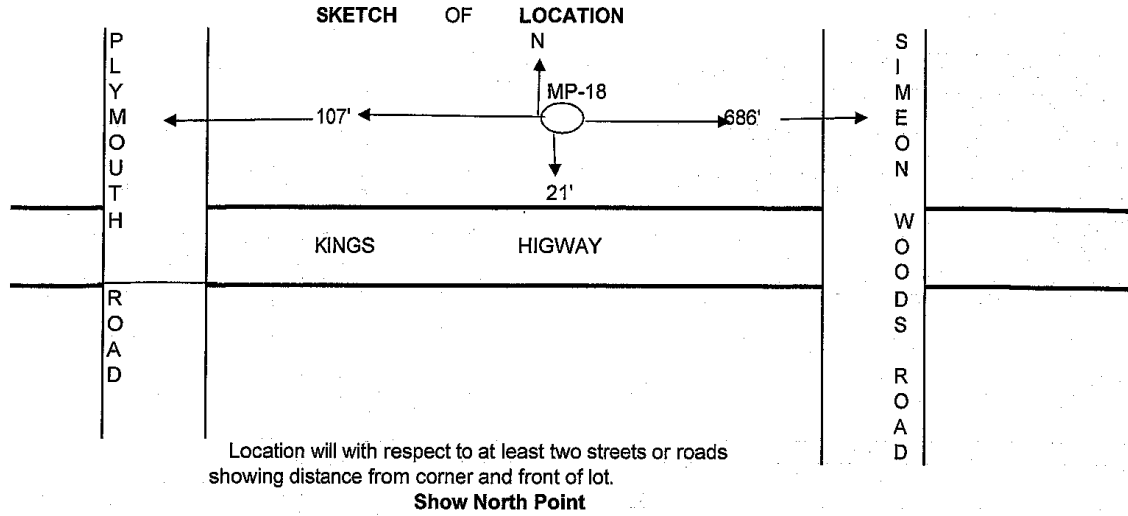
**COMPLETION REPORT-LONG ISLAND WELL**

OWNER Suffolk County Department of Health Services		LOG Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Kings highway, Happaugue		_____ ft.	
Depth of Well Below Surface 120'		Depth to Groundwater From Surface 36.20'	
CASING			
Diameter 2" in.   in.   in.   in.			
Length 115' ft.   ft.   ft.   ft.			
SEALING		OPENINGS	
SCREEN			
Make Johnson		OPENINGS 10slot	
Diameter 2" in.   in.   in.   in.			
Length 5' ft.   ft.   ft.   ft.			
DEPTH TO TOP FROM TOP OF CASING			
PUMP TEST			
DATE		TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____		MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   in.		LEVEL DURING MAXIMUM PUMPING ft.   in.	
MAXIMUM DRAWDOWN ft.		Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity g.p.m.against _____		ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES		ft. of total head _____	
DROP LINE		SUCTION LINE	
DIAMETER in.		DIAMETER in.	
Length ft.		Length in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test	
WORK STARTED 4/21/2011		COMPLETED 4/21/2011	
DATE 4/21/2011	DRILLER Luis Velasquez	REGISTRATION NO. 1854	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



ORIGINAL- Environmental Conservation Copy





**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LATITUDE N40.814448  
 LOTITUDE W073.224090

LOCATION SKETCH				MP-18	20110034
1) Community	Happauge		2) N.Y.S. Well#	S-170485	
3) Township	Islip		4) Lat. Long. & Seq.#	N40.814448	
5) Owner	Suffolk County Department of Health Services		6) Address	220 Rabro Drive East Hauppauge N.Y.	
7) Completion Date of Well	4/21/2011		8) Aquifer Screened	110'-115'	
9) Des. of MP					
10) Elev. of MP>			11) Elev. of Land Surface		
12) MP	At		13) Diam. of Casing	2"	
14) Well Depth	120'		15) Screened Interval	5'	
16) Type of Well	PVC		17) Depth to Water	36.20'	
18) Use of Well	Profile		19) Quadrangle Name		

N

PLYMOUTH ROAD      SIMMONS ROAD

KINGS HIGHWAY

LIPA POLE #113      lipa pole #116      lipa pole      LIPA POLE      LIPA POLE #116

Sketch By	L Velasquez	Date	4/21/2011	Hagstrom Map	15-X-18
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.814231

LOTITUDE W073.224739

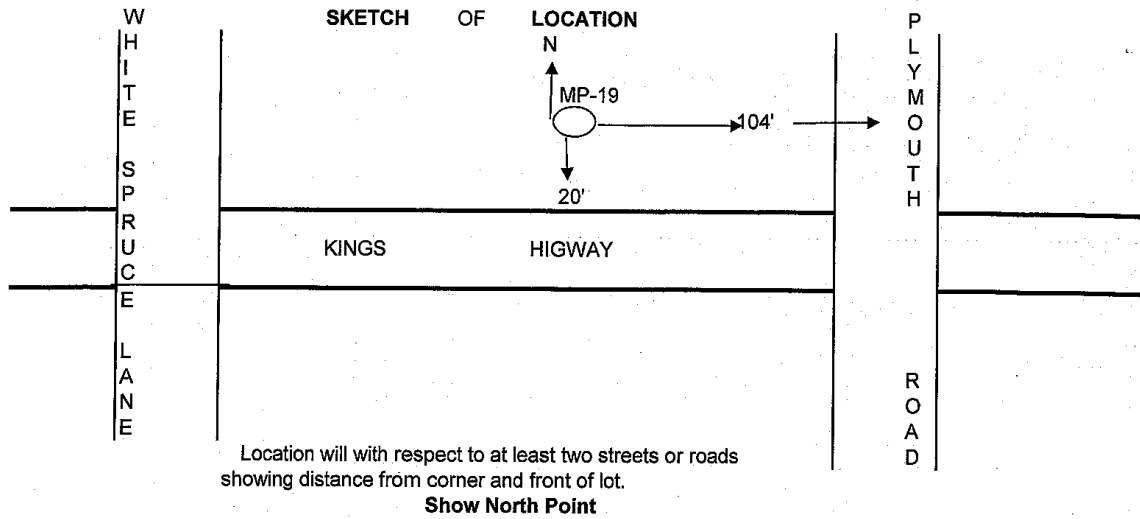
County Suffolk MP-19 20110035

Well Number S-130486

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface	
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea	
LOCATION OF WELL <b>Kings highway, Happaugue</b>		_____ ft.	
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>41.0'</b>	TOP OF WELL	
<b>CASING</b>			
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.			
Length <b>115'</b> ft.   _____ ft.   _____ ft.   _____ ft.			
SEALING		OPENINGS	
<b>SCREEN</b>			
Make <b>Johnson</b>	OPENINGS <b>10slot</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.			
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.			
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P. _____	
Capacity g.p.m.against _____	ft. of discharge head _____		
NUMBER OF BOWLS OR STAGES	ft. of total head _____		
<b>DROP LINE</b>		<b>SUCTION LINE</b>	
DIAMETER in. _____	DIAMETER in. _____		
Length ft. _____	Length in. _____		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>	
WORK STARTED <b>4/22/2011</b>	COMPLETED <b>4/22/2011</b>		
DATE <b>4/22/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			

ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

LATITUDE N40.814231  
 LOTITUDE W073.224739

LOCATION SKETCH		MP-19	20110035
1) Community	Happauge	2) N.Y.S. Well#	S-130486
3) Township	Islip	4) Lat, Long.&Seq.#	N40.814231
5) Owner	Suffolk County Department of Health Services		W073.224739
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	4/22/2011	8) Aquifer Screened	110'-115'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	120'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	41.0'
18) Use of Well	Profile	19) Quadrangle Name	

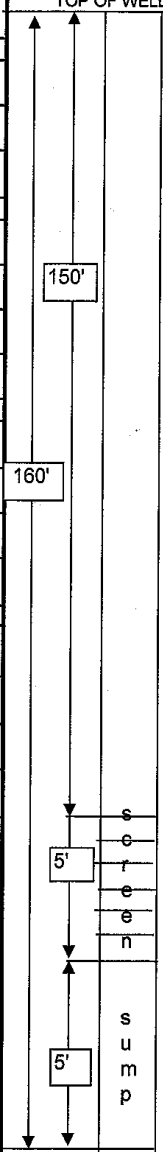
The diagram shows a plan view of the well location. A north arrow points upwards. A horizontal line represents Kings Highway. To the left of the highway is White Spruce Road, and to the right is Plymouth Road. Well MP-19 is located north of Kings Highway, 104 feet east of Plymouth Road. Two other wells, NYT POLE #110 and NYT POLE #111, are located south of Kings Highway. The distance from MP-19 to NYT POLE #110 is 52 feet, and the distance to NYT POLE #111 is 95 feet. A 20-foot distance is also indicated from MP-19 to the highway.

Sketch By	L Velasquez	Date	4/22/2011	Hagstrom Map	15-W-18
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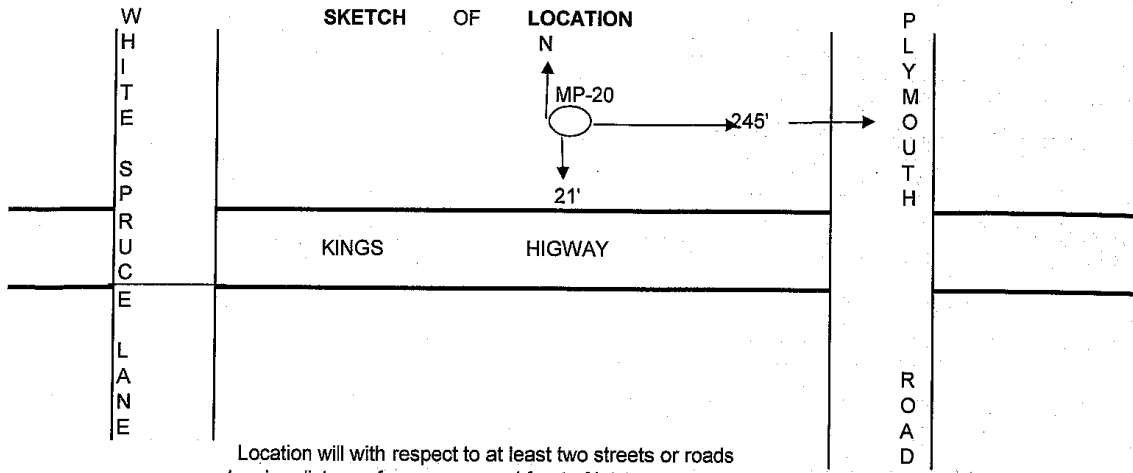
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.814002  
 LOTITUDE W073.225208  
 County Suffolk MP-20 20110036 Well Number S-156487

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER Suffolk County Department of Health Services		LOG Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Kings highway, Happaugue		_____ ft.	
Depth of Well Below Surface 160'	Depth to Groundwater From Surface 44.60'		TOP OF WELL
<b>CASING</b>			
Diameter 2" in.	in.	in.	in.
Length 155' ft.	ft.	ft.	ft.
SEALING		OPENINGS	
<b>SCREEN</b>			
Make Johnson		OPENINGS 10slot	
Diameter 2" in.	in.	in.	in.
Length 5' ft.	ft.	ft.	ft.
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____		
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____		
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____		
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity g.p.m. against _____	ft. of discharge head _____		
NUMBER OF BOWLS OR STAGES _____	ft. of total head _____		
<b>DROP LINE</b>		<b>SUCTION LINE</b>	
DIAMETER in. _____		DIAMETER in. _____	
Length ft. _____		Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger		USE OF WATER Test	
WORK STARTED 4/26/2011		COMPLETED 4/26/2011	
DATE 4/26/2011	DRILLER Luis Velasquez	REGISTRATION NO. 1854	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

LATITUDE N40.814002  
 LOTITUDE W073.225208

LOCATION SKETCH		MP-20	20110036
1) Community	Happaugue	2) N.Y.S. Well#	<i>S-130487</i>
3) Township	Islip	4) Lat, Long.&Seq.#	N40.814002
5) Owner	Suffolk County Department of Health Services		W073.225208
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	4/26/2011	8) Aquifer Screened	150'-155'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	160'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	44.60'
18) Use of Well	Profile	19) Quadrangle Name	

The diagram shows a plan view of the well locations. A north arrow is at the top. Two wells, MP-20 and MP-19, are shown as circles. MP-20 is 21' from the Kings Highway. MP-19 is 20' from the Kings Highway. Distances between wells and roads are: MP-20 to White Spruce Rd (267'), MP-20 to Plymout Road (141'), MP-19 to Plymout Road (104'). Distances from wells to poles are: MP-20 to LIPA POLE #110 (77'), MP-20 to NYT POLE #11 (115'), MP-19 to NYT POLE #111 (95').

Sketch By	L Velasquez	Date	4/26/2011	Hagstrom Map	15-W-18
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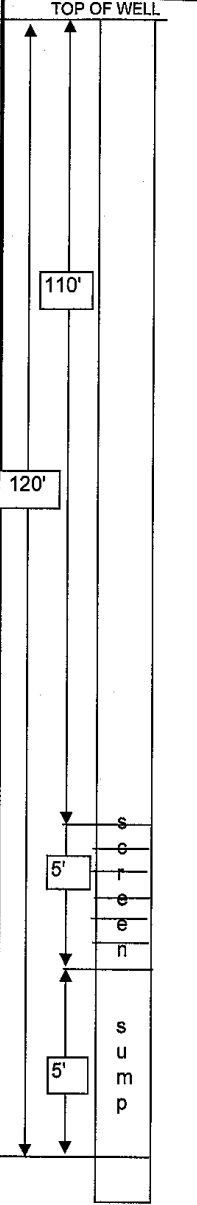


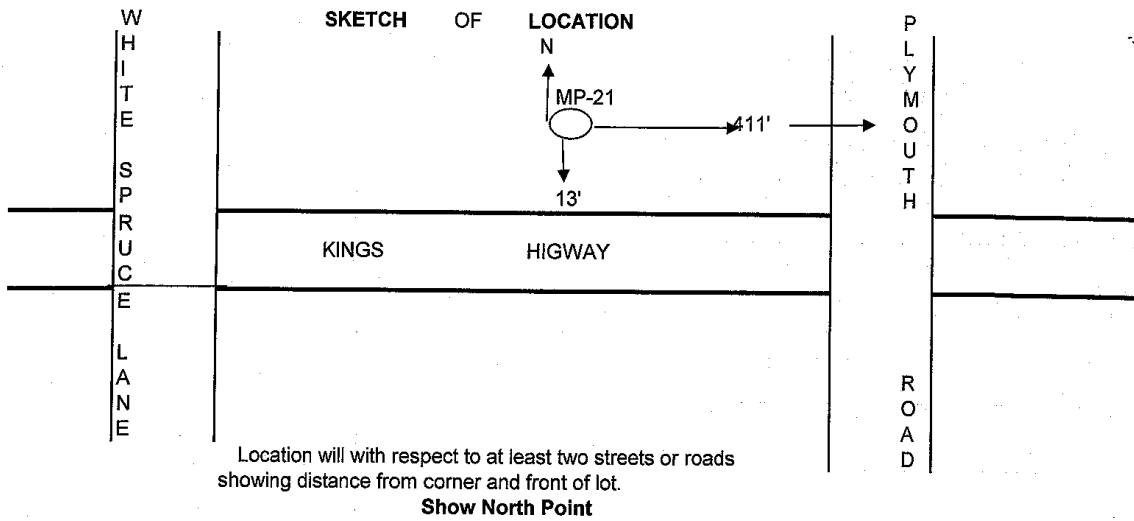
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.813748  
 LOTITUDE W073.225630  
 Well Number S-120488

County Suffolk MP-21 20110037

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Kings highway, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>52.50'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>115' ft.</b>	_____ ft.	_____ ft.
SEALING		OPENINGS
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2" in.</b>	_____ in.	_____ in.
Length <b>5' ft.</b>	_____ ft.	_____ ft.
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min.	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.		DIAMETER _____ in.
Length _____ ft.		Length _____ in.
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>4/27/2011</b>	COMPLETED <b>4/27/2011</b>	
DATE <b>4/27/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		





**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

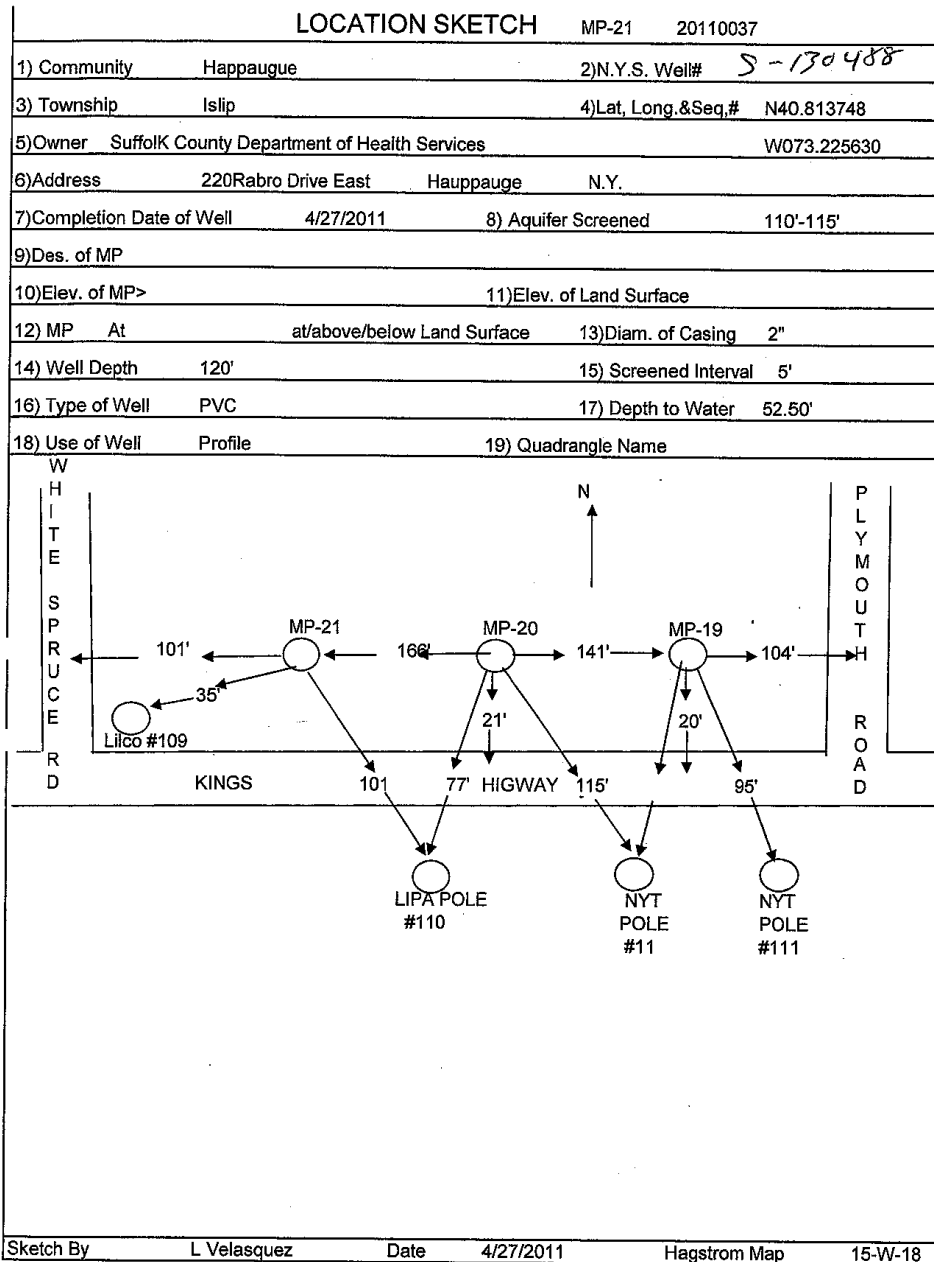
**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

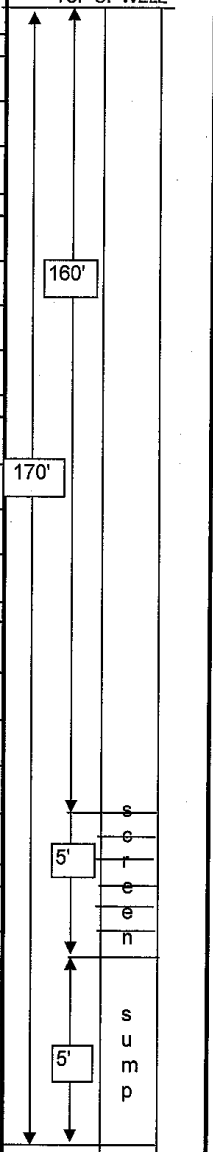
LATITUDE N40.813748  
 LOTITUDE W073.225630



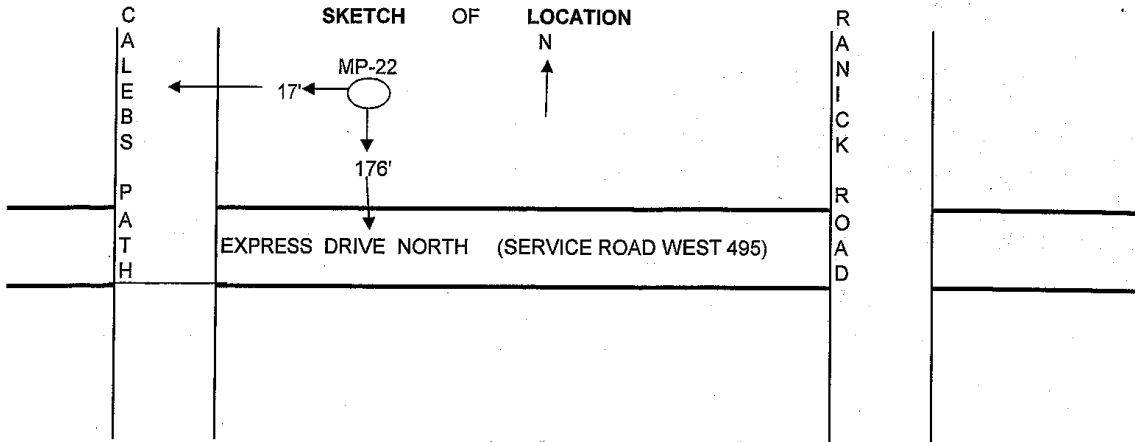
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION LATITUDE N40.807747  
 LONGITUDE W073.233385  
 County Suffolk MP-22 20110038 Well Number 5-130489  
 20110038

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER Suffolk County Department of Health Services		LOG Ground Surface	
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea	
LOCATION OF WELL Calebs Path, Happaugue		_____ ft.	
Depth of Well Below Surface 170'	Depth to Groundwater From Surface 77.0'		TOP OF WELL
<b>CASING</b>			
Diameter 2" in.	in.	in.	in.
Length 165' ft.	ft.	ft.	ft.
SEALING		OPENINGS	
<b>SCREEN</b>			
Make Johnson	OPENINGS 10slot		
Diameter 2" in.	in.	in.	in.
Length 5' ft.	ft.	ft.	ft.
DEPTH TO TOP FROM TOP OF CASING			
<b>PUMP TEST</b>			
DATE	TEST OR PERMANENT PUMP		
DURATION OF TEST days	hours	MAXIMUM DISCHARGE gallons per min.	170'
STATIC LEVEL PRIOR TO TEST ft.	in.	LEVEL DURING MAXIMUM PUMPING ft.	in.
MAXIMUM DRAWDOWN ft.	Approx. time of return level after of pumping hours		min.
<b>PUMPING INSTALLED</b>			
TYPE	MAKE	MODEL NUMBER	
MOTIVE POWER	MAKE	H.P.	
Capacity	g.p.m.against	ft. of discharge head	
NUMBER OF BOWLS OR STAGES	ft. of total head		
<b>DROP LINE</b>		<b>SUCTION LINE</b>	
DIAMETER in.	DIAMETER in.		
Length ft.	Length in.		
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other	AUGER		USE OF WATER Test
WORK STARTED 5/2/2011	COMPLETED 5/2/2011		
DATE 5/2/2011	DRILLER Luis Velasquez	REGISTRATION NO. 1854	
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.			



ORIGINAL- Environmental Conservation Copy



Location will with respect to at least two streets or roads showing distance from corner and front of lot.

**Show North Point**

**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton
- Huntington       Islip       Riverhead
- Shelter Island       Smithtown       Southampton
- Southold

LATITUDE N40.807747  
LONGITUDE W073.233385

LOCATION SKETCH		MP-22	20110038
1) Community	HAPPAUGUE	2) N.Y.S. Well#	<i>Sr-150489</i>
3) Township	ISLIP	4) Lat, Long. & Seq.#	N40.807747
5) Owner	Suffolk County Department of Health Services		W073.233385
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	5/2/2011	8) Aquifer Screened	160'-165'
9) Des. of MP			
10) Elev. of MP		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	170'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	77'
18) Use of Well	Profile	19) Quadrangle Name	

The diagram shows a plan view of the well location. A vertical line represents 'CALLEBS PATH'. To the left of this path are two circles representing 'nyt pole #249' and 'NYT Pole #248'. To the right of the path is a circle representing 'MP-22'. A horizontal line at the bottom represents 'EXPRESS DRIVE NORTH 495 WEST SERVICE ROAD'. Distances are marked: 59' from the top of the path to the well, 17' from the path to the well, and 49' from the well to the bottom pole. A vertical arrow points down from the well to the road, labeled '176''.

Sketch By	L Velasquez	Date	5/2/2011	Hagstrom Map	15-W-17
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION Latitude N40.811673

County Suffolk MP-23 20110071

Longitude W073.225197

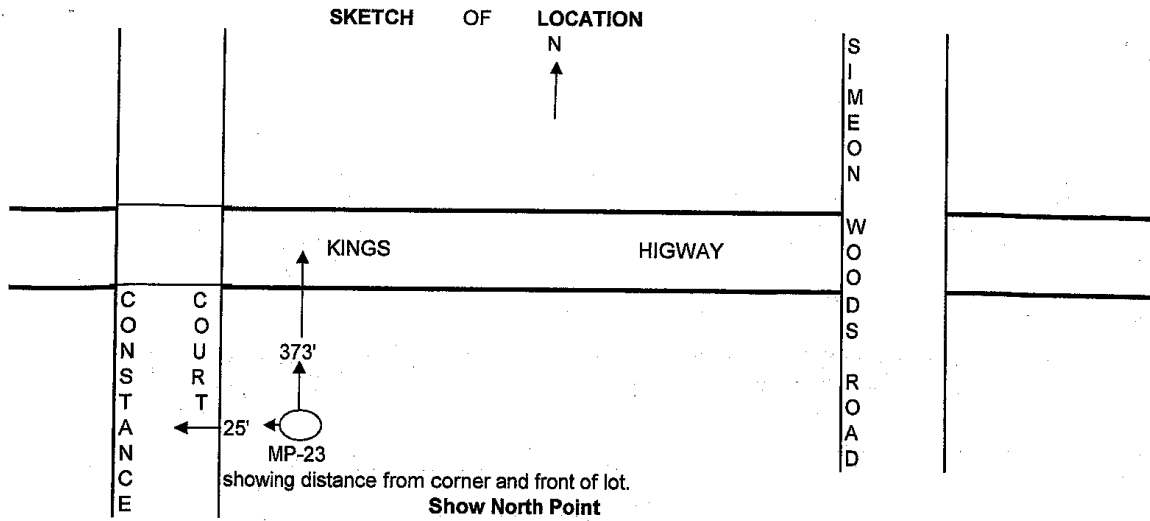
Well Number S-130892

**COMPLETION REPORT-LONG ISLAND WELL**

S-130892

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Constance court, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>150'</b>	Depth to Groundwater From Surface <b>67.30'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   in.   in.   in.		↑ 140' ↓
Length <b>145'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	↑ 150' ↓
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   in.	LEVEL DURING MAXIMUM PUMPING ft.   in.	
MAXIMUM DRAWDOWN ft.	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m.against _____ ft. of discharge head	
NUMBER OF BOWLS OR STAGES	ft. of total head	
<b>DROP LINE</b>		↓ 5' ↓
DIAMETER in.	DIAMETER in.	
Length ft.	Length in.	
<b>METHOD OF DRILLING</b>		↓ 5' ↓
<input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER Test	
WORK STARTED <b>7/26/2011</b>	COMPLETED	
DATE <b>7/26/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

Latitude N40.811673  
 Longitude W073.225197



LOCATION SKETCH		MP-23	20110071
1) Community	HAPPAUGUE	2) N.Y.S. Well#	5-130892
3) Township	ISLIP	4) Lat, Long. & Seq, #	N40.811673
5) Owner	Suffolk County Department of Health Services		W073.225197
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	7/26/2011	8) Aquifer Screened	140'-145'
9) Des. of MP			
10) Elev. of MP >	11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	150'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	67.30'
18) Use of Well	Profile	19) Quadrangle Name	

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KINGS

CONSTANCE COURT

HIGHWAY

WOODS ROAD

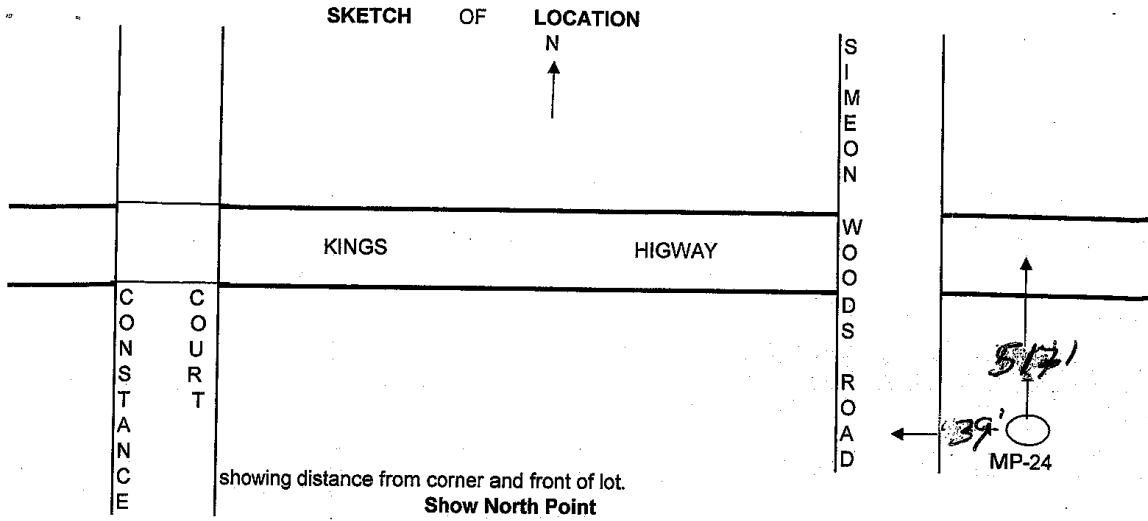
  

Sketch By	L. Velasquez	Date	7/26/2011	Hagstrom Map	15-W-17
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION Latitude N40.81113  
 Longitude W073.223443  
 County Suffolk MP-24 20110072 Well Number S-130893  
**COMPLETION REPORT-LONG ISLAND WELL** S-130893

OWNER Suffolk County Department of Health Services		LOG Ground Surface
ADDRESS 360 Yaphank Ave; Suite 1C; Yaphank, New York 11980		EL. _____ Ft. above sea
LOCATION OF WELL Simeon woods road, Happaugue		_____ ft.
Depth of Well Below Surface 150'	Depth to Groundwater From Surface 67.35'	TOP OF WELL
CASING		
Diameter 2" in.   _____ in.   _____ in.   _____ in.		
Length 145' ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING	OPENINGS	
SCREEN		
Make Johnson	OPENINGS 10slot	
Diameter 2" in.   _____ in.   _____ in.   _____ in.		
Length 5' ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
PUMP TEST		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   _____ in.	LEVEL DURING MAXIMUM PUMPING ft.   _____ in.	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m. against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES		ft. of total head _____
DROP LINE		SUCTION LINE
DIAMETER in. _____	DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger	USE OF WATER Test	
WORK STARTED 7/27/2011	COMPLETED 7/27/2011	
DATE 7/27/2011	DRILLER Luis Velasquez	REGISTRATION NO. 1854
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

Latitude N40.811113  
 Longitude W073.223443

LOCATION SKETCH		MP-24	20110072
1) Community	HAPPAUGUE	2) N.Y.S. Well#	5-130893
3) Township	ISLIP	4) Lat, Long. & Seq.#	N40.811113
5) Owner	Suffolk County Department of Health Services		W073.223443
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	7/27/2011	8) Aquifer Screened	140'-145'
9) Des. of MP			
10) Elev. of MP		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	150'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	67.35'
18) Use of Well	Profile	19) Quadrangle Name	

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KINGS HIGHWAY

CONSTANTINE COURT

WOODS ROAD

DRIVEWAY

DEAD END

MP-23

MP-24

373'

25'

39'

51.7'

Sketch By L Velasquez Date 7/27/2011 Hagstrom Map 15-X-17

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

County Suffolk MP-25 20110073 Latitude 40.812039 Longitude W073.223036  
 Well Number S-130894

### COMPLETION REPORT-LONG ISLAND WELL

LOG  
S-130894

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Simeon woods road, Happaugue</b>		
Depth of Well Below Surface <b>150'</b>	Depth to Groundwater From Surface <b>51.90'</b>	_____ ft.
<b>CASING</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>145'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING		OPENINGS
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST	MAXIMUM DISCHARGE	
days _____ hours _____	gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft.   _____ in.	LEVEL DURING MAXIMUM PUMPING ft.   _____ in.	
MAXIMUM DRAWDOWN ft.   _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m. against _____ ft. of discharge head	
NUMBER OF BOWLS OR STAGES	ft. of total head	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>		USE OF WATER <b>Test</b>
WORK STARTED <b>7/28/2011</b>	COMPLETED <b>7/28/2011</b>	
DATE <b>7/28/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

140'

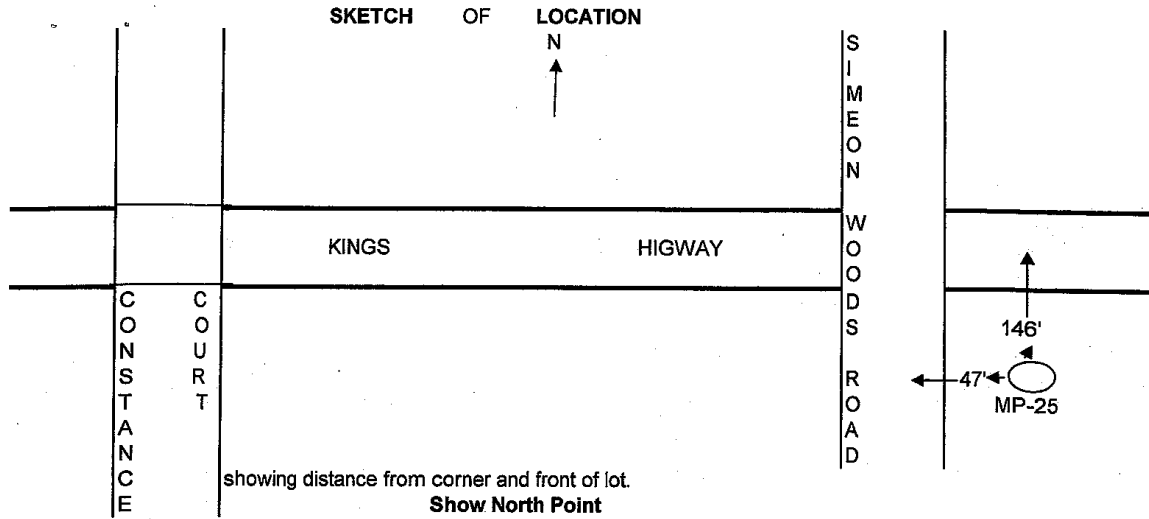
150'

5'

5'

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ORIGINAL- Environmental Conservation Copy



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

Latitude N40.812039  
 Longitude W073.223036

LOCATION SKETCH		MP-25	20110073
1) Community	HAPPAUGUE		2) N.Y.S. Well# <i>5-170894</i>
3) Township	ISLIP		4) Lat, Long. & Seq.# N40.812039
5) Owner	Suffolk County Department of Health Services		W073.223036
6) Address	220 Rabro Drive East Hauppauge N.Y.		
7) Completion Date of Well	7/28/2011	8) Aquifer Screened	140'-145'
9) Des. of MP			
10) Elev. of MP >	11) Elev. of Land Surface		
12) MP At	at/above/below Land Surface		13) Diam. of Casing 2"
14) Well Depth	150'	15) Screened Interval	5'
16) Type of Well	PVC		17) Depth to Water 51.90'
18) Use of Well	Profile		19) Quadrangle Name
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>N</p> </div> <div style="writing-mode: vertical-rl; text-orientation: mixed;"> <p>S I M E O N</p> </div> </div>			
<p>The sketch shows a property layout. At the top is 'KINGS HIGHWAY'. Below it is a 'DRIVEWAY' leading to a 'DEAD END' area. A 'COURT' is shown on the left, and 'WOODS ROAD' is on the right. Well locations are marked: MP-23 is 25' from the driveway; MP-24 is 3' from Woods Road; MP-25 is 39' from Woods Road and 146' from the driveway. Distances from Kings Highway are 373' to the driveway and 517' to MP-24.</p>			
Sketch By	L Velasquez	Date	7/28/2011
		Hagstrom Map	15-X-17

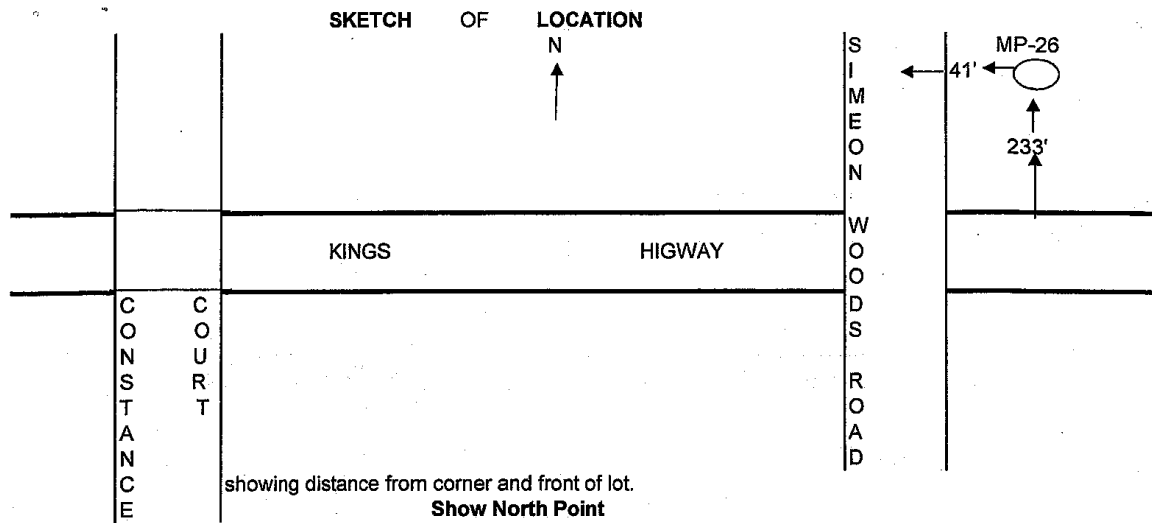
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION Latitude N40.813076  
 Longitude W073.222728  
 County Suffolk MP-26 20110074 Well Number S-130895  
**COMPLETION REPORT-LONG ISLAND WELL** S-130895

*Maggio*

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Simeon woods road, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>140'</b>	Depth to Groundwater From Surface <b>38.70'</b>	<b>TOP OF WELL</b>
CASING		
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>135'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
SCREEN		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
PUMP TEST		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
PUMPING INSTALLED		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____		ft. of discharge head _____
NUMBER OF BOWLS OR STAGES		ft. of total head _____
DROP LINE		SUCTION LINE
DIAMETER in. _____	DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger	USE OF WATER Test	
WORK STARTED <b>8/1/2011</b>	COMPLETED <b>8/1/2011</b>	
DATE <b>8/1/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

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**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

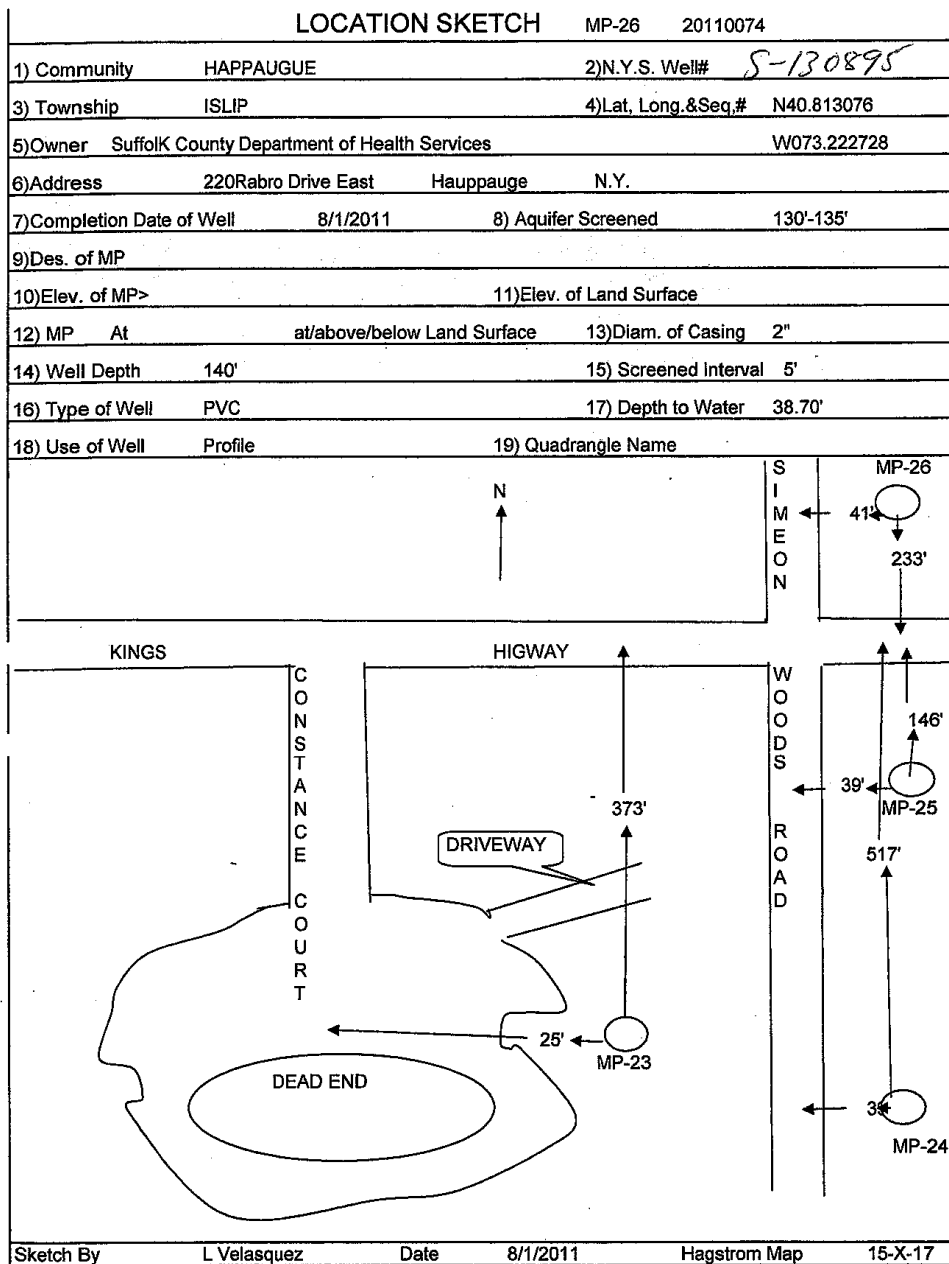
**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton
- Huntington       Islip       Riverhead
- Shelter Island       Smithtown       Southampton
- Southold

Latitude N40.813076  
 Longitude W073.222728



NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION		Latitude	N40.618030	
County		Longitude	W073.219358	
Suffolk	MP-28	Well Number	S-131009	
20110109		S-131009		
<b>COMPLETION REPORT-LONG ISLAND WELL</b>				
OWNER			LOG	
Suffolk County Department of Health Services			Ground Surface	
ADDRESS			EL. _____ Ft. above sea	
360 Yaphank Ave; Suite 1C; Yaphank, New York 11980				
LOCATION OF WELL				
Harrison ave, Happaugue				
Depth of Well Below Surface		Depth to Groundwater From Surface		
140'		6.62'		
<b>CASING</b>				
Diameter				
2" in.   in.   in.   in.				
Length				
135' ft.   ft.   ft.   ft.				
SEALING				
OPENINGS				
<b>SCREEN</b>				
Make				
Johnson				
Diameter				
2" in.   in.   in.   in.				
Length				
5' ft.   ft.   ft.   ft.				
DEPTH TO TOP FROM TOP OF CASING				
<b>PUMP TEST</b>				
DATE				
TEST OR PERMANENT PUMP				
DURATION OF TEST				
MAXIMUM DISCHARGE				
STATIC LEVEL PRIOR TO TEST				
LEVEL DURING MAXIMUM PUMPING				
MAXIMUM DRAWDOWN				
Approx. time of return level after of pumping				
<b>PUMPING INSTALLED</b>				
TYPE				
MAKE				
MODEL NUMBER				
MOTIVE POWER				
MAKE				
H.P.				
Capacity				
g.p.m. against   ft. of discharge head				
NUMBER OF BOWLS OR STAGES				
ft. of total head				
<b>DROP LINE</b>				
<b>SUCTION LINE</b>				
DIAMETER				
in.   in.				
Length				
ft.   in.				
METHOD OF DRILLING				
<input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other Auger				
USE OF WATER				
Test				
WORK STARTED				
COMPLETED				
DATE				
10/17/2011   10/18/2011				
DATE				
10/18/2011				
DRILLER				
Luis Velasquez				
REGISTRATION NO.				
1854				
NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.				

TOP OF WELL

130'

140'

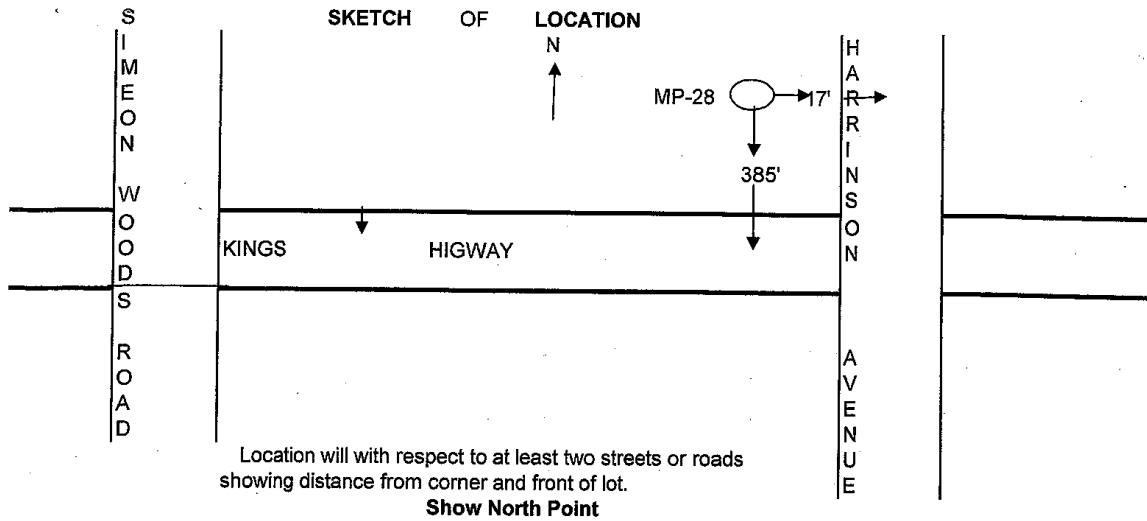
5'

5'

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**ORIGINAL- Environmental Conservation Copy**



**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

Latitude N40.816535  
 Longitude W072.219358

LOCATION SKETCH		MP-28	20110109
1) Community	Happauge	2) N.Y.S. Well#	S-17/009
3) Township	Islip	4) Lat, Long.&Seq,#	N40.816535
5) Owner	Suffolk County Department of Health Services		w073.219358
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	10/18/2011	8) Aquifer Screened	130'-135'
9) Des. of MP			
10) Elev. of MP>		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	140'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	6.62'
18) Use of Well	Profile	19) Quadrangle Name	

The sketch shows a well labeled 'MP-28' represented by a circle. A north arrow points upwards. The well is located 17 feet east and 385 feet south of the intersection of Kings Highway and Wheeler Road. Other roads shown include Simeon Woods, Harriinson Ave, and Wheeler Road. A 'dead end' label is present near Harriinson Ave.

Sketch By	L. Velasquez	Date	10/18/2011	Hagstrom Map	15-X-18
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Latitude N40.813421  
 Longitude W073.220897  
 Well Number ~~S-131009~~

County Suffolk MP-29 20110117

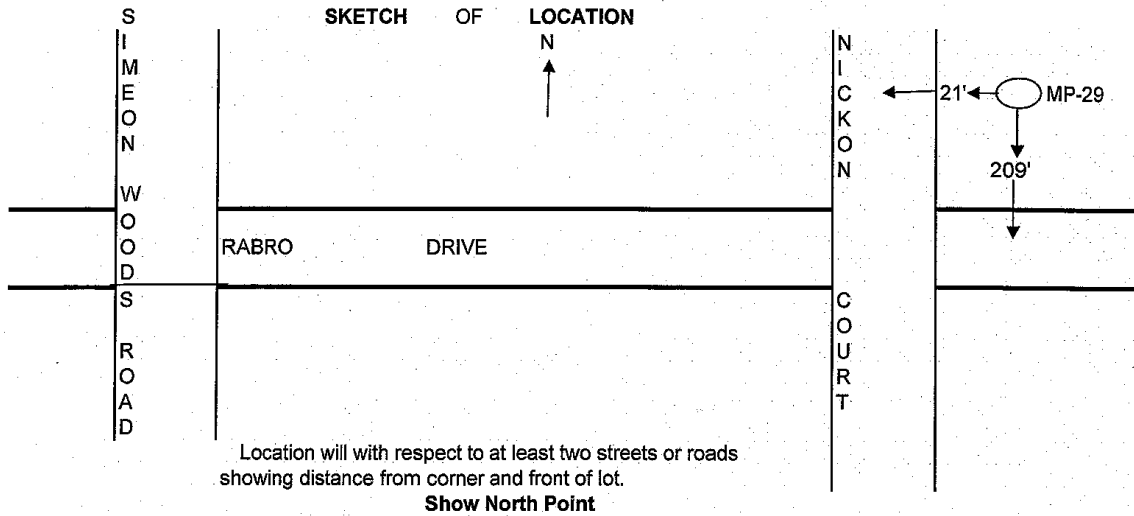
**COMPLETION REPORT-LONG ISLAND WELL**

*5-131236*

*Maggia*

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Nickon court, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>25'20"</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>115'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity	g.p.m.against _____	ft. of discharge head _____
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>	
WORK STARTED <b>12/8/2011</b>	COMPLETED <b>12/8/2011</b>	
DATE <b>12/8/2011</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
<p>*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.</p>		

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**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton  
 Huntington       Islip       Riverhead  
 Shelter Island       Smithtown       Southampton  
 Southold

Latitude N40.813421  
 Longitude W073.220897

LOCATION SKETCH		MP-29	20110117
1) Community	Happauge	2) N.Y.S. Well#	5-131236
3) Township	Islip	4) Lat, Long. & Seq.#	N40.813421
5) Owner	Suffolk County Department of Health Services		w073.220897
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	12/8/2011	8) Aquifer Screened	110'-115'
9) Des. of MP			
10) Elev. of MP >		11) Elev. of Land Surface	
12) MP	At	at/above/below Land Surface	13) Diam. of Casing 2"
14) Well Depth	120'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	25.20'
18) Use of Well		19) Quadrangle Name	
Profile			

The sketch shows a grid of roads: Kings Highway (top), Rabro Drive (middle), and Curt Road (bottom). Harrington Avenue runs north-south through the center, and Wheeler Road runs north-south on the right. Simeon Woods is on the left. Well MP-28 is marked with a circle at the intersection of Kings Highway and Harrington Avenue, with dimensions 385' south and 17' east. Well MP-29 is marked with a circle at the intersection of Rabro Drive and Curt Road, with dimensions 209' south and 21' west. A north arrow is shown in the upper left.

Sketch By	L Velasquez	Date	12/8/2011	Hagstrom Map	15-X-18
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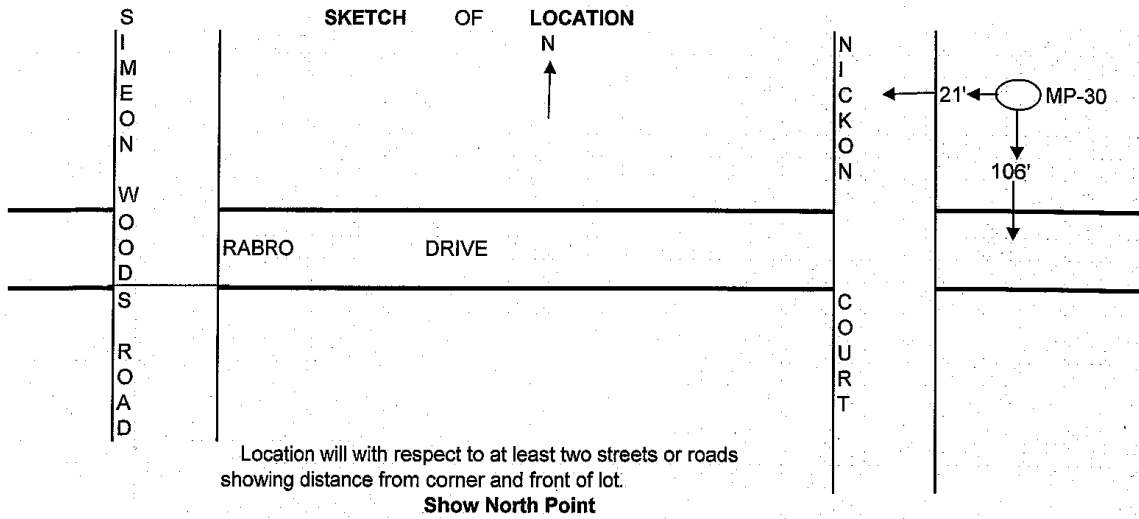
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION Latitude N40.512929  
 Longitude W073.220802  
 County Suffolk MP-30 20120008 Well Number S-181857

**COMPLETION REPORT-LONG ISLAND WELL**

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Nickon court, Happaugue</b>		_____ ft.
Depth of Well Below Surface <b>120'</b>	Depth to Groundwater From Surface <b>29.34'</b>	<b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		↑ 110' ↓
Length <b>115'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	↑ 120' ↓
Diameter <b>2"</b> in.   _____ in.   _____ in.   _____ in.		
Length <b>5'</b> ft.   _____ ft.   _____ ft.   _____ ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		↓ 5' ↓
DIAMETER _____ in.	DIAMETER _____ in.	
Length _____ ft.	Length _____ in.	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>	
WORK STARTED DATE <b>1/23/2012</b>	COMPLETED DATE <b>1/23/2012</b>	
DATE <b>1/23/2012</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		

*Mag9910*

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**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- |                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <input type="checkbox"/> Hempstead | <input type="checkbox"/> North Hempstead | <input type="checkbox"/> Oyster Bay |
|------------------------------------|--|-------------------------------------|

**Suffolk County**

- |   |   |                                       |
|---|---|---------------------------------------|
| <input type="checkbox"/> Babylon        | <input type="checkbox"/> Brookhaven       | <input type="checkbox"/> East Hampton |
| <input type="checkbox"/> Huntington     | <input checked="" type="checkbox"/> Islip | <input type="checkbox"/> Riverhead    |
| <input type="checkbox"/> Shelter Island | <input type="checkbox"/> Smithtown        | <input type="checkbox"/> Southampton  |
| <input type="checkbox"/> Southold       |   |                                       |

Latitude N40.812929  
 Longitude W073.220802

LOCATION SKETCH		MP-30	20120008
1) Community	Happauge	2) N.Y.S. Well#	5-131237
3) Township	Islip	4) Lat, Long.&Seq.#	N40.812929
5) Owner	Suffolk County Department of Health Services		w073.220802
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	1/23/2012	8) Aquifer Screened	110'-115'
9) Des. of MP			
10) Elev. of MP >		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	120'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	29.34'
18) Use of Well	Profile	19) Quadrangle Name	

The sketch shows a grid of roads: SIMMONS WOODS (north-south), WHEELER ROAD (north-south), KINGS HIGHWAY (east-west), RABRO DRIVE (east-west), and NICKSON DRIVE (north-south). Well MP-28 is located 385 feet south and 17 feet east of a 'dead end' on SIMMONS WOODS. Well MP-29 is located 194 feet south and 21 feet west of well MP-30. Well MP-30 is located 106 feet south of well MP-29. A north arrow is shown in the upper left quadrant.

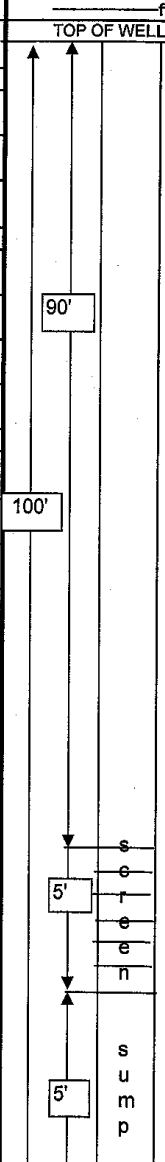
Sketch By	L Velasquez	Date	1/23/2012	Hagstrom Map	15-W-18
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NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
 County Suffolk MP-31 20120009 Latitude N40.814013  
 Longitude W073.320887  
 Well Number S-131238

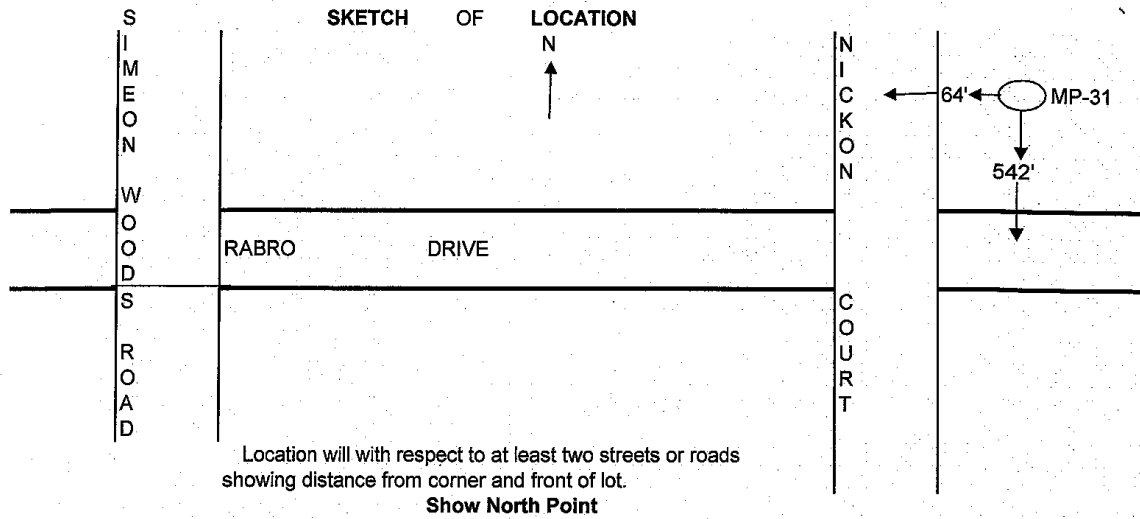
**COMPLETION REPORT-LONG ISLAND WELL**

*Maggid*

OWNER <b>Suffolk County Department of Health Services</b>		LOG Ground Surface
ADDRESS <b>360 Yaphank Ave; Suite 1C; Yaphank, New York 11980</b>		EL. _____ Ft. above sea
LOCATION OF WELL <b>Nickon court, Happaugue</b>		
Depth of Well Below Surface <b>100'</b>	Depth to Groundwater From Surface <b>20.55'</b>	_____ ft. <b>TOP OF WELL</b>
<b>CASING</b>		
Diameter <b>2"</b> in.   in.   in.   in.		↑ 90' ↓
Length <b>95'</b> ft.   ft.   ft.   ft.		
SEALING	OPENINGS	
<b>SCREEN</b>		
Make <b>Johnson</b>	OPENINGS <b>10slot</b>	↑ 100' ↓
Diameter <b>2"</b> in.   in.   in.   in.		
Length <b>5'</b> ft.   ft.   ft.   ft.		
DEPTH TO TOP FROM TOP OF CASING		
<b>PUMP TEST</b>		
DATE	TEST OR PERMANENT PUMP	
DURATION OF TEST days _____ hours _____	MAXIMUM DISCHARGE gallons per min. _____	
STATIC LEVEL PRIOR TO TEST ft. _____ in. _____	LEVEL DURING MAXIMUM PUMPING ft. _____ in. _____	
MAXIMUM DRAWDOWN ft. _____	Approx. time of return level after of pumping hours _____ min. _____	
<b>PUMPING INSTALLED</b>		
TYPE	MAKE	MODEL NUMBER
MOTIVE POWER	MAKE	H.P.
Capacity g.p.m.against _____	ft. of discharge head _____	
NUMBER OF BOWLS OR STAGES	ft. of total head _____	
<b>DROP LINE</b>		<b>SUCTION LINE</b>
DIAMETER in. _____	DIAMETER in. _____	
Length ft. _____	Length in. _____	
METHOD OF DRILLING <input type="checkbox"/> rotary <input type="checkbox"/> cable tool <input checked="" type="checkbox"/> other <b>Auger</b>	USE OF WATER <b>Test</b>	
WORK STARTED <b>1/24/2012</b>	COMPLETED <b>1/24/2012</b>	
DATE <b>1/24/2012</b>	DRILLER <b>Luis Velasquez</b>	REGISTRATION NO. <b>1854</b>
*NOTE: Show log of well materials encountered with depth below ground surface water bearing beds and water levels in each casing screen pump additional pumping test and other matters of interest. Describe repair job. See instructions as to Well Driller's Regulation and Reports.		



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**Check THE TOWN IN WHICH THE PROJECT IS LOCATED:**

**NASSU COUNTY**

- Hempstead       North Hempstead       Oyster Bay

**Suffolk County**

- Babylon       Brookhaven       East Hampton

- Huntington       Islip       Riverhead

- Shelter Island       Smithtown       Southampton

- Southold

Latitude N40.814013  
 Longitude W073.320887

LOCATION SKETCH		MP-31	20120009
1) Community	Happauge	2) N.Y.S. Well#	<i>P-131238</i>
3) Township	Islip	4) Lat, Long. & Seq.#	N40.814013
5) Owner	Suffolk County Department of Health Services		w073.320887
6) Address	220 Rabro Drive East	Hauppauge	N.Y.
7) Completion Date of Well	1/24/2012	8) Aquifer Screened	90'-95'
9) Des. of MP			
10) Elev. of MP >		11) Elev. of Land Surface	
12) MP At	at/above/below Land Surface	13) Diam. of Casing	2"
14) Well Depth	100'	15) Screened Interval	5'
16) Type of Well	PVC	17) Depth to Water	20.55'
18) Use of Well	Profile	19) Quadrangle Name	
<p>The sketch shows a grid of roads: SIMMONS WOODS ROAD, WHEELER ROAD, KINGS HIGHWAY, RABRO DRIVE, and CORT. Well MP-28 is located 385' south of SIMMONS WOODS ROAD and 17' west of WHEELER ROAD. Well MP-31 is located 64' west of WHEELER ROAD and 242' north of RABRO DRIVE. Other wells MP-29 and MP-30 are also shown with their respective distances from the roads.</p>			
Sketch By	L Velasquez	Date	1/24/2012
		Hagstrom Map	15-W-18

Appendix D: Technical Data: RI & IRM, 1735 Express Drive North

FPM Group, Ltd.  
FPM Engineering Group, P.C.  
*formerly Fanning, Phillips and Molnar*

CORPORATE HEADQUARTERS  
909 Marconi Avenue  
Ronkonkoma, NY 11779  
631/737-6200  
Fax 631/737-2410

**VIA EMAIL**

December 4, 2015

Mr. Brian Jankauskas  
NYSDEC  
Division of Environmental Remediation  
625 Broadway  
Albany, NY 12233-7016

Re: **Remedial Investigation Data Transmittal**  
**1735 Express Drive North, Site #C152238**  
**1735 Express Drive North, Hauppauge, New York**  
**FPM File No. 894-14-05**

Dear Brian:

FPM Group (FPM) is hereby transmitting this interim report for the groundwater data obtained during the Remedial Investigation (RI) at the above-referenced site. This transmittal includes copies of the lab reports, summary data tables, and a site plan showing the sampling locations. This transmittal does not include a full discussion of sampling procedures, quality assurance/quality control, data usability, or other details; this information will be detailed in the RI Report.

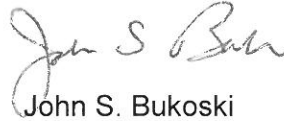
Groundwater sampling was performed in September 2015 at four onsite wells (MW-1 through MW-4) and eight offsite wells (MP-3, MP-4, MP-5, MP-12, MP-13, MP-14, MP-25, and MP-26) to evaluate current groundwater conditions at the site and downgradient. Samples were collected and managed in accordance with the procedures in the approved RI Work Plan. The data are summarized in Tables 1 and 2; the locations are shown on the attached figure along with the corresponding well screen depth and total VOC concentration detected.

A summary of previous sampling locations and the current status of monitoring wells related to the site is shown on Table 3. Monitoring wells that have been confirmed present are shaded. Sampling locations that are not shaded were either temporary well locations or have not been located as of this transmittal.

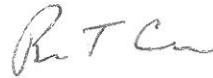


Should you have any questions please feel free to contact us at (631) 737-6200.

Sincerely,



John S. Bukoski  
Environmental Scientist  
Project Manager



Ben T. Cancemi  
Senior Hydrogeologist  
Department Manager

JSB/BTC:tac  
Enclosures

cc: James Maggio

S:\Maggio\RI\Data\NYSDEC data transmittal\DEC2015.Docx

**TABLE 1**  
**GROUNDWATER MONITORING RESULTS - ONSITE WELLS**  
**1735 EXPRESS DRIVE NORTH, HAUPPAUGE, NEW YORK**

Sample Location	MW-1							NYSDEC Class GA Ambient Water Quality Standards
	Sample Date	1/17/08	5/9/08	10/8/08	3/19/09	5/25/11	10/21/11	
<b><i>Volatile Organic Compounds in µg/l</i></b>								
1,1,1-Trichloroethane	ND	<b>170</b>	<b>200</b>	<b>29</b>	<b>27</b>	<b>96</b>	<b>16</b>	5
1,2,4-Trimethylbenzene	ND	<b>17</b>	ND	ND	ND	ND	ND	5
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.42 J	ND	ND	5
1,1-Dichloroethane	ND	ND	<b>16</b>	ND	3.8 J	<b>15</b>	3.3	5
1,1-Dichloroethylene	ND	ND	ND	ND	1.7 J	4.6 J	2.4	5
Chloroform	ND	ND	ND	ND	ND	ND	0.53 J	5
cis-1,2-Dichloroethylene	ND	<b>230</b>	ND	<b>110</b>	<b>120</b>	<b>370</b>	<b>73</b>	5
trans-1,2-Dichloroethylene	ND	ND	<b>6</b>	ND	2.4 J	<b>8.0</b>	1.4	5
Ethylbenzene	ND	<b>22</b>	ND	ND	1.0 J	ND	ND	5
Methylene chloride	ND	ND	ND	ND	ND	<b>5.8 JB</b>	ND	5
Xylene (total)	ND	<b>81</b>	<b>20</b>	ND	5.0 J	ND	ND	5
Tetrachloroethene	<b>1,100</b>	<b>130</b>	<b>150</b>	<b>37</b>	<b>26</b>	<b>66</b>	<b>13</b>	5
Toluene	ND	<b>7</b>	ND	ND	0.55 J	ND	ND	5
Trichloroethylene	ND	<b>210</b>	<b>68</b>	<b>10</b>	<b>15</b>	<b>47</b>	<b>8.4</b>	5
Total VOCs (rounded)*	1,100	867	460	186	203	607	118	-

**Notes:**

ND = Not Detected

NYSDEC = New York State Department of Environmental Conservation

**Bold** and shaded values exceed NYSDEC Class GA Ambient Water Quality Standards

µg/l = micrograms per liter

\* = Excludes suspected lab contamination (methylene chloride).

*FPM*

**TABLE 1 CONTINUED**  
**GROUNDWATER MONITORING RESULTS - ONSITE WELLS**  
**1735 EXPRESS DRIVE NORTH, HAUPPAUGE, NEW YORK**

Sample Location	MW-2S					MW-2I					MW-2D					NYSDEC Class GA Ambient Water Quality Standards
	85-87					95-97					105-107					
Depth (feet below grade)	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	
Sample Date	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	6/17/10	1/5/11	5/25/11	10/21/11	9/28/15	
<i>Volatile Organic Compounds in µg/l</i>																
1,1,1,2-Tetrachloroethane	ND	ND	1.0 J	ND	ND	ND	ND	0.80 J	ND	ND	ND	ND	ND	ND	ND	5
1,1,1-Trichloroethane	<b>72</b>	<b>100</b>	<b>220 J</b>	<b>23</b>	0.60 J	<b>51</b>	<b>160</b>	<b>150 J</b>	<b>31</b>	<b>13 J</b>	<b>19</b>	<b>8.8</b>	<b>27</b>	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	ND	0.81 J	ND	ND	ND	ND	0.76 J	ND	ND	ND	ND	ND	ND	2.5 J	5
1,1,2-Trichloroethane	ND	ND	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	<b>7.5</b>	ND	<b>17</b>	1.7 J	ND	<b>5.3</b>	ND	<b>17</b>	2.0 J	ND	1.9 J	ND	1.2 J	ND	ND	5
1,1-Dichloroethylene	ND	ND	<b>5.4</b>	ND	ND	ND	ND	<b>5.3</b>	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichlorobenzene	ND	ND	1.0 J	ND	ND	ND	ND	1.6 J	ND	ND	ND	ND	ND	ND	ND	5
1,2-Dichloroethane	ND	ND	1.3 J	ND	ND	ND	ND	1.2 J	ND	ND	ND	ND	ND	ND	ND	5
1,3-Dichlorobenzene	ND	ND	0.48 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
1,4-Dichlorobenzene	ND	ND	0.96 J	ND	0.34 J	ND	ND	0.85 J	ND	ND	ND	ND	ND	ND	ND	5
Carbon tetrachloride	ND	ND	2.2 J	ND	ND	ND	ND	2.2 J	ND	ND	ND	ND	ND	ND	ND	5
Chloroform	2.5 J	ND	<b>5.8</b>	ND	0.26 J	1.9 J	ND	<b>5.6</b>	ND	ND	1.3 J	ND	0.43 J	ND	ND	7
cis-1,2-Dichloroethylene	<b>190</b>	<b>140</b>	<b>470</b>	<b>70</b>	<b>9.8</b>	<b>140</b>	<b>500</b>	<b>370</b>	<b>76</b>	<b>99</b>	<b>48</b>	<b>24</b>	<b>25</b>	ND	<b>69</b>	5
Ethylbenzene	ND	ND	ND	ND	ND	ND	<b>28 J</b>	ND	ND	ND	ND	ND	ND	ND	ND	5
Methylene chloride	5.0 JB	3.8 JB	ND	<b>8.6 JB</b>	ND	4.6 JB	4.6 JB	ND	<b>9.0 JB</b>	ND	4.4 JB	1.9 JB	ND	1.5 JB	ND	5
Naphthalene	ND	ND	0.54 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
o-xylene	ND	<b>20 J</b>	1.4 J	ND	ND	ND	<b>69 J</b>	<b>5.3</b>	ND	ND	ND	ND	0.97 J	ND	ND	5
p&m-xylenes	ND	<b>28 J</b>	0.65 J	ND	ND	ND	<b>120 J</b>	ND	ND	ND	ND	ND	ND	ND	ND	5
Tetrachloroethene	<b>300</b>	<b>1,900</b>	<b>2,300</b>	<b>180</b>	<b>190</b>	<b>170</b>	<b>2,800</b>	<b>1,700</b>	<b>400</b>	<b>4,200</b>	<b>89</b>	<b>220</b>	<b>330</b>	1.1 J	<b>1,200</b>	5
Toluene	ND	<b>46 J</b>	0.45 J	ND	ND	ND	<b>89 J</b>	0.35 J	ND	ND	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethylene	1.9 J	ND	<b>12</b>	1.0 J	ND	1.4 J	ND	<b>12</b>	1.5 J	ND	2.6 J	ND	0.84 J	ND	ND	5
Trichloroethylene	<b>380</b>	<b>750</b>	<b>1,300</b>	<b>100</b>	<b>37</b>	<b>220</b>	<b>1,600</b>	<b>990</b>	<b>150</b>	<b>230</b>	<b>110</b>	<b>120</b>	<b>130</b>	ND	<b>94</b>	5
Total VOCs (rounded)*	954	2,984	4,344	376	238	590	5,366	3,263	661	4,542	272	373	515	1.1	1,365	-

**Notes:**

ND = Not Detected

NYSDEC = New York State Department of Environmental Conservation

**Bold** and shaded values exceed NYSDEC Class GA Ambient Water Quality Standards

µg/l = micrograms per liter

\* = Excludes suspected lab contamination (methylene chloride).

**TABLE 1 CONTINUED**  
**GROUNDWATER MONITORING RESULTS - ONSITE WELLS**  
**1735 EXPRESS DRIVE NORTH, HAUPPAUGE, NEW YORK**

Sample Location	MW-3		MW-4		NYSDEC Class GA Ambient Water Quality Standards
Depth (feet below grade)	85-87	100-102	85-87	100-102	
Sample Date	9/28/15				
<b><i>Volatile Organic Compounds in µg/l</i></b>					
1,1,1-Trichloroethane	3.3	<b>12</b>	ND	ND	5
1,1,2,2-Tetrachloroethane	ND	0.59 J	ND	ND	5
1,1,2- Trichloroethane	ND	0.90 J	ND	ND	1
1,4-Dichlorobenzene	ND	ND	0.78 J	0.57 J	5
Acetone	ND	ND	24 *	ND	50
Chloroform	ND	0.71 J	ND	ND	7
cis-1,2-Dichloroethene	<b>25</b>	<b>76</b>	0.98 J	0.35 J	5
Methylene Chloride	ND	ND	ND	ND	5
Tetrachloroethene	<b>410</b>	<b>700</b>	<b>250</b>	<b>130</b>	5
trans-1,2-Dichloroethene	ND	1.4 J	ND	ND	5
Trichloroethene	<b>35</b>	<b>96</b>	<b>11</b>	<b>5.2</b>	5
Total VOCs (rounded)*	473	888	263	136	-

**Notes:**

ND = Not Detected

NYSDEC = New York State Department of Environmental Conservation

**Bold** and shaded values exceed NYSDEC Class GA Ambient Water Quality Standards

µg/l = micrograms per liter

\* = Excludes suspected lab contamination (methylene chloride and acetone).

**TABLE 2  
GROUNDWATER MONITORING RESULTS - OFFSITE WELLS  
1735 EXPRESS DRIVE NORTH, HAUPPAUGE, NEW YORK**

Sample Location	MP-3	MP-4		MP-5	MP-12	MP-13	MP-14	MP-25	MP-26	NYSDEC Class GA Ambient Water Quality Standards
Depth (feet below grade)	100-105	100-105	110-115	120-125	100-105	100-105	100-105	60-65	90-95	
Sample Date	9/18/15	9/18/15	9/18/15	9/18/15	9/18/15	9/28/15	9/28/15	9/18/15	9/28/15	
<b><i>Volatile Organic Compounds in µg/l</i></b>										
1,1,1-Trichloroethane	ND	1.3	<b>7.5</b>	2.8	ND	ND	ND	ND	ND	5
1,1,2-Trichloroethane	ND	ND	0.49 J	ND	ND	ND	ND	ND	ND	5
1,1- Dichloroethane	ND	ND	1.0	0.30 J	ND	ND	ND	ND	ND	5
1,1- Dichloroethene	ND	ND	0.72 J	ND	ND	ND	ND	ND	ND	5
Chloroform	ND	ND	0.73 J	0.36 J	ND	ND	ND	0.57 J	ND	7
Dichlorobromomethane	ND	ND	ND	ND	ND	ND	ND	0.17 J	ND	5
cis-1,2-Dichloroethene	ND	<b>9.1</b>	<b>63</b>	<b>15</b>	ND	0.34 J	ND	ND	ND	5
Tetrachloroethene	0.57 J	<b>45</b>	<b>230</b>	<b>63</b>	ND	1.6	ND	0.58 J	ND	5
trans-1,2-Dichloroethene	ND	ND	0.51 J	ND	ND	ND	ND	ND	ND	5
Trichloroethene	0.53 J	<b>27</b>	<b>160</b>	<b>48</b>	ND	2.2	ND	0.53 J	ND	5
Total VOCs (rounded)*	1	82	464	129	0	4	0	2	0	-

**Notes:**

ND = Not Detected

NYSDEC = New York State Department of Environmental Conservation

**Bold** and shaded values exceed NYSDEC Class GA Ambient Water Quality Standards

µg/l = micrograms per liter

**TABLE 3**  
**Well Inventory**  
**1735 Express Drive North**

Well	Relative TOC Elevation	DTW AUG 2015	Well Screen Interval	Relative Groundwater Elevation	Total VOCs (ppb) detected during prior offsite investigation	Total VOCs (ppb) 2015	Sampled 2015
MW-1	150	82.76	85-87	67.24		118	X
MW-2	151.15	84.16	85-87	66.99		238	X
			95-97			4,542	X
			105-107			1,365	X
MW-3	151.71	84.75	85-87	66.96		473	X
			100-102			888	X
MW-4	151.55	84.50	85-87	67.05		263	X
			100-102			136	X
MP-1	166.04	100.00	100-105	66.04	0		
			110-115		0		
			120-125		1.7		
			130-135		4.6		
			140-145		6.2		
MP-2	163.75	97.80	100-105	65.95	1.4		
			110-115		16.5		
			120-125		35.9		
			130-135		6.5		
			140-145		3		
			150-155		6.2		
			160-165		1.6		
MP-3	161.5	95.44	100-105	66.06	26.9	1	X
			110-115		627.5		
			120-125		303.4		
			130-135		0		
			140-145		51.1		
			150-155		0.7		
			160-165		0.5		
MP-4	158.35	92.42	95-100	65.93			
			100-105		10,867.8	82.0	X
			110-115		11,839	464	X
			120-125		349		
			130-135		16.3		
			140-145		5.3		
			150-155		1.9		
			160-165		41		
MP-5	155.65	89.75	90-95	65.90	35.3		
			100-105		84.8		

			110-115		4,819		
			120-125		3,569	129	X
			130-135		326		
			140-145		2.3		
			150-155		1.6		
			160-165		31		
MP-6	150.98	85.17	90-95	65.81	4.1		
			100-105		10.6		
			110-115		8.9		
			120-125		173.6		
			130-135		731		
			140-145		113.9		
			150-155		0		
			160-165		0.5		
MP-7			90-95		254.9		
	147.55	81.85	100-105	65.70	558		
			110-115		149.1		
			120-125		0		
			130-135		0		
			140-145		0		
			150-155		0		
			160-165		0.7		
MP-8			80-85		11.9		
			90-95		47.8		
	145.67	80.02	100-105	65.65	44.7		
			110-115		65.2		
			120-125		133.3		
			130-135		101.2		
			140-145		3.7		
			150-155		0		
			160-165		0.6		
MP-9			80-85		0.5		
			90-95		74		
			100-105		102		
			110-115		0.5		
			120-125		0		
			130-135		0		
			140-145		4		
			150-155		9.5		
			160-165		7.7		
MP-10			80-85		12		
			90-95		178		
	140.34	74.98	100-105	65.36	213		
			110-115		189.6		
			120-125		50.2		
			130-135		23.8		

			140-145		13.8		
			150-155		12.7		
MP-11	138.38	74.90	80-85	63.48	136.9		
			90-95		269		
			100-105		50.6		
			110-115		93.8		
			120-125		8.9		
			130-135		1.1		
			140-145		4.5		
			150-155		8		
MP-12	157.78	92.50	100-105	65.28	7.7	0	X
			110-115		55.4		
			120-125		1,138.6		
			130-135		2,907		
			140-145		46		
			150-155		6		
			160-165		2		
MP-13			100-105		46	4	X
			110-115		52		
			120-125		556		
			130-135		17,400		
			140-145		9,190		
			150-155		493		
			160-165		5.8		
MP-14	158.53	93.44	100-105	65.09	12	0	X
			110-115		11		
			120-125		61		
			130-135		1,309		
			140-145		1,818		
			150-155		7		
			160-165		25		
MP-15			40-45		0.5		
			60-65		9.1		
			70-75		9.1		
			80-85		0.7		
			90-95		3.8		
			100-105		7		
			110-115		62.7		
MP-16			50-55		0		
			60-65		0		
			70-75		0		
			80-85		0.7		
	94.51	31.24	110-115	63.27	43.4		
MP-17			40-45		25.2		
			50-55		0.8		
			60-65		0		



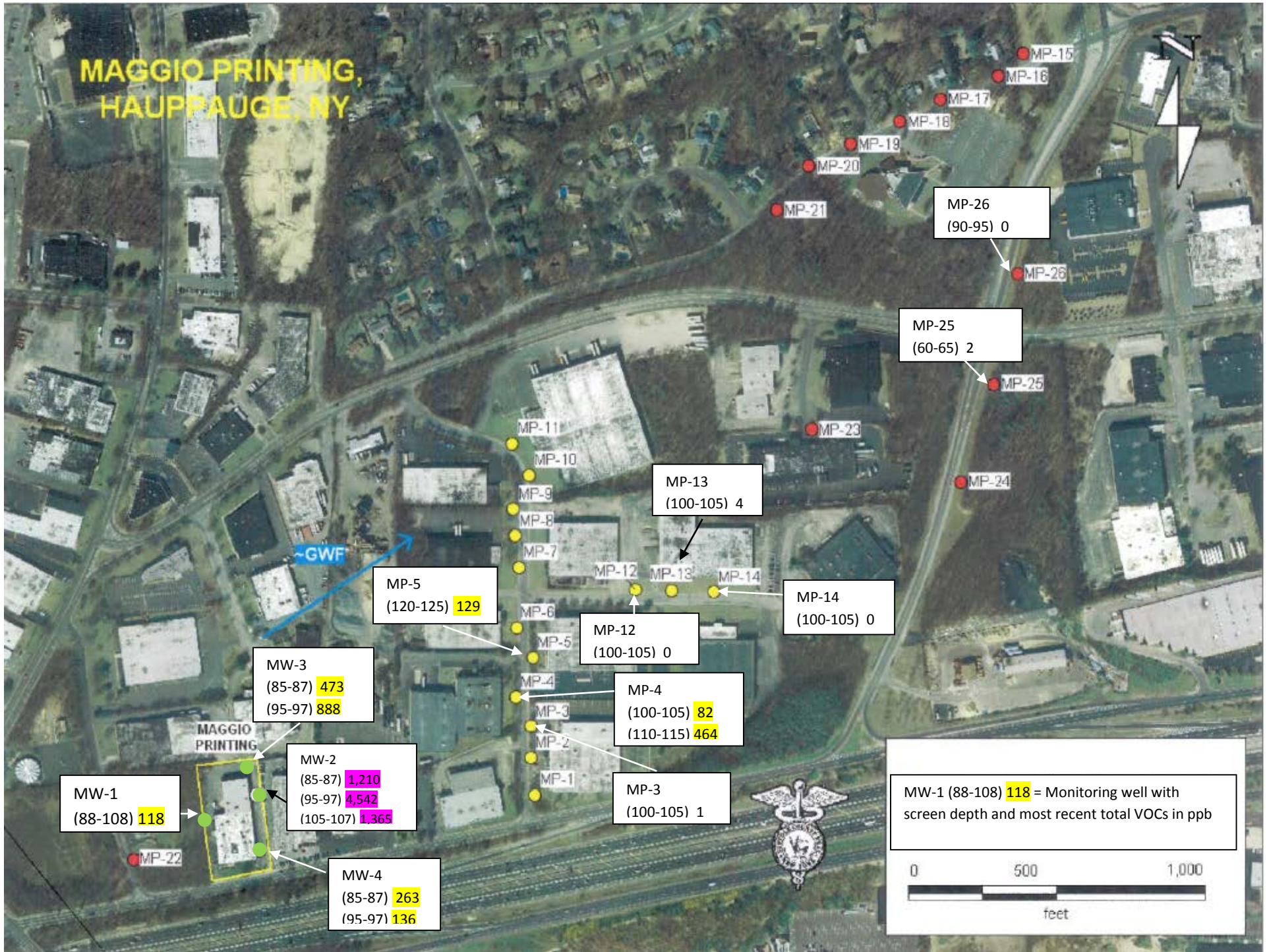
			70-75		0.6
			80-85		11.7
	96.8	33.44	90-95	63.36	268
			100-105		231.9
			110-115		26.8
			120-125		124.5
MP-19			50-55		0
			60-65		5.1
			70-75		7.8
	105.11	41.54	80-85	63.57	26.5
			90-95		13.5
			100-105		11.4
			110-115		10.1
MP-20	108.83	44.99	50-55	63.84	0.5
			60-65		0
			70-75		0
			80-85		0
			90-95		4.3
			100-105		4.9
			110-115		12
			120-125		2.1
			130-135		8.6
			140-145		9.4
			150-155		7.3
MP-21			60-65		0
			70-75		0
			80-85		4.2
	116.86	52.98	90-95	63.88	9.4
			100-105		8.4
			110-115		17
MP-22			80-85		0
			90-95		0
			100-105		0
			110-115		0
			120-125		0
			130-135		0
			140-145		6.1
			150-155		17
			160-165		34
MP-23			70-75		4.9
			80-85		6.8
			90-95		26.6
			100-105		1,008
			110-115		236
			120-125		1,836
MP-24	130.86	66.99	70-75	63.87	0
			80-85		0

			90-95		0	
			100-105		0	
			110-115		0.7	
			120-125		0	
			130-135		0	
			140-145		1	
MP-25	125.06	61.27	60-65	63.79		2
			70-75		7.4	
			80-85		30.1	
			90-95		1,200	
			100-105		2,556	
			110-115		90.9	
			120-125		574.3	
MP-26			40-45		0.7	
			50-55		1.7	
			60-65		52	
			70-75		87	
			80-85		192.5	
	101.43	37.99	90-95	63.44	419	0
			100-105		264.3	
			110-115		56.1	
			120-125		32.8	
			130-135		95.2	

**Notes:**

Monitoring wells that have been located and confirmed are shaded.

# GROUNDWATER MONITORING LOCATIONS AND 2015 RESULTS – 1735 EXPRESS DRIVE NORTH, HAUPPAUGE





# 2011 GROUNDWATER VOC CONCENTRATIONS – 1735 EXPRESS DRIVE NORTH, HAUPPAUGE

