GZA GeoEnvironmental, Inc.

FINAL
IPEC QUARTERLY LONG-TERM GROUNDWATER MONITORING REPORT
QUARTER ONE 2008
(REPORT NO. 2)
INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

PREPARED FOR:

ENTERGY NUCLEAR NORTHEAST, INC.

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BUCHANAN, NEW YORK 10511

Entergy
THE POWER OF PEOPLE™

ON BEHALF OF:
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May 15, 2008
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Re: **IPEC Quarterly Groundwater Monitoring Report**
Quarter One 2008 (Report No. 2)
Indian Point Energy Center
450 Broadway
Buchanan, New York 11501

Dear Mr. Evers:

GZA GeoEnvironmental of New York (GZA) is pleased to provide this Quarterly Groundwater Monitoring Report for our mutual client, Entergy Nuclear Northeast, Inc. for Indian Point Energy Center located at 450 Broadway, Buchanan, NY.

We trust that this information satisfies your present needs. Should you need any additional information, please do not hesitate to call us at (212) 594-8140.

Very truly yours,

GZA GEOENVIRONMENTAL OF NEW YORK

Sara Covelli
Project Engineer

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Attachments: 3 Copies

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1.0 EXECUTIVE SUMMARY

On behalf of Entergy Nuclear Northeast, Inc., GZA GeoEnvironmental of New York (GZA) has completed the Q1 2008 quarterly groundwater monitoring report for the Indian Point Energy Center (IPEC). The radionuclide concentrations measured during Q1 2008 were combined with previous quarterly data to compute rolling average concentrations reflective of groundwater contaminant levels over the past year. These data were multiplied by the associated individual groundwater flux values, derived from the Precipitation Mass Balance Model, to compute yearly average radionuclide release rates to the Discharge Canal and Hudson River. The Conceptual Site Model (CSM) continues to be validated through the ongoing verification of the Precipitation Mass Balance Model calibration, as based on groundwater elevation data collected for Q1 2008, as well as for 2007[1].

Based on the quarterly groundwater sampling data for Q1 2008, GZA concludes that groundwater contaminants continue to migrate toward the Hudson River to the West, and have not migrated off the Site to the North, East or South.

The Q1 2008 data indicate that the Unit 2 Tritium and Unit 1 Strontium plumes contain radionuclide levels that are generally at or below those measured during previous quarterly monitoring. We therefore conclude that no new leaks to groundwater have been detected in the Structures, Systems and Components (SSCs) monitored. There were, however, select instances where the currently established Investigation Levels were met. These cases are analyzed individually in the report and none were found to indicate a new leak in the SSCs. Based on the Q1 2008 data, as well as that collected during 2007, it currently appears that the Investigation Level values originally established are somewhat too sensitive relative to natural seasonal/precipitation-driven transient variations in radionuclide concentrations. As such, these existing Investigation Levels will be re-evaluated over the next quarter.

Finally, the data further indicate that the plumes have remained relatively stable since the last (Q4 2007) monitoring period, when the plumes are viewed in their entirety and the past release events and expected seasonal variability in the sampling data are accounted for. Given the above, ultimate confirmation of plume attenuation will require monitoring over a number of years to allow ranges in seasonal variation to be adequately reflected in the monitoring data. Overall, however, GZA believes that the continuing monitoring will further demonstrate decreasing long term trends in groundwater contaminant concentrations over time given the source interdictions completed, and to be completed by Entergy.

1 The formulation and basis for the Precipitation Mass Balance model, as well as the overall Conceptual Site Model, is presented in the Hydrogeologic Site Investigation Report, January 7, 2008, prepared by GZA GeoEnvironmental, Inc. on behalf of Enercon Services, Inc., for Entergy Nuclear Northeast, Indian Point Energy Center, 450 Broadway, Buchanan, NY 10511.

2.0 SCOPE OF WORK

During Q1 2008[2], GZA performed groundwater monitoring activities at Indian Point Energy Center (IPEC) in Buchanan, New York (Site) as part of IPEC's overall Long Term Groundwater Monitoring Program (LTMP) at the Site. The overall foundation for the development and execution of this LTMP is based on the Conceptual Site Model, a description contained within GZA's Hydrogeologic Site Investigation Report[3]. The scope of work completed for this quarter's monitoring is described in the Sections below. Refer to **Figures 1 and 2** for a Site Location Plan and Site Plan. **Figure 3** provides a Lower Hudson Valley Geologic Map and **Figure 4** summarizes Current and Potential Future SSC Source Locations.

2.1 Dedicated Sampling Equipment

GZA used dedicated sampling equipment, including polyethylene and/or nylon tubing and submersible electric pumps in the majority of monitoring wells designated for sampling as part of this program. The use of dedicated sampling equipment limits the possibility of cross-contamination between monitoring installations and/or individual multi-level samples within a single installation. Refer to **Table 1** for a summary of the sampling methods, equipment, frequency, and depths employed during this quarter's groundwater monitoring round.

2.2 Groundwater Elevation Measurement

GZA currently maintains transducers and dataloggers as part of the monitoring instrumentation located across the Site. These instruments record groundwater elevation and temperature measurements at regular time intervals. Transducer installation logs are presented in **Appendix B**.

Following the quarterly sampling, GZA downloaded groundwater elevation data collected by the pressure transducers over the duration of the quarter. Using these data, GZA developed maps of the Site groundwater elevation contours at low river tide conditions for the upper and lower portions of bedrock. These data are presented on **Table 2** and **Figure 5** for the January 3, 2008 tidal cycle.

The groundwater contour maps are used to compute groundwater flow gradients, which are used to provide ongoing calibration of the Precipitation Mass Balance Model (as used in IPEC's radiological dose computations – see **Section 3.1**). It is anticipated that sufficient seasonal groundwater elevation data will be collected by the end of 2008. As such, it is currently our intent to terminate groundwater elevation data collection at that time.

2.3 Groundwater Sampling

During Q1 2008, GZA collected groundwater samples for radionuclide analysis from scheduled sampling intervals within select monitoring installations ("wells") as shown in **Table 3**. Chains of Custody for samples collected by GZA are presented in **Appendix C**. In addition, GZA

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2 Refer to the "Final Quarterly Long-Term Groundwater Monitoring Report Q2–Q4 2007 (Report No. 1)", dated May 2008 for Site background information and a description of the environmental setting.
3 Hydrogeologic Site Investigation Report, January 7, 2008, prepared by GZA GeoEnvironmental, Inc, on behalf of Enercon Services, Inc., for Entergy Nuclear Northeast, Indian Point Energy Center, 450 Broadway, Buchanan, NY 10511.

split groundwater samples from select locations between Entergy, the Nuclear Regulatory Commission (NRC), and the NYSDEC (New York State Department of Environmental Conservation) GZA implemented two methods of sampling to collect representative groundwater samples: the low flow method and a modified well volume purge method. The Low Flow method allows collection of representative groundwater samples from discrete sampling zones within a monitoring installation, while limiting the accumulation of wastewater[4].

As agreed upon by Entergy Nuclear Northeast, the NRC, NYSDEC, and GZA, the modified traditional purge method[5] allows for the collection of a representative groundwater sample from a monitoring installation after purging 1.5 volumes of water. We implemented this method in wells where low flow sampling was not practical. Sampling Data Sheets summarizing water quality data and sampling information are presented in **Appendix D**.

GZA used different types of pumping equipment depending upon the sampling method and the characteristics of the individual monitoring installation[6]. **Table 1** lists the monitoring installations sampled, the sampling method and equipment used, and sampling depths and elevations.

2.4 Vapor Containment Building Foundation Drain Sampling

GZA collected water samples from three manholes on-Site to characterize discharge from foundation drains around and below the Unit 2 and 3 Vapor Containment Structures (the drains include both the foundation drains around the building periphery ("curtain drains") as well as those below the sumps near the middle of the structures). These drains are being used as an integral part of the early leak detection monitoring network. GZA sampled the east drain line in manhole MH-5 to capture drainage from the Unit 2 Vapor Containment Foundation Drains. GZA sampled the east drain line in manhole B-1 to capture drainage from the Unit 3 Vapor Containment South Curtain Drain. GZA sampled the manhole B-6 to capture drainage from the Unit 3 Vapor Containment North Curtain Drain and Sump foundation Drain[7].

2.5 Preventative Maintenance

GZA performed general wellhead maintenance tasks, such as housekeeping of well vaults and roadboxes, and replacement of dedicated sampling equipment, tubing and transducers.

4 As described in: Low-Flow Sample Collection, GZA, 7/18/2007
5 As described in: Modified Traditional Groundwater Sample Collection, GZA, 7/18/2007
6 Refer to Section 4.3 of the Final 2007 Quarterly Long-Term Groundwater Monitoring Report No. 1, dated May 2008, and prepared by GZA for a sampling method and equipment selection rationale.
7 GZA attempted to collect a discrete sample specifically representative of only the east drain line in B-6. However, the height of the water within the manhole was above the drain lines, which only permitted collection of a composite sample. A more definitive sampling solution for storm drain manhole B-6 is currently being developed.

3.0 DATA EVALUATION

The Long Term Monitoring Program was designed to provide data to address four main objectives:

1. Monitor groundwater flow rate and radionuclide concentrations to both detect and characterize current and potential future off-Site groundwater contaminant migration to the Hudson River, both via direct groundwater discharge to the river and through infiltration into the Discharge Canal, from *abnormal radionuclide releases* of liquid effluents, so as to allow computation of potential radiation dose to the public from these releases;
2. Monitor groundwater proximate to Systems, Structures and Components (SSCs) which exhibit a credible probability of resulting in a visually undetected release of radionuclides to the subsurface carrying an activity level of significance;
3. Monitor groundwater along the property boundary to confirm that contaminated groundwater is not migrating off of the property to locations other than the river; and
4. Monitor the groundwater plumes identified on-Site to demonstrate overall reductions in total activity over time as is consistent with the requirements of Monitored Natural Attenuation (MNA)[8], the selected remediation for the IPEC Site.

These objectives are consistent with and fully encompass the guidance provided in the NEI Groundwater Protection Initiative. The following sections provide data analyses to address these four objectives.

3.1 Groundwater Mass Flux

The following sections describe the computation of groundwater flow (mass flux) through the Site using the Precipitation Mass Balance Model and the verification of the calibration of this model based on the quarterly groundwater elevation monitoring data.

3.1.1 Groundwater Mass Flux Computation

As presented in the Hydrogeologic Site Investigation Report, groundwater flow in both the upper and lower flow zones is toward the power block area from the North, East and South, with subsequent discharge to the Hudson River to the West. A corollary to this conclusion is that there is no groundwater flow, and thus no radionuclide migration from the power block area to the North, East or South. Groundwater flow associated with infiltration from the watershed may be as deep as 350 feet, but still ultimately discharges to the river.

To estimate groundwater flow (i.e., groundwater mass flux) beneath the Site, an analytical groundwater flow model was constructed based on a Precipitation Mass Balance Model. This model is based on the precept that, on a long term average, the groundwater flowing through

and discharging from the aquifer is equal to the watershed infiltration recharge. The Precipitation Mass Balance Model was also calibrated to groundwater fluxes based on a Darcy's

8 The selection of MNA as the remediation for the Site is more fully discussed in the Hydrogeologic Site Investigation Report.

Law Model with gradients derived from Quarter 2 (June 2007) groundwater elevation contours[9]. This calibration not only verified the reasonableness of the overall groundwater flow rates predicted by the Precipitation Mass Balance Model, but also allowed further discretization of the groundwater flow into upper and lower flow zones as well as flow volumes upgradient and downgradient of the Discharge Canal.

The mass balance approach recognizes that the only substantial source of recharge to the aquifer is areal recharge derived from precipitation. The previous ten year average for precipitation measured at the Site is 36 inches. Based on a USGS infiltration study[10] as well as the model calibration cited above, approximately 29 percent of the precipitation falling on pervious surfaces over the Site watershed area results in infiltration recharge to the groundwater. This computation indicates that the groundwater recharge rate is approximately 10.5 inches per year for the 2007/2008 monitoring period.

Appling this information to the pervious surfaces within the six individual groundwater flow zones shown on **Figure 4**, it is estimated that approximately 5.2 gpm of groundwater flows into the Discharge Canal from the upper and lower zones. In addition, approximately 5.8 and 7.7 gpm of groundwater flows into the Hudson River from the upper and lower zones, respectively. Furthermore, the mass balance model accounts for storm water discharge[11] to both the Discharge Canal and directly to the Hudson River which are estimated to be 39 and 4 gpm, respectively. These flows can be further subdivided into flow zones as shown in the table in **Appendix** E.

3.1.2 Quarterly Groundwater Mass Flux Calibration

As indicated above, the Precipitation Mass Balance Model was calibrated to groundwater fluxes computed based on a Darcy's Law Model. The calibration compared the total groundwater flow values for each of the six flow zones computed independently[12] using the Precipitation Mass Balance Model and the Darcy's Law Model. The initial calibration was performed using gradients derived from contours of groundwater elevation measured on June, 1 2007, as described in the Hydrogeologic Site Investigation Report.

As part of the initial portions of the Long Term Monitoring Program[13], this calibration is being evaluated quarterly to verify that seasonal changes in groundwater elevations do not materially impact the calibration. Therefore, quarterly groundwater elevations measured with pressure transducers at representative low river tides[14] have been used to construct groundwater

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9 Refer to the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008.
10 USGS. Water Use, Ground-Water Recharge and Availability, and Quality of Water in the Greenwich Area, Fairfield County, Connecticut and Westchester County, New York, 2000-2002.
11 The storm drains also include groundwater discharges from the foundation drains for Unit 2 and Unit 3 VC Buildings.
12 The two models use different sets of input parameters which are not dependent or related to each other. The groundwater flow computed using the Precipitation Mass Balance Model is based on yearly precipitation amounts and the proportion of this precipitation that results in infiltration recharge to the groundwater. The Darcy's Law Model, on the other hand, is based on the measured groundwater flow gradients (as computed from groundwater elevation contours) and estimates of the formation hydraulic conductivity.
13 It is anticipated that six to eight quarters of seasonal groundwater elevation data should be sufficient to capture sufficient seasonal and yearly groundwater flow variation to verify the validity of the current calibration. It is anticipated that once these data are obtained, the model will be recalibrated to the data set that yields the largest groundwater flow values, so as to be conservative. Acquisition of groundwater elevation data will then be terminated at that point.
14 Previous evaluations (provided in the Hydrogeologic Site Investigation Report) have shown that the shape of the groundwater contours is relatively unchanged at different times of the tidal cycle. However, the use of low tide contours provides the greatest

elevation contours for the upper groundwater flow zone (water table contours) and the lower flow (potentiometric head contours), as shown in **Figure 5** for Q1 2008. As summarized on the table included below, similar calibration analyses were performed for previous quarterly monitoring (2nd, 3rd and 4th quarters of 2007)[15,16].

Figure 5 shows that the deep zone groundwater contours continue to be a subdued reflection of the upper zone groundwater contours. This demonstrates that the anthropogenic effects at the Site are generally shallow. The groundwater flows computed using the Darcy's Law Model in each of the six flow zones, for each of the four available quarterly data sets, are compared to the flows used in the calibrated Precipitation Mass Balance Model (see table below).

	PRECIPITATION MASS BALANCE MODEL (GPM)	DARCY LAW MODEL (GPM)			
	Q2 2007	Q2 2007	Q3 2007	Q4 2007	Q1 2008
Totals	**18.8**	**18.8**	**18.4**	**18.2**	**20.6**
Northern Clean Zone	1.4	0.7	0.7	0.5	0.9
Unit 2 North Zone	0.6	0.8	0.9	0.8	1.3
Unit ½ Zone	2.8	2.3	1.7	2.1	3.2
Unit 3 North Zone	3.2	4.5	4.4	4.1	5.5
Unit 3 South Zone	3.5	2.6	2.8	2.7	2.2
Southern Clean Zone	7.4	7.9	7.9	8.1	7.6

The new data for Q1 2008 show that the overall groundwater flow through the Site for this quarter is greater than previous quarters by approximately ten percent. This is as would be expected given that groundwater levels typically increase on a seasonal basis during the beginning of the year in the northeast of the country. However, this increase in flow has no material impact on the dose computations and associated results[17]. Given the small variability of flow over the seasons monitored to date, GZA believes that recalibrating the Precipitation Mass Balance Model, as used to compute groundwater flux through the Site as part of the radionuclide dose computation, is not warranted at this time[18].

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transient gradients (larger than the average gradient) and therefore result in a computed groundwater flux from the Site that is biased high. Computation of radionuclide release rates to the river based on these data will therefore also have a high bias (i.e., they will be conservative).

15 See Final 2007 Quarterly Reports dated May 1, 2008, and prepared by GZA, .

16 There was no formal 1st quarter monitoring event in 2007 given that the Long Term Monitoring Program had not yet been initiated.

17 It is noted that the increase in groundwater flow in the Unit ½ Zone is somewhat higher, approximately 15%. However, even recognizing that this zone encompasses the majority of the radionuclide migration to the river, the total dose computed with the higher groundwater flow is still a small fraction of the permitted value.

18 Once sufficient seasonal data has been collected, it is anticipated that the model will be recalibrated to the quarterly data set that yields the largest groundwater flow values, so as to be conservative.

3.2 Groundwater Sampling

The following sections describe the groundwater sampling results and associated QA/QC protocols.

3.2.1 Groundwater Sampling Results

Groundwater samples collected on behalf of Entergy during Q1 2008 were analyzed for radionuclides including Tritium, Sr-90, Cs-137, Co-60, and Ni-63 at GEL Laboratories[19]. **Table 3** presents the Q1 2008 analytical results specific to Tritium, Sr-90, Cs-137, Co-60, and Ni-63. The rolling yearly averages for the last four quarters, including Q1 2008, are also presented in **Table 3**. **Table 4** presents minimum detection concentrations (MDC), standard deviation, and Investigation Levels assigned to each well for the Q1 2008 analytical results. **Table 5** presents historic Site groundwater analytical data. Isopleth maps of rolling averages for Tritium and Sr-90 are presented in **Figures 6** and **7**, respectively. **Figure 8** presents a data map of rolling averages for Cs-137, Co-60, and Ni-63.

An overall evaluation of the sample handling, shipment and analytical procedures, indicate that the quality assurance quality control protocols have been complied with, and the analytical results should be useable. This conclusion is further supported by a review of the Q1 2008 analytical data, as compared to previous historical trends. Refer to section 5.2.2 of the Final 2007 Quarterly Long-Term Groundwater Monitoring Report No. 1 for further details pursuant to quality assurance quality control protocols.

3.3 Radionuclide Release Rates

The calibrated Precipitation Mass Balance Model groundwater flows within each of the six flow zones are multiplied by yearly rolling average radionuclide levels within each zone (computed separately for upper and lower flow zones as well as upgradient and downgradient of the Discharge Canal) to compute groundwater radionuclide release rates to the Discharge Canal and Hudson River. Storm drain flows computed based on yearly precipitation rates are multiplied by radionuclide concentrations measured in the storm drains to compute the associated storm drain radionuclide release rates to the Discharge Canal and Hudson River[20]. The selection of specific monitoring locations for each of the six zones is described in the January 25, 2008 Memorandum – Synopsis of Long Term Monitoring Plan Bases. The radionuclide release rates from the groundwater and storm drains to the Discharge Canal and Hudson River for Q1 2008 are shown in the table on the following page[21].

19 It should be noted that samples were analyzed for gamma emitters via gamma spectroscopy. Although only Co-60 and Cs-137 are reported, gamma spectroscopy could detect and identify other gamma emitters if they became present in groundwater.
20 The storm drains also include groundwater discharges from the foundation drains for Unit 2 and Unit 3 VC Buildings.
21 Activity in the Northern Clean Zone is attributable to an assumed background concentration of 150 pCi/L in the groundwater. The remaining radionuclides were assumed to not be present in this streamtube. Radionuclide release rate in the Southern Clean Zone is calculated from activity measured in monitoring wells MW-40 and MW-51.

	GROUNDWATER AND SURFACE WATER TO RIVER (CI/YR)	GROUNDWATER AND SURFACE WATER TO CANAL (CI/YR)
Northern Clean Zone	4.15E-04	0.00E+00
Unit 2 North Zone	4.55E-04	1.38E-02
Unit 1/2 Zone	1.37E-02	4.29E-03
Unit 3 North Zone	1.16E-02	1.61E-03
Unit 3 South Zone	1.04E-03	4.77E-03
Southern Clean Zone	3.33E-03	0.00E+00

Release rates are then used by Entergy to calculate the radiological dose to the environment via the Discharge Canal and the Hudson River using the procedure outlined in the Liquid Radioactive Effluents (0-CY-2740) document, prepared by Entergy and dated January 12, 2007.

3.4 SSCs and Property Boundary Monitoring

The Long Term Monitoring Program has been designed to provide rapid detection of potential leaks from Systems, Structures and Components (SSCs) which exhibit a credible probability of resulting in a visually undetected release of radionuclides to the subsurface. The monitored SSCs are shown on **Figure 4** and a description of the specific monitoring installations associated with each SSC are provided in the January 25, 2008 Memorandum – Synopsis of Long Term Monitoring Plan Bases. In addition to monitoring the SSCs, on-Site and off-Site wells are used to monitor the property boundaries for unanticipated radionuclide migration across these boundaries. Again, the rational underpinning the selection of wells designated for this purpose is provided in the January 25, 2008 Memorandum – Synopsis of Long Term Monitoring Plan Bases. These monitoring protocols are consistent with the NEI Groundwater Protection Initiative.

Investigation Levels (I.L.'s) were established for the associated monitoring wells to set quantitative radionuclide concentrations above which further action would be undertaken. As part of the ongoing groundwater monitoring program, the reported analytical concentrations are compared against the Investigation Levels shown in the table below. Investigation Levels will be computed each year based upon yearly averages of the quarterly groundwater sampling analytical results of the previous year. The I.L.'s generally described on the following page and presented in **Table 4** are established for comparison with 2008 analytical results based on the quarterly samples collected and analyzed in 2007.

WELL ID	INVESTIGATION LEVELS (I.L.'s)		
	TRITIUM PCI/L	SR-90 PCI/L	OTHER PLANT-RELATED RADIONUCLIDES
Off-Site Boundary Wells (LAF-002)	any detection[22]	any detection[22]	any detection[22]
On-Site Boundary Wells (MW-40, MW-51, MW-52, and MW-107)	1,000[23]	2[23]	any detection[22]
Riverfront Boundary Wells (MW-60, MW-62, MW-63)	2,000[23]	2[23]	any detection[22]
All Other Wells	>2x average[24]	>2x average[24]	>2x average[24]

In the event that the analytical results of a groundwater sample exceed the designated I.L., the following series of actions will be considered:

- Contact the laboratory to verify that all quality control checks were satisfactory, sufficient sample volume was used; required MDC's were met, etc.
- Re-sample the location to verify the result.
- Increase the frequency of sampling for this location.
- Initiate an investigation utilizing Entergy's corrective action program and related resources as appropriate (e.g. site engineering / radiation protection)
- Initiation of source/ground water remediation techniques commensurate with the potential dose impact analyses and good environmental stewardship

3.4.1 Boundary Investigation Levels

For the On and Off-Site Boundary Wells, a comparison of the Q1 2008 analytical results to their respective I.L. values shows that the I.L.s were not met and thus there was no cause to further investigate radionuclide activity in Off-Site or On-Site Boundary Wells.

3.4.2 SSC Investigation Levels

For the SSC monitoring wells, a comparison of the Q1 2008 analytical results to their respective I.L. values shows that the I.L.s were met in a number of cases. A subset of these wells were resampled and the results were found to no longer meet I.L. levels (see table on following page).

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22 A radionuclide is positively detected when the result is greater than or equal to the MDC and 3 times the 1 sigma uncertainty.
23 The values of 1000 and 2000 pCi/L for H-3 and 2 pCi/L for Sr-90 have been chosen to be low enough to result in timely detection of a new release or change to an existing release and still be outside the normal expected range of sample results at these locations, to the extent possible with the currently available data over time.
24 Any positively detected radionuclide that has a result greater than 2 times the average from the previous year. The IL is not reached until an H-3 result is greater than 1000 pCi/L or a Sr-90 result is greater than 2 pCi/L.

WELL ID	RADIONUCLIDE	RESULT (PCI/L)	RESAMPLED RESULT (PCI/L)	INVESTIGATION LEVEL (PCI/L)
MW-50-42	Cs-137	16.30	ND	Greater than ND
MW-50-66	Cs-137	15.60	ND	Greater than ND
MW-67-105	Cs-137	9.32	ND	Greater than ND
MW-67-173	Cs-137	5.82	ND	Greater than ND
MW-67-219	Cs-137	4.25	ND	Greater than ND
MW-67-276	Cs-137	4.55	ND	Greater than ND
MW-67-340	Cs-137	5.82	ND	Greater than ND

More specifically, low, but positive levels of Cs-137 were detected in the original set of Q1 2008 samples collected from both depth intervals in MW50 and five of the seven intervals in MW67. Quality control review of the original analyses showed no evidence of laboratory error or problems with field collection procedures. As such, a second set of samples was collected and analyzed for these locations. None of the results for these samples exceeded their respective I.L.s. In addition, it is important to note that all the previous quarterly data were below MDC and three times the one sigma uncertainty (i.e. not positive) at these locations. Therefore, any positive detection of Cs-137, no matter how low, meets the current I.L. for these samples. Furthermore, the second set of samples yielded results which were also all below MDC and three times the one sigma uncertainty values. These data, when considered collectively, suggest that the first set of results do not appropriately characterize Cs-137 activity at these locations. Therefore, the resampling data, along with a comparison to historical data, allows us to conclude that the initial Q1 2008 results for MW50 and MW67 do not indicate new leaks in the monitored SSCs.

Additional samples that meet the I.L.s are shown in the table below. These results are discussed individually below.

WELL ID	RADIONUCLIDE	RESULT (PCI/L)	INVESTIGATION LEVEL (PCI/L)
MW-36-24	H3	2,160	572
MW-37-22	H3	6,520	6,067
MW-37-32	H3	6,760	6,287
MW-41-40	Cs-137	2.67	Greater than ND
MW-44-66	Cs-137	17.3	Greater than ND
MW-44-102	Cs-137	11.8	Greater than ND
MW-50-42	H3	948	430
MW-50-42[1]	H3	613	430
MW-55-24	Cs-137	3.3	Greater than ND
MW-111	Sr-90	2.56	1.95

1. Note that the second MW-50-42 sample was obtained because the results from the first sample met the I.L.. The second sample was taken approximately one month after the initial Q1 2008 sampling event.

These instances in which the I.L.s were met do not warrant further investigation as discussed below:

- **MW-36-24.** While the Q1 2008 tritium result does represent an apparent increase in Trtium activity which is nearly four times above the I.L. for this location, the actual Tritium magnitude is still low when compared to historic values which are representative of known Unit 2 SFP leakage (prior to interdictions by Entergy)[25]. It is also instructive to note that the two deeper monitoring intervals at the MW-36 location continue to exhibit a decreasing Tritium trend. Finally, Tritium activities measured upgradient do not show any increasing Tritium trends. To the contrary, the upgradient data show significant decreasing Tritium trends[26]. These data, when viewed in the context of the Conceptual Site Model, indicate that the small Q1 2008 increase in Tritium activity measured at this location does not indicate a new leak in the monitored SSCs. Rather, it is likely the result of natural transient variability in the groundwater system, at least a portion of which is attributable to the interaction of precipitation events with the retention mechanisms discussed in the Hydrogeologic Site Investigation Report. Moreover, the fact that the I.L. was exceeded by nearly a factor of four in this case, leads to the further conclusion that the original quantitative levels set for the I.L.s need to be re-evaluated[27].
- **MW-37-22 & MW-37-32.** It is noted that the 22' depth monitoring interval for MW-37 is in the soil backfill of the Discharge Canal, as is the 24' depth interval for MW-36 above; the 32' depth interval for MW-37, while in bedrock, is only 2' below the top of rock and still above the bottom of the Discharge Canal. These two MW-37 monitoring intervals would therefore be expected to exhibit trends similar to MW-36, as supported by the tracer test travel time results[28]. For both MW-37 depth intervals, the I.L. were met in the first quarter of 2008, just after a 2007 monitoring period exhibiting consistently low Tritium values. As such, it is believed that these Q1 2008 data for MW-37 are reflective of the natural transient variability in the groundwater system, as discussed above for MW-36.
- **MW-41-40, MW-44-66 & MW-44-102.** These monitoring locations are all associated with the Unit 1 legacy storm drain discharge from the Sphere Foundation Drain Sump (SFDS)[29]. It is therefore probable that Cs-137, as well as Sr-90, is adsorbed to the subsurface deposits proximate to and downgradient of these drain lines, and thus low level detections are to be expected. In addition, it is important to note that all the previous quarterly data were below MDC and/or three times the one sigma uncertainty (i.e. not positive) at these locations. Therefore, any positive detection of Cs-137, no matter how low, meets the current I.L. for these samples. Finally, it is also noted that some data prior to implementation of the quarterly sampling shows higher levels of Cs-137 (long after the legacy piping connection was terminated). It is therefore likely that the quarterly sampling of these wells will exhibit relatively high natural variability in Cs-137 levels over time. Based on the above, it has been concluded that these data are

25 Tritium levels over an order of magnitude higher (greater than 30,000 pCi/L) than the current Q1 2008 value were measured in early 2006.
26 For example, both MW-111 and MW-33 located immediately upgradient of MW-36 and towards the Unit 2 SFP, show consistent downward trends of nearly an order of magnitude since the middle of 2006.
27 The I.L.s were generally set equal to two times the yearly average for the previous year. It was recognized that a factor of two may not be sufficient to separate the initial indication of a new leak from the natural variability of the groundwater system, thus resulting in numerous false positives. However, it was decided to bias the I.L.s low to be conservative while the level of natural variability was being quantitatively characterized using the quarterly data collected over time.
28 Refer to the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008.
29 Refer to the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008.

indicative of historic residual contamination from the legacy SFDS discharge and not of a new release from the monitored SSCs.

- **MW-50-42.** The I.L.s are based on the quarterly results for 2007, which when viewed in light of the previous data for this location, exhibit relatively consistently low values as compared to the overall natural variability. The magnitude of this variability is judged based on samples taken *after* the "slug" of much higher H3 levels associated with the Unit 2 SFP leaks and/or the 2005 Unit 1 SFP water elevation increase[30] had moved past this monitoring location (see historic data presented in **Table 5**). Furthermore, H3 levels measured upgradient of MW-50 do not show increases of a magnitude portending a significant new leak. As such, it has been concluded that the observed H3 levels are indicative of natural variability in the groundwater system and do not indicate that there is a new leak in any of the monitored SSCs. These data therefore further support the conclusion that the original quantitative levels set for the I.L.s need to be re-evaluated, as discussed above.
- **MW-55-24.** The reported Cs-137 activity for this location is just barely above the detection criteria. In that respect, it is important to note that all the previous quarterly data (as well as prior data) were below MDC and/or three times the one sigma uncertainty (i.e. not positive) at these locations. Therefore, any positive detection of Cs-137, no matter how low, meets the current I.L. for this sample. Finally, this monitoring location is within the core of the Unit 1 Sr-90 plume (see **Figure 7**). Therefore, low level detections of Cs-137, along with relatively high natural variability, are to be expected over time, consistent with that observed in upgradient wells. As such, while the investigation level may have been met for this sample, it is likely that this result is due to natural variability in the groundwater system and not due to a new release from the monitored SSCs.
- **MW-111.** The I.L value for Sr-90 at this location is based on the 2007 quarterly data, and the current Q1 2008 result just meets this low I.L. value. However, it is noted that previous data has shown higher levels as well as non-detects, with no particular trend being evident. It is further noted that upgradient wells do not show Sr-90 detections. Based on the above, and in consideration of the Conceptual Site Model, it is believed that the random detects of Sr-90 in MW-111 likely reflect desorption of Sr-90 from the Unit 1 soils used to backfill the Unit 2 Transformer Yard in immediate proximity to this monitoring well[31]. As such, it has been concluded that these data are not indicative of a new release from the monitored SSCs.

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30 In 2005, the water elevation in the Unit 1 SFPs was increased, resulting in the anticipated increased leakage rate from these pools. It is hypothesized that an associated slug of elevated Tritium (and Strontium) in groundwater migrated downgradient and moved past MW-50 and then MW-49 over time (the Tritium and Strontium slugs moving at different rates). While it is difficult to apportion increased Tritium levels between releases from the Unit 1 and Unit 2 SFPs, elevated Strontium is clearly associated with Unit 1. The historic data clearly show a slug of Strontium has recently past MW-50 and is now migrating through MW-49 (hypothesized to have resulted from the 2005 water level increase in the Unit 1 SFPs). These data therefore support the supposition that the associated Tritium slug had past this location relatively long ago, as evident in the MW-50 data. As such, the subsequent variation in Tritium levels can be ascribed to natural variability in the groundwater system, a portion of which is likely due to the interaction of precipitation events with the retention mechanisms discussed in the Hydrogeologic Site Investigation Report.

31 Refer to the Hydrogeologic Site Investigation Report prepared by GZA and dated January 7, 2008.

3.4.3 Conclusions - Boundary and SSC Leak Detection Monitoring

Recognizing that measured activities in the Off-Site and On-Site Boundary Wells did not meet I.L. levels and in consideration of the above discussions pursuant to SSC monitoring where I.L. levels were met, the overall data set demonstrates that: 1) radionuclides are not migrating off of the property to the North, East or South, as expected given groundwater flow directions towards the power block area, and; 2) there is no compelling reason to believe that any new leaks have developed in the SSCs monitored. In addition, the fact that a number of I.L. levels were met under the conditions described above, leads to the conclusion that the current I.L. levels are likely set quantitatively too low, thus resulting in a large number of false positives. Uncorrected, this condition is likely to prove detrimental over time relative to the overall intent of establishing the I.L.s for leak detection. Therefore, these levels should be re-evaluated in light of the natural transient variability of the groundwater system in response to precipitation events.

3.5 Plume Natural Attenuation Monitoring

The forth and final objective of the Long Term Monitoring Program is to evaluate if the groundwater plumes identified on-Site demonstrate overall reductions in total activity over time, as is consistent with the requirements of Monitored Natural Attenuation (MNA)[32], the selected remediation for the IPEC Site.

Given the likely ages of the leaks identified and characterized during the hydrogeologic investigation, it is probable that the Unit 2 (Tritium) and Unit 1 (Strontium) plumes had reached steady state conditions prior to the beginning of the quarterly monitoring. Given that: 1) the identified leaks in the Unit 2 SFP have all been previously repaired, and: 2) the water in the Unit 1 West Pool underwent intensified demineralization (with a reduction in Strontium levels of over 95 percent), it would be expected that the plumes should have started to attenuate with time. While both plumes have shown significant levels of attenuation *as compared to the highest levels measured during the two-year hydrogeologic investigation period*[33], it was expected that the plumes would *not* show substantial additional attenuation during the shorter time frames subsequent to the source interdictions implemented by Entergy[34]. As predicted, Q1 2008 quarterly data indicate that the Unit 2 Tritium and Unit 1 Strontium plumes have remained relatively stable over the monitoring period, when the plumes are viewed in their entirety.

On a smaller scale however, it was previously observed in 2007 that some vertical intervals in monitoring installations MW-37 and MW-50, as well as those downgradient along the plume migration pathway, had shown an apparent increasing trend in Strontium levels, with a number of intervals showing the highest levels recorded during the 4th quarter 2007. Subsequently during Q1 2008, MW-37 and MW-50 exhibited decreased Sr-90 activity. However, downgradient wells (i.e. MW-49-65, MW-49-42, and MW-66-36) still exhibit somewhat increased Sr-90 activities. In addition, there is no indication of increasing trends upgradient in the Unit 1 SFPs source area, and in fact if any trends exist, they are downward for MW-42 and MW-53. Therefore, there is no credible current source for an increasing trend. Based on the above and

32 The selection of MNA as the remediation for the Site is more fully discussed in the Hydrogeologic Site Investigation Report.
33 See discussion in the Hydrogeologic Site Investigation Report.
34 In the case of the Unit 2 Tritium plume, it has been demonstrated that vadose zone storage mechanisms result in protracted release of Tritium to the groundwater after the physical leaks have been repaired. In the case of the Unit 1 Strontium plume, Strontium partitioning would be expected to slow plume attenuation via desorption of Strontium from the geologic deposits back into the groundwater.

further operational investigations conducted during Q1 2008, it appears that the observed behavior is likely associated with the residual downgradient response to a previous (2005) transient increase in Unit 1 pool leakage rate due to a required short-term rising of water levels in the Unit 1 SFPs. These wells, and those downgradient, will continue be specifically observed as additional quarterly monitoring data becomes available.

As originally stated in the Hydrogeologic Site Investigation Report, it is to be anticipated that contaminant concentrations in individual monitoring wells will fluctuate over time (increasing at times as well as decreasing, as potentially related to precipitation events), and that future short-term increases in concentrations do *not*, in and of themselves, indicate a new leak. In addition, it is also expected that some areas within the plumes will exhibit faster decay rates than others. Both behaviors are commonly observed throughout the industry with groundwater contamination sampling and analyses, and therefore, conclusions pursuant to plume behavior must be evaluated in the context of all of the Site-wide monitoring data. Given the above, ultimate confirmation of plume attenuation will require monitoring over a number of years to allow ranges in seasonal variation to be adequately reflected in the monitoring data. Overall, however, GZA believes that the continuing monitoring will further demonstrate decreasing long term trends in groundwater contaminant concentrations over time given the source interdictions completed by Entergy.

4.0 CONCLUSIONS AND PLANNED ACTIVITIES

Evaluation of data collected during Q1 2008 has shown the following:

- While Investigation Levels have been met at a number of locations, there is no evidence of leaks from the systems, structures, or components monitored.

- Groundwater flux values calculated using the Precipitation Mass Balance Model have routinely been consistent with that predicted using the Darcy Law Model, given anticipated seasonal precipitation variability.

- H3 and Sr-90 activity within the Unit 2 and Unit 1 plumes is generally stable or decreasing. A portion of the Unit 1 plume just downgradient (West) of the Discharge Canal, exhibited a continued increasing trend in Sr-90 activity during Q1 2008. This trend is following that initially observed immediately upgradient of the canal where levels are now decreasing. These data are attributed to residual downgradient response to a previous (2005) transient increase in Unit 1 pool leakage during a required short-term raising of the water levels in the Unit 1 SFPs.

Based on the results and evaluation of the Q1 2008 groundwater monitoring within the context of the long term monitoring program, IPEC plans to continue routine groundwater sampling and related maintenance during Q2 2008. In addition, GZA recommends that the quantitative values originally established for the Investigation Levels be re-evaluated in light of the large number of false positives observed.

TABLES

TABLE 1
GROUNDWATER SAMPLING METHODS, EQUIPMENT, FREQUENCY AND DEPTHS
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	Sampling Method	Sampling Equipment Used	2008 Sampling Frequency[2]	SAMPLING INTERVAL[3]				SAMPLING DEPTH[4]	
				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-30-69	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	67.3	71.3	8.4	4.4	69.3	6.4
MW-30-84	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	77.3	85.4	-1.6	-9.5	83.8	-8.1
MW-31-49	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	34.8	49.3	40.8	26.3	48.8	26.8
MW-31-63	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	55.3	63.8	20.3	11.8	63.3	12.3
MW-31-85	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	69.8	85.4	5.8	-9.6	84.8	-9.2
MW-32-59	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	28.3	61.3	48.8	15.8	58.8	18.3
MW-32-85	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	79.3	92.8	-2.2	-15.7	85.3	85.3
MW-32-131	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	125.8	138.3	-48.7	-61.2	130.8	-53.7
MW-32-149	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	125.8	156.8	-70.2	-79.7	149.3	-72.2
MW-32-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	165.8	174.3	-88.7	-97.2	172.8	-95.7
MW-32-190	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	180.3	193.9	-103.2	-116.8	190.3	-113.7
MW-33	Low Flow	Peristaltic Pump	Annually	8.0	30.0	10.6	-11.7	16	2.8
MW-34	Low Flow	Peristaltic Pump	Inactive	5.0	30.0	13.5	-11.5	16.5	2.0
MW-35	Low Flow	Peristaltic Pump	Annually	6.5	30.0	12.1	-11.4	15.0	3.6
MW-36-24[5]	Low Flow	Peristaltic Pump	Quarterly	11.0	24.0	0.8	-12.2	17.0	-5.2
MW-36-41	Modified Well Vol. Purge	Peristaltic Pump	Inactive	36.0	41.0	-24.2	-29.2	37.0	-25.2
MW-36-52	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	48.0	53.0	-36.2	-41.2	50.0	-38.2
MW-37-22	Low Flow	Peristaltic Pump	Quarterly	12.0	22.0	3.0	-7.0	17.0	-2.0
MW-37-32	Low Flow	Peristaltic Pump	Quarterly	28.0	32.5	-13.0	-17.5	29.0	-14.0
MW-37-40	Modified Well Vol. Purge	Peristaltic Pump	Quarterly	38.5	40.5	-23.5	-24.5	39.0	-24.0
MW-37-57	Low Flow	Peristaltic Pump	Quarterly	52.0	57.0	-37.0	-42.0	55.0	-40.0
MW-38	Low Flow	Peristaltic Pump	Inactive	5.0	40.0	9.3	-25.7	25.4	-11.1
MW-39-67	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	65.0	70.5	15.0	9.5	67.0	13.0
MW-39-84	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	76.5	85.0	3.5	-5.0	83.5	-3.5
MW-39-102	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	93.0	103.0	-13.0	-23.0	101.5	-21.5
MW-39-124	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	115.0	126.5	-35.0	-46.5	124.0	-44.0
MW-39-183	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	169.5	186.0	-89.5	-106.0	182.5	-102.5
MW-39-195	Waterloo Low Flow	Waterloo Multilevel System	Bi-Annually	193.0	198.6	-113.0	-118.4	195.0	-115.0
MW-40-27	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	18.2	35.2	55.0	38.0	26.7	46.5
MW-40-46	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	44.2	53.7	29.0	19.5	46.2	27.0
MW-40-81	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	64.7	84.2	8.5	-11.0	80.7	-7.5
MW-40-100	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	93.2	106.7	-20.0	-33.5	100.2	-27.0
MW-40-127	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	125.2	136.7	-52.0	-63.5	127.2	-54.0
MW-40-162	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	158.7	190.3	-85.5	-116.9	161.7	-88.5
MW-41-40	Low Flow	Peristaltic Pump	Bi-Annually	22.0	42.0	32.9	12.9	36.0	18.9
MW-41-63	Modified Well Vol. Purge	Waterra Pump	Bi-Annually	59.0	64.0	-4.1	-9.1	61.0	-6.1
MW-42-49	Low Flow	Submersible Pump	Quarterly	31.0	51.0	38.7	18.7	41.0	28.7
MW-42-78	Modified Well Vol. Purge	Waterra Pump	Quarterly	69.0	79.0	0.7	-9.3	74.0	-4.3
MW-43-28	Low Flow	Submersible Pump	Bi-Annually	8.0	28.0	40.8	20.7	23.0	25.8
MW-43-62	Low Flow	Submersible Pump	Bi-Annually	42.0	62.0	6.8	-13.2	54.0	-5.2
MW-44-66	Modified Well Vol. Purge	Submersible Pump	Quarterly	52.0	67.0	41.5	26.5	63.0	30.5
MW-44-102	Modified Well Vol. Purge	Waterra Pump	Quarterly	79.0	104.0	14.5	-10.5	80.0	13.5
MW-45-42	Low Flow	Peristaltic Pump	Quarterly	27.5	42.5	26.2	11.2	37.0	16.6
MW-45-61	Low Flow	Peristaltic Pump	Quarterly	51.5	61.5	2.2	-7.8	58.0	-4.4
MW-46	Low Flow	Submersible Pump	Quarterly	6.0	30.0	12.1	-11.9	10.5	7.6
MW-47-56	Low Flow	Submersible Pump	Inactive	36.0	56.0	34.3	14.3	52.0	18.3
MW-47-80	Modified Well Vol. Purge	Waterra Pump	Inactive	70.0	80.0	0.3	-9.7	72.0	-1.7
MW-48-23	Low Flow	Peristaltic Pump	Inactive	8.0	23.0	7.4	-7.6	15.8	-0.4

See Page 3 for Notes

TABLE 1
GROUNDWATER SAMPLING METHODS, EQUIPMENT, FREQUENCY AND DEPTHS
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	Sampling Method	Sampling Equipment Used	2008 Sampling Frequency[2]	SAMPLING INTERVAL[3]				SAMPLING DEPTH[4]	
				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-48-37	Low Flow	Peristaltic Pump	Inactive	33.0	38.0	-17.6	22.6	35.8	-20.4
MW-49-26	Low Flow	Peristaltic Pump	Quarterly	15.0	25.0	-0.3	-10.4	20.0	-5.3
MW-49-42	Low Flow	Peristaltic Pump	Quarterly	32.0	42.0	-17.4	-27.4	37.0	-22.3
MW-49-65	Low Flow	Peristaltic Pump	Quarterly	60.0	65.0	-45.4	-50.4	61.0	-46.4
MW-50-42	Low Flow	Peristaltic Pump	Quarterly	22.0	42.0	-7.1	-27.1	27.0	-12.1
MW-50-66	Low Flow	Peristaltic Pump	Quarterly	62.0	67.0	-47.1	-52.1	60.0	-45.1
MW-51-40	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	29.7	44.2	38.0	23.5	39.7	28.0
MW-51-79	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	63.2	81.2	4.5	-13.5	78.7	-11.0
MW-51-104	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	101.2	111.2	-33.5	-43.5	103.7	-36.0
MW-51-135	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	130.2	143.7	-62.5	-76.0	135.2	-67.5
MW-51-163	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	154.7	166.2	-87.0	-98.5	162.7	-95.0
MW-51-189	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	184.2	197.8	-116.5	-129.9	189.2	-121.5
MW-52-11	Modified Well Vol. Purge	Peristaltic Pump	Annually	2.0	12.0	14.8	4.8	10.0	6.8
MW-52-18	Waterloo Low Flow	Waterloo Multilevel System	Annually	10.0	30.0	4.9	-15.1	17.5	-2.6
MW-52-48	Waterloo Low Flow	Waterloo Multilevel System	Annually	48.0	56.0	-33.1	-41.1	48.0	-33.1
MW-52-64	Waterloo Low Flow	Waterloo Multilevel System	Annually	59.0	71.5	-44.1	-56.6	64.0	-49.1
MW-52-122	Waterloo Low Flow	Waterloo Multilevel System	Annually	110.5	123.5	-95.6	-108.6	122.0	-107.1
MW-52-162	Waterloo Low Flow	Waterloo Multilevel System	Annually	154.5	164.0	-139.6	-149.1	161.5	-146.6
MW-52-181	Waterloo Low Flow	Waterloo Multilevel System	Annually	171.0	198.1	-156.1	-183.0	181.0	-166.1
MW-53-82	Low Flow	Submersible Pump	Quarterly	62.0	82.0	8.3	-11.7	75.0	-4.7
MW-53-120	Modified Well Vol. Purge	Waterra Pump	Quarterly	100.0	120.0	-29.7	-49.7	105.0	-34.7
MW-54-37	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	29.0	42.0	-15.9	-28.9	36.5	-23.4
MW-54-58	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	51.5	64.0	-38.4	-50.9	57.5	-44.4
MW-54-123	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	116.0	126.0	-102.9	-112.9	123.0	-109.9
MW-54-144	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	135.0	155.5	-121.9	-142.4	144.0	-130.9
MW-54-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	170.5	182.0	-157.4	-168.9	172.5	-159.4
MW-54-190	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	185.0	203.6	-171.9	-190.3	190.0	-176.9
MW-55-24	Low Flow	Peristaltic Pump	Quarterly	14.0	24.0	4.3	-5.8	16.0	2.3
MW-55-35	Low Flow	Peristaltic Pump	Quarterly	30.0	35.0	-11.8	-16.8	32.0	-13.8
MW-55-54	Low Flow	Peristaltic Pump	Quarterly	44.0	54.0	-25.8	-35.8	47.0	-28.8
MW-56-53	Low Flow	Submersible Pump	Bi-Annually	49.2	54.2	21.0	16.0	52.0	18.3
MW-56-83	Modified Well Vol. Purge	Waterra Pump	Bi-Annually	69.9	84.9	0.4	-14.6	74.0	-3.7
MW-57-11	Low Flow	Peristaltic Pump	Bi-Annually	6.0	11.0	9.0	4.0	10.0	5.0
MW-57-20	Low Flow	Peristaltic Pump	Bi-Annually	15.5	20.5	-0.5	-5.5	19.0	-4.0
MW-57-45	Low Flow	Peristaltic Pump	Bi-Annually	30.5	45.5	-15.5	-30.5	40.0	-25.0
MW-58-26	Low Flow	Peristaltic Pump	Bi-Annually	16.0	26.0	-1.4	-11.4	20.0	-5.4
MW-58-65	Low Flow	Peristaltic Pump	Quarterly	50.0	65.0	-35.4	-50.4	54.0	-39.4
MW-59-32	Low Flow	Peristaltic Pump	Inactive	21.0	31.0	-6.5	-16.5	27.0	-12.5
MW-59-45	Low Flow	Peristaltic Pump	Inactive	35.0	45.0	-20.5	-30.5	42.0	-27.5
MW-59-68	Low Flow	Peristaltic Pump	Inactive	53.0	68.0	-38.5	-53.5	58.0	-43.5
MW-60-35	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	24.9	39.4	-12.4	-26.9	34.9	-22.4
MW-60-53	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	45.4	59.4	-32.9	-46.9	53.4	-40.9
MW-60-72	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	66.4	78.9	-53.9	-66.4	72.4	-59.9
MW-60-135	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	124.9	141.4	-112.4	-128.9	134.9	-122.4
MW-60-154	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	147.4	164.9	-134.9	-152.4	154.4	-141.9
MW-60-176	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	170.9	200.4	-158.4	-187.8	175.9	-163.4
MW-62-18	Low Flow	Peristaltic Pump	Quarterly	4.7	14.7	10.0	0.0	13.5	1.2
MW-62-37	Low Flow	Peristaltic Pump	Quarterly	33.3	38.3	-18.6	-23.6	34.5	-19.8

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BUCHANAN, NY

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				Ft Below Top of Casing		Elevation in Feet msl			
				Top	Bottom	Top	Bottom	Feet Below TOC	Elevation in Feet msl
MW-62-53	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	19.6	54.1	-36.8	-41.3	53.1	-40.3
MW-62-71	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	61.1	82.6	-48.3	-69.8	71.1	-58.3
MW-62-92	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	88.6	99.1	-75.8	-86.3	91.6	-78.8
MW-62-138	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	126.1	143.6	-113.3	-130.8	138.1	-125.3
MW-62-182	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	177.6	198.7	-164.8	-185.7	182.1	-169.3
MW-63-18	Low Flow	Peristaltic Pump	Quarterly	8.0	18.0	-3.8	-13.8	14.9	0.7
MW-63-34	Low Flow	Peristaltic Pump	Quarterly	30.0	35.0	-15.8	-20.8	31.5	-17.3
MW-63-50	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	41.5	58.0	-29.2	-45.7	49.5	-37.2
MW-63-93	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	81.5	100.5	-69.2	-88.2	93.0	-80.7
MW-63-112	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	106.5	112.0	-94.2	-99.7	111.5	-99.2
MW-63-121	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	118.0	127.5	-105.7	-115.2	121.0	-108.7
MW-63-163	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	150.5	165.0	-138.2	-152.7	162.5	-150.2
MW-63-174	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	168.0	191.1	-155.7	-178.6	174.0	-161.7
MW-66-21	Low Flow	Peristaltic Pump	Quarterly	7.0	27.0	6.0	-7.0	14.1	0
MW-66-36	Low Flow	Peristaltic Pump	Quarterly	31.0	36.0	-17.0	-22.0	33.6	-19.5
MW-67-39	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	28.8	54.3	-15.8	-41.3	38.3	-25.8
MW-67-105	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	90.3	110.8	-77.3	-97.8	104.8	-92.3
MW-67-173	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	164.8	188.3	-151.8	-175.3	172.3	-159.8
MW-67-219	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	209.3	229.8	-196.3	-216.8	218.8	-206.3
MW-67-276	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	250.8	281.3	-237.8	-268.3	275.3	-262.8
MW-67-323	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	317.8	328.3	-304.8	-315.3	322.3	-309.8
MW-67-340	Waterloo Low Flow	Waterloo Multilevel System	Quarterly	335.3	347.9	-322.3	-334.9	339.8	-327.3
MW-107	Low Flow	Submersible Pump	Annually	105.1	126.1	34.9	13.9	32.7	110.1
MW-111	Low Flow	Peristaltic Pump	Bi-Annually	11.6	17.4	7.0	1.5	16.5	2.4
U3-4D	Low Flow	Peristaltic Pump	Quarterly	25.0	27.6	-10.2	-12.8	25.6	-10.8
U3-T1	Low Flow	Peristaltic Pump	Quarterly	0.2	1.2	3.1	2.1	5.7	2.8
U3-T2	Low Flow	Peristaltic Pump	Quarterly	0.6	1.6	2.7	1.7	5.7	2.6
U1-CSS	Low Flow	Peristaltic Pump	Bi-Annually	NA	10.2	NA	4.9	14.0	6.1
LAF-002	NA	NA	Bi-Annually	NA	NA	NA	NA	NA	-22.3
MH-5[6]	Grab	NA	Quarterly	NA	NA	NA	NA	NA	NA
B-1[6]	Grab	NA	Quarterly	NA	NA	NA	NA	NA	NA
B-6[6]	Grab	NA	Quarterly	NA	NA	NA	NA	NA	NA

Notes:

1. For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores.
2. Sampling frequencies presented for 2008 are subject to change.
3. For nested multi-level montoring wells, interval includes well screen and sand pack. For Waterloo multi-level systems, interval includes open wellbore between bottom of 1st packer above and top of 1st packer below sampling port. For open bedrock wellbores, interval extends from bottom of casing to bottom of hole.
4. Sampling depths within sampling intervals (i.e. location of pump intake) have been located adjacent to a transmissive zone where possible.
5. Dot pattern denotes sampling interval is positioned within overburden. Open box indicates sampling interval is in bedrock.
6. These locations are storm drains.

TABLE 2
2007-2008 LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)			
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008
HR1	NA	-0.86	-1.57	-2.15
I2	50.23	48.62	51.87	53.73
MW-30-69	11.83	11.53	12.00	NA
MW-30-84	12.77	12.47	12.83	NA
MW-31-49	44.09	NA	45.40	47.50
MW-31-63	41.56	NA	42.71	45.52
MW-31-85	39.59	NA	40.81	43.19
MW-32-48	NA	42.12	46.73	48.81
MW-32-59 (MW-32-62)[5]	42.79	41.44	45.99	47.99
MW-32-85 (MW-32-92)	10.27	12.35	12.78	13.30
MW-32-131 (MW-32-140)	13.11	11.96	13.21	25.01
MW-32-149 (MW-32-165)	8.18	9.87	10.06	10.20
MW-32-173	NA	9.73	9.86	9.92
MW-32-190 (MW-32-196)	6.74	8.05	7.88	7.88
MW-33	10.08	9.80	10.38	11.49
MW-34	9.87	9.82	10.44	11.63
MW-35	10.03	9.67	10.37	11.65
MW-36-24	8.89	7.31	7.67	6.85
MW-36-41	8.22	NA	NA	NA
MW-36-52	7.43	6.43	6.45	6.42
MW-37-22	5.51	5.15	4.83	4.66
MW-37-32	5.51	5.07	4.82	4.63
MW-37-40	5.40	6.83	6.19	6.17
MW-37-57	7.07	6.23	6.39	6.28
MW-38	3.01	2.19	1.46	2.22
MW-39-67	NA	NA	26.84	32.20
MW-39-84	NA	NA	26.64	31.94
MW-39-100	NA	NA	26.38	30.99
MW-39-102	NA	NA	26.31	31.56
MW-39-124	NA	NA	26.05	28.37
MW-39-183	NA	NA	25.28	29.74
MW-39-195	NA	NA	24.36	28.80
MW-40-24	NA	NA	NA	NA
MW-40-27	NA	NA	55.46	60.39
MW-40-46	NA	47.27	53.19	59.35
MW-40-81	NA	41.65	47.45	56.06
MW-40-100	NA	39.47	45.18	54.10
MW-40-127	NA	38.89	44.60	53.61
MW-40-162	NA	36.67	41.09	50.49
MW-41-40	29.87	NA	32.48	36.57
MW-41-63	25.94	NA	27.77	33.31
MW-42-49	NA	NA	34.55	34.96
MW-42-78	NA	NA	35.71	36.63
MW-43-28	32.75	31.08	31.98	33.47
MW-43-62	30.83	NA	NA	NA
MW-44-66	33.36	NA	34.36	37.99
MW-44-102	23.10	NA	24.84	NA
MW-45-42	NA	24.82	28.47	34.19
MW-45-61	NA	24.33	27.57	32.91
MW-46	12.80	11.95	12.57	15.05
MW-47-57	21.83	20.77	23.05	27.76
MW-47-80	22.29	21.41	21.82	26.53
MW-48-23	-0.08	-0.27	-0.39	-1.14
MW-48-38	0.64	0.26	-0.06	-0.18
MW-49-26	1.04	NA	-0.37	-0.62
MW-49-42	0.31	0.90	0.40	-0.44
MW-49-65	0.89	1.01	0.34	0.07
MW-50-42	7.24	NA	NA	NA
MW-50-66	3.71	NA	NA	1.97
MW-51-40	NA	48.69	50.07	51.95
MW-51-79	NA	39.92	41.07	42.91
MW-51-102	NA	35.98	38.07	38.46
MW-51-104	NA	NA	37.93	38.41
MW-51-135	NA	37.42	39.47	39.99
MW-51-163	NA	33.79	34.83	36.15
MW-51-189	NA	29.33	30.16	31.34
MW-52-11	6.04	5.61	8.12	8.47
MW-52-18	6.64	NA	8.63	6.04
MW-52-48	7.08	NA	6.55	6.53
MW-52-64	5.96	NA	5.90	5.25
MW-52-118	5.34	NA	4.41	4.44
MW-52-122	5.25	NA	4.26	4.32
MW-52-162	0.67	NA	-0.80	-1.31
MW-52-181	0.41	NA	-1.08	-1.56
MW-53-82	NA	9.59	10.03	11.99
MW-53-120	9.91	9.18	9.59	10.87
MW-54-35	NA	NA	6.40	6.27
MW-54-37	7.52	NA	6.58	6.45
MW-54-58	6.86	NA	5.82	5.60
MW-54-123	5.69	NA	4.16	3.65

See Page 2 for Notes

TABLE 2
2007-2008 LOW TIDE GROUNDWATER ELEVATIONS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID	LOW RIVER TIDE GROUNDWATER ELEVATIONS (Feet msl)			
	Quarter 2[1], 2007	Quarter 3[2], 2007	Quarter 4[3], 2007	Quarter 1[4], 2008
MW-54-144	8.85	NA	7.13	6.60
MW-54-173	5.17	NA	3.52	2.99
MW-54-190	5.08	NA	3.46	2.91
MW-55-24	8.56	7.82	7.97	8.17
MW-55-35	8.10	7.29	7.52	7.60
MW-55-54	8.47	7.65	7.75	8.08
MW-56-53	21.04	20.16	NA	NA
MW-56-83	21.10	20.10	22.18	26.41
MW-57-11	9.57	8.83	9.36	10.99
MW-57-20	9.38	NA	NA	NA
MW-57-45	9.08	NA	NA	NA
MW-58-26	8.03	6.49	6.58	8.32
MW-58-65	6.03	6.83	6.22	NA
MW-59-32	1.06	NA	0.67	0.42
MW-59-45	1.06	1.27	0.42	NA
MW-59-68	2.91	2.51	1.97	0.90
MW-60-35	2.19	1.28	1.32	1.58
MW-60-53	-0.63	-1.24	-1.67	-2.04
MW-60-55	NA	-0.28	-0.73	-1.10
MW-60-72	0.74	-0.09	-0.45	-0.68
MW-60-135	0.94	0.11	-0.44	-0.90
MW-60-154	0.08	-0.96	-1.61	-2.07
MW-60-176	-0.48	-1.38	-2.03	-2.47
MW-62-18	0.25	0.25	-0.37	-0.79
MW-62-37	0.59	0.61	-0.03	-0.46
MW-62-52	NA	0.48	-0.30	-1.13
MW-62-53	0.95	0.54	-0.25	-1.01
MW-62-71	0.89	0.22	-0.56	-1.26
MW-62-92	1.07	0.58	-0.09	-0.76
MW-62-138	1.40	0.77	0.09	-0.49
MW-62-181	1.33	0.38	-0.33	-0.99
MW-62-182	NA	-0.33	-1.83	-0.78
MW-63-18	0.14	0.09	-0.10	-0.37
MW-63-35	0.51	0.19	-0.09	-0.40
MW-63-50	0.86	0.29	-0.38	-1.03
MW-63-91	1.16	0.48	-0.19	-0.87
MW-63-93	NA	0.55	-0.20	-0.87
MW-63-112	0.03	-0.82	-1.46	-2.05
MW-63-121	1.41	0.60	-0.18	-0.78
MW-63-163	0.70	-0.09	-0.83	-1.48
MW-63-174	0.88	0.05	-0.65	-1.29
MW-65-48	NA	NA	NA	NA
MW-65-80	NA	NA	NA	NA
MW-66-21	0.26	0.17	-0.22	-0.74
MW-66-36	0.81	0.48	-0.04	-0.51
MW-67-39	NA	1.02	0.34	-0.33
MW-67-105	NA	1.39	0.61	-0.04
MW-67-173	NA	0.75	-0.14	-0.83
MW-67-219	NA	0.74	-0.19	-0.91
MW-67-276	NA	1.61	0.60	-0.13
MW-67-323	NA	0.18	-0.96	-1.75
MW-67-340	NA	0.63	-0.52	-1.31
MW-107	116.85	113.87	117.48	121.79
MW-108	9.58	8.61	8.77	9.98
MW-109	9.52	6.80	7.22	9.50
MW-111	9.56	9.66	9.74	10.74
OUT1	NA	1.31	1.16	0.76
RW1	NA	NA	30.15	NA
U1CSS	NA	8.98	NA	NA
U3-1	4.20	NA	NA	NA
U3-2	5.34	NA	NA	NA
U3-3	7.53	6.52	6.63	8.67
U3-4D	4.25	NA	3.35	3.22
U3-4S	3.91	4.13	3.80	3.74
U3-C1	NA	1.64	3.58	3.36
U3-T1	4.51	4.12	3.67	3.99
U3-T2	4.33	4.02	3.79	4.20

Notes:
NA: data not available

1. Quarter 2, 2007 groundwater elevations were measured on 6/1/07 at 6:20 am.
2. Quarter 3, 2007 groundwater elevations were measured on 9/25/07 at 4:32 am.
3. Quarter 4, 2007 groundwater elevations were measured on 12/9/07 at 4:15 am.
4. Quarter 1, 2008 groundwater elevations were measured on 1/3/08 at 1:14 a.m.
5. MW-32 groundwater elevations from the 2nd quarter, 2007 were part of a previous Waterloo Multi-Sampling System configuration in MW-32, prior to the new configuration installed on September 10th, 2007. Old configuration sampling intervals, listed in parenthesis, are representatively equivalent to the new configuration sampling interval immediately preceding it. The new configuration intervals MW-32-48 and MW-32-73 have no representative equivalent within the old configuration.

See Page 2 for Notes

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-30-69[5]	2	007	69.3	6.4	6/12/2007	10:20	2.97E105	-2.63E-01	3.93E-01	6.88E-02	NA[6]	1.57E105	ND[7]	ND	ND	NA	MW-30-69
	3	008			7/18/2007	9:55	8.21E+04	NA	NA	NA	NA						
	3	009			7/25/2007	11:26	2.17E+05	1.00E-01	-1.13E+00	4.61E-01	NA						
	3	009			7/25/2007	11:26	2.32E+05	NA	NA	NA	NA						
	3	010			8/1/2007	11:44	1.03E+05	NA	NA	NA	NA						
	3	011			8/8/2007	10:00	9.96E+04	NA	NA	NA	NA						
	3	012			8/15/2007	11:00	2.33E+05	NA	NA	NA	NA						
	3	013			8/21/2007	9:45	1.07E105	NA	NA	NA	NA						
	3	014			8/30/2007	11:32	9.80E+04	NA	NA	NA	NA						
	3	015			9/19/2007	11:00	9.20E+04	NA	NA	NA	NA						
	4	016			10/23/2007	11:48	1.32E+05	2.52E-01	2.42E+00	-5.09E-01	NA						
	1	017			2/4/2008	13:00	1.87E+05	1.57E-01	1.26E+00	-6.00E-01	NA						
MW-30-84	2	004	83.8	-8.1	6/12/2007	10:19	7.79E+03	-1.49E-01	-1.06E+00	-6.93E-01	-3.57E+00	5.24E+03	5.95E-01	ND	ND	ND	MW-30-84
	3	005			7/18/2007	10:25	4.80E+03	NA	NA	NA	NA						
	3	006			7/25/2007	13:00	5.02E103	1.56E-01	2.83E100	2.03E100	NA						
	4	007			10/23/2007	12:49	4.27E+03	5.95E-01	1.56E+00	-1.17E+00	NA						
	1	008			2/1/2008	14:16	4.34E+03	-4.08E-01	-1.00E+00	-4.32E-01	NA						
MW-31-49	2	003	48.8	26.8	6/12/2007	14:24	1.48E+03	-1.51E-01	1.83E-01	1.26E-01	0.00E+00	5.91E+03	ND	8.83E+01	ND	ND	MW-31-49
	3	004			8/2/2007	10:23	1.19E+04	-5.17E-01	8.83E+01	1.80E-01	NA						
	3	005			9/11/2007	13:10	6.98E+03	-2.26E-01	-1.20E+00	0.00E+00	NA						
	4	006			10/24/2007	15:50	8.77E+03	5.14E-02	-6.76E-01	1.35E+00	NA						
	1	007			1/16/2008	10:31	3.97E102	-9.14E-02	-1.17E100	-9.76E-01	NA						
MW-31-63	2	003	63.3	12.3	6/12/2007	14:20	5.00E+03	4.72E-01	-5.01E-01	-8.78E-02	3.37E+00	2.63E+04	ND	ND	ND	ND	MW-31-63
	3	004			8/2/2007	11:15	4.06E+04	-1.41E-01	1.20E+00	-3.09E-02	NA						
	3	005			9/11/2007	13:25	3.77E+04	-1.37E-01	-4.39E-01	-8.64E-01	NA						
	4	006			10/24/2007	14:55	3.58E+04	-1.63E-01	1.07E+00	1.01E+00	NA						
	1	007			1/16/2008	11:32	1.24E+04	-6.88E-02	-2.49E-01	-9.08E-01	NA						
MW-31-85	2	003	84.8	-9.2	6/12/2007	14:05	3.17E+02	-3.83E-01	3.95E-01	-5.71E-01	NA	2.83E+03	ND	ND	ND	NA	MW-31-85
	3	004			8/2/2007	10:58	2.69E103	-7.29E-01	-5.01E-02	-1.90E100	NA						
	3	005			9/11/2007	13:20	4.32E+03	6.86E-01	-7.04E-01	-3.07E+00	NA						
	4	006			10/24/2007	14:40	5.51E+03	2.53E-01	5.68E-01	4.76E-01	NA						
	1	007			1/16/2008	11:26	1.31E+03	6.97E-01	2.68E+00	1.90E+00	NA						
MW-32-62[8]	2	002	60.0	17.1	6/28/2007	14:25	2.40E104	-1.65E-01	-1.74E100	-1.42E100	NA	1.70E104	ND	ND	ND	NA	MW-32-62
	3	003			8/13/2007	13:07	1.42E+04	-2.71E-01	1.48E+00	-4.66E-01	NA						
(MW-32-59)[9]	4	001	58.8	18.3	10/26/2007	12:07	1.11E+04	3.22E-01	-1.94E-01	2.45E+00	NA						(MW-32-59)
	1	005			1/18/2008	13:25	1.87E+04	4.67E-01	9.98E-01	1.99E+00	NA						
MW-32-92[8]	2	002	90.5	-13.4	6/28/2007	15:05	5.42E+03	-4.15E-01	-1.70E-01	-3.05E-01	NA	8.61E+03	ND	ND	ND	NA	MW-32-92
	3	003			8/13/2007	10:48	5.70E+03	-2.45E-02	3.28E-01	9.90E-01	NA						
(MW-32-85)[9]	4	004	85.3	85.3	10/26/2007	11:12	1.26E+04	-1.17E-01	8.85E-01	-1.85E-02	NA						(MW-32-85)
	1	005			1/18/2008	14:50	1.07E104	-3.03E-01	3.57E-01	-5.37E-01	NA						
MW-32-140[8]	2	002	138.0	-60.9	6/28/2007	12:45	3.02E+02	-1.39E-01	-1.46E+00	9.88E-01	NA	3.93E+02	ND	ND	ND	NA	MW-32-140
	3	003			8/13/2007	11:15	1.29E+02	2.69E-01	-8.09E-01	-1.19E+00	NA						
(MW-32-131)[9]	4	004	130.8	-53.7	10/26/2007	10:11	3.74E+02	2.47E-01	-1.81E-01	-2.55E-01	NA						(MW-32-131)

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
(MW-32-131)[9]	1	005			1/18/2008	11:23	5.04E+02	5.14E-01	8.47E-01	-8.40E-02	NA						
MW-32-165[8]	2	002	163.0	-85.9	6/28/2007	13:06	5.81E+02	-2.82E-01	8.54E-01	-8.16E-01	NA	1.29E+03	ND	ND	ND	NA	MW-32-165
	3	003			8/13/2007	11:35	4.93E+02	-6.38E-01	-1.42E+00	1.63E+00	NA						
(MW-32-149)[9]	4	004	149.3	-72.2	10/26/2007	10:10	2.92E+03	-2.45E-01	1.99E-01	1.65E-01	NA						(MW-32-149)
	1	005			1/18/2008	11:18	1.15E+03	3.04E-01	2.94E+00	-8.74E-01	NA						
MW-32-173[9]	4	001	172.8	-95.7	10/26/2007	9:55	5.89E+03	1.86E-02	6.92E-01	-9.97E-01	NA	4.65E+03	ND	ND	ND	NA	MW-32-173
	1	002			1/18/2008	11:05	3.40E+03	1.13E-01	-3.84E-01	-6.14E-01	NA						
MW-32-197[8]	2	002	194.5	-117.4	6/28/2007	13:07	2.41E+03	-5.09E-02	1.52E+00	-1.29E+00	NA	5.70E+03	ND	ND	ND	NA	MW-32-197
	3	003			8/13/2007	11:25	1.72E+03	-3.65E-01	6.21E-01	-1.19E+00	NA						
(MW-32-190)[9]	4	004	190.3	-113.7	10/26/2007	9:53	9.76E+03	-5.05E-01	-6.17E-01	-1.94E-01	NA						(MW-32-190)
	1	005			1/18/2008	11:35	8.89E+03	4.28E-01	6.57E-01	5.18E-01	NA						
MW-33	2	020	16	2.8	6/15/2007	15:48	9.06E+04	-2.82E-01	-2.78E-01	-1.64E+00	-8.12E-01	5.68E+04	ND	ND	ND	ND	MW-33
	3	021			8/3/2007	10:20	2.30E+04	5.80E-01	8.18E-01	2.45E-01	NA						
MW-34	3	018	16.5	2.0	8/3/2007	10:21	2.22E+04	3.94E-02	-1.55E+00	2.12E+00	NA	2.22E+04	ND	ND	ND	NA	MW-34
MW-35	2	016	15.0	3.6	6/15/2007	13:58	2.03E+03	2.26E-01	4.66E+01	-1.27E+00	6.18E+00	3.99E+03	ND	4.66E+01	ND	ND	MW-35
	3	017			8/3/2007	10:22	5.95E+03	9.45E-02	-9.20E-01	5.74E-01	NA						
MW-36-24[10]	2	007	17.0	-5.2	6/27/2007	10:40	1.54E+02	5.90E-01	3.31E-01	4.00E-01	NA	1.22E+03	ND	ND	ND	ND	MW-36-24
	3	008			8/8/2007	13:45	1.63E+02	-5.35E-01	1.53E-01	3.56E+00	-7.46E+00						
	4	009			10/18/2007	10:06	2.86E+02	8.56E-02	7.20E-01	3.11E-01	NA						
	1	010			1/23/2008	14:18	2.16E+03	1.03E-01	2.92E-02	-4.84E-01	NA						
MW-36-41	2	007	37.0	-25.2	6/27/2007	12:30	6.11E+03	2.18E+00	4.30E-01	1.36E+00	NA	6.11E+03	2.18E+00	ND	ND	NA	MW-36-41
MW-36-52	2	007	50.0	-38.2	6/27/2007	11:45	1.01E+04	2.62E+00	-3.82E-01	9.25E-01	NA	1.13E+04	3.24E+00	ND	ND	ND	MW-36-52
	3	008			8/8/2007	14:15	1.25E+04	2.26E+00	1.30E+00	-8.82E-01	4.27E+00						
	1	009			1/23/2008	14:13	1.13E+04	4.85E+00	-2.89E-01	4.08E-01	NA						
MW-37-22	2	007	17.0	-2.0	6/27/2007	10:50	4.05E+03	1.49E+01	-2.26E+00	-1.12E+00	NA	3.91E+03	1.62E+01	ND	ND	NA	MW-37-22
	3	008			8/7/2007	10:55	2.79E+03	1.83E+01	2.74E+00	4.23E-01	NA						
	4	009			10/15/2007	14:30	2.26E+03	2.29E+01	1.33E+00	-1.42E+00	NA						
	1	010			1/23/2008	10:42	6.52E+03	8.73E+00	-2.09E+00	2.34E-01	NA						
MW-37-32	2	007	29	-14	6/27/2007	12:20	3.13E+03	1.85E+01	-1.49E+00	1.63E+00	NA	4.05E+03	1.85E+01	ND	ND	NA	MW-37-32
	3	008			8/7/2007	10:56	3.81E+03	1.89E+01	1.99E+00	1.88E+00	NA						
	4	009			10/15/2007	14:36	2.49E+03	2.13E+01	8.79E-01	2.53E+00	NA						
	1	010			1/23/2008	11:03	6.76E+03	1.52E+01	1.09E+00	-5.32E-02	NA						
MW-37-40	2	007	39	-24	6/27/2007	11:00	6.35E+03	4.69E+00	5.92E-01	-1.07E+00	NA	6.16E+03	5.34E+00	ND	ND	NA	MW-37-40
	3	008			8/7/2007	13:45	5.85E+03	9.76E+00	1.10E+00	-2.48E-01	NA						
	4	009			10/15/2007	15:00	5.69E+03	5.98E+00	7.63E-01	5.99E-01	NA						
	1	010			2/1/2008	17:20	6.73E+03	9.48E-01	3.09E-01	-3.70E-01	-4.35E+00						
MW-37-57	2	007	55	-40	6/27/2007	12:20	5.89E+03	2.42E+01	2.45E+00	-9.58E-02	NA	6.02E+03	2.61E+01	ND	ND	NA	MW-37-57
	3	008			8/7/2007	12:55	6.68E+03	2.33E+01	-1.35E+00	-3.64E-02	NA						
	4	009			10/15/2007	15:00	4.88E+03	2.78E+01	3.62E-01	1.20E-01	NA						
	1	010			2/1/2008	16:31	6.63E+03	2.89E+01	-9.11E-01	-2.93E-01	8.47E-01						
MW-38	3	020	25.4	-11.1	8/16/07	11:30	6.04E+02	-9.21E-02	1.21E+00	2.48E+00	NA	6.04E+02	ND	ND	ND	NA	MW-38
MW-39-67	2	001	67.0	13.0	5/22/2007	9:53	4.73E+02	2.76E+00	1.23E-01	1.84E+00	-3.11E+00	3.85E+02	3.69E+00	ND	ND	ND	MW-39-67
	3	002			8/7/2007	16:30	3.25E+02	4.78E+00	2.59E+00	2.62E-01	NA						

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See Page 11 for Notes

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-39-67	1	003			1/17/2008	14:35	3.57E+02	3.52E+00	-1.28E-01	1.76E+00	NA						
MW-39-84	2	001	83.5	-3.5	5/22/2007	10:38	5.91E+02	1.72E+00	-9.07E-02	5.61E-01	-1.68E+00	4.22E+02	1.43E+00	ND	ND	ND	MW-39-84
	3	002			8/7/2007	15:30	2.52E+02	7.97E-01	3.55E-01	-1.11E+00	NA						
	1	003			1/17/2008	13:25	1.43E+02	1.78E+00	-2.74E+00	8.36E-01	NA						
MW-39-102	2	001	101.5	-21.5	5/22/2007	10:40	8.05E+02	1.32E+00	-3.99E-02	6.54E-01	6.39E-02	5.63E+02	1.15E+00	ND	ND	ND	MW-39-102
	3	002			8/7/2007	14:25	3.21E+02	4.71E-01	-7.63E-01	-2.47E+00	NA						
	1	003			1/17/2008	13:32	1.54E+02	9.88E-01	7.42E-01	7.91E-01	NA						
MW-39-124	2	001	124.0	-44.0	5/22/2007	9:50	2.61E+02	9.26E-01	-1.15E-01	-5.31E-01	3.55E+00	2.27E+02	1.48E+00	ND	ND	ND	MW-39-124
	3	002			8/7/2007	13:40	1.92E+02	5.90E-01	-1.14E+00	4.97E-01	NA						
	1	003			1/17/2008	15:40	1.67E+02	1.48E+00	6.55E-01	9.85E-01	NA						
MW-39-183	2	001	182.5	-102.5	5/22/2007	10:08	2.47E+02	6.51E-01	6.42E-01	3.09E-02	0.00E+00	2.47E+02	8.29E-01	ND	ND	ND	MW-39-183
	3	002			8/7/2007	12:40	1.88E+02	7.11E-01	1.38E+00	2.34E+00	NA						
	1	003			1/17/2008	11:55	4.65E+01	8.29E-01	-3.72E-01	0.00E+00	NA						
MW-39-195	2	001	195.0	-115.0	5/22/2007	12:45	2.55E+02	1.30E+00	0.00E+00	3.54E-01	-2.52E+00	2.28E+02	1.10E+00	ND	ND	ND	MW-39-195
	3	002			8/7/2007	12:00	2.00E+02	5.92E-01	-4.08E-02	-2.76E-01	NA						
	1	003			1/17/2008	17:28	9.63E+01	8.97E-01	7.57E-01	8.15E-01	NA						
MW-40-27	2	001	26.7	46.5	6/5/2007	11:00	1.56E+02	-7.82E-04	2.70E-02	1.48E+00	NA	ND	ND	ND	ND	ND	MW-40-27
	3	002			7/23/2007	12:35	1.62E102	3.32E-01	2.52E100	-5.97E-02	NA						
	1	003			1/7/2008	16:28	1.44E+02	-4.39E-01	-4.17E-01	6.09E-01	NA						
MW-40-46	2	001	46.2	27.0	6/5/2007	11:50	1.42E+02	-3.17E-01	7.90E-01	-2.35E+00	NA	ND	ND	ND	ND	NA	MW-40-46
	3	002			7/23/2007	12:15	9.48E+01	3.50E-01	-9.08E-01	-1.72E+00	NA						
	4	003			10/12/2007	14:45	-1.59E+01	-2.14E-02	-3.80E-01	4.94E-01	NA						
	1	004			1/7/2008	14:42	-1.96E+01	8.04E-01	-1.21E+00	1.16E+00	NA						
MW-40-81	2	001	80.7	-7.5	6/5/2007	12:37	1.63E+02	-2.93E-02	-1.00E+00	-4.70E-03	NA	ND	ND	ND	ND	NA	MW-40-81
	3	002			7/23/2007	13:00	6.95E101	2.45E-01	-7.08E-01	2.31E100	NA						
	4	003			10/12/2007	10:52	6.99E+01	-9.65E-02	5.47E-01	7.73E-01	NA						
	1	004			1/7/2008	14:35	1.09E+02	2.87E-01	-7.49E-01	-2.66E-01	NA						
MW-40-100	2	001	100.2	-27.0	6/5/2007	11:15	1.76E+02	3.40E-01	-1.92E+00	-1.98E+00	NA	1.76E+02	ND	ND	ND	NA	MW-40-100
	3	002			7/23/2007	13:20	8.12E+01	2.91E-01	-4.67E-01	1.78E-01	NA						
	4	003			10/12/2007	11:03	5.95E+01	-7.39E-02	1.93E+00	8.90E-01	NA						
	1	004			1/7/2008	11:55	1.98E+01	-7.69E-02	3.13E-01	8.84E-02	NA						
MW-40-127	2	001	127.2	-54.0	6/5/2007	12:55	1.87E102	2.60E-01	7.57E-01	-5.59E-03	NA	1.87E102	ND	ND	ND	NA	MW-40-127
	3	002			7/23/2007	15:15	4.26E+01	3.83E-01	-1.17E+00	2.04E-01	NA						
	4	003			10/12/2007	11:30	2.83E+01	1.01E-01	-2.32E+00	-1.51E+00	NA						
	1	004			1/7/2008	12:30	9.75E+00	5.17E-01	6.45E-01	3.24E-01	NA						
MW-40-162	2	001	161.7	-88.5	6/5/2007	14:45	1.40E+02	2.94E-01	-1.67E+00	3.85E-01	NA	ND	ND	ND	ND	NA	MW-40-162
	3	002			7/23/2007	17:40	2.59E+01	1.19E-01	-2.51E-01	7.27E-01	NA						
	4	003			10/12/2007	12:54	4.45E+01	-5.48E-02	-1.11E+00	-1.01E+00	NA						
	1	004			1/7/2008	13:10	4.96E101	7.93E-02	4.17E-01	3.63E-01	NA						
MW-41-40	2	008	36.0	18.9	6/19/2007	14:45	3.91E+03	5.99E+00	-3.09E+00	-3.47E-01	2.21E-01	1.50E+03	5.00E+00	2.67E+00	ND	ND	MW-41-40
	3	009			8/14/2007	14:35	3.80E+02	5.96E+00	0.00E+00	1.40E+00	NA						
	1	010			1/24/2008	16:28	2.15E+02	3.05E+00	2.67E+00	-5.18E-01	NA						
MW-41-63	2	007	61.0	-6.1	6/20/2007	11:05	5.52E+02	7.08E+00	-3.10E-01	-1.06E-02	-4.39E-01	4.67E+02	4.80E+00	ND	ND	ND	MW-41-63
	3	008			8/14/2007	16:10	5.47E+02	3.55E+00	-2.83E+00	1.32E-01	NA						
	1	009			1/25/2008	10:05	3.03E+02	3.76E+00	0.00E+00	5.24E-02	NA						

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2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-42-49	2	004	41.0	28.7	6/18/2007	15:00	1.34E+03	7.73E+01	1.90E+04	4.29E+00	1.03E+03	1.64E+03	4.55E+01	2.68E+04	1.59E+01	8.05E+02	MW-42-49
	3	005			8/2/2007	14:37	1.50E+03	5.02E+01	2.48E+04	3.55E+00	8.05E+02						
	3	006			8/17/2007	9:30	1.60E+03	2.01E+01	1.96E+04	-4.63E-01	5.26E+02						
	4	007			10/4/2007	12:40	2.46E+03	4.65E+01	3.69E+04	1.59E+01	1.17E+03						
	1	008			1/21/2008	16:11	1.32E+03	3.34E+01	3.38E+04	0.00E+00	5.01E+02						
MW-42-78	2	003	74.0	-4.3	6/18/2007	14:40	3.78E+02	3.83E-01	6.28E+01	2.31E+00	2.48E+00	3.88E+02	ND	1.30E+02	ND	ND	MW-42-78
	3	004			7/27/2007	11:30	3.19E+02	-2.21E-01	0.00E+00	1.25E+00	6.81E+00						
	3	005			8/17/2007	9:56	4.61E+02	2.69E-01	4.51E+01	-7.27E-01	3.04E+00						
	4	006			10/4/2007	13:25	4.34E+02	2.33E-01	3.04E+02	3.10E+00	6.86E-01						
	1	007			1/21/2008	15:33	3.46E+02	-2.51E-01	1.08E+02	1.71E-01	9.73E+00						
MW-43-28	2	007	23.0	25.8	6/18/2007	13:30	2.78E+02	1.07E+00	-3.68E-01	-3.72E-01	3.58E+00	2.92E+02	1.07E+00	ND	ND	ND	MW-43-28
	3	008			8/13/2007	11:35	9.56E+01	-6.25E-01	-7.36E-01	2.77E-01	NA						
	1	009			1/25/2008	11:11	3.06E+02	1.46E-01	1.88E+00	1.46E+00	8.44E+00						
MW-43-62	2	007	54.0	-5.2	6/19/2007	9:36	1.97E+02	8.55E-01	-6.77E-01	-8.52E-01	1.38E+00	ND	9.28E-01	ND	ND	ND	MW-43-62
	3	008			8/13/2007	12:42	1.14E+02	1.29E-01	-1.18E+00	1.53E-01	NA						
	1	009			1/25/2008	10:57	1.23E+02	1.00E+00	4.31E-01	-1.11E+00	3.76E+00						
MW-44-66	2	004	63.0	30.5	6/29/2007	15:00	2.68E+02	-4.25E-01	2.64E-01	7.78E-01	NA	3.72E+02	ND	1.73E+01	ND	NA	MW-44-66
	3	005			8/14/2007	13:10	4.17E+02	9.30E-02	-8.93E-01	-3.39E-01	NA						
	4	006			10/31/2007	13:30	5.13E+02	3.77E-01	2.76E+00	1.91E+00	NA						
	1	008			1/24/2008	12:55	2.91E+02	2.85E-01	1.73E+01	1.40E+00	NA						
MW-44-102	2	005	80.0	13.5	6/19/2007	17:46	2.98E+02	-1.33E-01	1.88E+00	6.41E-01	-4.92E+00	3.38E+02	ND	1.18E+01	ND	ND	MW-44-102
	3	006			8/14/2007	14:55	2.84E+02	1.97E-01	-1.46E+00	-1.35E+00	NA						
	4	007			10/31/2007	12:01	3.54E+02	-2.58E-01	-6.60E-01	-1.23E+00	NA						
	1	007			1/24/2008	13:05	4.17E+02	2.06E-01	1.18E+01	-4.44E-03	NA						
MW-45-42	2	008	37.0	16.6	6/21/2007	15:05	2.32E+03	-6.08E-02	1.31E-01	2.51E+00	3.58E+00	1.79E+03	ND	ND	ND	ND	MW-45-42
	3	009			8/15/2007	11:30	1.16E+03	-3.79E-01	1.92E+00	1.19E+00	NA						
	4	010			10/5/2007	11:05	2.22E+03	3.55E-01	0.00E+00	3.65E-01	NA						
	1	011			1/25/2008	12:15	1.44E+03	2.08E-01	1.60E+00	5.96E-01	NA						
MW-45-61	2	008	58.0	-4.4	6/21/2007	12:55	1.47E+03	-7.02E-02	3.52E+00	-7.21E-01	3.35E+00	1.95E+03	ND	ND	ND	ND	MW-45-61
	3	009			8/15/2007	11:55	1.50E+03	4.74E-02	3.33E+00	-6.51E-01	NA						
	4	010			10/5/2007	11:30	2.15E+03	4.87E-01	-1.73E-01	6.59E-02	NA						
	1	011			1/25/2008	11:55	2.66E+03	4.26E-01	2.42E+00	-2.05E-01	NA						
MW-46	2	008	10.5	7.6	6/14/2007	13:50	3.43E+03	2.15E-01	3.08E-01	8.52E-02	-1.05E+00	1.58E+03	ND	ND	ND	ND	MW-46
	3	009			8/1/2007	11:35	6.62E+02	7.89E-02	6.63E-01	6.33E-02	NA						
	4	010			10/22/2007	14:20	1.67E+03	2.17E-01	4.68E-01	-7.20E-01	NA						
	1	011			1/22/2008	12:19	5.49E+02	5.30E-01	-3.99E-01	1.73E+00	NA						
MW-47-56	2	004	52.0	18.3	6/20/2007	10:07	5.29E+02	5.93E-01	0.00E+00	3.57E+00	NA	4.00E+02	5.93E-01	ND	ND	ND	MW-47-56
	2	004			6/20/2007	10:07	NA	NA	0.00E+00	1.63E+00	3.81E+00						
	3	005			8/10/2007	11:00	2.70E+02	5.07E-01	-3.84E-01	1.49E-01	NA						
MW-47-80	2	003	72.0	-1.7	6/19/2007	11:00	2.36E+03	3.27E+00	2.05E+00	-2.27E+00	4.08E-01	2.94E+03	3.41E+00	ND	ND	ND	MW-47-80
	3	004			8/10/2007	12:21	3.51E+03	3.55E+00	-9.39E-02	-8.20E-02	NA						
MW-48-23	3	011	15.8	-0.4	8/16/07	11:00	3.93E+02	-3.94E-01	1.66E+00	5.36E-01	NA	3.93E+02	ND	ND	ND	NA	MW-48-23
MW-48-37	3	011	35.8	-20.4	8/16/07	11:07	1.29E+02	4.11E-02	1.78E+00	-4.00E-01	NA	ND	ND	ND	ND	NA	MW-48-37
MW-49-26	2	009	20.0	-5.3	6/26/2007	12:30	7.76E+03	1.27E+01	1.36E+00	-8.28E-01	-1.92E+00	6.23E+03	1.66E+01	ND	ND	ND	MW-49-26
	3	010			8/9/2007	11:17	6.72E+03	1.43E+01	4.09E-01	2.50E+00	7.93E-01						

See Page 11 for Notes

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-49-26	1	011			1/28/2008	16:28	4.21E+03	2.29E+01	-1.19E+00	4.31E-01	5.16E+00						
MW-49-42	2	009	37.0	-22.3	6/26/2007	12:30	4.44E+03	2.08E+01	-3.62E-01	-2.09E+00	-5.19E+00	3.85E+03	2.53E+01	ND	ND	ND	MW-49-42
	3	010			8/9/2007	12:05	4.30E+03	2.56E+01	-1.17E+00	2.77E+00	4.03E-01						
	1	011			1/28/2008	15:49	2.81E+03	2.94E+01	8.68E-01	8.96E-01	5.79E+00						
MW-49-65	2	009	61.0	-46.4	6/26/2007	12:30	2.62E+03	1.58E+01	-1.36E-03	-3.59E+00	-7.43E+00	2.29E+03	2.13E+01	ND	ND	ND	MW-49-65
	3	010			8/9/2007	11:20	2.41E+03	2.08E+01	3.44E-01	1.65E+00	3.50E+00						
	1	011			1/28/2008	16:52	1.85E+03	2.73E+01	2.83E+00	-1.63E+00	1.01E+01						
MW-50-42[11]	2	009	27.0	-12.1	6/26/2007	14:30	2.15E+02	1.16E+01	1.91E+00	-1.64E+00	-6.30E+00	5.92E+02	1.22E+01	ND	ND	ND	MW-50-42
	3	010			7/26/2007	11:20	1.45E+02	1.94E+01	-5.50E+00	2.53E+00	4.92E+00						
	4	011			10/18/2007	14:08	1.01E102	2.45E101	3.02E-01	6.26E-01	0.00E100						
	1	012			1/15/2008	11:59	9.48E+02	2.93E+00	1.63E+01	-4.30E-01	1.24E+01						
	1	013			2/26/2008	12:19	6.13E+02	2.40E+00	-1.95E+00	1.77E+00	1.71E+01						
MW-50-66	2	009	60.0	-45.1	6/26/2007	14:02	4.21E+03	2.93E+01	-2.19E+00	1.63E-01	-6.05E-01	3.97E+03	3.58E+01	ND	ND	ND	MW-50-66
	3	010			7/26/2007	11:25	4.50E+03	3.10E+01	-1.12E+00	1.08E-02	1.93E+01						
	4	011			10/18/2007	14:38	3.85E+03	4.74E+01	-2.28E+00	1.65E+00	0.00E+00						
	1	012			1/15/2008	12:10	3.31E+03	3.56E+01	1.56E+01	6.31E-02	1.16E+01						
	1	013			2/26/2008	13:46	5.86E101	1.57E-01	1.83E-02	7.71E-01	NA						
MW-51-40[12]	2	001	39.7	28.0	5/30/2007	11:45	1.98E+02	-5.30E-01	1.04E-01	1.61E+00	NA	2.11E+02	ND	ND	ND	NA	MW-51-40
	3	002			7/24/2007	15:30	2.23E+02	7.09E-02	1.65E-02	-1.32E+00	NA						
	4	003			10/2/2007	13:48	1.34E+02	-2.63E-01	5.15E+00	7.44E-01	NA						
	4	004			11/9/2007	15:40	1.47E102	-8.16E-02	1.68E100	-5.71E-02	NA						
	1	005			1/8/2008	10:47	5.86E+01	1.57E-01	1.83E-02	7.71E-01	NA						
MW-51-79	2	001	78.7	-11.0	5/30/2007	12:42	9.89E+01	-2.36E-01	2.20E+00	3.52E-01	NA	ND	ND	ND	ND	NA	MW-51-79
	3	002			7/24/2007	17:00	4.24E+01	8.02E-03	-6.37E-01	-2.83E-01	NA						
	4	003			10/2/2007	13:54	-2.51E+01	6.94E-02	5.37E+00	1.84E+00	NA						
	4	004			11/9/2007	16:18	5.00E+01	-4.97E-02	2.66E+00	-2.43E-01	NA						
	1	005			1/8/2008	10:08	9.26E+01	-4.64E-01	-7.91E-01	2.58E-01	NA						
MW-51-104	2	001	103.7	-36.0	5/30/2007	11:05	5.71E101	-6.74E-02	1.25E100	7.70E-02	NA	ND	ND	ND	ND	NA	MW-51-104
	3	002			7/24/2007	17:06	9.07E+01	3.62E-01	-4.20E+00	1.42E+00	NA						
	4	003			10/2/2007	11:45	3.67E+01	4.21E-02	5.71E+00	-8.32E-01	NA						
	4	004			11/9/2007	14:35	5.17E+01	-2.40E-01	-1.26E+00	1.15E+00	NA						
	1	005			1/8/2008	12:15	-4.84E+00	-6.19E-02	-9.37E-01	-3.84E-01	NA						
MW-51-135	2	001	135.2	-67.5	5/30/2007	13:00	8.24E+01	-4.68E-01	-4.01E-01	2.56E+00	NA	ND	ND	ND	ND	NA	MW-51-135
	3	002			7/24/2007	12:40	9.51E+01	5.33E-02	-4.56E-01	3.42E-01	NA						
	4	003			10/2/2007	12:05	3.04E101	-3.08E-02	2.16E101	5.46E-01	NA						
	4	004			11/9/2007	11:55	9.83E+01	-2.42E-01	-7.27E-01	-3.14E-01	NA						
	1	005			1/8/2008	13:20	4.91E+01	3.47E-02	6.30E-02	1.43E-02	NA						
MW-51-163	2	001	162.7	-95.0	5/30/2007	14:40	1.18E+02	3.29E-01	-2.81E-01	1.77E-01	NA	ND	ND	ND	ND	NA	MW-51-163
	3	002			7/24/2007	14:05	4.98E+01	1.05E-01	-2.43E-01	8.64E-02	NA						
	4	003			10/2/2007	13:35	4.23E+01	8.07E-02	1.16E+01	2.11E+00	NA						
	4	004			11/9/2007	13:32	7.30E+01	2.08E-01	1.41E-01	-1.11E+00	NA						
	1	005			1/8/2008	13:57	-1.99E101	4.40E-01	-1.74E100	8.69E-02	NA						
MW-51-189	2	001	189.2	-121.5	5/30/2007	14:00	1.87E+02	-2.88E-02	-3.62E-02	4.56E+00	NA	1.87E+02	ND	ND	ND	NA	MW-51-189
	3	002			7/24/2007	13:15	9.49E+01	3.93E-01	-8.87E-01	1.57E+00	NA						
	4	003			10/2/2007	12:20	8.45E+00	-5.06E-02	1.38E+01	-4.14E-01	NA						

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-51-189	4	004			11/9/2007	13:05	-6.26E+00	1.93E-01	3.04E+00	-8.07E-02	NA						
	1	005			1/8/2008	13:10	-4.82E+00	-3.17E-02	1.35E+00	1.42E+00	NA						
MW-52-11	2	001	10.0	6.8	6/20/2007	12:35	1.47E+02	-3.58E-01	1.96E+00	6.12E-01	-4.56E+00	ND	ND	ND	ND	ND	MW-52-11
	3	002			8/6/2007	16:18	7.71E+01	-5.43E-01	-2.16E+00	3.39E-02	NA						
MW-52-18	2	001	17.5	-2.6	5/24/2007	10:44	1.62E+02	-2.20E-01	6.53E-01	3.13E+00	-1.09E+00	ND	ND	ND	ND	ND	MW-52-18
	3	002			8/6/2007	13:45	6.73E+01	-7.91E-02	-1.43E+00	1.11E-01	NA						
MW-52-48	2	001	48.0	-33.1	5/24/2007	11:35	7.02E+01	-3.61E-01	3.66E-01	-9.91E-01	-2.74E+00	ND	ND	ND	ND	ND	MW-52-48
	3	002			8/6/2007	14:00	1.15E+02	-5.59E-01	7.85E-01	4.31E-01	NA						
MW-52-64	2	001	64.0	-49.1	5/24/2007	14:44	3.82E+00	-3.20E-01	-1.03E+00	8.00E-01	-2.85E+00	ND	ND	ND	ND	ND	MW-52-64
	3	002			8/6/2007	15:50	3.72E+01	-1.70E-02	5.10E-01	1.80E+00	NA						
MW-52-122	2	001	122.0	-107.1	5/24/2007	14:55	6.78E+01	-4.24E-01	2.52E+00	-1.76E+00	-1.94E+00	ND	ND	ND	ND	ND	MW-52-122
	3	002			8/6/2007	12:05	4.42E+01	-4.19E-01	1.99E+00	2.10E-01	NA						
MW-52-162	2	001	161.5	-146.6	5/24/2007	11:55	2.82E+02	-5.15E-01	-5.80E-01	1.59E+00	-7.54E-01	2.47E+02	ND	ND	ND	ND	MW-52-162
	3	002			8/6/2007	11:30	2.11E+02	1.53E-02	3.61E-02	-3.73E-02	NA						
MW-52-181	2	001	181.0	-166.1	5/24/2007	12:06	2.48E+02	-3.19E-01	-5.99E-01	-2.81E-01	-2.23E-01	2.48E+02	ND	ND	ND	ND	MW-52-181
	3	002			8/6/2007	11:40	1.19E+02	5.84E-02	-1.21E+00	1.28E+00	NA						
MW-53-82	2	003	75.0	-4.7	6/22/2007	15:30	8.68E+03	3.98E+00	3.81E+00	1.95E+00	4.53E+00	2.88E+03	3.98E+00	ND	ND	ND	MW-53-82
	3	004			8/9/2007	11:31	7.76E102	-3.41E-02	6.29E-01	-1.05E100	-2.21E100						
	4	005			10/24/2007	13:53	1.11E+03	2.35E-01	3.07E-01	-1.06E+00	-1.59E+00						
	1	006			1/21/2008	12:52	9.42E+02	2.19E-01	0.00E+00	-1.36E+00	3.81E+00						
MW-53-120	2	003	105.0	-34.7	6/22/2007	14:22	9.61E+03	3.57E+01	7.93E+00	9.47E-01	1.73E+01	8.14E+03	3.55E+01	7.93E+00	ND	1.73E+01	MW-53-120
	3	004			8/9/2007	12:45	8.05E+03	3.70E+01	1.37E+00	-1.59E-01	1.95E+01						
	4	005			10/24/2007	13:38	7.40E+03	3.81E+01	-5.34E-01	-2.23E-01	7.06E+00						
	1	006			1/21/2008	10:43	7.48E+03	3.12E+01	1.38E+00	1.14E-01	1.71E+01						
MW-54-37	2	001	36.5	-23.4	5/3/2007	16:19	8.01E102	1.25E101	2.44E100	-1.43E100	6.09E100	9.50E102	7.45E100	ND	ND	ND	MW-54-37
	3	002			7/31/2007	10:30	8.88E+02	5.30E+00	1.46E+00	-2.64E-02	-4.74E+00						
	4	003			10/19/2007	13:25	1.04E+03	6.19E+00	6.04E-01	6.61E-01	1.04E+01						
	1	004			1/15/2008	13:18	1.07E+03	5.79E+00	7.48E-02	1.03E+00	-1.88E-01						
MW-54-58	2	001	57.5	-44.4	5/3/2007	16:45	7.60E+02	2.22E+00	-3.77E-01	1.15E-01	7.50E+00	6.65E+02	2.10E+00	ND	ND	ND	MW-54-58
	3	002			7/31/2007	9:55	6.93E+02	1.76E+00	-1.32E+00	8.17E-03	1.97E-01						
	4	003			10/19/2007	13:35	5.61E+02	4.38E-01	-2.08E-01	3.56E-01	2.09E+00						
	1	004			1/15/2008	13:45	6.47E102	2.32E100	2.16E100	-7.34E-01	4.41E100						
MW-54-123	2	001	123.0	-109.9	5/3/2007	14:18	1.11E+03	2.19E+01	4.21E+00	-2.65E+00	7.45E+00	8.27E+02	1.41E+01	4.21E+00	ND	ND	MW-54-123
	3	002			7/31/2007	11:10	9.63E+02	1.35E+01	0.00E+00	2.96E+00	-3.63E+00						
	4	003			10/19/2007	12:09	7.01E+02	1.16E+01	4.02E-02	-1.72E+00	-4.31E-01						
	1	004			1/15/2008	10:52	5.33E+02	9.56E+00	8.25E-01	4.41E-01	6.86E+00						
MW-54-144	2	001	144.0	-130.9	5/3/2007	14:31	1.34E+03	1.61E+01	-1.34E+00	5.23E-01	4.64E+00	1.54E+03	1.66E+01	ND	ND	ND	MW-54-144
	3	002			7/31/2007	13:33	1.89E+03	1.92E+01	-1.19E+00	5.02E-02	-6.13E+00						
	4	003			10/19/2007	12:12	1.54E103	1.58E101	8.53E-01	-4.41E-01	4.35E-01						
	1	004			1/15/2008	11:22	1.40E+03	1.53E+01	3.67E+00	4.86E-02	9.81E+00						
MW-54-173	2	001	172.5	-159.4	5/3/2007	14:43	1.90E+03	2.09E+01	-4.52E-01	1.92E+00	5.00E+00	1.93E+03	1.61E+01	ND	ND	ND	MW-54-173
	3	002			7/31/2007	13:40	2.08E+03	1.45E+01	7.90E-01	7.75E-01	3.92E+00						
	4	003			10/19/2007	12:14	1.91E+03	1.49E+01	1.05E+00	-3.08E-01	1.37E+00						
	1	004			1/15/2008	11:15	1.84E+03	1.41E+01	-3.68E-01	5.21E-01	4.79E+00						
MW-54-190	2	001	190.0	-176.9	5/3/2007	15:00	1.87E+03	1.95E+01	1.82E+00	3.32E-01	1.54E+00	2.12E+03	1.93E+01	ND	ND	ND	MW-54-190

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2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-54-190	3	002			7/31/2007	13:45	2.25E+03	1.79E+01	-2.13E+00	9.32E-01	-3.07E+00						
	4	003			10/19/2007	12:20	2.13E+03	2.04E+01	-1.04E+00	7.41E-01	0.00E+00						
	1	004			1/15/2008	11:37	2.24E+03	1.93E+01	6.45E-01	-3.88E-01	9.23E+00						
MW-55-24	2	002	16.0	2.3	6/28/2007	11:20	3.08E+03	3.25E+01	0.00E+00	1.16E+00	NA	2.28E+03	2.53E+01	3.33E+00	ND	ND	MW-55-24
	3	003			8/2/2007	11:17	2.71E+03	2.31E+01	-4.91E-01	1.40E+00	-7.94E+00						
	4	004			10/16/2007	10:15	2.20E+03	2.29E+01	6.26E-01	7.46E-01	NA						
	1	005			1/28/2008	12:57	1.14E+03	2.26E+01	3.33E+00	1.04E+00	1.44E+01						
MW-55-35	2	002	32.0	-13.8	6/28/2007	11:50	3.09E+03	3.25E+01	-4.64E-01	-1.00E+00	NA	3.55E+03	3.11E+01	ND	ND	ND	MW-55-35
	3	003			8/2/2007	11:20	3.68E+03	3.40E+01	9.35E-01	7.69E-01	2.90E+00						
	4	004			10/16/2007	10:02	5.09E+03	3.16E+01	2.62E+00	1.44E+00	NA						
	1	005			1/28/2008	11:46	2.33E+03	2.64E+01	-5.28E-01	-6.90E-01	1.12E+01						
MW-55-54	2	002	47.0	-28.8	6/28/2007	11:40	1.04E+04	2.47E+01	1.30E-01	-4.69E-01	NA	9.52E+03	2.30E+01	ND	ND	ND	MW-55-54
	3	003			8/2/2007	12:00	9.91E+03	2.22E+01	-1.09E+00	1.46E+00	6.13E+00						
	4	004			10/16/2007	10:05	1.03E+04	2.23E+01	-9.80E-01	8.80E-01	NA						
	1	005			1/28/2008	11:42	7.48E+03	2.28E+01	-8.47E-01	-1.29E+00	1.09E+01						
MW-56-53	2	002	52.0	18.3	6/26/2007	10:51	2.89E+02	-4.49E-02	-5.30E-01	2.93E+00	1.30E+00	2.56E+02	ND	ND	ND	ND	MW-56-53
	3	003			8/10/2007	12:25	2.16E+02	-5.66E-01	8.31E-01	3.99E-02	NA						
	1	004			1/31/2008	12:30	2.63E+02	5.70E-01	3.38E-01	5.97E-01	1.74E+00						
MW-56-83	2	004	74.0	-3.7	6/22/2007	10:44	1.85E+03	1.87E+00	1.47E-01	-1.87E+00	3.95E+00	1.76E+03	2.62E+00	ND	ND	ND	MW-56-83
	3	005			8/10/2007	11:10	1.49E+03	2.43E+00	-9.15E-01	1.87E-01	NA						
	1	006			1/31/2008	9:30	1.94E+03	3.56E+00	-8.03E-01	1.60E+00	6.57E-01						
MW-57-11	2	001	10.0	5.0	6/22/2007	12:17	4.61E+03	4.55E+01	2.29E+00	3.69E-02	2.24E+01	4.61E+03	1.17E+01	ND	ND	2.24E+01	MW-57-11
	3	002			8/6/2007	12:30	4.69E+03	3.79E+01	1.15E+00	3.95E-03	-5.75E-01						
MW-57-20	2	001	19.0	-4.0	6/22/2007	12:30	1.65E+03	1.96E+00	-1.33E+00	-9.51E-01	4.77E-01	1.32E+03	1.60E+00	ND	ND	ND	MW-57-20
	3	002			8/6/2007	12:15	9.96E+02	1.23E+00	1.21E+00	6.05E-01	-1.19E+01						
MW-57-45	2	002	40.0	-25.0	6/22/2007	12:55	9.55E+02	1.90E+00	-1.97E-01	-8.51E-01	6.46E-01	8.48E+02	2.23E+00	ND	ND	ND	MW-57-45
	3	003			8/6/2007	12:17	7.40E+02	2.55E+00	-3.91E-01	-1.89E-01	-1.15E+01						
MW-58-26	2	003	20.0	-5.4	6/21/2007	11:10	5.97E+02	1.04E+00	1.62E+00	-3.94E-01	1.07E+00	5.83E+02	1.03E+00	ND	ND	ND	MW-58-26
	3	004			7/31/2007	11:00	8.56E+02	1.02E+00	1.18E+00	4.20E-01	NA						
	1	005			1/22/2008	13:20	2.95E+02	-1.43E-01	9.19E-01	-5.41E-02	NA						
MW-58-65	2	003	54.0	-39.4	6/21/2007	11:10	3.15E+02	-1.90E-01	-2.19E-01	-2.89E+00	2.80E+00	3.23E+02	ND	ND	ND	ND	MW-58-65
	3	004			7/31/2007	11:00	3.42E+02	6.20E-03	2.18E+00	1.02E+00	NA						
	1	005			1/22/2008	12:00	3.13E+02	1.21E-01	5.54E-01	-1.23E-01	NA						
MW-59-32	2	003	27.0	-12.5	6/21/2007	15:25	4.67E+02	-6.68E-02	6.01E-01	-4.19E-01	-4.37E-01	3.18E+02	ND	ND	ND	ND	MW-59-32
	3	004			7/31/2007	14:35	1.69E+02	2.00E-01	2.26E-01	7.97E-01	NA						
MW-59-45	2	003	42.0	-27.5	6/21/2007	15:25	7.54E+02	-2.74E-01	-1.10E-01	8.14E-02	7.74E-01	5.62E+02	ND	ND	ND	ND	MW-59-45
	3	004			7/31/2007	13:58	2.49E+02	1.64E-01	4.48E-01	7.64E-01	NA						
MW-59-68	2	003	58.0	-43.5	6/21/2007	15:25	5.90E+02	2.97E-01	6.26E-01	1.27E+00	-4.23E+00	7.05E+02	ND	ND	ND	ND	MW-59-68
	3	004			7/31/2007	13:58	8.19E+02	3.66E-01	9.02E-01	3.72E-01	NA						
MW-60-35	2	001	34.9	-22.4	5/8/2007	13:27	-9.12E+00	-1.79E-01	1.41E+00	2.45E+00	0.00E+00	4.73E+02	ND	ND	ND	ND	MW-60-35
	3	002			7/27/2007	13:07	7.61E102	6.48E-02	5.95E-01	-3.31E-01	NA						
	4	003			10/9/2007	13:20	1.84E+02	3.01E-01	1.51E+00	0.00E+00	NA						
	1	004			1/14/2008	17:05	7.78E+01	5.05E-01	1.11E+00	-9.16E-01	NA						
MW-60-53	2	001	53.4	-40.9	5/8/2007	11:52	5.32E+01	-4.92E-01	-2.83E+00	2.15E-01	3.58E+00	ND	ND	ND	ND	ND	MW-60-53
	3	002			7/27/2007	12:50	1.25E+02	-4.72E-01	1.46E-01	7.87E-01	NA						

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-60-53	4	003			10/9/2007	12:22	1.13E+02	6.19E-01	-2.11E+00	3.62E-01	NA						
	1	004			1/14/2008	15:40	5.35E+01	-1.69E-01	-1.10E+00	-1.89E+00	NA						
MW-60-72	2	001	72.4	-59.9	5/8/2007	12:17	-9.26E+00	2.87E-01	1.61E+00	9.40E-01	8.28E-01	ND	ND	ND	ND	ND	MW-60-72
	3	002			7/27/2007	13:22	1.10E+02	-3.27E-01	4.79E-01	-1.10E+00	NA						
	4	003			10/9/2007	14:15	1.24E+02	1.64E-01	7.48E-01	6.12E-01	NA						
	1	004			1/14/2008	14:12	1.36E+02	1.58E-01	5.42E-03	8.47E-01	NA						
MW-60-135	2	001	134.9	-122.4	5/8/2007	12:03	2.54E+01	3.35E-01	-1.05E+00	1.74E-01	4.54E+00	4.30E+02	ND	ND	ND	ND	MW-60-135
	3	002			7/27/2007	16:00	3.92E+02	-2.13E-01	2.78E-02	1.78E-01	NA						
	4	003			10/9/2007	14:20	5.20E+02	-2.59E-01	-1.55E+00	-8.88E-02	NA						
	1	004			1/14/2008	14:19	3.79E+02	-1.70E-01	-1.33E+00	4.22E-01	NA						
MW-60-154	2	001	154.4	-141.9	5/8/2007	12:33	4.13E+01	3.06E-01	1.97E-01	1.46E+00	5.52E-01	5.34E+02	ND	ND	ND	ND	MW-60-154
	3	002			7/27/2007	16:18	4.62E+02	-1.53E-01	8.09E-01	3.74E+00	NA						
	4	003			10/9/2007	14:23	5.80E+02	-1.92E-02	-1.63E+00	2.20E-01	NA						
	1	004			1/14/2008	12:35	5.59E+02	1.10E+00	1.59E+00	2.92E-01	NA						
MW-60-176	2	001	175.9	-163.4	5/8/2007	15:16	5.30E+02	6.88E-02	3.49E-01	1.14E+00	7.69E+00	6.87E+02	ND	ND	ND	ND	MW-60-176
	3	002			7/27/2007	17:35	8.49E+02	-4.60E-01	2.00E+00	-1.76E+00	NA						
	4	003			10/9/2007	14:57	7.02E+02	-5.93E-02	-2.68E-01	3.91E-01	NA						
	1	004			1/14/2008	12:25	6.68E+02	-7.68E-02	2.22E-01	5.49E-01	NA						
MW-62-18	2	001	13.5	1.2	5/17/2007	13:10	4.52E+02	2.98E-02	-5.10E-01	1.00E-01	4.61E+00	4.22E+02	1.80E+00	ND	ND	ND	MW-62-18
	3	002			7/26/2007	15:45	5.08E+02	4.68E-01	9.04E-01	-2.80E+00	NA						
	4	003			10/10/2007	13:50	3.76E+02	1.80E+00	0.00E+00	-7.14E-02	NA						
	1	004			1/31/2008	15:15	3.50E+02	4.95E-01	1.18E+00	5.24E-01	NA						
MW-62-37	2	001	34.5	-19.8	5/17/2007	11:10	2.97E+02	3.30E-01	9.81E-01	-1.12E+00	1.01E+01	3.12E+02	ND	ND	ND	ND	MW-62-37
	3	002			7/26/2007	15:35	2.50E+02	-2.57E-01	-6.88E-02	-4.23E-01	NA						
	4	003			10/10/2007	14:50	3.02E+02	-1.67E-01	2.12E-01	-7.67E-01	NA						
	1	004			1/10/2008	13:55	3.97E+02	1.34E-01	8.35E-01	-2.10E-01	NA						
MW-62-53	2	001	53.1	-40.3	5/10/2007	15:00	3.93E+02	4.11E-01	6.50E-01	-9.12E-01	-5.00E+00	3.62E+02	ND	ND	ND	ND	MW-62-53
	3	002			7/26/2007	15:34	3.45E+02	3.56E-01	0.00E+00	-8.44E-01	NA						
	1	003			1/10/2008	15:37	3.48E+02	4.45E-02	-7.91E-01	7.68E-01	NA						
MW-62-71	2	001	71.1	-58.3	5/10/2007	11:35	5.02E+02	6.16E-01	-8.78E-01	1.37E-01	4.93E+00	3.75E+02	ND	ND	ND	ND	MW-62-71
	3	002			7/26/2007	12:20	1.51E+02	2.15E-01	1.11E+00	-2.39E-01	NA						
	4	003			10/10/2007	12:23	2.69E+02	1.15E-01	1.18E+00	1.54E+00	NA						
	1	004			1/10/2008	14:04	3.53E+02	3.78E-01	-7.82E-01	3.78E-02	NA						
MW-62-92	2	001	91.6	-78.8	5/10/2007	11:18	7.00E+02	7.11E-01	-1.58E+00	7.45E-01	-7.73E+00	4.90E+02	ND	ND	ND	ND	MW-62-92
	3	002			7/26/2007	12:35	4.37E+02	-2.28E-02	6.50E-01	8.32E-01	NA						
	4	003			10/10/2007	12:15	4.28E+02	-1.91E-01	6.23E-01	1.85E+00	NA						
	1	004			1/10/2008	11:09	3.94E+02	1.38E-01	3.75E-01	9.37E-01	NA						
MW-62-138	2	001	138.1	-125.3	5/10/2007	10:22	4.55E+02	8.19E-01	1.73E+00	-1.40E+00	-4.93E+00	6.35E+02	7.77E-01	ND	ND	ND	MW-62-138
	3	002			7/26/2007	15:55	5.38E+02	5.26E-01	6.88E-02	6.39E-01	NA						
	4	003			10/10/2007	14:46	7.78E+02	8.37E-01	0.00E+00	-1.19E+00	NA						
	1	004			1/10/2008	10:05	7.69E+02	7.34E-01	4.30E-01	1.05E-01	NA						
MW-62-182	2	001	182.1	-169.3	5/10/2007	10:43	5.41E+02	1.22E-01	3.74E-02	-2.40E-01	-1.76E+00	4.81E+02	ND	ND	ND	ND	MW-62-182
	3	002			7/26/2007	16:20	4.17E+02	-9.56E-02	-1.16E+00	6.21E-01	NA						
	4	003			10/10/2007	14:42	4.94E+02	-1.48E-01	6.04E-01	5.45E-01	NA						
	1	004			1/10/2008	11:15	4.70E+02	8.15E-02	-1.17E-01	9.22E-01	NA						

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TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-63-18	2	001	14.9	0.7	5/18/2007	10:35	2.30E+02	4.75E-02	8.56E-01	1.11E+00	7.36E+00	2.15E+02	ND	ND	ND	ND	MW-63-18
	3	002			7/30/2007	13:10	2.00E+02	-2.18E-01	1.98E+00	-1.31E+00	NA						
	4	003			10/11/2007	12:43	1.49E+02	3.08E-01	1.52E+00	-1.41E-01	NA						
	1	004			1/9/2008	14:55	1.23E+02	-6.34E-02	2.55E+00	1.97E+00	NA						
MW-63-34	2	001	31.5	-17.3	5/18/2007	13:03	2.28E+02	-1.62E-01	4.10E-01	-3.25E-01	1.57E+00	2.66E+02	ND	ND	ND	ND	MW-63-34
	3	002			7/30/2007	13:28	2.80E+02	-1.64E-01	1.73E-01	3.98E-01	NA						
	4	003			10/11/2007	12:50	2.31E+02	-2.75E-01	-6.24E-01	3.81E-01	NA						
	1	004			1/9/2008	14:20	3.26E+02	1.24E-01	1.83E+00	3.53E-01	NA						
MW-63-50	2	001	49.5	-37.2	5/15/2007	11:48	3.26E+02	-9.70E-02	-1.33E-01	6.64E-01	-2.41E+00	2.99E+02	ND	ND	ND	ND	MW-63-50
	3	002			7/25/2007	14:00	2.25E+02	1.29E-01	2.08E+00	-1.58E-01	NA						
	4	003			10/11/2007	11:10	2.89E+02	-3.41E-01	6.21E-01	1.56E+00	NA						
	1	004			1/9/2008	12:32	3.56E+02	4.48E-01	3.37E-01	-1.42E+00	NA						
MW-63-93	2	002	93.0	-80.7	5/15/2007	12:45	2.81E+02	8.20E-02	1.87E-01	9.57E-01	NA	2.44E+02	ND	ND	ND	NA	MW-63-93
	3	003			7/25/2007	14:34	2.37E+02	-4.43E-01	1.24E+00	9.28E-03	NA						
	4	004			10/11/2007	11:17	1.15E+02	8.19E-01	-6.98E-01	-1.77E+00	NA						
	1	005			1/9/2008	12:46	2.15E+02	1.86E-01	7.74E-01	1.05E-01	NA						
MW-63-112	2	001	111.5	-99.2	5/15/2007	13:10	4.24E+02	-5.27E-02	2.58E+00	9.59E-01	-5.14E+00	3.60E+02	ND	ND	ND	ND	MW-63-112
	3	002			7/25/2007	14:52	2.69E102	6.32E-02	6.92E-01	-6.35E-01	NA						
	4	003			10/11/2007	13:45	2.78E+02	-7.94E-02	-3.04E+00	7.65E-01	NA						
	1	004			1/9/2008	10:20	4.69E+02	2.19E-01	3.90E-01	2.87E-01	NA						
MW-63-121	2	001	121.0	-108.7	5/15/2007	13:42	3.11E+02	3.00E-01	6.30E-01	-1.19E+00	2.29E+00	4.02E+02	ND	ND	ND	ND	MW-63-121
	3	002			7/25/2007	11:50	2.96E+02	3.19E-01	-1.31E+00	1.70E-01	NA						
	4	003			10/11/2007	13:51	4.62E+02	2.39E-01	2.48E+00	1.54E+00	NA						
	1	004			1/9/2008	10:42	5.40E+02	2.06E-02	2.54E+00	1.09E+00	NA						
MW-63-163	2	001	162.5	-150.2	5/15/2007	11:38	5.78E102	-6.43E-02	-8.04E-01	9.51E-01	-9.58E-01	4.94E102	ND	ND	ND	ND	MW-63-163
	3	002			7/25/2007	12:13	4.79E+02	-7.20E-01	-3.18E+00	-4.54E-01	NA						
	4	003			10/11/2007	14:18	3.49E+02	7.93E-03	-4.46E-01	-1.91E-02	NA						
	1	004			1/9/2008	10:51	5.68E+02	3.19E-03	-4.52E-01	2.23E+00	NA						
MW-63-174	2	001	174.0	-161.7	5/15/2007	11:54	5.93E+02	2.64E-01	-6.91E-01	8.16E-03	1.30E+00	5.29E+02	ND	ND	ND	ND	MW-63-174
	3	002			7/25/2007	12:00	5.28E+02	-2.78E-01	6.28E-01	-3.03E-01	NA						
	4	003			10/11/2007	14:22	3.70E+02	-2.85E-01	1.94E+00	-8.59E-01	NA						
	1	004			1/9/2008	10:45	6.23E102	6.16E-01	-1.24E100	1.48E100	NA						
MW-66-21	3	001	14.1	0	7/30/2007	13:45	3.57E+03	1.79E+00	1.77E-01	2.21E+00	NA	1.81E+03	1.76E+00	ND	ND	ND	MW-66-21
	4	002			10/15/2007	10:45	1.04E+03	2.42E+00	-8.32E-01	1.01E-01	1.48E+01						
	1	003			1/14/2008	11:33	8.18E+02	1.09E+00	1.68E+00	2.35E+00	-5.07E+00						
MW-66-36	3	001	33.6	-19.5	7/30/2007	12:49	9.10E+03	6.20E+00	-9.84E-01	-5.59E-01	NA	8.44E+03	1.08E+01	ND	ND	ND	MW-66-36
	4	002			10/15/2007	10:16	8.95E+03	1.12E+01	0.00E+00	-2.92E-01	1.17E+01						
	1	003			1/14/2008	11:40	7.26E+03	1.51E+01	2.34E+00	-1.08E+00	7.19E+00						
MW-67-39[13]	3	001	38.3	-25.8	8/31/2007	12:05	4.86E+03	1.86E+01	-1.93E-01	-9.45E-01	NA	4.61E+03	2.30E+01	1.02E+01	ND	ND	MW-67-39
	4	002			10/1/2007	11:30	5.07E+03	2.71E+01	1.02E+01	3.69E-01	2.51E+00						
	1	003			1/11/2008	16:44	4.35E+03	2.59E+01	0.00E+00	1.77E+00	1.53E+01						
	1	004			2/25/2008	15:38	4.17E+03	2.05E+01	-1.15E+00	1.99E+00	-5.41E-01						
MW-67-105	3	001	104.8	-92.3	8/31/2007	12:35	1.86E103	1.11E100	2.26E-01	-3.08E-01	NA	2.33E+03	1.12E100	ND	ND	ND	MW-67-105
	4	002			10/1/2007	11:40	2.64E+03	4.12E-01	0.00E+00	-4.57E-01	1.05E+01						
	1	003			1/11/2008	15:15	2.43E+03	7.58E-01	9.32E+00	7.44E-01	1.81E+01						

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TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MW-67-105	1	004			2/25/2008	13:44	2.38E+03	1.13E+00	-1.27E+00	-4.79E-02	1.24E+01						
MW-67-173	3	001	172.3	-159.8	8/31/2007	13:04	1.05E+03	3.73E-01	-1.46E+00	1.19E-02	NA	9.27E+02	ND	ND	ND	ND	MW-67-173
	4	002			10/1/2007	12:30	1.01E+03	1.48E-01	-1.34E+00	2.82E+00	4.12E+00						
	1	003			1/11/2008	13:35	6.95E+02	2.14E-01	5.82E+00	-1.79E+00	1.36E+01						
	1	004			2/25/2008	14:00	9.51E+02	-4.12E-01	6.65E-01	-3.63E-01	-5.95E+00						
MW-67-219	3	001	218.8	-206.3	8/31/2007	13:43	1.25E+03	3.27E-02	-1.58E-01	9.02E-01	NA	1.18E+03	ND	ND	ND	ND	MW-67-219
	4	002			10/1/2007	12:53	9.46E+02	-2.27E-01	1.48E-01	1.38E-01	1.21E+01						
	1	003			1/11/2008	12:05	1.28E+03	4.22E-01	4.25E+00	-1.01E+00	9.12E+00						
	1	004			2/25/2008	11:43	1.23E+03	-7.61E-02	-1.33E+00	1.08E+00	1.23E+01						
MW-67-276	3	001	275.3	-262.8	8/31/2007	12:20	6.79E+02	-3.34E-01	1.36E+00	-9.09E-01	NA	9.72E+02	ND	ND	ND	ND	MW-67-276
	4	002			10/1/2007	13:04	1.11E+03	3.82E-02	-3.32E+00	-3.17E-01	5.04E-01						
	1	003			1/11/2008	13:00	1.03E+03	9.99E-02	4.55E+00	-4.84E-01	8.92E+00						
	1	004			2/25/2008	11:48	1.07E+03	4.43E-01	2.00E+00	1.79E+00	1.08E+01						
MW-67-323	3	001	322.3	-309.8	8/31/2007	13:20	3.13E+02	-2.41E-01	1.14E+00	1.29E-01	NA	5.87E+02	ND	ND	ND	ND	MW-67-323
	4	002			10/1/2007	14:08	1.29E+03	5.67E-01	-5.77E-01	-6.19E-01	5.25E-01						
	1	003			1/11/2008	13:52	3.74E+02	3.98E-01	3.85E+00	1.69E+00	1.54E+00						
	1	004			2/25/2008	11:59	3.72E+02	3.61E-01	-2.08E-01	1.29E+00	6.85E+00						
MW-67-340	3	001	339.8	-327.3	8/31/2007	12:54	3.69E102	1.69E-01	6.52E-01	4.53E100	NA	4.32E+02	ND	ND	ND	ND	MW-67-340
	4	002			10/1/2007	14:00	3.90E+02	1.42E-01	7.29E-01	-1.22E+00	3.89E+00						
	1	003			1/11/2008	13:15	4.92E+02	1.07E-01	5.82E+00	3.88E-02	-8.32E+00						
	1	004			2/25/2008	12:00	4.78E+02	-2.17E-01	-1.58E+00	-7.62E-01	5.72E+00						
MW-107	3	005	32.7	110.1	7/23/2007	14:18	8.92E+01	1.66E-01	8.13E-01	1.03E-01	NA	ND	ND	ND	ND	NA	MW-107
MW-111	2	024	16.5	2.4	6/15/2007	14:17	1.19E+05	9.74E-01	-7.53E-01	1.21E-01	6.34E+00	8.85E+04	1.50E+00	ND	ND	ND	MW-111
	3	025			8/3/2007	9:53	9.88E+04	9.74E-01	4.24E-01	3.95E-01	NA						
	1	026			1/28/2008	11:38	4.77E104	2.56E100	2.60E100	-6.32E-01	1.33E101						
U3-4D	1	015	25.6	-10.8	2/1/2008	12:40	3.75E+02	-1.78E-01	2.83E-01	1.41E+00	NA	3.75E+02	ND	ND	ND	ND	U3-4D
U3-T1	2	016	5.7	2.8	6/12/2007	12:51	5.06E+02	6.25E-01	-8.51E-02	7.17E-01	-1.46E+00	5.61E+02	ND	ND	ND	ND	U3-T1
	3	017			8/1/2007	13:20	4.90E+02	5.21E-02	8.49E-01	2.88E-01	NA						
	4	018			10/22/2007	16:13	5.30E+02	3.41E-01	-1.08E+00	-1.34E+00	NA						
	1	019			1/22/2008	16:11	7.29E+02	6.26E-01	1.21E+00	-1.79E-01	8.87E+00						
	1	019-B[14]			1/22/2008	16:11	2.54E+01	1.62E-01	7.29E-01	-2.53E-01	-1.42E+00						
	1	019-D[14]			1/22/2008	16:11	6.05E+02	6.43E-01	1.11E+00	2.38E-01	1.14E+01						
	1	019-S[14]			1/22/2008	16:11	2.38E+03	1.07E+01	1.73E+02	-2.33E-01	2.61E+02						
U3-T2	2	021	5.7	2.6	6/12/2007	9:25	1.45E+03	-3.89E-01	2.03E-01	-1.00E-01	5.88E+00	1.30E+03	ND	ND	ND	ND	U3-T2
	3	022			8/1/2007	14:14	1.25E+03	-4.84E-02	-1.75E+00	1.99E-02	NA						
	4	023			10/22/2007	15:07	1.17E+03	2.36E-01	-7.13E-02	2.53E+00	NA						
	1	024			1/22/2008	16:16	1.33E+03	4.31E-01	7.39E-01	-1.14E+00	2.78E+00						
U1-CSS	2	003	14.0	6.1	6/13/2007	11:39	1.53E+03	1.45E+01	8.50E-01	2.82E+00	4.42E+00	1.61E+03	1.63E+01	ND	ND	ND	U1-CSS
	3	004			8/6/2007	15:55	2.80E103	2.68E101	2.53E100	2.48E100	NA						
	1	005			1/15/2008	14:54	4.95E+02	7.73E+00	2.85E+00	-6.88E-02	NA						
LAF-002	2	006	NA	-22.3	6/7/2007	13:18	-6.85E+00	3.19E-01	7.80E-01	6.55E-01	NA	ND	ND	ND	ND	NA	LAF-002
	3	007			10/9/2007	9:35	7.46E+01	4.43E-01	-5.45E-01	-1.44E+00	NA						
	4	008			12/4/2007	10:50	9.00E+01	4.89E-01	-6.91E-01	-2.35E+00	NA						
MH-5[15]	2	001	NA	NA	6/29/2007	12:15	1.41E+03	-3.26E-01	-9.57E-01	6.39E-02	NA	1.28E+03	ND	ND	ND	NA	MH-5

TABLE 3
2007-2008 GROUNDWATER ANALYTICAL RESULTS
AND AVERAGES
INDIAN POINT ENGERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLING QUARTER[2]	SAMPLE ID	SAMPLE ZONE CENTER. Depth Ft Below Top of Casing[3]	SAMPLE ZONE CENTER, Elevation Ft msl[3]	SAMPLE COLLECTION		ANALYSIS RESULTS					YEARLY ROLLING AVERAGES[4]					Well ID
							TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	TRITIUM (pCi/L)	Sr-90 (pCi/L)	Cs-137 (pCi/L)	Co-60 (pCi/L)	Ni-63 (pCi/L)	
					Date	Time	Result	Result	Result	Result	Result	Average	Average	Average	Average	Average	
MII-5[15]	3	002			8/10/2007	15:15	1.17E+03	3.17E-02	-5.40E-01	-8.50E-01	NA						
	4	003			10/26/2007	13:30	1.62E+03	1.60E-01	2.15E-01	-6.20E-01	NA						
	1	004			1/16/2008	12:30	9.28E102	4.62E-01	5.23E-01	5.97E-01	NA						
B-1[15]	2	001	NA	NA	6/29/2007	12:35	7.93E+02	-3.83E-01	0.00E+00	-9.13E-01	NA	8.05E+02	ND	1.68E+01	ND	NA	B-1
	3	002			8/14/2007	11:30	1.10E+03	1.29E-02	0.00E+00	9.94E-01	NA						
	4	003			10/22/2007	14:49	1.10E+03	-1.56E-01	1.68E+01	1.33E+00	NA						
	1	004			1/22/2008	13:08	2.27E102	1.29E-01	3.13E-01	-9.46E-02	NA						
B-6[15]	2	001	NA	NA	7/5/2007	9:00	4.03E+02	1.01E-01	1.29E+00	1.09E+00	NA	4.38E+02	ND	ND	ND	NA	B-6
	3	002			8/14/2007	8:30	5.46E+01	-3.06E-01	5.63E-01	-2.88E+00	NA						
	4	003			10/22/2007	11:30	1.07E+02	-7.54E-02	2.39E+00	1.04E+00	NA						
	1	004			1/16/2008	16:50	4.72E102	1.05E-01	3.96E100	1.29E100	NA						

Notes:

1. For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores.
2. This sampling program began in May 2007, and thus, analytical results from only the last three quarters of 2007 (quarter 2, 3, and 4) are provided.
3. Sampling depths within sampling intervals (i.e. location of pump intake) have been located adjacent to a transmissive zone where possible.
4. Averages provided are analytical result averages of samples collected from each monitoring location within the last three sampling quarters. Monitoring locations are sampled quarterly, bi-annually, or annually. Thus some averages provided may be the average of one, two, three, or more samples.
5. Select wells such as MW-30-69 were sampled more than once during a given quarter. In instances where more than one set of results appears for the same Sample ID, the sample was analyzed more than once for the same radionuclide. In these circumstances, only the higher result is used to calculate averages.
6. NA indicates that the constituent was not analyzed.
7. ND indicates that all of the analytical results used to calculate the average were less than MDC and/or 3 times the 1 sigma uncertainty.
8. MW-32 sampling intervals from the 2nd and 3rd quarters were part of the previous Waterloo System configuration in MW-32, prior to the new configuration installed on September 10, 2007. New configuration sampling intervals are indicated by footnote 7.
9. MW-32 currently contains a Waterloo Multilevel Sampling System configured with the 2007 4th quarter and 2008 1st quarter sampling intervals. A previous installation of a Waterloo System within MW-32 (prior to the September 10, 2007 installation of the new configuration) was configured with different sampling intervals (indicated by footnote 8). New configuration sampling intervals listed in parenthesis are representatively equivalent to the old configuration sampling interval immediately preceding it. New configuration sampling intervals not listed in parenthesis have no representative equivalent within the old configuration.
10. Dot pattern denotes sampling interval is positioned within overburden. Open box indicates sampling interval is in bedrock.
11. Due to unexpectedly high levels of Cs-137 detected in the original set of the 1st Quarter 2008 samples collected from MW-50, a second set of samples were collected and analyzed. Quality control review of the original analysis showed no evidence of error in laboratory analysis or field collection procedures. However, historical data and data for the second set of samples showed results below MDC and below three times the 1 sigma uncertainty (not positive) for Cs-137 at this location, suggesting that the first set of results do not appropriately characterize activity at this location. Thus, results for the first set of MW67 samples during Quarter 1 were not used to calculate yearly averages.
12. Due to unexpectedly high levels of Cs-137 detected in the original set of the 4th Quarter 2007 samples collected from MW-51, a second set of samples were collected and analyzed. Quality control review of the original analysis showed no evidence of error in laboratory analysis or field collection procedures. However, historical data and the results of the second set of MW51 samples showed negative results for Cs-137 at this location, suggesting that the first set of results do not appropriately characterize activity at this location. Thus, results for the first set of MW51samples during Quarter 4 were not used to calculate yearly averages.
13. Due to unexpectedly high levels of Cs-137 detected in the original set of the 1st Quarter 2008 samples collected from MW-67, a second set of samples were collected and analyzed. Quality control review of the original analysis showed no evidence of error in laboratory analysis or field collection procedures. However, historical data and data for the second set of samples showed results below MDC and below three times the 1 sigma uncertainty (not positive) for Cs-137 at this location, suggesting that the first set of results do not appropriately characterize activity at this location. Thus, results for the first set of MW67 samples during Quarter 1 were not used to calculate yearly averages.
14. At monitoring well U3T1, sample IDs 019-B, 019-D, and 019-S were collected for laboratory and field QAQC (B=Blind, D=Duplicate, S-Spike). The greater value of duplicates or samples was used to calculate rolling averages. Blind and Spikes were n
15. These locations are storm drains.

Averages

TABLE 4
2008 1st QUARTER
GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS																				Well ID
						TRITIUM (pCi/L)				Sr-90 (pCi/L)				Cs-137 (pCi/L)				Co-60 (pCi/L)				Ni-63 (pCi/L)				
				Date	Time	Result	Std. Dev.	MDC	L.L.[3]	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	
MW-30-69	017	69.3	6.4	2/4/2008	13:00	1.87E+05	5.51E+03	3.95E+02	3.08E+05	1.57E-01	6.98E-01	8.57E-01	2.00E+00	1.26E+00	3.05E+00	3.56E+00	positive	-6.00E-01	3.63E+00	3.28E+00	positive	NA[4]	NA	NA	positive	MW-30-69
MW-30-84	008	83.8	-8.1	2/4/2008	14:16	4.34E+03	2.61E+02	1.32E+02	1.09E+04	-1.08E-01	4.55E-01	7.47E-01	1.19E+00	-1.00E+00	2.55E+00	2.73E+00	positive	-4.32E-01	2.97E+00	2.79E+00	positive	NA	NA	NA	positive	MW-30-84
MW-31-49	07	48.8	26.8	1/16/2008	10:31	3.97E+02	1.94E+02	1.77E+02	1.46E+04	-9.14E-02	6.86E-01	8.97E-01	2.00E+00	-1.17E+00	4.74E+00	5.07E+00	1.77E+02	-9.76E-01	4.41E+00	4.65E+00	positive	NA	NA	NA	positive	MW-31-49
MW-31-63	007	63.3	12.3	1/16/2008	11:32	1.24E+04	7.35E+02	1.80E+02	5.96E+04	-6.88E-02	5.34E-01	7.44E-01	2.00E+00	-2.49E-01	4.04E+00	4.40E+00	positive	-9.08E-01	4.19E+00	4.32E+00	positive	NA	NA	NA	positive	MW-31-63
MW-31-85	002	84.8	-9.2	1/16/2008	11:26	1.31E+03	2.81E+02	1.84E+02	6.42E+03	6.97E-01	7.67E-01	7.79E-01	2.00E+00	2.68E+00	4.05E+00	4.83E+00	positive	1.90E+00	3.80E+00	4.62E+00	positive	NA	NA	NA	positive	MW-31-85
MW-32-59[5]	005	58.8	18.3	1/18/2008	13:25	1.87E+04	9.11E+02	1.86E+02	3.29E+04	4.67E-01	6.96E-01	7.57E-01	2.00E+00	9.98E-01	4.25E+00	4.79E+00	positive	1.99E+00	3.81E+00	4.65E+00	positive	NA	NA	NA	positive	MW-32-59
MW-32-85[5]	005	85.3	18.3	1/18/2008	14:50	1.07E+04	6.90E+02	1.83E+02	1.58E+04	-3.03E-01	4.38E-01	7.35E-01	2.00E+00	3.57E-01	2.64E+00	2.67E+00	positive	-5.37E-01	1.97E+00	2.13E+00	positive	NA	NA	NA	positive	MW-32-85
MW-32-131[5]	005	130.8	-53.7	1/18/2008	11:23	5.04E+02	2.07E+02	1.79E+02	6.76E+02	5.14E-01	7.79E-01	8.52E-01	2.00E+00	8.47E-01	2.19E+00	2.21E+00	positive	-8.40E-02	1.98E+00	2.18E+00	positive	NA	NA	NA	positive	MW-32-131
MW-32-149[5]	005	149.3	-72.2	1/18/2008	11:18	1.15E+03	2.69E+02	1.85E+02	2.66E+03	3.04E-01	8.25E-01	9.53E-01	2.00E+00	2.94E+00	4.29E+00	3.08E+00	positive	-8.74E-01	2.82E+00	2.93E+00	positive	NA	NA	NA	positive	MW-32-149
MW-32-173[5]	002	172.8	-95.7	1/18/2008	11:05	3.40E+03	4.07E+02	1.82E+02	1.18E+04	1.13E-01	6.02E-01	7.63E-01	2.00E+00	-3.84E-01	2.00E+00	2.18E+00	positive	-6.14E-01	2.09E+00	2.25E+00	positive	NA	NA	NA	positive	MW-32-173
MW-32-190[5]	005	190.3	-113.7	1/18/2008	11:35	8.89E+03	6.32E+02	1.83E+02	9.26E+03	4.28E-01	7.73E-01	8.69E-01	2.00E+00	6.57E-01	1.71E+00	2.02E+00	positive	5.18E-01	1.65E+00	1.96E+00	positive	NA	NA	NA	positive	MW-32-190
MW-36-24[6]	010	17.0	-5.2	1/23/2008	14:18	2.16E+03	2.36E+02	1.70E+02	5.72E+02	1.03E-01	3.12E-01	3.76E-01	2.00E+00	2.92E-02	2.39E+00	2.67E+00	positive	-4.84E-01	2.37E+00	2.57E+00	positive	NA	NA	NA	positive	MW-36-24
MW-36-52	009	50.0	-38.2	1/23/2008	14:13	1.13E+04	4.47E+02	1.71E+02	2.26E+04	4.85E+00	9.59E-01	4.24E-01	4.88E+00	-2.89E-01	2.01E+00	2.25E+00	positive	4.08E-01	1.86E+00	2.20E+00	positive	NA	NA	NA	positive	MW-36-52
MW-37-22	010	17.0	-2.0	1/23/2008	10:42	6.52E+03	3.54E+02	1.71E+02	6.07E+03	8.73E+00	1.27E+00	4.63E-01	3.74E+01	-2.09E+00	2.96E+00	2.86E+00	positive	2.34E-01	3.08E+00	3.49E+00	positive	NA	NA	NA	positive	MW-37-22
MW-37-32	010	29	-14	1/23/2008	11:03	6.76E+03	3.57E+02	1.70E+02	6.29E+03	1.52E+01	1.59E+00	3.65E-01	3.91E+01	1.09E+00	2.70E+00	3.16E+00	positive	-5.32E-02	2.72E+00	2.55E+00	positive	NA	NA	NA	positive	MW-37-32
MW-37-40	010	39	-24	2/1/2008	17:20	6.73E+03	3.17E+02	1.33E+02	1.19E+04	9.48E-01	8.54E-01	8.45E-01	1.36E+01	3.09E-01	2.63E+00	2.95E+00	positive	-3.70E-01	2.75E+00	2.94E+00	positive	-4.35E-00	1.46E+01	1.76E-01	positive	MW-37-40
MW-37-57	010	55	-40	2/1/2008	16:31	6.63E+03	3.14E+02	1.33E+02	1.16E+04	2.89E+01	3.20E+00	9.62E-01	5.02E+01	-9.11E-01	3.72E+00	3.68E+00	positive	-2.93E-01	3.12E+00	3.45E+00	positive	8.47E-01	1.46E+01	1.71E-01	positive	MW-37-57
MW-39-67	003	67.0	13.0	1/17/2008	14:35	3.57E+02	1.95E+02	1.83E+02	7.98E+02	3.52E+00	1.29E+00	8.53E-01	7.54E+00	-1.28E-01	3.17E+00	3.57E+00	positive	1.76E+00	3.63E+00	4.25E+00	positive	NA	NA	NA	positive	MW-39-67
MW-39-84	003	83.5	-3.5	1/17/2008	13:25	1.43E+02	1.70E+02	1.84E+02	8.43E+02	1.78E+00	9.47E-01	7.24E-01	2.52E+00	-2.74E+00	2.99E+00	2.86E+00	positive	8.36E-01	2.94E+00	3.50E+00	positive	NA	NA	NA	positive	MW-39-84
MW-39-102	003	101.5	-21.5	1/17/2008	13:32	1.54E+02	1.67E+02	1.79E+02	1.13E+03	9.88E-01	8.36E-01	7.97E-01	2.64E+00	7.42E-01	2.37E+00	2.83E+00	positive	7.91E-01	3.45E+00	2.98E+00	positive	NA	NA	NA	positive	MW-39-102
MW-39-124	003	124.0	-44.0	1/17/2008	15:40	1.67E+02	1.64E+02	1.73E+02	4.53E+02	1.48E+00	9.71E-01	8.60E-01	2.00E+00	6.55E-01	2.61E+00	3.00E+00	positive	9.85E-01	2.03E+00	2.55E+00	positive	NA	NA	NA	positive	MW-39-124
MW-39-183	003	182.5	-102.5	1/17/2008	11:55	4.65E+01	1.56E+02	1.82E+02	4.94E+02	8.29E-01	6.17E-01	5.82E-01	2.00E+00	-3.72E-01	3.51E+00	3.92E+00	positive	0.00E+00	2.03E+00	2.20E+00	positive	NA	NA	NA	positive	MW-39-183
MW-39-195	003	195.0	-115.0	1/17/2008	17:28	9.63E+01	1.64E+02	1.84E+02	4.55E+02	8.97E-01	8.51E-01	8.38E-01	2.60E+00	7.47E-01	4.08E+00	4.05E+00	positive	8.15E-01	3.42E+00	4.01E+00	positive	NA	NA	NA	positive	MW-39-195
MW-40-27	003	26.7	46.5	1/7/2008	16:28	1.44E+02	1.70E+02	1.82E+02	1.00E+03	-4.39E-01	4.49E-01	7.84E-01	2.00E+00	-4.17E-01	1.74E+00	1.87E+00	positive	6.09E-01	1.70E+00	1.99E+00	positive	NA	NA	NA	positive	MW-40-27
MW-40-46	004	46.2	27.0	1/7/2008	14:42	-1.96E+01	1.45E+02	1.80E+02	1.00E+03	8.04E-01	8.55E-01	8.75E-01	2.00E+00	-1.21E+00	2.84E+00	3.00E+00	positive	1.16E+00	2.58E+00	2.82E+00	positive	NA	NA	NA	positive	MW-40-46
MW-40-81	004	80.7	-7.5	1/7/2008	14:35	1.09E+02	1.64E+02	1.81E+02	1.00E+03	2.87E-01	7.05E-01	8.26E-01	2.00E+00	-7.49E-01	2.51E+00	2.38E+00	positive	-2.66E-01	1.77E+00	1.95E+00	positive	NA	NA	NA	positive	MW-40-81
MW-40-100	004	100.2	-27.0	1/7/2008	11:55	1.98E+01	1.52E+02	1.81E+02	1.00E+03	-7.69E-02	5.85E-01	8.00E-01	2.00E+00	3.13E-01	2.27E+00	2.60E+00	positive	8.84E-02	2.75E+00	2.86E+00	positive	NA	NA	NA	positive	MW-40-100
MW-40-127	004	127.2	-54.0	1/7/2008	12:30	9.75E+00	1.48E+02	1.79E+02	1.00E+03	5.17E-01	6.83E-01	7.23E-01	2.00E+00	6.45E-01	2.42E+00	2.77E+00	positive	3.24E-01	2.28E+00	2.59E+00	positive	NA	NA	NA	positive	MW-40-127
MW-40-162	004	161.7	-88.5	1/7/2008	13:10	4.96E+01	1.56E+02	1.82E+02	1.00E+03	7.93E-02	3.63E-01	4.48E-01	2.00E+00	4.17E-01	2.52E+00	2.87E+00	positive	3.63E-01	2.40E+00	2.72E+00	positive	NA	NA	NA	positive	MW-40-162
MW-41-40	010	36.0	18.9	1/24/2008	16:28	2.15E+02	1.80E+02	1.93E+02	4.29E+03	3.05E+00	1.07E+00	7.54E-01	1.20E+01	2.67E+00	2.55E+00	2.21E+00	positive	-5.18E-01	2.00E+00	2.16E+00	positive	NA	NA	NA	positive	MW-41-40
MW-41-63	009	61.0	-6.1	1/25/2008	10:05	3.03E+02	2.79E+02	2.93E+02	1.10E+03	3.76E+00	1.13E+00	8.22E-01	1.06E+01	0.00E+00	3.33E+00	1.89E+00	positive	5.24E-02	1.64E+00	1.88E+00	positive	NA	NA	NA	positive	MW-41-63
MW-42-49	008	41.0	28.7	1/21/2008	16:11	1.32E+03	5.25E+02	4.15E+02	3.45E+03	3.84E+01	3.18E+00	9.11E-01	9.71E+01	3.88E+04	2.93E+03	2.02E+01	5.02E+04	0.00E+00	4.13E+00	5.42E+00	3.18E+01	5.01E+02	5.01E+01	2.68E-01	1.77E+03	MW-42-49
MW-42-78	007	74.0	-4.3	1/21/2008	15:33	3.46E+02	1.89E+02	1.96E+02	7.96E+02	-2.51E-01	6.81E-01	9.32E-01	2.00E+00	1.08E+02	1.52E+01	3.35E+00	2.75E+02	1.71E-01	3.33E+00	3.61E+00	positive	9.73E+00	2.42E+01	2.75E-01	positive	MW-42-78
MW-43-28	009	23.0	25.8	1/25/2008	11:11	3.06E+02	2.82E+02	2.96E+02	5.56E+02	1.46E-01	6.06E-01	7.38E-01	2.14E+00	1.88E+00	2.16E+00	2.66E+00	positive	1.46E+00	2.51E+00	3.03E+00	positive	8.44E+00	1.76E+01	1.99E-01	positive	MW-43-28
MW-43-62	009	54.0	-5.2	1/25/2008	10:57	1.23E+02	1.74E+02	1.93E+02	1.00E+03	1.00E+00	6.47E-01	5.52E-01	1.71E+00	4.31E-01	2.42E+00	2.39E+00	positive	-1.11E+00	2.07E+00	2.10E+00	positive	3.76E+00	1.67E+01	1.91E-01	positive	MW-43-62
MW-44-66	008	63.0	30.5	1/24/2008	12:55	2.91E+02	2.00E+02	2.12E+02	7.99E+02	2.85E-01	4.53E-01	4.99E-01	2.00E+00	1.73E+01	4.35E+00	2.31E+00	positive	1.40E+00	3.17E+00	2.43E+00	positive	NA	NA	NA	positive	MW-44-66
MW-44-102	007	80.0	13.5	1/24/2008	13:05	4.17E+02	2.94E+02	2.96E+02	6.24E+02	2.06E-01	5.16E-01	6.04E-01	2.00E+00	1.18E+01	4.64E+00	3.19E+00	positive	-4.44E-03	2.85E+00	3.11E+00	positive	NA	NA	NA	positive	MW-44-102
MW-45-42	011	37.0	16.6	1/25/2008	12:15	1.44E+03	3.90E+02	2.96E+02	3.80E+03	2.08E-01	5.15E-01	6.03E-01	2.00E+00	1.60E+00	2.43E+00	2.88E+00	positive	5.96E-01	2.31E+00	2.66E+00	positive	NA	NA	NA	positive	MW-45-42
MW-45-61	011	58.0	-4.4	1/25/2008	11:55	2.66E+03	4.80E+02	2.96E+02	3.41E+03	4.26E-01	5.76E-01	6.21E-01	2.00E+00	2.42E+00	3.60E+00	2.52E+00	positive	-2.05E-01	2.88E+00	3.19E+00	positive	NA	NA	NA	positive	MW-45-61
MW-46	011	10.5	7.6	1/22/2008	12:19	5.49E+02	1.74E+02	1.70E+02	3.84E+03	5.30E-01	7.71E-01	8.47E-01	2.00E+00	-3.99E-01	2.64E+00	2.84E+00	positive	1.73E+00	2.61E+00	3.31E+00	positive	NA	NA	NA	positive	MW-46
MW-49-26	011	20.0	-5.3	1/28/2008	16:28	4.21E+03	5.76E+02	2.98E+02	1.45E+04	2.29E+01	2.40E+00	8.52E-01	2.70E+01	-1.19E+00	1.95E+00	2.07E+00	positive	4.31E-01	1.97E+00	2.29E+00	positive	5.16E+00	1.53E+01	1.75E-01	positive	MW-49-26
MW-49-42	011	37.0	-22.3	1/28/2008	15:49	2.81E+03	4.92E+02	2.98E+02	8.74E+03	2.94E+01	2.57E+00	5.58E-01	4.64E+01	8.68E-01	2.10E+00	2.43E+00	positive	8.96E-01	2.13E+00	2.52E+00	positive	5.79E+00	1.73E+01	1.97E-01	positive	MW-49-42
MW-49-65	011	61.0	-16.4	1/28/2008	16:52	1.85E+03	1.22E+02	2.95E+02	5.03E+03	2.73E+01	2.79E+00	6.29E-01	3.66E+01	2.83E+00	3.72E+00	3.81E+00	positive	-1.63E+00	3.17E+00	3.09E+00	positive	1.01E+01	1.95E+01	2.20E-01	positive	MW-49-65
MW-50-42	012	27.0	-12.1	1/15/2008	11:59	9.18E+02	1.79E+02	4.16E+02	4.30E+02	2.93E+00	1.20E+00	8.57E-01	3.70E+01	1.63E+01	5.79E+00	3.39E+00	positive	-1.30E-01	3.47E+00	3.78E+00	positive	1.24E+01	2.42E+01	2.72E-01	positive	MW-50-42
	013			2/26/2008	12:19	6.13E+02	2.94E+02	2.87E+02	4.30E+02	2.40E+00	8.61E-01	7.34E-01	3.70E+01	-1.95E+00	4.80E+00	4.66E+00	positive	1.77E+00	3.90E+00	4.68E+00	positive	1.71E+01	2.40E+01	2.67E-01	positive	
MW-50-66	012	60.0	-45.1	1/15/2008	12:10	3.31E+03	7.20E+02	4.11E+02	8.37E+03	3.56E+01	3.59E+00	7.13E-01	7.18E+01	1.56E+01	5.00E+00	3.45E+00	positive	6.31E-02	2.85E+00	3.18E+00	positive	1.16E+01	2.25E+01	2.55E 01	positive	MW-50-66
	013			2/26/2008	13:46	3.74E+03	7.96E+02	5.31E+02	8.37E+03	3.56E+01	2.36E+00	7.40E-01	7.18E+01	7.67E-01	2.69E+00	3.18E+00	positive	2.54E-01	2.54E+00	2.96E+00	positive	4.87E+00	1.86E+01	2.12E 01	positive	
MW-51-40	005	39.7	28.0	1/8/2008	10:47	5.86E+01	1.56E+02	1.79E+02	1.00E+03	1.57E-01	6.77E-01	8.32E-01	2.00E+00	1.83E-02	2.66E+00	2.93E+00	positive	7.71E-01	2.75E+00	2.87E+00	positive	NA	NA	NA	positive	MW-51-40
MW-51-79	005	78.7	-11.0	1/8/2008	10:08	9.26E+01	1.59E+02	1.79E+02	1.00E+03	-4.64E-01	7.01E-01	9.74E-01	2.00E+00	-7.91E-01	2.22E+00	2.42E+00	positive	2.58E-01	2.37E+00	2.70E+00	positive	NA	NA	NA	positive	MW-51-79
MW-51-104	005	103.7	-36.0	1/8/2008	12:15	-4.84E+00	1.45E+02	1.78E+02	1.00E+03	-6.19E-02	7.22E-01	9.34E-01	2.00E+00	-9.37E-01	2.09E+00	2.26E+00	positive	-3.84E-01	2.54E+00	2.50E+00	positive	NA	NA	NA	positive	MW-51-104
MW-51-135	005	135.2	-67.5	1/8/2008	13:20	4.91E+01	1.55E+02	1.80E+02	1.00E+03	3.47E-02	7.04E-01	8.79E-01	2.00E+00	6.30E-02	1.88E+00	2.09E+00	positive	1.43E-02	1.71E+00	1.90E+00	positive	NA	NA	NA	positive	MW-51-135
MW-51-163	005	162.7	-95.0	1/8/2008	13:57	-1.99E+01	1.47E+02	1.82E+02	1.00E+03	4.40E-01	8.22E-01	9.29E-01	2.00E+00	-1.74E+00	2.66E+00	2.46E+00	positive	8.69E-02	2.15E+00	2.44E+00	positive	NA	NA	NA	positive	MW-51-163
MW-51-189	005	189.2	-121.5	1/8/2008	13:10	-4.82E+00	1.44E+02	1.77E+02	1.00E+03	-3.17E-02	7.01E-01	8.92E-01	2.00E+00	1.35E+00	2.13E+00	2.49E+00	positive	1.42E+00	1.98E+00	2.41E+00	positive	NA	NA	NA	positive	MW-51-189
MW-53-82	006	75.0	-4.7	1/21/2008	12:52	9.42E+02	1.86E+02	1.71E+02	7.04E+03	2.19E-01	4.28E-01	4.87E-01	7.96E+00	0.00E+00	5.42E+00	3.23E+00	positive	-1.36E+00	2.84E+00	2.84E+00	positive	3.84E+00	1.85E+01	2.11E-01	positive	MW-53-82
MW-53-120	006	105.0	-34.7	1/21/2008	10:43	7.48E+03	3.48E+02	1.72E+02	1.67E+04	3.12E+01	2.40E+00	6.46E-01	7.39E+01	1.38E+00	3.02E+00	3.18E+00	1.59E+01	1.14E-01	3.30E+00	3.71E+00	positive	1.71E+01	1.85E+01	2.02E-01	3.46E+01	MW-53-120
MW-54-37	004	36.5	-23.4	1/15/2008	13:18	1.07E+03	4.97E+02	4.18E+02	1.82E+03	5.79E+00	1.47E+00	7.26E-01	1.60E+01	7.48E-02	2.81E+00	3.11E+00	positive	1.03E+00	2.79E+00	3.00E+00	positive	-1.88E-01	2.06E+01	2.43E-01	positive	MW-54-37
MW-54-58	004	57.5	-44.4	1/15/2008	13:45	6.47E+02	4.40E+02	4.18E+02	1.34E+03	2.32E+00	1.09E+00	8.13E-01	3.98E+00	2.16E+00	4.59E+00	3.18E+00	positive	-7.34E-01	3.05E+00	3.27E+00	positive	4.41E+00	2.34E+01	2.71E-01	positive	MW-54-58
MW-54-123	004	123.0	-109.9	1/15/2008	10:52	5.33E+02	4.23E+02	4.18E+02	1.85E+03	9.56E+00	1.92E+00	7.51E-01	3.13E+01	8.25E-01	3.48E+00	3.94E+00	8.42E+00	4.41E-01	3.00E+00	3.42E+00	positive	6.86E+00	2.25E+01	2.58E-01	positive	MW-54-123
MW-54-144	004	144.0	-130.9	1/15/2008	11:22	1.40E+03	5.34E+02	4.16E+02	3.18E+03	1.53E+01	2.34E+00	8.48E-01	3.41E+01	3.67E+00	5.04E+00	4.39E+00	positive	4.86E-02	3.96E+00	4.34E+00	positive	9.81E+00	2.24E+01	2.54E-01	positive	MW-54-144
MW-54-173	004	172.5	-159.4	1/15/2008	11:15	1.84E+03	5.84E+02	4.16E+02	3.93E+03	1.41E+01	1.80E+00	9.29E-01	3.35E+01	-3.68E-01	2.81E+00	3.08E+00	positive	5.21E-01	3.00E+00	3.49E+00	positive	4.79E+00	2.30E+01	2.65E-01	positive	MW-54-173
MW-54-190	004	190.0	-176.9	1/15/2008	11:37	2.24E+03	6.26E+02	4.16E+02	4.17E+03	1.93E+01	2.54E+00	8.15E-01	3.86E+01	6.45E-01	2.64E+00	3.11E+00	positive	-3.88E-01	2.28E+00	2.50E+00	positive	9.23E+00	2.42E+01	2.75E-01	positive	MW-54-190
MW-55-24	005	16.0	2.3	1/28/2008	12:57	1.14E+03	3.65E+02	2.96E+02	5.33E+03	2.26E+01	2.46E+00	9.24E-01	5.23E+01	3.33E+00	3.26E+00	2.50E+00	positive	1.04E+00	1.55E+00	2.51E+00	positive	1.44E+01	1.82E+01	2.00E-01	positive	MW-55-24
MW-55-35	005	32.0	-13.8	1/28/2008	11:16	2.33E+03	1.59E+02	2.97E+02	7.91E+03	2.61E+01	2.60E+00	5.21E-01	6.54E+01	-5.28E-01	2.12E+00	2.26E+00	positive	-6.90E-01	2.19E+00	2.32E+00	positive	1.12E+01	1.76E+01	1.96E-01	positive	MW-55-35
MW-55-54	005	47.0	-28.8	1/28/2008	11:42	7.48E+03	7.35E+02	2.97E+02	2.04E+04	2.28E+01	2.40E+00	5.39E-01	4.61E+01	-8.47E-01	2.16E+00	2.30E+00	positive	-1.29E+00	2.81E+00	2.20E+00	positive	1.09E+01	1.86E+01	2.09E-01	positive	MW-55-54
MW-56-53	004	52.0	18.3	1/31/2008	12:30	2.63E+02	1.27E+02	1.31E+02	5.05E+02	5.70E-01	8.81E-01	9.77E-01	2.00E+00	3.38E-01	3.69E+00	3.87E+00	positive	5.97E-01	3.43E+00	3.99E+00	positive	1.74E+00	1.55E+01	1.80E 01	positive	MW-56-53
MW-56-83	006	74.0	-3.7	1/31/2008	9:30	1.94E+03	1.97E+02	1.34E+02	3.34E+03	3.56E+00	1.34E+00	9.49E-01	4.30E+00	-8.03E-01	3.69E+00	3.23E+00	positive	1.60E+00	2.78E+00	3.51E+00	positive	6.57E-01	1.59E+01	1.85E 01	positive	MW-56-83

TABLE 4
2008 1st QUARTER
GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS																		Well ID
						TRITIUM (pCi/L)				Sr-90 (pCi/L)				Cs-137 (pCi/L)				Co-60 (pCi/L)				Ni-63 (pCi/L)				
				Date	Time	Result	Std. Dev.	MDC	L.L.[3]	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	Result	Std. Dev.	MDC	L.L.	
MW-58-26	005	20.0	-5.4	1/22/2008	13:20	2.95E+02	1.62E+02	1.70E+02	1.45E+03	-1.43E-01	4.65E-01	6.60E-01	2.06E+00	9.19E-01	2.31E+00	2.67E+00	positive	-5.41E-02	2.57E+00	2.61E+00	positive	NA	NA	NA	positive	MW-58-26
MW-58-65	005	54.0	-39.4	1/22/2008	12:00	3.13E+02	1.62E+02	1.69E+02	6.57E+02	1.21E-01	5.85E-01	7.22E-01	2.00E+00	5.54E-01	3.93E+00	3.92E+00	positive	-1.23E-01	3.29E+00	3.05E+00	positive	NA	NA	NA	positive	MW-58-65
MW-60-35	004	34.9	-22.4	1/14/2008	17:05	7.78E+01	1.58E+02	1.78E+02	2.00E+03	5.05E-01	8.10E-01	8.98E-01	2.00E+00	1.11E+00	3.21E+00	3.79E+00	positive	-9.16E-01	3.36E+00	3.54E+00	positive	NA	NA	NA	positive	MW-60-35
MW-60-53	004	53.4	-40.9	1/14/2008	15:40	5.35E+01	1.55E+02	1.78E+02	2.00E+03	-1.69E-01	5.28E-01	7.59E-01	2.00E+00	-1.10E+00	2.78E+00	2.88E+00	positive	-1.89E+00	2.94E+00	2.76E+00	positive	NA	NA	NA	positive	MW-60-53
MW-60-72	004	72.4	-59.9	1/14/2008	14:12	1.36E+02	1.65E+02	1.78E+02	2.00E+03	1.58E-01	5.93E-01	7.23E-01	2.00E+00	5.42E-03	3.33E+00	3.56E+00	positive	8.47E-01	2.97E+00	3.54E+00	positive	NA	NA	NA	positive	MW-60-72
MW-60-135	004	134.9	-122.4	1/14/2008	14:19	3.79E+02	1.89E+02	1.74E+02	2.00E+03	-1.70E-01	6.17E-01	8.52E-01	2.00E+00	-1.33E+00	3.14E+00	3.25E+00	positive	4.22E-01	3.17E+00	3.59E+00	positive	NA	NA	NA	positive	MW-60-135
MW-60-154	004	154.4	-141.9	1/14/2008	12:35	5.59E+02	2.13E+02	1.79E+02	2.00E+03	1.10E+00	1.17E+00	1.24E 00	2.00E+00	1.59E+00	3.84E+00	4.46E+00	positive	2.92E-01	4.35E+00	4.82E+00	positive	NA	NA	NA	positive	MW-60-154
MW-60-176	004	175.9	-163.4	1/14/2008	12:25	6.68E+02	2.25E+02	1.83E+02	2.00E+03	-7.68E-02	7.89E-01	1.04E 00	2.00E+00	2.22E-01	3.99E+00	4.52E+00	positive	5.49E-01	3.54E+00	4.09E+00	positive	NA	NA	NA	positive	MW-60-176
MW-62-18	004	13.5	1.2	1/31/2008	15:15	3.50E+02	1.34E+02	1.34E+02	2.00E+03	4.95E-01	7.55E-01	8.27E-01	2.00E+00	1.18E+00	4.23E+00	4.46E+00	positive	5.24E-01	3.38E+00	3.96E+00	positive	NA	NA	NA	positive	MW-62-18
MW-62-37	004	34.5	-19.8	1/10/2008	13:55	3.97E+02	1.68E+02	1.71E+02	2.00E+03	1.34E-01	6.05E-01	7.24E-01	2.00E+00	8.35E-01	4.43E+00	4.62E+00	positive	-2.10E-01	3.87E+00	4.19E+00	positive	NA	NA	NA	positive	MW-62-37
MW-62-53	003	53.1	-40.3	1/10/2008	15:37	3.48E+02	1.67E+02	1.71E+02	2.00E+03	4.43E-02	6.72E-01	8.15E-01	2.00E+00	-7.91E-01	2.75E+00	2.93E+00	positive	7.68E-01	2.88E+00	3.43E+00	positive	NA	NA	NA	positive	MW-62-53
MW-62-71	004	71.1	-58.6	1/10/2008	14:04	3.53E+02	1.89E+02	1.94E+02	2.00E+03	3.78E-01	5.85E-01	9.46E-01	2.00E+00	-7.82E-01	2.51E+00	2.72E+00	positive	3.78E-02	2.22E+00	2.55E+00	positive	NA	NA	NA	positive	MW-62-71
MW-62-92	004	91.6	-78.8	1/10/2008	11:09	3.94E+02	1.92E+02	1.94E+02	2.00E+03	1.38E-01	6.59E-01	7.90E-01	2.00E+00	3.75E-01	2.94E+00	3.59E+00	positive	9.37E-01	3.47E+00	3.62E+00	positive	NA	NA	NA	positive	MW-62-92
MW-62-138	004	138.1	-125.3	1/10/2008	10:05	7.69E+02	1.82E+02	1.74E+02	2.00E+03	7.34E-01	4.32E-01	3.52E-01	2.00E+00	4.30E-01	3.36E+00	3.88E+00	positive	1.05E-01	3.47E+00	3.91E+00	positive	NA	NA	NA	positive	MW-62-138
MW-62-182	004	182.1	-169.3	1/10/2008	11:15	4.70E+02	1.68E+02	1.71E+02	2.00E+03	8.15E-02	5.13E-01	6.33E-01	2.00E+00	-1.17E-01	2.96E+00	2.99E+00	positive	9.22E-01	1.31E+00	2.33E+00	positive	NA	NA	NA	positive	MW-62-182
MW-63-18	004	14.9	0.7	1/9/2008	14:55	1.23E+02	1.56E+02	1.73E+02	2.00E+03	-6.34E-02	5.55E-01	7.38E-01	2.00E+00	2.55E+00	3.29E+00	3.42E+00	positive	1.97E+00	2.94E+00	3.75E+00	positive	NA	NA	NA	positive	MW-63-18
MW-63-34	004	31.5	-17.3	1/9/2008	14:20	3.26E+02	1.65E+02	1.71E+02	2.00E+03	1.24E-01	5.57E-01	6.84E-01	2.00E+00	1.83E+00	3.63E+00	4.44E+00	positive	3.53E-01	3.90E+00	4.35E+00	positive	NA	NA	NA	positive	MW-63-34
MW-63-50	004	49.5	-37.2	1/9/2008	12:32	3.56E+02	1.67E+02	1.72E+02	2.00E+03	4.48E-01	7.41E-01	8.26E-01	2.00E+00	3.37E-01	2.66E+00	3.02E+00	positive	-1.42E+00	3.14E+00	3.20E+00	positive	NA	NA	NA	positive	MW-63-50
MW-63-93	005	93.0	-80.7	1/9/2008	12:46	2.15E+02	1.59E+02	1.71E+02	2.00E+03	1.86E-01	7.08E-01	8.45E-01	2.00E+00	7.74E-01	3.06E+00	3.56E+00	positive	1.05E-01	3.20E+00	3.58E+00	positive	NA	NA	NA	positive	MW-63-93
MW-63-112	004	111.5	-99.2	1/9/2008	10:20	4.69E+02	1.73E+02	1.72E+02	2.00E+03	2.19E-01	5.07E-01	5.92E-01	2.00E+00	3.90E-01	3.30E+00	3.54E+00	positive	2.87E-01	3.56E+00	3.75E+00	positive	NA	NA	NA	positive	MW-63-112
MW-63-121	004	121.0	-108.7	1/9/2008	10:42	5.40E+02	1.74E+02	1.71E+02	2.00E+03	2.06E-02	4.70E-01	6.09E-01	2.00E+00	2.54E+00	3.38E+00	4.15E+00	positive	1.09E+00	3.41E+00	4.02E+00	positive	NA	NA	NA	positive	MW-63-121
MW-63-163	004	162.5	-150.2	1/9/2008	10:51	5.68E+02	1.77E+02	1.72E+02	2.00E+03	3.19E-03	5.55E-01	7.17E-01	2.00E+00	-4.52E-01	3.50E+00	3.89E+00	positive	2.23E+00	6.11E+00	4.38E+00	positive	NA	NA	NA	positive	MW-63-163
MW-63-174	004	174.0	-161.7	1/9/2008	10:45	6.23E+02	1.79E+02	1.72E+02	2.00E+03	6.16E-01	6.95E-01	7.24E-01	2.00E+00	-1.24E+00	3.14E+00	3.33E+00	positive	1.48E+00	3.03E+00	3.77E+00	positive	NA	NA	NA	positive	MW-63-174
MW-66-21	003	14.1	0	1/14/2008	11:33	8.18E+02	1.62E+02	4.16E+02	4.61E+03	1.09E+00	8.96E-01	8.19E-01	4.84E+00	1.68E+00	3.14E+00	3.77E+00	positive	2.35E+00	3.86E+00	4.26E+00	positive	-5.07E−00	2.12E+01	2.55E−01	positive	MW-66-21
MW-66-36	003	33.6	-19.5	1/14/2008	11:40	7.26E+03	1.01E+03	4.16E+02	1.81E+04	1.51E+01	2.40E+00	8.34E-01	1.74E+01	2.34E+00	3.38E+00	4.14E+00	positive	-1.08E+00	3.78E+00	3.39E+00	positive	7.19E+00	2.36E+01	2.71E−01	positive	MW-66-36
MW-67-39	003	38.3	-25.8	1/11/2008	16:44	4.35E+03	8.03E+02	4.10E+02	9.93E+03	2.59E+01	2.99E+00	7.54E-01	4.57E+01	0.00E+00	4.94E+00	6.15E+00	2.04E+01	1.77E+00	3.96E+00	4.75E+00	positive	1.53E+01	2.31E+01	2.58E 01	positive	MW-67-39
	004			2/25/2008	15:38	4.17E+03	8.28E+02	5.29E+02	9.93E+03	2.05E+01	1.77E+00	6.97E-01	4.57E+01	-1.15E+00	3.44E+00	3.73E+00	2.04E+01	1.99E+00	4.39E+00	3.98E+00	positive	-5.41E-01	2.26E+01	2.63E 01	positive	
MW-67-105	003	104.8	-92.3	1/11/2008	15:15	2.43E+03	6.42E+02	4.15E+02	4.50E+03	7.58E-01	9.98E-01	1.07E−00	2.22E+00	9.32E+00	5.13E+00	2.83E+00	positive	7.44E-01	3.60E+00	3.70E+00	positive	1.81E+01	2.42E+01	2.67E−01	positive	MW-67-105
	004			2/25/2008	13:44	2.38E+03	6.89E+02	5.30E+02	4.50E+03	1.13E+00	7.89E-01	8.12E-01	2.22E+00	-1.27E+00	3.25E+00	3.38E+00	positive	-4.79E-02	2.97E+00	3.25E+00	positive	1.24E+01	1.74E+01	1.93E−01	positive	
MW-67-173	003	172.3	-159.8	1/11/2008	13:35	6.95E+02	4.41E+02	4.11E+02	2.06E+03	2.14E-01	8.33E-01	1.01E−00	2.00E+00	5.82E+00	3.68E+00	2.90E+00	positive	-1.79E+00	2.58E+00	1.82E+00	positive	1.36E+01	2.39E+01	2.67E−01	positive	MW-67-173
	004			2/25/2008	14:00	9.51E+02	5.51E+02	5.30E+02	2.06E+03	-4.12E-01	6.06E-01	7.76E-01	2.00E+00	6.65E-01	2.82E+00	3.23E+00	positive	-3.63E-01	2.54E+00	2.70E+00	positive	-5.95E−00	2.37E+01	2.82E−01	positive	
MW-67-219	003	218.8	-206.3	1/11/2008	12:05	1.28E+03	5.18E+02	4.12E+02	2.20E+03	4.22E-01	8.67E-01	9.91E-01	2.00E+00	4.25E+00	3.98E+00	2.09E+00	positive	-1.01E+00	3.11E+00	3.18E+00	positive	9.12E+00	2.27E+01	2.58E−01	positive	MW-67-219
	004			2/25/2008	11:43	1.23E+03	5.81E+02	5.31E+02	2.20E+03	-7.61E-02	4.93E-01	6.12E-01	2.00E+00	-1.33E+00	3.03E+00	3.18E+00	positive	1.08E+00	3.15E+00	3.78E+00	positive	1.23E+01	1.81E+01	2.03E−01	positive	
MW-67-276	003	275.3	-262.8	1/11/2008	13:00	1.03E+03	4.89E+02	4.14E+02	1.79E+03	9.99E-02	9.50E-01	1.17E−00	2.00E+00	4.55E+00	3.03E+00	3.32E+00	positive	-4.84E-01	3.36E+00	3.01E+00	positive	8.92E+00	2.22E+01	2.52E−01	positive	MW-67-276
	004			2/25/2008	11:48	1.07E+03	5.64E+02	5.29E+02	1.79E+03	4.43E-01	7.06E-01	7.88E-01	2.00E+00	2.00E+00	3.45E+00	4.21E+00	positive	1.79E+00	4.11E+00	4.33E+00	positive	1.08E+01	1.89E+01	2.11E−01	positive	
MW-67-323	003	322.3	-309.8	1/11/2008	13:52	3.74E+02	1.91E+02	1.96E+02	1.60E+03	3.98E-01	8.15E-01	9.31E-01	2.00E+00	3.85E+00	4.10E+00	3.69E+00	positive	1.69E+00	3.33E+00	3.76E+00	positive	1.54E+00	2.21E+01	2.59E−01	positive	MW-67-323
	004			2/25/2008	11:59	3.72E+02	2.75E+02	2.87E+02	1.60E+03	3.61E-01	7.50E-01	8.62E-01	2.00E+00	-2.08E-01	2.97E+00	3.32E+00	positive	1.29E+00	3.50E+00	4.18E+00	positive	6.85E+00	1.88E+01	2.13E−01	positive	
MW-67-340	003	339.8	-327.3	1/11/2008	13:15	4.92E+02	1.95E+02	1.95E+02	7.59E+02	1.07E-01	8.25E-01	1.03E−00	2.00E+00	5.82E+00	3.74E+00	2.33E+00	positive	3.88E-02	2.12E+00	2.37E+00	positive	-8.32E−00	2.24E+01	2.62E−01	positive	MW-67-340
	004			2/25/2008	12:00	4.78E+02	2.82E+02	2.86E+02	7.59E+02	-2.17E-01	5.53E-01	6.94E-01	2.00E+00	-1.58E+00	3.99E+00	3.94E+00	positive	-7.62E-01	3.19E+00	3.43E+00	positive	5.72E+00	1.83E+01	2.09E−01	positive	
MW-111	026	16.5	2.4	1/28/2008	11:38	4.77E+04	1.77E+03	2.97E+02	2.18E+05	2.56E+00	9.45E-01	6.18E-01	1.95E+00	2.60E+00	4.05E+00	3.90E+00	positive	-6.32E-01	2.55E+00	2.63E+00	positive	1.33E+01	1.58E+01	1.73E−01	positive	MW-111
U3-4D	015	25.6	-10.8	2/1/2008	12:40	3.75E+02	1.36E+02	1.35E+02	NA	-1.78E-01	7.83E-01	9.77E-01	NA	2.83E-01	2.69E+00	3.10E+00	NA	1.41E+00	3.26E+00	3.97E+00	NA	NA	NA	NA	NA	U3-4D
U3-T1	019	5.7	2.8	1/22/2008	16:11	7.29E+02	3.27E+02	2.96E+02	1.02E+03	6.26E-01	7.26E-01	7.69E-01	2.00E+00	1.21E+00	3.14E+00	3.76E+00	positive	-1.79E-01	3.56E+00	3.93E+00	positive	8.87E+00	1.85E+01	2.09E−01	positive	U3-T1
	019-B[8]			1/22/2008	16:11	2.54E+01	1.68E+02	1.94E+02	1.02E+03	1.62E-01	6.14E-01	7.38E-01	2.00E+00	7.29E-01	2.57E+00	3.04E+00	positive	-2.53E-01	3.14E+00	3.46E+00	positive	-1.42E−00	1.82E+01	2.15E−01	positive	
	019-D[8]			1/22/2008	16:11	6.05E+02	3.15E+02	2.97E+02	1.02E+03	6.43E-01	7.41E-01	7.79E-01	2.00E+00	1.11E+00	2.75E+00	3.21E+00	positive	2.38E-01	2.51E+00	2.75E+00	positive	1.14E+01	1.65E+01	1.84E−01	positive	
	019-S[8]			1/22/2008	16:11	2.38E+03	4.62E+02	2.97E+02	1.02E+03	1.07E+01	1.68E+00	6.89E-01	2.00E+00	1.73E+02	2.04E+01	3.50E+00	positive	-2.33E-01	3.02E+00	3.34E+00	positive	2.61E+02	3.20E+01	2.00E−01	positive	
U3-T2	024	5.7	2.6	1/22/2008	16:16	1.33E+03	3.83E+02	2.97E+02	2.58E+03	4.31E-01	8.54E-01	9.63E-01	2.00E+00	7.39E-01	2.97E+00	3.39E+00	positive	-1.14E+00	3.39E+00	2.86E+00	positive	2.78E+00	1.62E+01	1.89E−01	positive	U3-T2
U1-CSS	005	14.0	6.1	1/15/2008	14:54	4.95E+02	2.01E+02	1.76E+02	4.33E+03	7.73E+00	1.31E+00	6.91E-01	4.13E+01	2.85E+00	6.56E+00	3.36E+00	positive	-6.88E-02	3.33E+00	3.71E+00	positive	NA	NA	NA	positive	U1-CSS
MH-5[9]	004	NA	NA	1/16/2008	12:30	9.28E+02	2.45E+02	1.77E+02	2.80E+03	4.62E-01	8.33E-01	9.37E-01	2.00E+00	5.23E-01	2.78E+00	3.09E+00	positive	5.97E-01	2.55E+00	2.90E+00	positive	NA	NA	NA	positive	MH-5
B-1[9]	004	NA	NA	1/22/2008	13:08	2.27E+02	1.61E+02	1.71E+02	2.00E+03	1.29E-01	5.00E-01	6.12E-01	2.00E+00	3.13E-01	2.54E+00	2.83E+00	3.36E+01	-9.46E-02	2.72E+00	3.01E+00	positive	NA	NA	NA	positive	B-1
B-6[9]	004	NA	NA	1/16/2008	16:50	4.72E+02	2.04E+02	1.79E+02	8.06E+02	1.05E-01	7.05E-01	8.83E-01	2.00E+00	3.96E+00	4.41E+00	3.32E+00	positive	1.29E+00	3.15E+00	3.66E+00	positive	NA	NA	NA	positive	B-6

Notes:

1. For nested multi-level monitoring wells, snffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloo multi-level systems, snffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores.
2. Sampling depths within sampling intervals (location of pump intake) have been established at location of most transmissive zone to the extent possible.
3. LL.s (Investigation Levels) are predetermined detection limits assigned to each sampling location which, if reached or exceeded, require further investigation or action LL.s presented here are established for 2008 based on 2007 averages. Positive detections indicate that the the result is greater than MDC and greater than or equal to 3 times the 1 sigma uncertainty.
4. NA indicates that the constituent was not analyzed.
5. MW-32 currently contains a Waterloo Multilevel Sampling System configured with the sampling intervals listed here. A previous installation of a Waterloo System within MW-32 (prior to the September 10, 2007 installation of the new configuration) was configured with different sampling intervals which were present during the 2nd and 3rd sampling quarters of 2007.
6. Dot pattern denotes sampling interval is positioned within overburden soils. Open box indicates sampling interval is in bedrock.
7. Due to unexpectedly high levels of Cs-137 detected in the original set of Quarter 1 samples collected from MW50 and MW67, a second set of samples were collected and analyzed for these locations. Quality control review of the original analysis showed no evidence of error in laboratory analysis or field collection procedures. However, historical data and data for the second set of samples showed results below MDC and below three times the 1 sigma uncertainty (not positive) for Cs-137 at this location, suggesting that the first set of results do not appropriately characterize activity at these locations.
8. At monitoring well U3T1, sample IDs 019-B, 019-D, and 019-S were collected for laboratory and field QAQC (B=Blind, D=Dnplicate, S-Spike). QAQC samples were not included in calculations for rolling averages.
9. These locations are storm drains, not monitoring wells.

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-30-69	001	69.3	6.4	1/30/2006	15:40	2.37E+05	2.76E+04	6.26E+02	NA[3]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-30-69
	003			6/23/2006	10:50	3.92E+05	3.35E+04	6.02E+03	3.34E-02	8.24E-01	1.09E+00	2.96E+01	1.40E+01	1.14E+01	4.23E+00	9.93E+00	1.14E+01	1.02E+01	1.27E+01	1.36E+01	
	004			8/18/2006	14:45	2.20E+05	4.20E+03	1.10E+03	8.14E-01	1.40E+00	1.52E+00	-7.33E+00	1.40E+01	1.41E+01	3.91E+00	1.51E+01	1.78E+01	NA	NA	NA	
	005			11/29/2006	10:45	1.06E+05	1.86E+03	5.30E+02	2.50E+00	8.40E-01	8.10E-01	3.13E+03	3.30E+01	5.00E+00	1.20E+00	2.28E+00	2.50E+00	1.15E+01	1.26E+01	1.40E+01	
	006			1/16/2007	14:05	8.17E+04	8.73E+03	6.34E+02	-1.60E-01	1.47E+00	1.60E+00	0.00E+00	2.10E+00	2.40E+00	-4.30E-01	2.07E+00	2.50E+00	7.07E+00	1.94E+01	2.20E+01	
	007			6/12/2007	10:20	2.97E+05	8.73E+03	6.34E+02	-2.63E-01	4.19E-01	6.45E-01	3.93E-01	3.75E+00	4.09E+00	6.88E-02	4.08E+00	3.94E+00	NA	NA	NA	
	008			7/18/2007	9:55	8.21E+04	2.46E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009			7/25/2007	11:26	2.17E+05	6.51E+03	6.40E+02	1.00E-01	6.16E-01	4.13E-01	-1.13E+00	4.32E+00	3.95E+00	4.61E-01	2.81E+00	3.28E+00	NA	NA	NA	
	009			7/25/2007	11:26	2.32E+05	6.83E+03	5.81E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			8/1/2007	11:44	1.03E+05	3.09E+03	6.40E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011			8/8/2007	10:00	9.96E+04	2.99E+03	6.32E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012			8/15/2007	11:00	2.33E+05	6.99E+03	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013			8/21/2007	9:45	1.07E+05	3.21E+03	7.05E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	014			8/30/2007	11:32	9.80E+04	2.94E+03	7.03E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	015			9/19/2007	11:00	9.20E+04	2.76E+03	7.02E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	016			10/23/2007	11:48	1.32E+05	3.90E+03	4.24E+02	2.52E-01	6.16E-01	7.12E-01	2.42E+00	5.76E+00	4.45E+00	-5.09E-01	3.66E+00	3.86E+00	NA	NA	NA	
	017			2/4/2008	13:00	1.87E+05	5.51E+03	3.95E+02	1.57E-01	6.98E-01	8.57E-01	1.26E+00	3.05E+00	3.56E+00	-6.00E-01	3.63E+00	3.28E+00	NA[4]	NA	NA	
MW-30-84	001	83.8	-8.1	8/22/2006	13:15	1.25E+04	2.43E+03	1.61E+03	-1.60E-01	9.82E-01	1.13E+00	1.88E+00	1.09E+01	1.24E+01	-2.52E+00	1.00E+01	1.03E+01	NA	NA	NA	MW-30-84
	002			11/29/2006	14:30	1.01E+04	1.59E+03	1.10E+03	-9.40E-01	7.80E-01	8.70E-01	2.94E+02	1.68E+01	5.00E+00	-3.00E-01	3.90E+00	4.80E+00	4.10E+00	1.17E+01	1.30E+01	
	003			1/17/2007	9:45	7.33E103	7.50E102	5.30E102	4.80E-01	1.50E100	1.60E100	1.18E100	2.61E100	2.90E100	0.00E100	2.91E100	3.40E100	NA	NA	NA	
	004			6/12/2007	10:19	7.79E+03	9.47E+02	4.42E+02	-1.49E-01	4.44E-01	6.41E-01	-1.06E+00	2.29E+00	2.41E+00	-6.93E-01	2.38E+00	2.54E+00	-3.57E+00	1.74E+01	2.03E+01	
	005			7/18/2007	10:25	4.80E+03	7.20E+02	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			7/25/2007	13:00	5.02E+03	4.49E+02	2.43E+02	1.56E-01	3.09E-01	3.48E-01	2.83E+00	3.38E+00	2.84E+00	2.03E+00	2.91E+00	3.57E+00	NA	NA	NA	
	007			10/23/2007	12:49	4.27E+03	7.38E+02	4.03E+02	5.95E-01	5.53E-01	5.59E-01	1.56E+00	2.81E+00	3.38E+00	-1.17E+00	3.72E+00	3.27E+00	NA	NA	NA	
	008			2/4/2008	14:16	4.34E+03	2.61E+02	1.32E+02	-4.08E-01	4.55E-01	7.47E-01	-1.00E+00	2.55E+00	2.73E+00	-4.32E-01	2.97E+00	2.79E+00	NA	NA	NA	
MW-31-49	001	48.8	26.8	11/27/2006	11:45	2.98E+02	1.74E+02	1.70E+02	0.00E+00	1.29E+00	1.40E+00	NA	NA	NA	1.30E+00	3.60E+00	4.00E+00	1.42E+02	1.65E+02	1.80E+02	MW-31-49
	002			1/18/2007	9:13	1.20E103	5.70E102	5.30E102	3.00E-01	1.62E100	1.80E100	NA	NA	NA	-2.10E100	8.10E100	9.50E100	NA	NA	NA	
	003			6/12/2007	14:24	1.48E+03	5.24E+02	4.37E+02	-1.51E-01	5.49E-01	7.52E-01	1.83E-01	2.12E+00	2.35E+00	1.26E-01	2.01E+00	2.26E+00	0.00E+00	1.11E+01	1.29E+01	
	004			8/2/2007	10:23	1.19E+01	1.27E+03	5.43E+02	-5.17E-01	7.89E-01	9.55E-01	8.83E+01	1.35E+01	3.31E+00	1.80E-01	3.63E+00	4.11E+00	NA	NA	NA	
	005			9/11/2007	13:10	6.98E+03	3.27E+02	1.59E+02	-2.26E-01	4.23E-01	6.01E-01	-1.20E+00	3.04E+00	3.24E+00	0.00E+00	4.96E+00	4.75E+00	NA	NA	NA	
	006			10/24/2007	15:50	8.77E+03	9.99E+02	4.00E+02	5.14E-02	4.25E-01	5.36E-01	-6.76E-01	3.94E+00	3.57E+00	1.35E+00	3.21E+00	3.52E+00	NA	NA	NA	
	007			1/16/2008	10:31	3.97E+02	1.94E+02	1.77E+02	-9.14E-02	6.86E-01	8.97E-01	-1.17E+00	4.74E+00	5.07E+00	-9.76E-01	4.41E+00	4.65E+00	NA	NA	NA	
MW-31-63	001	63.3	12.3	11/27/2006	12:10	6.89E+03	1.44E+03	1.10E+03	5.30E-01	1.26E+00	1.40E+00	1.99E+02	9.60E+00	3.60E+00	6.80E-01	2.94E+00	3.40E+00	4.10E+01	1.17E+02	1.30E+02	MW-31-63
	002			1/18/2007	9:25	1.41E104	9.00E102	5.20E102	-6.50E-01	1.50E100	1.70E100	-4.00E-01	3.00E100	3.50E100	-4.50E-01	2.91E100	3.50E100	NA	NA	NA	
	003			6/12/2007	14:20	5.00E+03	7.85E+02	4.38E+02	4.72E-01	6.36E-01	6.78E-01	-5.01E-01	1.92E+00	2.09E+00	-8.78E-02	1.97E+00	2.20E+00	3.37E+00	1.89E+01	2.17E+01	
	004			8/2/2007	11:15	4.06E+01	2.27E+03	5.53E+02	-1.41E-01	7.84E-01	9.53E-01	1.20E+00	3.56E+00	4.18E+00	-3.09E-02	4.41E+00	4.23E+00	NA	NA	NA	
	005			9/11/2007	13:25	3.77E+04	1.13E+03	2.20E+02	-1.37E-01	4.52E-01	6.15E-01	-4.39E-01	3.51E+00	3.80E+00	-8.64E-01	3.92E+00	3.44E+00	NA	NA	NA	
	006			10/24/2007	14:55	3.58E+04	1.94E+03	4.00E+02	-1.63E-01	4.58E-01	6.34E-01	1.07E+00	5.31E+00	4.01E+00	1.01E+00	3.40E+00	4.11E+00	NA	NA	NA	
	007			1/16/2008	11:32	1.24E+04	7.35E+02	1.80E+02	-6.88E-02	5.34E-01	7.44E-01	-2.49E-01	4.04E+00	4.40E+00	-9.08E-01	4.19E+00	4.32E+00	NA	NA	NA	
MW-31-85	001	84.8	-9.2	11/27/2006	12:20	4.62E+02	1.74E+02	1.70E+02	1.50E-01	1.44E+00	1.60E+00	1.52E+02	8.40E+00	3.20E+00	2.10E-01	2.19E+00	2.50E+00	2.20E+01	9.30E+01	1.00E+02	MW-31-85
	002			1/18/2007	9:16	2.66E103	6.00E102	5.20E102	-5.90E-01	1.59E100	1.80E100	-4.90E100	8.70E100	1.00E101	-6.00E-01	8.70E100	1.00E101	8.35E100	2.11E101	2.39E101	
	003			6/12/2007	14:05	3.17E+02	1.62E+02	1.69E+02	-3.83E-01	6.62E-01	9.31E-01	3.95E-01	2.76E+00	1.91E+00	-5.71E-01	1.69E+00	1.83E+00	NA	NA	NA	
	004			8/2/2007	10:58	2.69E+03	7.11E+02	5.31E+02	-7.29E-01	6.31E-01	9.31E-01	-5.01E-02	3.29E+00	3.59E+00	-1.90E+00	3.35E+00	3.31E+00	NA	NA	NA	
	005			9/11/2007	13:20	4.32E+03	3.32E+02	1.82E+02	6.86E-01	7.48E-01	7.93E-01	-7.04E-01	3.04E+00	3.26E+00	-3.07E+00	3.68E+00	3.24E+00	NA	NA	NA	
	006			10/24/2007	14:40	5.51E+03	8.15E+02	3.98E+02	2.53E-01	4.08E-01	4.51E-01	5.68E-01	2.90E+00	3.38E+00	4.76E-01	2.75E+00	3.19E+00	NA	NA	NA	
	002			1/16/2008	11:26	1.31E+03	2.81E+02	1.84E+02	6.97E-01	7.67E-01	7.79E-01	2.68E+00	4.05E+00	4.83E+00	1.90E+00	3.80E+00	4.62E+00	NA	NA	NA	
MW-32-62[5]	001	60.0	17.1	1/19/2007	9:30	7.67E+03	7.50E+02	5.20E+02	6.30E-01	1.47E+00	1.60E+00	-8.60E-01	1.98E+00	2.30E+00	4.90E-01	2.28E+00	2.60E+00	NA	NA	NA	MW-32-62[5]
	002			6/28/2007	14:25	2.40E+04	7.37E+02	1.97E+02	-1.65E-01	5.90E-01	7.97E-01	-1.74E+00	3.51E+00	3.30E+00	-1.42E+00	3.87E+00	3.34E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-32-62[5]	003			8/13/2007	13:07	1.42E+04	6.00E+02	1.99E+02	-2.71E-01	5.58E-01	7.58E-01	1.48E+00	2.10E+00	3.22E+00	-4.66E-01	3.30E+00	3.65E+00	NA	NA	NA	
(MW-32-59)[4]	001	58.8	18.3	10/26/2007	12:07	1.11E+04	4.61E+02	1.84E+02	3.22E-01	6.43E-01	7.36E-01	-1.94E-01	3.82E+00	3.87E+00	2.45E+00	3.06E+00	4.08E+00	NA	NA	NA	(MW-32-59)[4]
	005			1/18/2008	13:25	1.87E+04	9.11E+02	1.86E+02	4.67E-01	6.96E-01	7.57E-01	9.98E-01	4.25E+00	4.79E+00	1.99E+00	3.81E+00	4.65E+00	NA	NA	NA	
MW-32-92[5]	001	90.5	-13.4	1/19/2007	9:40	1.12E+04	8.40E+02	5.30E+02	3.20E-01	1.47E+00	1.60E+00	1.57E+00	2.82E+00	3.10E+00	9.00E-01	4.20E+00	4.80E+00	NA	NA	NA	MW-32-92[5]
	002			6/28/2007	15:05	5.42E+03	3.77E+02	1.95E+02	-4.15E-01	5.10E-01	6.75E-01	-1.70E-01	2.77E+00	3.03E+00	-3.05E-01	3.19E+00	3.21E+00	NA	NA	NA	
	003			8/13/2007	10:48	5.70E+03	4.05E+02	2.01E+02	-2.45E-02	4.47E-01	5.75E-01	3.28E-01	2.81E+00	3.15E+00	9.90E-01	2.98E+00	3.53E+00	NA	NA	NA	
(MW-32-85)[4]	004	85.3	85.3	10/26/2007	11:12	1.26E+04	4.79E+02	1.79E+02	-1.17E-01	4.27E-01	6.25E-01	8.85E-01	2.97E+00	3.45E+00	-1.85E-02	3.23E+00	3.63E+00	NA	NA	NA	(MW-32-85)[4]
	005			1/18/2008	14:50	1.07E+04	6.90E+02	1.83E+02	-3.03E-01	4.38E-01	7.35E-01	3.57E-01	2.64E+00	2.67E+00	-5.37E-01	1.97E+00	2.13E+00	NA	NA	NA	
MW-32-140[5]	001	138.0	-60.9	1/19/2007	9:45	1.13E+04	8.40E+02	5.30E+02	-1.03E+00	1.47E+00	1.70E+00	-6.00E-02	2.04E+00	2.30E+00	3.00E-02	2.07E+00	2.40E+00	NA	NA	NA	MW-32-140[5]
	002			6/28/2007	12:45	3.02E+02	1.88E+02	1.97E+02	-1.39E-01	5.13E-01	5.94E-01	-1.46E+00	5.09E+00	4.92E+00	9.88E-01	3.76E+00	4.38E+00	NA	NA	NA	
	003			8/13/2007	11:15	1.29E+02	1.70E+02	1.87E+02	2.69E-01	7.33E-01	8.51E-01	-8.09E-01	4.86E+00	4.85E+00	-1.19E+00	3.29E+00	3.22E+00	NA	NA	NA	
(MW-32-131)[4]	004	130.8	-53.7	10/26/2007	10:11	3.74E+02	2.39E+02	2.42E+02	2.47E-01	6.03E-01	7.06E-01	-1.81E-01	3.48E+00	3.82E+00	-2.55E-01	3.92E+00	3.99E+00	NA	NA	NA	(MW-32-131)[4]
	005			1/18/2008	11:23	5.04E+02	2.07E+02	1.79E+02	5.14E-01	7.79E-01	8.52E-01	8.47E-01	2.19E+00	2.21E+00	-8.40E-02	1.98E+00	2.18E+00	NA	NA	NA	
MW-32-165[5]	001	163.0	-85.9	1/19/2007	9:50	1.05E+04	8.70E+02	5.70E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-32-165[5]
	002			6/28/2007	13:06	5.81E+02	2.03E+02	1.97E+02	-2.82E-01	7.33E-01	9.70E-01	8.54E-01	2.85E+00	2.94E+00	-8.16E-01	2.46E+00	2.60E+00	NA	NA	NA	
	003			8/13/2007	11:35	4.93E+02	2.09E+02	2.08E+02	-6.38E-01	3.81E-01	6.52E-01	-1.42E+00	3.76E+00	3.37E+00	1.63E+00	1.69E+00	2.91E+00	NA	NA	NA	
(MW-32-149)[4]	004	149.3	-72.2	10/26/2007	10:10	2.92E+03	2.94E+02	1.90E+02	-2.45E-01	4.89E-01	7.22E-01	1.99E-01	3.10E+00	3.51E+00	1.65E-01	3.56E+00	3.99E+00	NA	NA	NA	(MW-32-149)[4]
	005			1/18/2008	11:18	1.15E+03	2.69E+02	1.85E+02	3.04E-01	8.25E-01	9.53E-01	2.94E+00	4.29E+00	3.08E+00	-8.74E-01	2.82E+00	2.93E+00	NA	NA	NA	
MW-32-173[4]	001	172.8	-95.7	10/26/2007	9:55	5.89E+03	3.87E+02	1.92E+02	1.86E-02	5.87E-01	7.54E-01	6.92E-01	3.00E+00	3.51E+00	-9.97E-01	2.91E+00	3.02E+00	NA	NA	NA	MW-32-173[4]
	002			1/18/2008	11:05	3.40E+03	4.07E+02	1.82E+02	1.13E-01	6.02E-01	7.63E-01	-3.84E-01	2.00E+00	2.18E+00	-6.14E-01	2.09E+00	2.25E+00	NA	NA	NA	
MW-32-197[5]	001	194.5	-117.4	1/19/2007	9:55	1.13E+04	8.40E+02	5.20E+02	4.20E-01	1.50E+00	1.70E+00	2.60E-01	1.26E+00	1.40E+00	7.10E-01	1.50E+00	1.70E+00	NA	NA	NA	MW-32-197[5]
	002			6/28/2007	13:07	2.41E+03	2.72E+02	1.87E+02	-5.09E-02	6.12E-01	8.20E-01	1.52E+00	3.07E+00	3.64E+00	-1.29E+00	3.27E+00	3.37E+00	NA	NA	NA	
	003			8/13/2007	11:25	1.72E+03	2.67E+02	2.03E+02	-3.65E-01	8.12E-01	1.04E+00	6.21E-01	2.49E+00	2.93E+00	-1.19E+00	2.38E+00	2.39E+00	NA	NA	NA	
(MW-32-190)[4]	004	190.3	-113.7	10/26/2007	9:53	9.76E+03	4.80E+02	1.93E+02	-5.05E-01	7.75E-01	9.73E-01	-6.17E-01	3.07E+00	3.27E+00	-1.94E-01	3.18E+00	3.57E+00	NA	NA	NA	(MW-32-190)[4]
	005			1/18/2008	11:35	8.89E+03	6.32E+02	1.83E+02	4.28E-01	7.73E-01	8.69E-01	6.57E-01	1.71E+00	2.02E+00	5.18E-01	1.65E+00	1.96E+00	NA	NA	NA	
MW-33	001	19.2	-0.4	12/15/2005	8:00	1.42E+05	4.26E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-33
	002			12/19/2005	11:38	1.99E+05	5.97E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			12/29/2005	11:30	2.20E+05	6.60E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			1/6/2006	12:30	1.89E+05	5.67E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			1/13/2006	12:10	2.32E+05	6.96E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			1/20/2006	10:40	2.26E+05	6.78E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007			1/27/2006	11:10	2.42E+05	7.26E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008			2/3/2006	12:15	2.50E+05	2.84E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009			2/7/2006	16:00	2.14E+05	2.64E+04	6.37E+02	1.36E-01	5.06E-01	6.25E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			2/16/2006	13:55	2.61E+05	2.91E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011			3/3/2006	10:20	2.53E+05	7.59E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012			4/7/2006	10:25	2.21E+05	6.63E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	014			5/17/2006	12:50	1.35E+05	2.01E+04	1.60E+03	7.79E-01	1.43E+00	1.47E+00	1.17E+01	1.19E+01	1.37E+01	4.62E+00	1.41E+01	1.28E+01	NA	NA	NA	
	015			6/7/2006	10:15	1.41E+05	1.85E+04	1.32E+03	6.74E-01	5.63E-01	6.44E-01	6.95E-01	8.72E+00	9.58E+00	-6.11E+00	8.63E+00	8.02E+00	NA	NA	NA	
	017			7/3/2006	9:50	2.64E+05	2.01E+04	3.85E+03	4.78E-01	1.37E+00	1.57E+00	-6.85E-01	1.17E+01	1.27E+01	-5.24E+00	1.28E+01	1.21E+01	NA	NA	NA	
	018			8/4/2006	8:15	1.84E+05	2.54E+04	1.87E+03	NA	NA	NA	3.53E+00	6.31E+00	7.84E+00	-1.14E+00	7.35E+00	8.60E+00	NA	NA	NA	
	019			8/30/2006	13:00	1.15E+05	1.77E+04	4.39E+03	NA	NA	NA	-6.99E-01	8.47E+00	8.90E+00	3.71E+00	7.21E+00	9.60E+00	NA	NA	NA	
	020	16	2.8	6/15/2007	15:48	9.06E+04	3.26E+03	3.61E+02	-2.82E-01	2.86E-01	4.85E-01	-2.78E-01	3.82E+00	3.76E+00	-1.64E+00	3.44E+00	3.39E+00	-8.12E-01	1.16E+01	1.37E+01	
	021			8/3/2007	10:20	2.30E+04	7.08E+02	2.04E+02	5.80E-01	8.49E-01	9.33E-01	8.18E-01	2.37E+00	2.83E+00	2.45E-01	2.13E+00	2.46E+00	NA	NA	NA	
MW-34	001	18.9	-0.4	12/13/2005	13:53	6.39E+04	1.92E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-34
	002			12/19/2005	10:35	1.21E+05	3.63E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-34	003			12/29/2005	10:50	1.47E+05	4.41E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			1/6/2006	11:35	1.59E+05	4.77E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			1/13/2006	11:40	1.31E+05	3.93E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			1/20/2006	10:00	2.11E+05	6.33E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007			1/27/2006	10:50	2.12E+05	6.36E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008			2/3/2006	12:20	2.24E+05	2.69E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-34	009			2/7/2006	15:15	1.74E+05	2.38E+04	6.37E+02	9.22E-02	3.78E-01	4.67E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			2/16/2006	13:55	1.99E+05	2.55E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-34
	011			3/33/06	9:35	2.30E+05	6.90E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012			4/7/2006	10:05	2.76E+05	8.28E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013			5/17/2006	13:15	3.64E+04	5.52E+03	8.35E+02	2.50E-02	6.63E-01	9.24E-01	7.84E+00	1.39E+01	1.55E+01	2.72E+00	1.31E+01	1.44E+01	NA	NA	NA	
	014			6/26/2006	10:20	1.05E+04	8.52E+02	3.41E+02	3.71E-01	6.49E-01	7.79E-01	1.83E+00	7.85E+00	8.96E+00	5.84E+00	7.34E+00	9.37E+00	NA	NA	NA	
	015			7/26/2006	10:20	4.07E+04	3.51E+03	1.57E+03	2.18E-01	8.97E-01	1.16E+00	-1.73E-01	4.87E+00	5.24E+00	-2.54E-01	5.64E+00	6.78E+00	NA	NA	NA	
	016			8/24/2006	12:18	6.69E+04	1.05E+04	3.39E+03	NA	NA	NA	1.62E+00	5.81E+00	6.78E+00	-1.60E+00	5.89E+00	5.85E+00	NA	NA	NA	
	017			9/21/2006	9:45	1.61E+04	2.78E+03	5.86E+02	0.00E+00	1.12E+00	1.31E+00	6.09E-02	1.69E+00	1.85E+00	-2.10E-01	1.65E+00	1.79E+00	NA	NA	NA	
	018	16.5	2.0	8/3/2007	10:21	2.22E+04	7.44E+02	2.13E+02	3.94E-02	7.08E-01	9.04E-01	-1.55E+00	4.53E+00	4.44E+00	2.12E+00	3.40E+00	4.01E+00	NA	NA	NA	
MW-35	001	19.0	-0.4	12/13/2005	13:50	4.23E+04	3.18E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-35
	002			12/19/2005	10:17	7.60E+04	2.28E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			12/29/2005	10:00	8.05E+04	2.42E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			1/6/2006	11:10	9.54E+04	2.86E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			1/13/2006	10:50	9.78E+04	2.93E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			1/20/2006	9:30	1.04E+05	3.12E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007			1/27/2006	11:00	3.87E+04	1.16E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008			2/3/2006	12:20	5.14E+04	1.29E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009			2/7/2006	14:40	8.44E+04	1.66E+04	6.37E+02	1.62E-01	4.32E-01	5.28E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			2/16/2006	13:30	9.04E+04	1.72E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011			3/3/2006	9:05	1.19E+05	3.57E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	012			4/7/2006	9:55	5.62E+04	1.69E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013			5/17/2006	13:37	4.07E+04	6.15E+03	8.72E+02	4.70E-01	7.53E-01	7.87E-01	6.46E+00	2.07E+01	1.64E+01	3.04E+00	1.37E+01	1.53E+01	NA	NA	NA	
	014			6/26/2006	10:40	1.74E+04	1.37E+03	4.29E+02	-2.30E-01	6.66E-01	8.69E-01	-1.34E+00	1.01E+01	1.09E+01	-2.45E+00	8.92E+00	9.36E+00	NA	NA	NA	
	015			9/21/2006	9:30	4.53E+04	7.19E+03	9.12E+02	6.26E-01	1.30E+00	1.41E+00	-3.15E-01	1.96E+00	1.82E+00	2.44E-01	1.49E+00	1.69E+00	NA	NA	NA	
	016	15.0	3.6	6/15/2007	13:58	2.03E+03	5.87E+02	3.84E+02	2.26E-01	4.34E-01	4.91E-01	4.66E+01	8.82E+00	2.81E+00	-1.27E+00	2.58E+00	2.63E+00	6.18E+00	1.92E+01	2.20E+01	
	017			8/3/2007	10:22	5.95E+03	5.58E+02	2.70E+02	9.45E-02	5.76E-01	6.98E-01	-9.20E-01	2.71E+00	2.82E+00	5.74E-01	2.88E+00	3.33E+00	NA	NA	NA	
MW-36-24[6]	001	16.1	-4.3	2/7/2006	17:00	NA	NA	NA	1.29E+00	5.48E-01	5.53E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-24[6]
	002			2/27/2006	9:45	3.04E+04	9.95E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/23/2006	16:00	3.42E+04	3.81E+03	1.86E+03	9.99E-01	6.42E-01	6.42E-01	-3.86E+00	1.01E+01	1.05E+01	5.02E+00	9.33E+00	1.22E+01	6.41E+01	1.59E+01	1.53E+01	
	004			4/5/2006	10:30	NA	NA	NA	1.56E+00	4.86E-01	4.35E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			6/5/2006	12:20	2.02E+02	1.59E+02	1.51E+02	3.70E-01	7.66E-01	9.31E-01	3.99E+00	1.03E+01	1.21E+01	6.90E-02	1.02E+01	1.12E+01	NA	NA	NA	
	006			8/28/2006	10:30	2.45E+02	1.80E+02	1.71E+02	NA	NA	NA	-1.04E+00	3.27E+00	3.32E+00	1.66E+00	3.06E+00	4.19E+00	NA	NA	NA	
	007	17.0	-5.2	6/27/2007	10:40	1.54E+02	1.76E+02	1.93E+02	5.90E-01	7.92E-01	8.46E-01	3.31E-01	2.81E+00	3.17E+00	4.00E-01	3.03E+00	3.45E+00	NA	NA	NA	
	008			8/8/2007	13:45	1.63E+02	1.85E+02	2.04E+02	-5.35E-01	6.81E-01	9.31E-01	1.53E-01	3.40E+00	3.77E+00	3.56E+00	3.40E+00	4.17E+00	-7.46E+00	2.10E+01	2.54E+01	
	009			10/18/2007	10:06	2.86E+02	1.91E+02	2.01E+02	8.56E-02	7.60E-01	9.26E-01	7.20E-01	2.91E+00	3.37E+00	3.11E-01	3.01E+00	3.47E+00	NA	NA	NA	
	010			1/23/2008	14:18	2.16E+03	2.36E+02	1.70E+02	1.03E-01	3.12E-01	3.76E-01	2.92E-02	2.39E+00	2.67E+00	-4.84E-01	2.37E+00	2.57E+00	NA	NA	NA	
MW-36-41	001	37.0	-25.2	2/10/2006	11:10	4.75E+04	1.24E+04	6.38E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-41
	002			2/27/2006	13:45	4.58E+04	1.22E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/24/2006	12:45	5.52E+04	4.65E+03	1.86E+03	3.48E+00	5.46E-01	4.16E-01	-5.91E+00	1.39E+01	1.45E+01	2.97E+00	1.53E+01	1.74E+01	4.87E+01	1.65E+01	1.65E+01	
	004			4/5/2006	12:55	NA	NA	NA	3.53E+00	6.24E-01	5.02E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			6/5/2006	11:30	2.05E+04	3.17E+03	6.01E+02	2.30E+00	6.59E-01	6.10E-01	-3.37E+00	1.27E+01	1.33E+01	6.21E-02	1.03E+01	1.13E+01	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-36-41	006			8/28/2006	10:10	2.01E+04	3.09E+03	6.45E+02	NA	NA	NA	1.96E+00	4.15E+00	5.22E+00	-2.78E-01	3.56E+00	3.78E+00	NA	NA	NA	
	007			6/27/2007	12:30	6.11E+03	3.50E+02	1.74E+02	2.18E+00	1.17E+00	9.85E-01	4.30E-01	4.61E+00	1.74E+00	1.36E+00	2.91E+00	3.67E+00	NA	NA	NA	
MW-36-52	001	49.7	-37.9	2/10/2006	10:30	2.24E+04	8.55E+03	6.38E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-36-52
	002			2/27/2006	12:05	2.57E104	9.14E103	6.36E102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/24/2006	16:00	2.68E+04	3.47E+03	1.87E+03	4.11E+00	5.66E-01	5.14E-01	4.47E+00	9.06E+00	1.04E+01	-2.47E+00	9.69E+00	1.03E+01	1.18E+01	1.44E+01	1.54E+01	
MW-36-52	004			4/5/2006	14:30	NA	NA	NA	5.01E+00	7.23E-01	6.26E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			6/5/2006	11:30	2.40E+04	3.68E+03	6.40E+02	4.42E+00	8.33E-01	5.53E-01	3.49E+00	1.05E+01	1.21E+01	4.80E-01	1.04E+01	1.15E+01	NA	NA	NA	
	006			8/28/2006	10:00	1.41E+04	2.19E+03	5.35E+02	NA	NA	NA	4.06E-01	6.52E+00	7.36E+00	-2.69E-01	5.23E+00	5.69E+00	NA	NA	NA	MW-36-52
	007	50.0	-38.2	6/27/2007	11:45	1.01E+04	4.89E+02	1.95E+02	2.62E+00	1.09E+00	3.28E-01	-3.82E-01	2.77E+00	2.99E+00	9.25E-01	2.61E+00	3.14E+00	NA	NA	NA	
	008			8/8/2007	14:15	1.25E+04	1.24E+03	4.60E+02	2.26E+00	1.00E+00	2.82E-01	1.30E+00	2.97E+00	3.51E+00	-8.82E-01	3.31E+00	3.55E+00	4.27E+00	2.14E+01	2.47E+01	
	009			1/23/2008	14:13	1.13E104	4.47E102	1.71E102	4.85E100	9.69E-01	4.24E-01	-2.89E-01	2.01E100	2.25E100	4.08E-01	1.86E100	2.20E100	NA	NA	NA	
MW-37-22	001	16.5	-1.5	2/24/2006	9:50	1.07E+04	5.92E+03	6.39E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-22
	002			2/28/2006	10:20	1.28E+04	2.03E+03	1.31E+03	2.37E+00	8.91E-01	8.44E-01	2.41E+00	1.92E+01	1.95E+01	3.60E+00	1.58E+01	1.77E+01	4.24E+01	1.48E+01	1.47E+01	
	002			2/28/2006	10:20	NA	NA	NA	2.40E+00	9.10E-01	9.16E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/10/2006	10:35	2.32E+04	2.57E+03	1.28E+03	4.70E+00	9.84E-01	7.87E-01	4.61E+00	1.46E+01	1.63E+01	5.65E+00	1.39E+01	1.57E+01	2.08E+01	1.27E+01	1.33E+01	
	004			3/27/2006	10:35	3.49E+04	3.78E+03	1.81E+03	4.05E+00	8.76E-01	6.97E-01	9.75E-01	4.68E+00	5.21E+00	7.46E-01	4.48E+00	4.97E+00	5.43E+01	1.53E+01	1.52E+01	
	005			6/27/2006	10:25	1.05E+04	8.55E+02	3.40E+02	9.57E+00	1.20E+00	7.87E-01	3.20E+00	6.92E+00	8.00E+00	-8.05E-01	6.94E+00	7.43E+00	NA	NA	NA	
	006			9/29/2006	9:30	7.37E+03	1.22E+03	3.76E+02	1.42E+01	1.80E+00	9.01E-01	-3.84E-02	8.51E+00	9.49E+00	-1.03E+00	7.63E+00	7.69E+00	NA	NA	NA	
	007	17.0	-2.0	6/27/2007	10:50	4.05E+03	3.35E+02	1.94E+02	1.49E+01	2.13E+00	8.72E-01	-2.26E+00	4.88E+00	3.50E+00	-1.12E+00	3.24E+00	3.34E+00	NA	NA	NA	
	008			8/7/2007	10:55	2.79E+03	2.69E+02	1.89E+02	1.83E+01	2.07E+00	8.57E-01	2.74E+00	3.93E+00	4.22E+00	4.23E-01	3.07E+00	3.54E+00	NA	NA	NA	
	009			10/15/2007	14:30	2.26E+03	2.22E+02	1.69E+02	2.29E+01	2.28E+00	4.67E-01	1.33E+00	3.25E+00	3.78E+00	-1.42E+00	3.44E+00	3.44E+00	NA	NA	NA	
	010			1/23/2008	10:42	6.52E+03	3.54E+02	1.71E+02	8.73E+00	1.27E+00	4.63E-01	-2.09E+00	2.96E+00	2.86E+00	2.34E-01	3.08E+00	3.49E+00	NA	NA	NA	
MW-37-32	001	29.8	-14.8	2/24/2007	10:55	3.01E+04	9.93E+03	6.39E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-32
	002			2/28/2006	12:00	2.86E+04	2.73E+03	1.32E+03	1.78E+01	1.49E+00	2.22E+00	1.27E+01	1.93E+01	2.17E+01	1.50E+01	1.90E+01	2.20E+01	3.41E+01	1.46E+01	1.48E+01	
	002			2/28/2006	12:00	NA	NA	NA	1.82E+01	1.72E+00	2.28E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/10/2006	12:50	2.83E+04	2.79E+03	1.28E+03	1.52E+01	1.39E+00	1.90E+00	1.43E+01	1.59E+01	1.78E+01	1.51E+00	1.51E+01	1.65E+01	1.13E+01	1.26E+01	1.34E+01	
	004			3/27/2006	11:10	1.39E+04	2.61E+03	1.72E+03	1.95E+01	1.59E+00	2.44E+00	1.10E+00	4.72E+00	5.25E+00	-8.50E-01	4.41E+00	4.80E+00	6.09E+00	1.40E+01	1.51E+01	
	005			6/27/2006	9:15	7.92E+03	6.63E+02	2.99E+02	2.98E+01	2.64E+00	3.72E+00	-2.37E-01	5.24E+00	6.07E+00	-2.02E-01	4.75E+00	5.78E+00	NA	NA	NA	
	006			9/29/2006	10:15	1.15E+04	1.88E+03	4.64E+02	1.53E+01	1.80E+00	1.91E+00	-3.21E+00	8.98E+00	8.67E+00	2.51E+00	8.73E+00	1.06E+01	NA	NA	NA	
	007	29	-14	6/27/2007	12:20	3.13E+03	3.05E+02	1.93E+02	1.85E+01	2.37E+00	2.31E+00	-1.49E+00	3.86E+00	3.38E+00	1.63E+00	3.38E+00	4.14E+00	NA	NA	NA	
	008			8/7/2007	10:56	3.81E+03	2.97E+02	1.87E+02	1.89E+01	2.02E+00	2.36E+00	1.99E+00	3.18E+00	3.88E+00	1.88E+00	3.19E+00	4.01E+00	NA	NA	NA	
	009			10/15/2007	14:36	2.49E+03	2.30E+02	1.69E+02	2.13E+01	2.19E+00	2.66E+00	8.79E-01	4.61E+00	4.81E+00	2.53E+00	3.75E+00	4.70E+00	NA	NA	NA	
	010			1/23/2008	11:03	6.76E+03	3.57E+02	1.70E+02	1.52E+01	1.59E+00	3.65E-01	1.09E+00	2.70E+00	3.16E+00	-5.32E-02	2.72E+00	2.55E+00	NA	NA	NA	
MW-37-40	001	39.2	-24.2	2/24/2006	11:35	1.68E+04	7.41E+03	6.39E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-40
	002			2/28/2006	11:40	1.47E+04	2.13E+03	1.32E+03	3.86E+00	1.23E+00	1.19E+00	1.79E+01	1.71E+01	1.96E+01	1.53E+00	1.64E+01	1.81E+01	5.65E+01	1.65E+01	1.61E+01	
	002			2/28/2006	11:40	NA	NA	NA	4.91E+00	1.23E+00	1.08E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/10/2006	10:25	1.70E104	2.30E103	1.29E103	1.35E101	1.32E100	7.28E-01	5.51E100	1.45E101	1.62E101	1.99E100	1.47E101	1.62E101	1.24E101	1.35E101	1.44E101	
	004			3/27/2006	11:55	1.56E+04	2.82E+03	1.82E+03	1.11E+01	1.12E+00	5.90E-01	3.34E+00	6.14E+00	5.43E+00	4.03E+00	4.71E+00	5.39E+00	6.37E+00	1.35E+01	1.47E+01	
	006			6/27/2006	10:15	1.42E+01	1.13E+03	3.89E+02	2.44E+01	1.71E+00	7.03E-01	8.68E+00	7.68E+00	9.25E+00	-4.36E+00	6.70E+00	6.60E+00	NA	NA	NA	
	007	39	-24	6/27/2007	11:00	6.35E+03	3.99E+02	1.93E+02	4.69E+00	1.14E+00	8.47E-01	5.92E-01	3.36E+00	3.91E+00	-1.07E+00	3.15E+00	3.22E+00	NA	NA	NA	
	008			8/7/2007	13:45	5.85E+03	3.50E+02	1.88E+02	9.76E+00	1.51E+00	6.27E-01	1.10E+00	3.12E+00	3.71E+00	-2.48E-01	3.36E+00	3.70E+00	NA	NA	NA	
	009			10/15/2007	15:00	5.69E+03	3.03E+02	1.69E+02	5.98E+00	1.28E+00	7.48E-01	7.63E-01	2.91E+00	3.38E+00	5.99E-01	2.82E+00	3.32E+00	NA	NA	NA	
	010			2/1/2008	17:20	6.73E+03	3.17E+02	1.33E+02	9.48E-01	8.54E-01	8.45E-01	3.09E-01	2.63E+00	2.95E+00	-3.70E-01	2.75E+00	2.94E+00	-4.35E+00	1.46E+01	1.76E+01	
MW-37-57	001	53.2	-38.2	2/24/2006	10:30	1.60E104	7.22E103	6.39E102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MW-37-57
	002			2/28/2006	13:35	1.33E+04	2.06E+00	1.32E+03	2.22E+01	1.75E+00	1.05E+00	1.81E+00	2.14E+01	2.44E+01	5.22E+00	1.82E+01	2.14E+01	2.91E+01	1.50E+01	1.54E+01	
	002			2/28/2006	13:35	NA	NA	NA	2.27E+01	2.00E+00	1.02E+00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			3/10/2006	11:45	1.91E+04	2.40E+03	1.29E+03	2.29E+01	1.74E+00	7.68E-01	1.46E+00	1.76E+01	1.77E+01	7.74E+00	1.53E+01	1.73E+01	1.04E+01	1.33E+01	1.43E+01	
	004			3/27/2006	13:55	1.59E+04	2.84E+03	1.81E+03	1.65E+01	1.38E+00	6.60E-01	2.52E+00	5.25E+00	5.80E+00	3.94E+00	4.86E+00	5.53E+00	3.71E+00	1.37E+01	1.49E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-37-57	005			6/27/2006	9:35	4.48E+04	3.42E+03	6.83E+02	2.73E+01	1.89E+00	8.18E-01	NA	NA	NA	2.04E+00	5.77E+00	6.52E+00	NA	NA	NA	
	006			9/29/2006	10:40	1.05E+04	1.74E+03	4.52E+02	1.81E+01	1.88E+00	7.87E-01	-3.39E+00	8.04E+00	7.81E+00	2.60E+00	8.86E+00	1.07E+01	NA	NA	NA	
	007	55	-40	6/27/2007	12:20	5.89E+03	3.89E+02	1.95E+02	2.42E+01	3.03E+00	8.84E-01	2.45E+00	3.51E+00	4.32E+00	-9.58E-02	4.67E+00	4.84E+00	NA	NA	NA	
	008			8/7/2007	12:55	6.68E+03	3.68E+02	1.88E+02	2.33E+01	2.15E+00	5.01E-01	-1.35E+00	3.27E+00	3.42E+00	-3.64E-02	3.86E+00	4.33E+00	NA	NA	NA	
	009			10/15/2007	15:00	4.88E+03	2.85E+02	1.68E+02	2.78E+01	2.49E+00	5.53E-01	3.62E-01	2.67E+00	2.72E+00	1.20E-01	2.40E+00	2.77E+00	NA	NA	NA	
	010			2/1/2008	16:31	6.63E+03	3.14E+02	1.33E+02	2.89E+01	3.20E+00	9.62E-01	-9.11E-01	3.72E+00	3.68E+00	-2.93E-01	3.12E+00	3.45E+00	8.47E-01	1.46E+01	1.71E+01	
MW-38	002	35.3	-21.0	12/8/05	10:30	9.85E+02	4.38E+02	4.54E+02	-4.38E+00	9.29E+00	1.25E+01	2.93E+00	8.80E+00	6.57E+00	2.99E+00	8.98E+00	7.06E+00	NA	NA	NA	MW-38
	003			12/30/05	11:50	2.50E+02	4.29E+02	4.71E+02	NA	NA	NA	2.84E+00	8.51E+00	6.39E+00	2.81E+00	8.43E+00	6.71E+00	NA	NA	NA	
MW-38	004			1/10/06	13:50	1.01E+03	4.50E+02	4.66E+02	NA	NA	NA	3.71E+00	1.11E+01	8.02E+00	3.55E+00	1.06E+01	8.02E+00	NA	NA	NA	
	005			1/19/06	13:15	7.58E+02	4.29E+02	4.61E+02	NA	NA	NA	3.13E+00	9.38E+00	7.14E+00	3.71E+00	1.11E+01	8.77E+00	NA	NA	NA	
	006			1/25/06	12:15	1.44E+03	4.59E+02	4.61E+02	NA	NA	NA	3.67E+00	1.10E+01	8.21E+00	4.18E+00	1.25E+01	9.71E+00	NA	NA	NA	
	007			2/1/06	13:30	3.39E+02	4.23E+02	4.60E+02	NA	NA	NA	3.06E+00	9.19E+00	6.91E+00	3.03E+00	9.09E+00	7.30E+00	NA	NA	NA	MW-38
	008			2/8/06	11:15	1.88E+02	3.30E+02	3.46E+02	1.35E-01	4.34E-01	5.15E-01	5.29E+00	1.16E+01	1.31E+01	2.41E+00	1.17E+01	1.31E+01	NA	NA	NA	
	009			2/16/06	10:05	1.47E+02	4.11E+02	4.54E+02	NA	NA	NA	2.91E+00	8.74E+00	6.54E+00	2.48E+00	7.44E+00	6.05E+00	NA	NA	NA	
	010			2/23/06	13:25	2.63E+03	4.98E+02	4.61E+02	NA	NA	NA	1.97E+00	5.90E+00	4.22E+00	1.88E+00	5.63E+00	4.19E+00	NA	NA	NA	
	011			3/3/06	8:50	3.70E+02	4.71E+02	4.66E+02	NA	NA	NA	2.65E+00	7.94E+00	6.38E+00	4.53E+00	1.36E+01	1.08E+01	NA	NA	NA	
	013			5/22/06	9:20	7.59E+02	4.11E+02	4.46E+02	1.52E-01	2.88E-01	3.20E-01	3.42E+00	1.03E+01	7.57E+00	3.40E+00	1.02E+01	7.93E+00	NA	NA	NA	
	014			6/21/06	9:48	9.16E+02	4.38E+02	4.60E+02	-2.66E+00	2.16E+00	2.40E+00	2.52E+00	7.56E+00	5.45E+00	2.50E+00	7.49E+00	5.59E+00	1.10E+00	5.70E+00	6.40E+00	
	014			6/21/06	9:48	7.62E+02	1.77E+02	1.70E+02	NA	NA	NA	5.90E-01	2.10E+00	2.40E+00	1.20E+00	2.07E+00	2.20E+00	NA	NA	NA	
	015			7/6/06	12:00	5.93E+02	4.20E+02	4.52E+02	-3.70E-01	4.50E-01	5.20E-01	3.40E+00	1.02E+01	7.70E+00	2.98E+00	8.95E+00	7.41E+00	NA	NA	NA	
	016-S1			8/7/06	13:23	2.92E+02	4.14E+02	4.47E+02	-2.47E-01	1.44E+00	1.73E+00	2.69E+00	8.07E+00	5.79E+00	2.72E+00	8.15E+00	6.03E+00	NA	NA	NA	
	016			8/7/06	13:23	2.15E+02	1.80E+02	1.74E+02	5.00E-02	6.30E-01	7.10E-01	2.29E+00	6.47E+00	9.51E+00	-7.22E-01	6.90E+00	9.33E+00	2.75E+01	2.94E+01	3.13E+01	
	017			9/5/06	11:30	3.53E+02	1.86E+02	1.67E+02	-5.30E-01	7.80E-01	8.70E-01	3.81E-01	7.68E+00	8.63E+00	-4.48E-01	6.20E+00	6.42E+00	NA	NA	NA	
	017-S1			9/5/06	11:30	3.34E+02	3.99E+02	4.49E+02	NA	NA	NA	2.75E+00	8.26E+00	6.21E+00	3.23E+00	9.69E+00	7.51E+00	NA	NA	NA	
	018			11/22/06	10:38	1.78E+02	4.08E+02	4.50E+02	-7.00E-02	6.60E-01	7.30E-01	3.13E+00	9.38E+00	7.14E+00	3.08E+00	9.25E+00	7.53E+00	NA	NA	NA	
	019			2/12/07	9:58	2.24E+03	6.00E+02	5.30E+02	-5.10E-01	1.32E+00	1.50E+00	2.73E+00	1.92E+00	2.00E+00	-1.03E+00	1.41E+00	1.80E+00	NA	NA	NA	
	020	25.4	-11.1	8/16/07	11:30	6.04E+02	1.53E+02	1.44E+02	-9.21E-02	6.92E-01	8.85E-01	1.21E+00	3.07E+00	3.65E+00	2.48E+00	3.01E+00	3.98E+00	NA	NA	NA	
MW-39-67	001	67.0	13.0	5/22/2007	9:53	4.73E+02	1.77E+02	1.31E+02	2.76E+00	8.57E-01	5.71E-01	1.23E-01	1.67E+00	1.85E+00	1.84E+00	1.88E+00	2.08E+00	-3.11E+00	1.06E+01	1.23E+01	MW-39-67
	002			8/7/2007	16:30	3.25E+02	1.86E+02	1.95E+02	4.78E+00	1.13E+00	6.32E-01	2.59E+00	4.62E+00	3.57E+00	2.62E-01	2.55E+00	2.96E+00	NA	NA	NA	
	003			1/17/2008	14:35	3.57E+02	1.95E+02	1.83E+02	3.52E+00	1.29E+00	8.53E-01	-1.28E-01	3.17E+00	3.57E+00	1.76E+00	3.63E+00	4.25E+00	NA	NA	NA	
MW-39-84	001	83.5	-3.5	5/22/2007	10:38	5.91E+02	1.89E+02	1.29E+02	1.72E+00	7.22E-01	5.57E-01	-9.07E-02	1.53E+00	1.69E+00	5.61E-01	1.58E+00	1.81E+00	-1.68E+00	9.99E+00	1.15E+01	MW-39-84
	002			8/7/2007	15:30	2.52E+02	1.77E+02	1.91E+02	7.97E-01	7.18E-01	7.30E-01	3.55E-01	3.07E+00	3.44E+00	-1.11E+00	3.59E+00	3.76E+00	NA	NA	NA	
	003			1/17/2008	13:25	1.43E+02	1.70E+02	1.84E+02	1.78E+00	9.47E-01	7.24E-01	-2.74E+00	2.99E+00	2.86E+00	8.36E-01	2.94E+00	3.50E+00	NA	NA	NA	
MW-39-102	001	101.5	-21.5	5/22/2007	10:40	8.05E+02	2.13E+02	1.29E+02	1.32E+00	7.17E-01	6.21E-01	-3.99E-02	1.81E+00	1.99E+00	6.54E-01	1.78E+00	2.11E+00	6.39E-02	1.15E+01	1.32E+01	MW-39-102
	002			8/7/2007	14:25	3.21E+02	1.79E+02	1.88E+02	4.71E-01	5.61E-01	5.95E-01	-7.63E-01	3.35E+00	3.60E+00	-2.47E+00	4.70E+00	4.22E+00	NA	NA	NA	
	003			1/17/2008	13:32	1.54E+02	1.67E+02	1.79E+02	9.88E-01	8.36E-01	7.97E-01	7.42E-01	2.37E+00	2.83E+00	7.91E-01	3.45E+00	2.98E+00	NA	NA	NA	
MW-39-124	001	124.0	-44.0	5/22/2007	9:50	2.61E+02	1.49E+02	1.31E+02	9.26E-01	9.70E-01	1.00E+00	-1.15E-01	1.64E+00	1.80E+00	-5.31E-01	1.54E+00	1.63E+00	3.55E+00	1.17E+01	1.33E+01	MW-39-124
	002			8/7/2007	13:40	1.92E+02	1.73E+02	1.88E+02	5.90E-01	8.57E-01	9.43E-01	-1.14E+00	2.94E+00	3.06E+00	4.97E-01	3.17E+00	3.61E+00	NA	NA	NA	
	003			1/17/2008	15:40	1.67E+02	1.64E+02	1.73E+02	1.48E+00	9.71E-01	8.60E-01	6.55E-01	2.61E+00	3.00E+00	9.85E-01	2.03E+00	2.55E+00	NA	NA	NA	
MW-39-183	001	182.5	-102.5	5/22/2007	10:08	2.47E+02	1.45E+02	1.29E+02	6.51E-01	8.82E-01	9.53E-01	6.42E-01	1.88E+00	1.89E+00	3.09E-02	1.58E+00	1.79E+00	0.00E+00	1.09E+01	1.25E+01	MW-39-183
	002			8/7/2007	12:40	1.88E+02	1.73E+02	1.89E+02	7.11E-01	8.02E-01	8.32E-01	1.38E+00	5.12E+00	5.12E+00	2.34E+00	4.56E+00	5.46E+00	NA	NA	NA	
	003			1/17/2008	11:55	4.65E+01	1.56E+02	1.82E+02	8.29E-01	6.17E-01	5.82E-01	-3.72E-01	3.51E+00	3.92E+00	0.00E+00	2.03E+00	2.20E+00	NA	NA	NA	
MW-39-195	001	195.0	-115.0	5/22/2007	12:45	2.55E+02	1.50E+02	1.33E+02	1.30E+00	6.90E-01	5.69E-01	0.00E+00	7.67E+00	4.34E+00	3.54E-01	4.16E+00	4.82E+00	-2.52E+00	9.95E+00	1.15E+01	MW-39-195
	002			8/7/2007	12:00	2.00E+02	1.70E+02	1.85E+02	5.92E-01	6.23E-01	6.55E-01	-4.08E-02	4.14E+00	4.06E+00	-2.76E-01	4.56E+00	4.30E+00	NA	NA	NA	
	003			1/17/2008	17:28	9.63E+01	1.64E+02	1.84E+02	8.97E-01	8.51E-01	8.38E-01	7.57E-01	4.08E+00	4.05E+00	8.15E-01	3.42E+00	4.01E+00	NA	NA	NA	
MW-40-27	001	26.7	46.5	6/5/2007	11:00	1.56E+02	1.58E+02	1.63E+02	-7.82E-04	6.48E-01	8.50E-01	2.70E-02	3.01E+00	3.39E+00	1.48E+00	2.90E+00	3.17E+00	NA	NA	NA	MW-40-27
	002			7/23/2007	12:35	1.62E+02	1.59E+02	1.69E+02	3.32E-01	5.90E-01	6.62E-01	2.52E+00	3.39E+00	3.88E+00	-5.97E-02	3.45E+00	3.83E+00	NA	NA	NA	
	003			1/7/2008	16:28	1.44E+02	1.70E+02	1.82E+02	-4.39E-01	4.49E-01	7.84E-01	-4.17E-01	1.74E+00	1.87E+00	6.09E-01	1.70E+00	1.99E+00	NA	NA	NA	

IPEC00109851

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-40-46	001	46.2	27.0	6/5/2007	11:50	1.42E+02	1.58E+02	1.66E+02	-3.17E-01	5.82E-01	8.88E-01	7.90E-01	3.59E+00	3.39E+00	-2.35E+00	2.70E+00	2.27E+00	NA	NA	NA	MW-40-46
	002			7/23/2007	12:15	9.48E+01	1.53E+02	1.71E+02	3.50E-01	5.61E-01	6.28E-01	-9.08E-01	3.79E+00	4.09E+00	-1.72E+00	3.07E+00	2.90E+00	NA	NA	NA	
	003			10/12/2007	14:45	-1.59E+01	1.52E+02	1.74E+02	-2.14E-02	5.10E-01	6.85E-01	-3.80E-01	3.72E+00	3.59E+00	4.94E-01	3.72E+00	4.26E+00	NA	NA	NA	
	004			1/7/2008	14:42	-1.96E101	1.45E102	1.80E102	8.04E-01	8.55E-01	8.75E-01	-1.21E100	2.84E100	3.00E100	1.16E100	2.58E100	2.82E100	NA	NA	NA	
MW-40-81	001	80.7	-7.5	6/5/2007	12:37	1.63E+02	1.59E+02	1.63E+02	-2.93E-02	6.98E-01	9.11E-01	-1.00E+00	3.09E+00	3.22E+00	-4.70E-03	3.79E+00	3.62E+00	NA	NA	NA	MW-40-81
	002			7/23/2007	13:00	6.95E+01	1.52E+02	1.72E+02	2.45E-01	6.00E-01	6.94E-01	-7.08E-01	4.95E+00	5.20E+00	2.31E+00	3.81E+00	4.95E+00	NA	NA	NA	
	003			10/12/2007	10:52	6.99E+01	1.53E+02	1.73E+02	-9.65E-02	5.05E-01	7.10E-01	5.47E-01	4.00E+00	4.48E+00	7.73E-01	4.02E+00	4.64E+00	NA	NA	NA	
	004			1/7/2008	14:35	1.09E+02	1.64E+02	1.81E+02	2.87E-01	7.05E-01	8.26E-01	-7.49E-01	2.51E+00	2.38E+00	-2.66E-01	1.77E+00	1.95E+00	NA	NA	NA	
MW-40-100	001	100.2	-27.0	6/5/2007	11:15	1.76E+02	1.61E+02	1.64E+02	3.40E-01	6.16E-01	6.94E-01	-1.92E+00	3.06E+00	3.04E+00	-1.98E+00	3.87E+00	3.59E+00	NA	NA	NA	MW-40-100
	002			7/23/2007	13:20	8.12E+01	1.55E+02	1.75E+02	2.91E-01	6.18E-01	6.96E-01	-4.67E-01	1.91E+00	2.10E+00	1.78E-01	1.94E+00	2.20E+00	NA	NA	NA	
	003			10/12/2007	11:03	5.95E101	1.53E102	1.73E102	-7.39E-02	5.75E-01	7.69E-01	1.93E100	3.57E100	3.87E100	8.90E-01	3.30E100	3.61E100	NA	NA	NA	
	004			1/7/2008	11:55	1.98E+01	1.52E+02	1.81E+02	-7.69E-02	5.85E-01	8.00E-01	3.13E-01	2.27E+00	2.60E+00	8.84E-02	2.75E+00	2.86E+00	NA	NA	NA	
MW-40-127	001	127.2	-54.0	6/5/2007	12:55	1.87E+02	1.62E+02	1.63E+02	2.60E-01	5.05E-01	5.71E-01	7.57E-01	2.98E+00	3.41E+00	-5.59E-03	2.94E+00	3.26E+00	NA	NA	NA	MW-40-127
	002			7/23/2007	15:15	4.26E+01	1.44E+02	1.68E+02	3.83E-01	5.15E-01	5.73E-01	-1.17E+00	1.67E+00	1.76E+00	2.04E-01	1.59E+00	1.77E+00	NA	NA	NA	
	003			10/12/2007	11:30	2.83E+01	1.44E+02	1.64E+02	1.01E-01	4.97E-01	6.24E-01	-2.32E+00	3.90E+00	4.06E+00	-1.51E+00	3.72E+00	3.79E+00	NA	NA	NA	
	004			1/7/2008	12:30	9.75E+00	1.48E+02	1.79E+02	5.17E-01	6.83E-01	7.23E-01	6.45E-01	2.42E+00	2.77E+00	3.24E-01	2.28E+00	2.59E+00	NA	NA	NA	
MW-40-162	001	161.7	-88.5	6/5/2007	14:45	1.40E+02	1.56E+02	1.64E+02	2.94E-01	4.53E-01	5.04E-01	-1.67E+00	5.33E+00	4.95E+00	3.85E-01	4.68E+00	4.53E+00	NA	NA	NA	MW-40-162
	002			7/23/2007	17:40	2.59E+01	1.46E+02	1.73E+02	1.19E-01	4.45E-01	5.07E-01	-2.51E-01	2.81E+00	1.75E+00	7.27E-01	1.45E+00	1.69E+00	NA	NA	NA	
	003			10/12/2007	12:54	4.45E+01	1.49E+02	1.69E+02	-5.48E-02	6.20E-01	8.19E-01	-1.11E+00	4.47E+00	4.05E+00	-1.01E+00	3.31E+00	3.47E+00	NA	NA	NA	
	004			1/7/2008	13:10	4.96E+01	1.56E+02	1.82E+02	7.93E-02	3.63E-01	4.48E-01	4.17E-01	2.52E+00	2.87E+00	3.63E-01	2.40E+00	2.72E+00	NA	NA	NA	
MW-41-40	002	34.4	20.5	4/12/2006	15:00	7.26E+02	2.07E+02	1.56E+02	2.63E+00	1.74E+00	1.58E+00	2.91E+00	2.62E+00	3.03E+00	-7.58E-01	2.55E+00	2.74E+00	NA	NA	NA	MW-41-40
	003			5/25/2006	10:00	6.07E+02	2.22E+02	1.88E+02	5.18E+00	1.46E+00	1.07E+00	4.35E+00	1.06E+01	1.24E+01	-1.16E+00	1.07E+01	1.14E+01	NA	NA	NA	
	004			6/12/2006	9:50	6.76E+02	2.00E+02	1.51E+02	3.58E+00	6.83E-01	5.31E-01	5.30E+00	1.02E+01	1.19E+01	9.42E-02	9.32E+00	1.02E+01	NA	NA	NA	MW-41-40
	005			7/14/2006	8:45	9.83E+02	2.64E+02	2.07E+02	7.02E+00	2.83E+00	2.09E+00	3.44E+00	1.29E+01	1.63E+01	-2.31E+00	1.07E+01	1.29E+01	NA	NA	NA	
	006			8/16/2006	13:15	4.47E+02	1.95E+02	1.68E+02	NA	NA	NA	7.39E-01	6.84E+00	8.78E+00	1.70E-01	5.46E+00	7.51E+00	NA	NA	NA	
	007			11/13/2006	12:55	4.25E+02	1.38E+02	1.30E+02	4.64E+00	8.70E-01	6.90E-01	5.00E-01	5.70E+00	6.90E+00	1.30E+00	6.90E+00	8.20E+00	3.10E+00	5.70E+00	6.40E+00	
	008	36.0	18.9	6/19/2007	14:45	3.91E+03	7.32E+02	3.60E+02	5.99E+00	1.15E+00	7.49E-01	-3.09E+00	4.42E+00	3.28E+00	-3.47E-01	2.81E+00	3.01E+00	2.21E-01	1.27E+01	1.49E+01	
	009			8/14/2007	14:35	3.80E+02	1.97E+02	2.00E+02	5.96E+00	1.17E+00	7.45E-01	0.00E+00	3.52E+00	3.31E+00	1.40E+00	4.08E+00	4.00E+00	NA	NA	NA	
	010			1/24/2008	16:28	2.15E+02	1.80E+02	1.93E+02	3.05E+00	1.07E+00	7.54E-01	2.67E+00	2.55E+00	2.21E+00	-5.18E-01	2.00E+00	2.16E+00	NA	NA	NA	
MW-41-63	001	59.5	-4.6	4/12/2006	14:45	7.01E+02	2.03E+02	1.53E+02	5.49E+00	2.21E+00	1.60E+00	6.98E-01	2.27E+00	2.52E+00	-3.89E-02	2.68E+00	2.78E+00	NA	NA	NA	MW-41-63
	002			5/25/2006	10:20	3.61E+02	2.07E+02	1.92E+02	5.22E+00	1.53E+00	1.10E+00	7.91E-02	9.63E+00	1.15E+01	3.51E+00	7.87E+00	1.07E+01	NA	NA	NA	
	003			6/12/2006	10:05	2.68E+02	1.67E+02	1.52E+02	8.45E-01	5.28E-01	5.86E-01	8.20E-01	8.70E+00	9.55E+00	2.12E+00	7.05E+00	8.29E+00	NA	NA	NA	
	004			7/18/2006	13:04	2.43E+02	1.95E+02	1.92E+02	2.17E+00	9.90E-01	8.04E-01	3.04E+00	9.49E+00	1.11E+01	1.73E-01	8.00E+00	8.75E+00	NA	NA	NA	
	005			8/16/2006	13:00	3.56E+02	1.89E+02	1.70E+02	NA	NA	NA	3.69E+00	8.12E+00	1.03E+01	-1.55E+00	7.58E+00	7.11E+00	NA	NA	NA	
	006			11/13/2006	13:10	1.57E+02	1.35E+02	1.30E+02	2.06E+00	6.60E-01	6.60E-01	-1.60E+00	4.50E+00	5.70E+00	0.00E+00	5.40E+00	6.60E+00	3.00E+00	6.60E+00	7.30E+00	
	007	61.0	-6.1	6/20/2007	11:05	5.52E+02	1.97E+02	1.86E+02	7.08E+00	1.28E+00	6.27E-01	-3.10E-01	2.37E+00	2.65E+00	-1.06E-02	2.33E+00	2.65E+00	-4.39E-01	1.26E+01	1.48E+01	
	008			8/14/2007	16:10	5.47E102	2.04E102	1.99E102	3.55E100	9.02E-01	5.31E-01	-2.83E100	3.40E100	3.20E100	1.32E-01	3.48E100	3.87E100	NA	NA	NA	
	009			1/25/2008	10:05	3.03E+02	2.79E+02	2.93E+02	3.76E+00	1.13E+00	8.22E-01	0.00E+00	3.33E+00	1.89E+00	5.24E-02	1.64E+00	1.88E+00	NA	NA	NA	
MW-42-49	001	42.6	27.1	3/23/2006	11:15	2.63E+03	6.60E+02	5.89E+02	5.19E+01	1.72E+00	4.88E-01	1.02E+05	7.14E+02	1.00E+02	1.94E+02	2.78E+01	2.32E+01	NA	NA	NA	MW-42-49
	002			3/31/2006	9:29	2.49E+03	4.49E+02	2.37E+02	2.10E+01	9.96E-01	3.67E-01	6.55E+03	1.24E+02	2.76E+01	2.29E+01	2.10E+01	2.50E+01	NA	NA	NA	
	003			4/7/2006	17:52	2.51E+03	7.88E+02	7.37E+02	1.09E+02	2.16E+00	4.09E-01	8.11E+04	7.08E+02	1.01E+02	8.81E+01	2.52E+01	1.97E+01	2.22E+03	1.76E+02	5.84E+01	
	004	41.0	28.7	6/18/2007	15:00	1.34E+03	5.00E+02	3.74E+02	7.73E+01	4.04E+00	6.07E-01	1.90E+04	1.85E+03	1.31E+01	4.29E+00	3.71E+00	4.82E+00	1.03E+03	4.53E+01	1.44E+01	
	005			8/2/2007	14:37	1.50E+03	6.26E+02	5.53E+02	5.02E+01	2.96E+00	9.41E-01	2.48E+04	2.25E+03	2.17E+01	3.55E+00	4.61E+00	5.86E+00	8.05E+02	5.24E+01	2.19E+01	
	006			8/17/2007	9:30	1.60E103	2.49E102	1.71E102	2.01E101	2.01E100	6.03E-01	1.96E104	2.10E103	1.68E101	-4.63E-01	4.86E100	4.62E100	5.26E102	3.69E101	1.88E101	
	007			10/4/2007	12:40	2.46E+03	2.87E+02	1.93E+02	4.65E+01	3.12E+00	6.02E-01	3.69E+04	3.14E+03	1.83E+01	1.59E+01	6.25E+00	3.61E+00	1.17E+03	4.94E+01	1.88E+01	
	008			1/21/2008	16:11	1.32E+03	5.25E+02	4.15E+02	3.34E+01	3.18E+00	9.11E-01	3.38E+04	2.93E+03	2.02E+01	0.00E+00	4.13E+00	5.42E+00	5.01E+02	5.01E+01	2.68E+01	
MW-42-78	001	74.0	-4.3	3/24/2006	9:45	1.28E+03	5.87E+02	5.75E+02	3.09E-01	3.90E-01	4.08E-01	4.46E+03	1.36E+02	2.22E+01	1.08E+01	1.71E+01	2.08E+01	NA	NA	NA	MW-42-78
	002			4/7/2006	17:58	7.92E+02	7.04E+02	7.30E+02	1.03E-01	3.68E-01	3.98E-01	1.98E+03	1.19E+02	3.13E+01	-2.34E+00	2.35E+01	2.51E+01	3.66E+01	1.39E+01	1.43E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-42-78	003			6/18/2007	14:40	3.78E+02	1.88E+02	1.88E+02	3.83E-01	5.34E-01	5.78E-01	6.28E+01	1.21E+01	4.11E+00	2.31E+00	3.40E+00	4.00E+00	2.48E+00	1.32E+01	1.52E+01	
	004			7/27/2007	11:30	3.19E+02	1.94E+02	1.82E+02	-2.21E-01	4.50E-01	5.87E-01	0.00E+00	4.72E+00	3.48E+00	1.25E+00	3.12E+00	3.79E+00	6.81E+00	1.99E+01	2.28E+01	
	005			8/17/2007	9:56	4.61E+02	1.85E+02	1.75E+02	2.69E-01	6.60E-01	7.62E-01	4.51E+01	8.54E+00	4.06E+00	-7.27E-01	3.18E+00	2.76E+00	3.04E+00	1.71E+01	1.98E+01	
	006			10/4/2007	13:25	4.34E+02	1.94E+02	1.94E+02	2.33E-01	3.02E-01	3.43E-01	3.04E+02	3.44E+01	4.71E+00	3.10E+00	4.04E+00	5.18E+00	6.86E-01	1.53E+01	1.77E+01	
	007			1/21/2008	15:33	3.46E+02	1.89E+02	1.96E+02	-2.51E-01	6.81E-01	9.32E-01	1.08E+02	1.52E+01	3.35E+00	1.71E-01	3.33E+00	3.61E+00	9.73E+00	2.42E+01	2.75E+01	
MW-43-28	002	23.5	25.3	4/12/2006	12:45	3.46E+02	1.79E+02	1.59E+02	9.40E-02	7.40E-01	8.06E-01	-1.44E+00	2.52E+00	2.54E+00	1.56E+00	2.24E+00	2.56E+00	NA	NA	NA	MW-43-28
	003			5/25/2006	12:10	1.20E+02	1.83E+02	1.89E+02	2.65E+00	1.89E+00	1.77E+00	-8.64E-01	9.47E+00	1.03E+01	-1.33E-01	9.42E+00	1.06E+01	NA	NA	NA	
	004			6/12/2006	12:45	2.30E+02	1.62E+02	1.52E+02	1.39E-01	4.27E-01	5.27E-01	2.85E+00	6.93E+00	7.82E+00	-7.55E-01	5.93E+00	6.39E+00	NA	NA	NA	
	005			7/12/2006	9:40	1.09E+02	1.88E+02	1.95E+02	1.10E+00	1.69E+00	1.72E+00	2.41E+00	9.87E+00	1.11E+01	-7.95E-01	8.58E+00	9.11E+00	NA	NA	NA	
	006			8/16/2006	12:10	2.60E+02	1.83E+02	1.72E+02	NA	NA	NA	5.47E-01	8.43E-01	9.56E-01	-5.16E-01	7.70E-01	8.30E-01	NA	NA	NA	
	007	23.0	25.8	6/18/2007	13:30	2.78E+02	1.70E+02	1.74E+02	1.07E+00	5.97E-01	4.86E-01	-3.68E-01	3.13E+00	3.39E+00	-3.72E-01	3.31E+00	3.46E+00	3.58E+00	1.50E+01	1.73E+01	
	008			8/13/2007	11:35	9.56E+01	1.71E+02	1.93E+02	-6.25E-01	7.50E-01	1.02E+00	-7.36E-01	3.57E+00	3.68E+00	2.77E-01	2.70E+00	3.12E+00	NA	NA	NA	
	009			1/25/2008	11:11	3.06E+02	2.82E+02	2.96E+02	1.46E-01	6.06E-01	7.38E-01	1.88E+00	2.16E+00	2.66E+00	1.46E+00	2.51E+00	3.03E+00	8.44E+00	1.76E+01	1.99E+01	
MW-43-62	002	51.0	-2.2	4/12/2006	11:55	2.00E+02	1.65E+02	1.58E+02	4.34E-01	4.63E-01	4.83E-01	3.27E+00	4.04E+00	3.73E+00	1.82E+00	3.09E+00	3.47E+00	NA	NA	NA	MW-43-62
	003			5/25/2006	12:30	1.24E+02	1.77E+02	1.82E+02	3.23E-01	1.64E+00	1.77E+00	-1.21E+00	1.26E+01	1.36E+01	-2.10E+00	9.81E+00	1.02E+01	NA	NA	NA	
	004			6/12/2006	12:40	1.29E+02	1.40E+02	1.38E+02	1.25E+00	5.58E-01	5.86E-01	4.97E+00	7.02E+00	7.98E+00	-6.81E-01	7.19E+00	7.85E+00	NA	NA	NA	
	005			7/12/2006	10:05	2.04E+01	1.53E+02	1.65E+02	4.76E-01	1.46E+00	1.54E+00	1.34E+01	1.10E+01	1.36E+01	3.73E-01	1.01E+01	1.11E+01	NA	NA	NA	
	006			8/16/2006	11:55	1.08E+02	1.67E+02	1.70E+02	NA	NA	NA	2.23E-01	9.10E-01	1.01E+00	-1.95E-01	8.33E-01	9.13E-01	NA	NA	NA	
	007	54.0	-5.2	6/19/2007	9:36	1.97E+02	1.88E+02	2.02E+02	8.55E-01	6.58E-01	6.40E-01	-6.77E-01	3.21E+00	3.42E+00	-8.52E-01	3.10E+00	3.26E+00	1.38E+00	1.33E+01	1.55E+01	
	008			8/13/2007	12:42	1.14E+02	1.73E+02	1.92E+02	1.29E-01	6.90E-01	8.27E-01	-1.18E+00	3.65E+00	3.89E+00	1.53E-01	3.31E+00	3.80E+00	NA	NA	NA	
	009			1/25/2008	10:57	1.23E+02	1.74E+02	1.93E+02	1.00E+00	6.47E-01	5.52E-01	4.31E-01	2.42E+00	2.39E+00	-1.11E+00	2.07E+00	2.10E+00	3.76E+00	1.67E+01	1.91E+01	
MW-44-66	001	62.4	31.1	3/28/2006	14:05	3.38E+02	1.91E+02	1.73E+02	7.38E-02	1.53E+00	1.67E+00	6.54E-01	1.05E+01	1.17E+01	-2.87E+00	1.02E+01	1.09E+01	NA	NA	NA	MW-44-66
MW-44-66	002			5/24/2006	9:05	2.37E+02	1.97E+02	1.92E+02	7.41E-01	4.11E-01	4.45E-01	-3.07E-01	8.97E+00	9.69E+00	4.85E+00	9.06E+00	1.11E+01	NA	NA	NA	
	003			7/20/2006	11:15	8.92E+02	2.27E+02	1.63E+02	7.55E-01	1.22E+00	1.31E+00	3.54E+01	1.74E+01	9.59E+00	6.24E-01	7.37E+00	8.48E+00	NA	NA	NA	
	004	63.0	30.5	6/29/2007	15:00	2.68E+02	1.73E+02	1.84E+02	-4.25E-01	7.28E-01	9.04E-01	2.64E-01	3.03E+00	3.47E+00	7.78E-01	3.40E+00	3.98E+00	NA	NA	NA	
	005			8/14/2007	13:10	4.17E+02	1.98E+02	2.00E+02	9.30E-02	4.72E-01	5.75E-01	-8.93E-01	2.91E+00	3.08E+00	-3.39E-01	3.40E+00	3.11E+00	NA	NA	NA	
	006			10/31/2007	13:30	5.13E+02	1.82E+02	1.81E+02	3.77E-01	4.10E-01	4.21E-01	2.76E+00	4.29E+00	4.81E+00	1.91E+00	3.90E+00	4.71E+00	NA	NA	NA	
	007			1/24/2008	12:55	2.91E+02	2.00E+02	2.12E+02	2.85E-01	4.53E-01	4.99E-01	1.73E+01	4.35E+00	2.31E+00	1.40E+00	3.17E+00	2.43E+00	NA	NA	NA	
MW-44-102	001	91.0	2.5	6/13/2006	10:35	2.53E+02	2.01E+02	1.96E+02	3.53E-01	9.93E-01	1.26E+00	-3.22E+00	8.26E+00	8.67E+00	-7.71E-01	7.99E+00	8.52E+00	NA	NA	NA	MW-44-102
	002			7/20/2006	10:50	3.16E+02	1.82E+02	1.64E+02	-3.39E-01	1.05E+00	1.29E+00	-2.99E+00	9.39E+00	9.83E+00	-2.34E+00	9.50E+00	9.39E+00	NA	NA	NA	
	003			8/4/2006	9:40	7.61E+02	2.30E+02	1.81E+02	NA	NA	NA	-4.04E+00	8.10E+00	7.76E+00	-2.00E+00	7.01E+00	6.82E+00	NA	NA	NA	
	004			9/13/2006	11:30	2.67E+02	1.94E+02	2.00E+02	NA	NA	NA	7.19E+00	9.68E+00	1.12E+01	-4.76E-01	8.18E+00	8.99E+00	NA	NA	NA	
	005	80.0	13.5	6/19/2007	17:46	2.98E+02	1.76E+02	1.83E+02	-1.33E-01	4.81E-01	6.39E-01	1.88E+00	2.15E+00	2.63E+00	6.41E-01	2.02E+00	2.38E+00	-4.92E+00	1.31E+01	1.58E+01	
	006			8/14/2007	14:55	2.84E+02	1.89E+02	1.99E+02	1.97E-01	7.63E-01	8.99E-01	-1.46E+00	2.76E+00	2.77E+00	-1.35E+00	2.79E+00	2.73E+00	NA	NA	NA	
	007			10/31/2007	12:01	3.54E+02	1.76E+02	1.82E+02	-2.58E-01	7.75E-01	9.60E-01	-6.60E-01	2.88E+00	3.11E+00	-1.23E+00	3.60E+00	3.11E+00	NA	NA	NA	
	008			1/24/2008	13:05	4.17E+02	2.94E+02	2.96E+02	2.06E-01	5.16E-01	6.04E-01	1.18E+01	4.64E+00	3.19E+00	-4.44E-03	2.85E+00	3.11E+00	NA	NA	NA	
MW-45-42	001	34.4	19.2	4/4/2006	17:20	5.18E+02	2.22E+02	2.17E+02	8.83E-01	5.94E-01	5.95E-01	1.41E+01	1.35E+01	1.54E+01	-4.38E-02	1.22E+01	1.34E+01	NA	NA	NA	MW-45-42
	002			5/25/2006	9:25	1.82E+03	3.74E+02	2.45E+02	9.78E-01	1.14E+00	1.18E+00	-7.92E+00	1.21E+01	1.17E+01	-3.97E+00	1.21E+01	1.23E+01	NA	NA	NA	
	003			6/12/2006	10:45	2.27E+03	4.13E+02	2.15E+02	1.02E+00	6.80E-01	7.49E-01	9.06E-02	5.68E+00	6.29E+00	2.61E+00	5.68E+00	6.70E+00	NA	NA	NA	
	004			7/14/2006	9:30	4.19E+02	2.18E+02	2.00E+02	0.00E+00	1.45E+00	1.59E+00	1.22E+00	8.17E+00	9.27E+00	2.33E+00	9.82E+00	1.13E+01	NA	NA	NA	
	005			8/11/2006	10:00	3.16E+03	5.51E+02	2.71E+02	NA	NA	NA	-1.16E-01	1.51E+00	1.64E+00	-4.26E-01	1.40E+00	1.54E+00	NA	NA	NA	
	006			9/13/2006	11:50	4.15E+03	7.32E+02	3.27E+02	NA	NA	NA	-1.58E+00	5.85E+00	6.00E+00	-1.46E+00	5.39E+00	5.27E+00	NA	NA	NA	
	007			11/13/2006	13:20	5.25E+02	1.38E+02	1.40E+02	-7.10E-01	7.50E-01	8.50E-01	3.70E+00	5.40E+00	5.60E+00	5.00E-01	6.90E+00	8.30E+00	3.00E-01	3.60E+00	4.10E+00	
	008	37.0	16.6	6/21/2007	15:05	2.32E+03	6.27E+02	4.36E+02	-6.08E-02	6.25E-01	7.76E-01	1.31E-01	4.14E+00	4.59E+00	2.51E+00	2.82E+00	4.08E+00	3.58E+00	1.30E+01	1.49E+01	
	009			8/15/2007	11:30	1.16E+03	1.80E+02	1.47E+02	-3.79E-01	7.74E-01	9.47E-01	1.92E+00	2.76E+00	3.41E+00	1.19E+00	2.60E+00	3.23E+00	NA	NA	NA	
	010			10/5/2007	11:05	2.22E+03	3.05E+02	1.50E+02	3.55E-01	5.10E-01	5.56E-01	0.00E+00	4.13E+00	1.99E+00	3.65E-01	1.94E+00	2.21E+00	NA	NA	NA	
	011			1/25/2008	12:15	1.44E+03	3.90E+02	2.96E+02	2.08E-01	5.15E-01	6.03E-01	1.60E+00	2.43E+00	2.88E+00	5.96E-01	2.31E+00	2.66E+00	NA	NA	NA	
MW-45-61	001	57.7	-4.1	4/4/2006	17:00	2.98E+02	2.18E+02	2.23E+02	1.82E-01	5.03E-01	5.39E-01	8.62E+00	1.14E+01	1.32E+01	1.40E+00	1.02E+01	1.17E+01	NA	NA	NA	MW-45-61

IPEC00109853

See Page 18 for Notes

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-45-61	002			5/25/2006	9:10	1.71E+03	3.57E+02	2.37E+02	5.63E-01	9.81E-01	1.03E+00	7.76E-01	9.14E+00	1.02E+01	5.35E+00	1.06E+01	1.31E+01	NA	NA	NA	
	003			6/12/2006	11:00	1.02E+03	2.31E+02	1.56E+02	4.81E-01	5.85E-01	6.90E-01	-4.60E+00	6.63E+00	7.11E+00	9.35E-02	6.22E+00	7.59E+00	NA	NA	NA	
	004			7/20/2006	12:50	3.72E+02	1.88E+02	1.66E+02	0.00E+00	1.36E+00	1.59E+00	-3.98E-01	5.08E+00	5.30E+00	1.33E+00	3.96E+00	5.02E+00	NA	NA	NA	
	005			8/11/2006	9:45	1.35E103	2.88E102	1.91E102	NA	NA	NA	6.43E100	9.17E100	1.16E101	-8.33E-01	9.00E100	9.75E100	NA	NA	NA	
	006			9/13/2006	9:30	1.45E+03	3.09E+02	2.04E+02	NA	NA	NA	-6.55E+00	7.21E+00	5.92E+00	-3.06E+00	7.35E+00	6.87E+00	NA	NA	NA	
	007			11/13/2006	11:20	9.57E+02	1.44E+02	1.40E+02	1.73E+00	7.50E-01	7.60E-01	-3.00E-01	4.50E+00	5.30E+00	-3.20E+00	4.50E+00	6.30E+00	2.50E+00	6.60E+00	7.30E+00	
	008	58.0	-4.4	6/21/2007	12:55	1.47E+03	5.42E+02	4.34E+02	-7.02E-02	7.47E-01	9.67E-01	3.52E+00	4.72E+00	3.52E+00	-7.21E-01	3.56E+00	3.69E+00	3.35E+00	1.49E+01	1.71E+01	
	009			8/15/2007	11:55	1.50E+03	1.88E+02	1.41E+02	4.74E-02	7.90E-01	9.41E-01	3.33E+00	4.25E+00	4.03E+00	-6.51E-01	3.86E+00	3.59E+00	NA	NA	NA	
	010			10/5/2007	11:30	2.15E+03	3.03E+02	1.52E+02	4.87E-01	5.23E-01	5.36E-01	-1.73E-01	1.43E+00	1.56E+00	6.59E-02	1.46E+00	1.62E+00	NA	NA	NA	
	011			1/25/2008	11:55	2.66E+03	4.80E+02	2.96E+02	4.26E-01	5.76E-01	6.21E-01	2.42E+00	3.60E+00	2.52E+00	-2.05E-01	2.88E+00	3.19E+00	NA	NA	NA	
MW-46	002	18.1	0.0	4/12/2006	17:15	1.38E103	2.81E102	1.76E102	6.24E-01	4.82E-01	4.89E-01	9.28E-01	2.98E100	3.31E100	-5.36E-01	2.67E100	2.88E100	NA	NA	NA	MW-46
	003			5/24/2006	12:55	9.00E+02	1.71E+03	6.33E+02	3.07E-01	6.15E-01	7.47E-01	-7.06E-02	9.87E+00	1.18E+01	5.38E+00	8.80E+00	1.21E+01	NA	NA	NA	
	003			5/24/2006	12:55	6.23E+02	2.24E+02	1.87E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			6/13/2006	13:10	6.79E+01	1.80E+02	1.91E+02	3.46E-01	1.04E+00	1.33E+00	2.58E+00	7.28E+00	8.29E+00	-9.79E-01	8.23E+00	8.81E+00	NA	NA	NA	
	005			7/12/2006	13:23	7.86E+02	2.36E+02	1.92E+02	5.77E-01	1.21E+00	1.23E+00	3.98E+00	9.37E+00	1.09E+01	4.49E+00	8.68E+00	1.06E+01	NA	NA	NA	
	006			8/4/2006	8:40	1.15E+03	2.75E+02	1.98E+02	NA	NA	NA	1.15E+00	5.05E+00	6.52E+00	-3.50E+00	5.84E+00	5.97E+00	NA	NA	NA	
	007			9/13/2006	13:15	1.47E+03	3.30E+02	2.19E+02	NA	NA	NA	3.73E-01	6.01E+00	6.95E+00	2.75E+00	7.27E+00	6.27E+00	NA	NA	NA	
	008	10.5	7.6	6/14/2007	13:50	3.43E+03	5.64E+02	2.95E+02	2.15E-01	4.65E-01	5.35E-01	3.08E-01	3.92E+00	4.37E+00	8.52E-02	3.65E+00	4.09E+00	-1.05E+00	1.52E+01	1.78E+01	
	009			8/1/2007	11:35	6.62E+02	3.50E+02	2.44E+02	7.89E-02	3.66E-01	4.49E-01	6.63E-01	3.52E+00	3.80E+00	6.33E-02	2.43E+00	2.77E+00	NA	NA	NA	
	010			10/22/2007	14:20	1.67E+03	5.27E+02	4.01E+02	2.17E-01	4.72E-01	5.44E-01	4.68E-01	2.97E+00	3.34E+00	-7.20E-01	2.94E+00	3.09E+00	NA	NA	NA	
	011			1/22/2008	12:19	5.49E+02	1.74E+02	1.70E+02	5.30E-01	7.71E-01	8.47E-01	-3.99E-01	2.64E+00	2.84E+00	1.73E+00	2.61E+00	3.31E+00	NA	NA	NA	
MW-47-56	002	53.2	17.1	4/13/2006	12:05	7.60E+02	2.22E+02	1.67E+02	2.27E+00	7.65E-01	7.30E-01	8.27E-02	5.45E+00	5.95E+00	-4.55E-01	5.30E+00	5.77E+00	NA	NA	NA	MW-47-56
	003			7/18/2006	10:13	1.54E+02	1.95E+02	1.99E+02	1.91E-01	1.47E+00	1.59E+00	3.70E+00	7.80E+00	9.34E+00	2.47E+00	1.04E+01	1.29E+01	NA	NA	NA	
	004	52.0	18.3	6/20/2007	10:07	5.29E+02	1.95E+02	1.85E+02	5.93E-01	5.25E-01	5.10E-01	0.00E+00	6.66E+00	3.37E+00	3.57E+00	3.71E+00	4.73E+00	NA	NA	NA	
	004			6/20/2007	10:07	NA	NA	NA	NA	NA	NA	0.00E+00	4.28E+00	3.79E+00	1.63E+00	3.17E+00	3.79E+00	3.81E+00	1.32E+01	1.51E+01	
MW-47-56	005			8/10/2007	11:00	2.70E+02	1.88E+02	2.02E+02	5.07E-01	8.04E-01	8.91E-01	-3.84E-01	3.48E+00	3.75E+00	1.49E-01	2.94E+00	3.37E+00	NA	NA	NA	
MW-47-80	001	74.0	-3.7	4/13/2006	11:45	2.33E+03	4.28E+02	2.29E+02	2.73E+00	7.35E-01	6.53E-01	-5.82E-01	4.48E+00	5.14E+00	2.25E-01	3.91E+00	4.76E+00	NA	NA	NA	MW-47-80
	002			7/18/2006	8:51	1.87E+03	3.87E+02	2.58E+02	2.86E+00	1.43E+00	1.14E+00	1.67E+00	1.05E+01	1.19E+01	2.39E+00	9.21E+00	1.09E+01	NA	NA	NA	
	003	72.0	-1.7	6/19/2007	11:00	2.36E+03	5.94E+02	3.58E+02	3.27E+00	8.98E-01	5.28E-01	2.05E+00	3.81E+00	4.58E+00	-2.27E+00	4.82E+00	3.92E+00	4.08E-01	1.18E+01	1.38E+01	
	004			8/10/2007	12:21	3.51E+03	7.25E+02	4.52E+02	3.55E+00	1.21E+00	9.05E-01	-9.39E-02	3.21E+00	3.56E+00	-8.20E-02	3.18E+00	3.50E+00	NA	NA	NA	
MW-48-23	001	20.4	-5.0	2/8/06	10:10	1.66E+02	3.26E+02	3.42E+02	1.93E-01	5.04E-01	5.94E-01	-2.14E-01	1.04E+01	1.13E+01	1.46E+00	9.95E+00	1.12E+01	NA	NA	NA	MW-48-23
	002			4/12/06	9:58	1.24E+02	4.08E+02	4.52E+02	-1.10E-01	3.90E-01	4.40E-01	3.25E+00	9.75E+00	7.26E+00	2.49E+00	7.47E+00	6.18E+00	NA	NA	NA	
	003			4/27/06	13:42	2.38E+02	1.94E+02	2.03E+02	-2.50E-02	4.58E-01	5.04E-01	-1.88E+00	5.06E+00	5.65E+00	-1.19E-01	4.40E+00	5.27E+00	NA	NA	NA	
	004			5/22/06	10:30	7.55E+02	4.26E+02	4.46E+02	2.42E-01	2.88E-01	3.10E-01	3.22E+00	9.67E+00	7.12E+00	4.29E+00	1.29E+01	9.62E+00	NA	NA	NA	
	005			6/9/06	11:15	6.03E+01	4.39E+02	6.24E+02	3.70E-01	3.60E-01	4.00E-01	2.59E+00	7.76E+00	5.90E+00	3.25E+00	9.74E+00	7.61E+00	1.60E+01	1.53E+01	1.62E+01	
	005			6/9/06	11:15	2.95E+02	4.14E+02	4.53E+02	3.10E-01	9.88E-01	1.26E+00	1.09E+00	5.21E+00	5.80E+00	3.08E+00	5.41E+00	5.96E+00	NA	NA	NA	
	005			6/9/06	11:15	7.37E102	2.09E102	1.56E102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			7/6/06	12:00	4.21E+02	4.17E+02	4.52E+02	-2.20E-01	4.20E-01	4.90E-01	2.55E+00	7.64E+00	5.49E+00	2.60E+00	7.79E+00	5.78E+00	NA	NA	NA	
	007-S1			8/8/06	10:30	1.40E+02	4.05E+02	4.47E+02	NA	NA	NA	2.41E+00	7.23E+00	5.17E+00	2.11E+00	6.34E+00	4.76E+00	NA	NA	NA	
	007			8/8/06	10:30	1.04E+02	1.68E+02	1.72E+02	7.00E-02	6.30E-01	7.00E-01	1.93E+00	4.76E+00	5.56E+00	1.99E+00	4.41E+00	5.37E+00	NA	NA	NA	
	008			9/5/06	10:05	2.44E+01	1.59E+02	1.72E+02	-6.00E-02	7.80E-01	8.60E-01	-2.90E+00	7.82E+00	8.12E+00	1.05E-01	8.58E+00	1.02E+01	NA	NA	NA	
	008-S1			9/5/06	10:05	7.40E+02	4.20E+02	4.49E+02	NA	NA	NA	3.34E+00	1.00E+01	7.56E+00	3.32E+00	9.97E+00	8.01E+00	NA	NA	NA	
	009			11/22/06	9:23	1.67E+02	4.08E+02	4.50E+02	-7.00E-02	6.30E-01	7.10E-01	3.91E+00	1.17E+01	8.71E+00	3.22E+00	9.67E+00	7.76E+00	NA	NA	NA	
	010	15.8	-0.4	2/9/07	10:54	2.72E102	1.68E102	1.70E102	-1.60E-01	1.53E100	1.70E100	3.70E-01	1.80E100	2.00E100	8.30E-01	2.07E100	2.30E100	NA	NA	NA	
	011			8/16/07	11:00	3.93E+02	1.64E+02	1.61E+02	-3.94E-01	5.69E-01	8.47E-01	1.66E+00	4.92E+00	3.58E+00	5.36E-01	3.03E+00	3.55E+00	NA	NA	NA	
MW-48-37	001	36.0	-20.6	2/10/06	14:10	1.00E+01	4.26E+02	4.73E+02	NA	NA	NA	1.18E+00	3.54E+00	2.53E+00	2.07E+00	6.21E+00	4.39E+00	NA	NA	NA	MW-48-37
	002			4/12/06	10:00	-5.40E+01	4.02E+02	4.52E+02	2.10E-01	3.90E-01	4.30E-01	1.70E+00	5.09E+00	3.53E+00	3.34E+00	1.00E+01	6.89E+00	NA	NA	NA	
	003			4/27/06	13:20	-2.15E+02	1.77E+02	2.04E+02	-4.96E-02	3.79E-01	4.20E-01	7.95E+00	9.91E+00	1.01E+01	-3.17E-01	8.42E+00	9.20E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-48-37	004			5/22/06	10:00	1.39E+02	4.02E+02	4.46E+02	-1.20E-01	3.60E-01	4.10E-01	1.35E+00	4.05E+00	2.94E+00	2.31E+00	6.94E+00	5.00E+00	NA	NA	NA	
	005			6/9/06	11:30	1.66E+02	4.11E+02	4.53E+02	2.08E+00	4.50E-01	4.00E-01	2.40E+00	7.20E+00	4.95E+00	4.14E+00	1.24E+01	8.50E+00	4.58E+00	1.35E+01	1.46E+01	
	005			6/9/06	11:30	5.96E+02	1.38E+03	6.24E+02	1.05E-01	7.89E-01	1.03E+00	1.50E+00	5.71E+00	6.44E+00	-1.58E+00	5.25E+00	5.52E+00	NA	NA	NA	
	005			6/9/06	11:30	1.43E+02	1.67E+02	1.66E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			7/6/06	8:45	1.47E+02	4.08E+02	4.52E+02	1.70E-01	8.10E-01	8.80E-01	2.10E+00	6.31E+00	4.44E+00	4.21E+00	1.26E+01	8.77E+00	NA	NA	NA	
	007-S1			8/8/06	10:20	1.27E+02	4.08E+02	4.47E+02	NA	NA	NA	3.40E+00	1.02E+01	6.97E+00	5.94E+00	1.78E+01	1.22E+01	NA	NA	NA	
	007			8/8/06	10:20	1.09E+01	1.55E+02	1.69E+02	6.00E-02	6.90E-01	7.80E-01	1.86E+00	5.68E+00	6.65E+00	2.95E-01	5.29E+00	5.93E+00	NA	NA	NA	
	008			9/5/06	10:20	5.73E+02	2.12E+02	1.75E+02	0.00E+00	6.90E-01	7.70E-01	-2.86E-01	5.59E+00	6.04E+00	1.60E+00	5.35E+00	6.37E+00	NA	NA	NA	
	008-S1			9/5/06	10:20	2.00E+02	3.99E+02	4.47E+02	NA	NA	NA	1.94E+00	5.82E+00	4.05E+00	3.21E+00	9.62E+00	6.66E+00	NA	NA	NA	
	009			11/22/06	9:34	2.62E+02	4.11E+02	4.50E+02	0.00E+00	6.30E-01	7.00E-01	1.60E+00	4.80E+00	3.39E+00	3.58E+00	1.07E+01	7.47E+00	NA	NA	NA	
	010			2/9/07	10:59	2.70E+01	1.65E+02	1.70E+02	-1.40E-01	1.38E+00	1.50E+00	-6.10E-01	1.26E+00	1.50E+00	-4.70E-01	1.38E+00	1.60E+00	NA	NA	NA	
	011	35.8	-20.4	8/16/07	11:07	1.29E+02	1.59E+02	1.75E+02	4.11E-02	6.27E-01	7.94E-01	1.78E+00	4.35E+00	4.53E+00	-4.00E-01	4.51E+00	5.01E+00	NA	NA	NA	
MW-49-26	001	19.1	-4.1	3/22/2006	16:50	1.54E+04	2.81E+03	1.82E+03	1.84E+01	9.96E-01	4.29E-01	-5.28E-01	9.40E+00	1.02E+01	-1.35E+00	8.98E+00	9.69E+00	NA	NA	NA	MW-49-26
	003			5/19/2006	14:55	9.40E+03	1.50E+03	4.96E+02	9.03E+00	9.40E-01	5.45E-01	2.65E+00	7.87E+00	9.09E+00	1.15E+00	5.99E+00	6.92E+00	NA	NA	NA	
	003			5/19/2006	14:55	1.42E+04	6.75E+03	6.29E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			6/6/2006	9:55	1.40E+04	2.16E+03	4.95E+02	1.41E+01	1.17E+00	5.80E-01	6.14E+00	1.18E+01	1.41E+01	2.42E+00	1.02E+01	1.21E+01	NA	NA	NA	
	005			7/7/2006	9:15	1.00E+04	2.06E+03	1.51E+03	1.26E+01	2.67E+00	1.51E+00	1.38E+00	8.45E+00	9.49E+00	-1.98E+00	8.42E+00	8.90E+00	NA	NA	NA	
	006			8/1/2006	9:28	1.37E+04	1.13E+03	6.16E+02	NA	NA	NA	-5.93E+00	6.06E+00	4.56E+00	-3.09E+00	5.14E+00	4.31E+00	3.67E+01	3.09E+01	3.26E+01	
	007			8/28/2006	12:30	1.10E+04	1.12E+03	7.68E+02	NA	NA	NA	-2.69E+00	5.42E+00	5.50E+00	-3.57E+00	4.78E+00	3.71E+00	NA	NA	NA	
	008			11/15/2006	11:28	6.39E+03	1.38E+03	1.00E+03	1.55E+01	1.95E+00	7.70E-01	8.00E-01	3.00E+00	3.40E+00	-3.00E-01	4.20E+00	5.00E+00	8.40E+00	2.04E+01	2.20E+01	
	009	20.0	-5.3	6/26/2007	12:30	7.76E+03	3.48E+02	1.79E+02	1.27E+01	1.40E+00	7.13E-01	1.36E+00	2.55E+00	2.83E+00	-8.28E-01	2.23E+00	2.31E+00	-1.92E+00	1.28E+01	1.50E+01	
	010			8/9/2007	11:17	6.72E+03	9.50E+02	4.62E+02	1.43E+01	2.16E+00	9.06E-01	4.09E-01	3.72E+00	4.23E+00	2.50E+00	3.51E+00	4.54E+00	7.93E-01	2.07E+01	2.42E+01	
	011			1/28/2008	16:28	4.21E+03	5.76E+02	2.98E+02	2.29E+01	2.40E+00	8.52E-01	-1.19E+00	1.95E+00	2.07E+00	4.31E-01	1.97E+00	2.29E+00	5.16E+00	1.53E+01	1.75E+01	
MW-49-42	001	38.1	-23.4	3/22/2006	16:45	1.13E+04	2.55E+03	1.83E+03	1.94E+01	1.04E+00	4.30E-01	3.30E+00	1.19E+01	1.32E+01	-4.57E+00	1.11E+01	1.14E+01	NA	NA	NA	MW-49-42
MW-49-42	003			5/19/2006	15:07	9.39E+03	1.49E+03	4.90E+02	1.20E+01	9.57E-01	4.54E-01	2.16E+00	1.39E+01	1.56E+01	3.96E+00	1.40E+01	1.63E+01	NA	NA	NA	
	003			5/19/2006	15:07	8.83E+03	5.33E+03	6.29E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			6/6/2006	10:10	8.28E+03	1.32E+03	3.86E+02	1.63E+01	1.27E+00	5.67E-01	2.88E+00	1.37E+01	1.58E+01	-1.26E+00	1.07E+01	1.13E+01	NA	NA	NA	
	005			7/7/2006	9:15	5.85E+03	1.82E+03	1.52E+03	1.92E+01	3.23E+00	1.49E+00	2.01E+00	1.14E+01	1.30E+01	-1.61E+00	1.06E+01	1.11E+01	NA	NA	NA	
	006			8/1/2006	9:40	8.80E+03	9.68E+02	6.16E+02	NA	NA	NA	-4.22E+00	9.33E+00	8.64E+00	-1.94E+00	8.78E+00	8.99E+00	8.06E+00	9.86E+00	1.05E+01	
	007			8/28/2006	12:40	8.69E+03	9.57E+02	6.10E+02	NA	NA	NA	-8.31E-02	1.05E+01	1.16E+01	-6.74E+00	9.40E+00	6.18E+00	NA	NA	NA	
	008			11/15/2006	14:21	6.19E+03	1.38E+03	1.00E+03	2.11E+01	2.46E+00	8.10E-01	-6.60E-01	2.25E+00	2.60E+00	1.18E+00	2.34E+00	2.60E+00	2.60E+00	5.70E+00	6.20E+00	MW-49-42
	009	37.0	-22.3	6/26/2007	12:30	4.44E+03	2.90E+02	1.86E+02	2.08E+01	1.65E+00	6.22E-01	-3.62E-01	4.56E+00	4.32E+00	-2.09E+00	3.66E+00	3.54E+00	-5.19E+00	1.30E+01	1.54E+01	
	010			8/9/2007	12:05	4.30E+03	7.91E+02	4.59E+02	2.56E+01	2.77E+00	8.29E-01	-1.17E+00	3.27E+00	3.37E+00	2.77E+00	3.52E+00	4.56E+00	4.03E-01	2.10E+01	2.46E+01	
	011			1/28/2008	15:49	2.81E+03	4.92E+02	2.98E+02	2.94E+01	2.57E+00	5.58E-01	8.68E-01	2.10E+00	2.43E+00	8.96E-01	2.13E+00	2.52E+00	5.79E+00	1.73E+01	1.97E+01	
MW-49-65	001	60.0	-45.4	3/22/2006	16:55	5.43E+03	2.13E+03	1.82E+03	1.85E+01	1.01E+00	4.13E-01	1.36E+00	1.43E+01	1.72E+01	5.51E+00	1.37E+01	1.81E+01	NA	NA	NA	MW-49-65
	003			5/19/2006	15:55	5.70E+03	9.38E+02	3.84E+02	1.13E+01	8.98E-01	4.28E-01	-2.86E+00	8.51E+00	8.67E+00	-1.43E-01	9.39E+00	1.03E+01	NA	NA	NA	
	003			5/19/2006	15:55	5.75E+03	4.30E+03	6.29E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			6/6/2006	10:40	4.32E+03	7.20E+02	2.88E+02	1.72E+01	1.30E+00	6.17E-01	4.52E+00	1.41E+01	1.63E+01	4.24E+00	1.28E+01	1.52E+01	NA	NA	NA	
	005			7/7/2006	9:10	1.63E+03	1.73E+03	1.52E+03	1.56E+01	3.24E+00	1.86E+00	-2.76E+00	6.49E+00	6.88E+00	1.84E+00	6.45E+00	7.36E+00	NA	NA	NA	
	006			8/1/2006	10:00	5.76E+03	8.48E+02	6.14E+02	NA	NA	NA	-1.20E+00	6.84E+00	7.48E+00	-6.55E-01	8.18E+00	9.78E+00	5.75E+00	1.06E+01	1.15E+01	
	007			8/28/2006	12:35	5.54E+03	8.40E+02	6.16E+02	NA	NA	NA	-4.07E+00	9.28E+00	9.08E+00	-1.27E+00	7.42E+00	7.60E+00	NA	NA	NA	
	008			11/15/2006	13:46	3.04E+03	1.20E+03	1.00E+03	1.92E+01	2.31E+00	8.40E-01	2.12E+00	2.61E+00	2.80E+00	3.00E-01	2.07E+00	2.40E+00	-1.80E+00	6.90E+00	7.70E+00	
	009	61.0	-46.4	6/26/2007	12:30	2.62E+03	2.45E+02	1.85E+02	1.58E+01	1.58E+00	8.28E-01	-1.36E-03	3.06E+00	3.38E+00	-3.59E+00	4.30E+00	2.75E+00	-7.43E+00	1.41E+01	1.68E+01	
	010			8/9/2007	11:20	2.41E+03	6.42E+02	4.60E+02	2.08E+01	2.40E+00	9.11E-01	3.44E-01	2.76E+00	3.13E+00	1.65E+00	3.03E+00	3.73E+00	3.50E+00	2.14E+01	2.49E+01	
	011			1/28/2008	16:52	1.85E+03	4.22E+02	2.95E+02	2.73E+01	2.79E+00	6.29E-01	2.83E+00	3.72E+00	3.81E+00	-1.63E+00	3.17E+00	3.09E+00	1.01E+01	1.95E+01	2.20E+01	
MW-50-42	001	42.0	-27.1	3/22/2006	14:25	9.75E+03	5.78E+02	2.14E+02	1.93E+01	1.12E+00	4.76E-01	-1.36E+00	9.90E+00	1.13E+01	-5.74E-01	8.55E+00	1.02E+01	4.01E+00	1.34E+01	1.46E+01	MW-50-42
	003			5/19/2007	13:55	4.59E+03	7.74E+02	3.53E+02	1.95E+01	1.25E+00	4.77E-01	4.84E+00	8.95E+00	1.18E+01	-4.07E-01	8.17E+00	1.02E+01	NA	NA	NA	
	003			5/19/2007	13:55	4.58E+03	3.84E+03	6.30E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-50-42	004			6/7/2006	9:00	1.79E+02	1.89E+02	1.56E+02	3.94E+00	7.62E-01	6.06E-01	1.15E-01	7.81E+00	8.62E+00	-1.70E+00	7.37E+00	7.69E+00	NA	NA	NA	
	005			7/3/2006	11:35	3.98E+02	2.18E+02	2.02E+02	3.45E+00	2.00E+00	1.65E+00	6.90E+00	1.38E+01	1.65E+01	4.75E+00	1.04E+01	1.30E+01	NA	NA	NA	
	006			8/1/2006	11:20	1.41E+03	6.42E+02	6.14E+02	NA	NA	NA	8.99E+00	1.01E+01	1.33E+01	6.21E+00	9.26E+00	1.24E+01	1.12E+01	1.53E+01	1.64E+01	
	007			8/28/2006	11:50	3.11E+02	1.89E+02	1.76E+02	NA	NA	NA	1.97E+00	5.84E+00	6.74E+00	3.49E+00	6.36E+00	7.93E+00	NA	NA	NA	
	008			11/15/2006	11:50	1.70E+03	1.11E+03	1.00E+03	1.13E+01	1.56E+00	8.30E-01	7.20E+00	4.20E+00	4.30E+00	-9.00E-01	3.00E+00	3.80E+00	-1.20E+00	6.00E+00	6.70E+00	
	009	27.0	-12.1	6/26/2007	14:30	2.15E+02	1.71E+02	1.86E+02	1.16E+01	1.35E+00	7.64E-01	1.91E+00	4.44E+00	5.12E+00	-1.64E+00	4.29E+00	3.94E+00	-6.30E+00	1.84E+01	2.19E+01	
	010			7/26/2007	11:20	1.45E+02	1.74E+02	1.93E+02	1.94E+01	1.81E+00	5.31E-01	-5.50E+00	4.71E+00	3.68E+00	2.53E+00	3.39E+00	4.32E+00	4.92E+00	1.91E+01	2.19E+01	
	011			10/18/2007	14:08	1.01E+02	1.76E+02	1.97E+02	2.45E+01	2.52E+00	5.74E-01	3.02E-01	3.38E+00	3.87E+00	6.26E-01	3.75E+00	3.81E+00	-9.14E-01	1.62E+01	1.87E+01	
	012			1/15/2008	11:59	9.48E+02	4.79E+02	4.16E+02	2.93E+00	1.20E+00	8.57E-01	1.63E+01	5.79E+00	3.39E+00	-4.30E-01	3.47E+00	3.78E+00	1.24E+01	2.42E+01	2.72E+01	
	013			2/26/2008	12:19	6.13E+02	2.94E+02	2.87E+02	2.40E+00	8.61E-01	7.34E-01	-1.95E+00	4.80E+00	4.66E+00	1.77E+00	3.90E+00	4.68E+00	1.71E+01	2.40E+01	2.67E+01	
MW-50-66	001	67.0	-52.1	3/22/2006	14:50	6.81E+03	4.94E+02	2.13E+02	2.55E+01	1.21E+00	4.90E-01	-7.67E+00	1.60E+01	1.66E+01	-2.18E+00	1.68E+01	1.81E+01	5.33E+00	1.35E+01	1.47E+01	MW-50-66
	003			5/19/2007	15:20	1.08E+04	5.90E+03	6.30E+02	NA	NA	NA	3.23E+00	1.06E+01	1.23E+01	7.78E-01	1.12E+01	1.25E+01	NA	NA	NA	
	003			5/19/2007	15:20	9.61E+03	1.52E+03	4.94E+02	1.95E+01	1.22E+00	5.16E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			6/7/2006	9:20	1.05E+04	1.65E+03	4.29E+02	1.98E+01	1.18E+00	4.66E-01	-1.97E+00	8.71E+00	9.38E+00	2.49E+00	8.98E+00	1.04E+01	NA	NA	NA	
	005			7/3/2006	11:00	8.62E+03	2.00E+03	1.52E+03	2.53E+01	3.79E+00	1.67E+00	-2.04E+00	9.54E+00	1.02E+01	4.40E-01	8.34E+00	9.23E+00	NA	NA	NA	
	006			8/1/2006	9:28	7.93E+03	9.36E+02	6.16E+02	NA	NA	NA	5.59E-01	5.98E+00	6.68E+00	-4.31E+00	6.18E+00	5.00E+00	1.06E+01	1.06E+01	1.13E+01	
	007			8/28/2006	12:05	6.77E+03	1.59E+03	1.30E+03	NA	NA	NA	7.66E-02	4.67E+00	5.86E+00	1.34E+00	4.23E+00	5.88E+00	NA	NA	NA	
	008			11/15/2006	10:37	5.05E+03	1.32E+03	1.00E+03	2.15E+01	2.34E+00	8.10E-01	2.00E-01	3.30E+00	3.70E+00	2.60E+00	3.30E+00	3.50E+00	1.50E+00	5.70E+00	6.30E+00	
	009	60.0	-45.1	6/26/2007	14:02	4.21E+03	2.85E+02	1.86E+02	2.93E+01	1.86E+00	5.25E-01	-2.19E+00	2.64E+00	2.49E+00	1.63E-01	2.36E+00	2.74E+00	-6.05E-01	1.50E+01	1.74E+01	
	010			7/26/2007	11:25	4.50E+03	3.39E+02	2.04E+02	3.10E+01	2.50E+00	5.78E-01	-1.12E+00	4.54E+00	4.18E+00	1.08E-02	3.46E+00	3.94E+00	1.93E+01	1.86E+01	2.02E+01	
	011			10/18/2007	14:38	3.85E+03	6.53E+02	3.62E+02	4.74E+01	3.72E+00	7.97E-01	-2.28E+00	4.61E+00	4.36E+00	1.65E+00	4.20E+00	4.96E+00	-3.71E+00	1.58E+01	1.83E+01	
	012			1/15/2008	12:10	3.31E+03	7.20E+02	4.11E+02	3.56E+01	3.59E+00	7.13E-01	1.56E+01	5.00E+00	3.45E+00	6.31E-02	2.85E+00	3.18E+00	1.16E+01	2.25E+01	2.55E+01	
	013			2/26/2008	13:46	3.74E+03	7.98E+02	5.31E+02	3.58E+01	2.36E+00	7.40E-01	7.87E-01	2.69E+00	3.18E+00	2.54E-01	2.54E+00	2.96E+00	4.87E+00	1.86E+01	2.12E+01	
MW-51-40	001	39.7	28.0	5/30/2007	11:45	1.98E+02	1.65E+02	1.68E+02	-5.30E-01	6.73E-01	9.82E-01	1.04E-01	3.48E+00	3.77E+00	1.61E+00	3.23E+00	3.77E+00	NA	NA	NA	MW-51-40
	002			7/24/2007	15:30	2.23E+02	1.59E+02	1.60E+02	7.09E-02	4.71E-01	5.38E-01	1.65E-02	3.39E+00	3.85E+00	-1.32E+00	4.02E+00	4.13E+00	NA	NA	NA	
	003			10/2/2007	13:48	1.34E+02	1.77E+02	1.96E+02	-2.63E-01	3.09E-01	3.73E-01	5.15E+00	4.05E+00	3.08E+00	7.44E-01	1.85E+00	2.55E+00	NA	NA	NA	
	004			11/9/2007	15:40	1.47E+02	1.55E+02	1.70E+02	-8.16E-02	3.87E-01	4.52E-01	1.68E+00	2.96E+00	3.52E+00	-5.71E-02	3.15E+00	3.49E+00	NA	NA	NA	
	005			1/8/2008	10:47	5.86E+01	1.56E+02	1.79E+02	1.57E-01	6.77E-01	8.32E-01	1.83E-02	2.66E+00	2.93E+00	7.71E-01	2.75E+00	2.87E+00	NA	NA	NA	
MW-51-79	001	78.7	-11.0	5/30/2007	12:42	9.89E+01	1.55E+02	1.72E+02	-2.36E-01	6.98E-01	9.58E-01	2.20E+00	3.63E+00	3.90E+00	3.52E-01	3.31E+00	3.76E+00	NA	NA	NA	MW-51-79
MW-51-79	002			7/24/2007	17:00	4.24E+01	1.43E+02	1.67E+02	8.02E-03	5.35E-01	6.15E-01	-6.37E-01	3.88E+00	4.21E+00	-2.83E-01	4.51E+00	4.93E+00	NA	NA	NA	
	003			10/2/2007	13:54	-2.51E+01	1.65E+02	1.94E+02	6.94E-02	2.85E-01	3.27E-01	5.37E+00	5.07E+00	3.26E+00	1.84E+00	2.82E+00	3.27E+00	NA	NA	NA	
	004			11/9/2007	16:18	5.00E+01	1.50E+02	1.71E+02	-4.97E-02	2.99E-01	3.52E-01	2.66E+00	2.97E+00	3.56E+00	-2.43E-01	4.02E+00	4.45E+00	NA	NA	NA	
	005			1/8/2008	10:08	9.26E+01	1.59E+02	1.79E+02	-4.64E-01	7.01E-01	9.74E-01	-7.91E-01	2.22E+00	2.42E+00	2.58E-01	2.37E+00	2.70E+00	NA	NA	NA	
MW-51-104	001	103.7	-36.0	5/30/2007	11:05	5.71E+01	1.48E+02	1.71E+02	-6.74E-02	7.59E-01	9.90E-01	1.25E+00	3.27E+00	3.35E+00	7.70E-02	3.25E+00	3.62E+00	NA	NA	NA	MW-51-104
	002			7/24/2007	17:06	9.07E+01	1.47E+02	1.64E+02	3.62E-01	4.86E-01	5.41E-01	-4.20E+00	4.62E+00	3.92E+00	1.42E+00	4.44E+00	5.33E+00	NA	NA	NA	
	003			10/2/2007	11:45	3.67E+01	1.68E+02	1.94E+02	4.21E-02	4.45E-01	5.08E-01	5.71E+00	5.87E+00	4.25E+00	-8.32E-01	4.11E+00	3.68E+00	NA	NA	NA	
	004			11/9/2007	14:35	5.17E+01	1.50E+02	1.70E+02	-2.40E-01	3.18E-01	3.86E-01	-1.26E+00	2.85E+00	2.92E+00	1.15E+00	2.61E+00	3.18E+00	NA	NA	NA	
	005			1/8/2008	12:15	-4.84E+00	1.45E+02	1.78E+02	-6.19E-02	7.22E-01	9.34E-01	-9.37E-01	2.09E+00	2.26E+00	-3.84E-01	2.54E+00	2.50E+00	NA	NA	NA	
MW-51-135	001	135.2	-67.5	5/30/2007	13:00	8.24E+01	1.50E+02	1.70E+02	-4.68E-01	5.53E-01	8.40E-01	-4.01E-01	3.62E+00	4.03E+00	2.56E+00	3.84E+00	4.48E+00	NA	NA	NA	MW-51-135
	002			7/24/2007	12:40	9.51E+01	1.43E+02	1.59E+02	5.33E-02	5.04E-01	5.76E-01	-4.56E-01	4.07E+00	4.36E+00	3.42E-01	3.30E+00	3.84E+00	NA	NA	NA	
	003			10/2/2007	12:05	3.04E+01	1.71E+02	1.96E+02	-3.08E-02	4.26E-01	5.49E-01	2.16E+01	5.76E+00	2.86E+00	5.46E-01	2.50E+00	2.92E+00	NA	NA	NA	
	004			11/9/2007	11:55	9.83E+01	1.53E+02	1.72E+02	-2.42E-01	2.54E-01	3.18E-01	-7.27E-01	3.46E+00	3.70E+00	-3.14E-01	3.29E+00	3.66E+00	NA	NA	NA	
	005			1/8/2008	13:20	4.91E+01	1.55E+02	1.80E+02	3.47E-02	7.04E-01	8.79E-01	6.30E-02	1.88E+00	2.09E+00	1.43E-02	1.71E+00	1.90E+00	NA	NA	NA	
MW-51-163	001	162.7	-95.0	5/30/2007	14:40	1.18E+02	1.56E+02	1.69E+02	3.29E-01	1.16E+00	1.36E+00	-2.81E-01	3.09E+00	3.45E+00	1.77E-01	2.82E+00	3.20E+00	NA	NA	NA	MW-51-163
	002			7/24/2007	14:05	4.98E+01	1.44E+02	1.66E+02	1.05E-01	4.58E-01	5.21E-01	-2.43E-01	3.44E+00	3.78E+00	8.64E-02	3.25E+00	3.63E+00	NA	NA	NA	
	003			10/2/2007	13:35	4.23E+01	1.71E+02	1.96E+02	8.07E-02	3.20E-01	3.64E-01	1.16E+01	7.20E+00	4.49E+00	2.11E+00	4.02E+00	4.89E+00	NA	NA	NA	
	004			11/9/2007	13:32	7.30E+01	1.52E+02	1.71E+02	2.08E-01	2.82E-01	3.12E-01	1.41E-01	3.54E+00	3.51E+00	-1.11E+00	3.01E+00	3.11E+00	NA	NA	NA	
	005			1/8/2008	13:57	-1.99E+01	1.47E+02	1.82E+02	4.40E-01	8.22E-01	9.29E-01	-1.74E+00	2.66E+00	2.46E+00	8.69E-02	2.15E+00	2.44E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-51-189	001	189.2	-121.5	5/30/2007	14:00	1.87E+02	1.67E+02	1.71E+02	-2.88E-02	8.90E-01	1.11E+00	-3.62E-02	3.98E+00	3.82E+00	4.56E+00	3.57E+00	4.63E+00	NA	NA	NA	MW-51-189
	002			7/24/2007	13:15	9.49E+01	1.46E+02	1.63E+02	3.93E-01	4.08E-01	4.48E-01	-8.87E-01	4.11E+00	3.58E+00	1.57E+00	4.02E+00	4.31E+00	NA	NA	NA	
	003			10/2/2007	12:20	8.45E+00	1.70E+02	1.96E+02	-5.06E-02	2.16E-01	2.58E-01	1.38E+01	5.45E+00	2.92E+00	-4.14E-01	2.79E+00	3.04E+00	NA	NA	NA	
	004			11/9/2007	13:05	-6.26E+00	1.48E+02	1.71E+02	1.93E-01	3.61E-01	4.08E-01	3.04E+00	3.27E+00	4.07E+00	-8.07E-02	3.65E+00	4.05E+00	NA	NA	NA	
	005			1/8/2008	13:10	-4.82E+00	1.44E+02	1.77E+02	-3.17E-02	7.01E-01	8.92E-01	1.35E+00	2.13E+00	2.49E+00	1.42E+00	1.98E+00	2.41E+00	NA	NA	NA	
MW-52-11	001	10.0	6.8	6/20/2007	12:35	1.47E+02	1.68E+02	1.84E+02	-3.58E-01	6.33E-01	8.33E-01	1.96E+00	2.54E+00	2.99E+00	6.12E-01	2.29E+00	2.65E+00	-4.56E+00	1.28E+01	1.54E+01	MW-52-11
	002			8/6/2007	16:18	7.71E+01	1.73E+02	1.94E+02	-5.43E-01	6.12E-01	9.38E-01	-2.16E+00	3.42E+00	3.23E+00	3.39E-02	2.79E+00	3.12E+00	NA	NA	NA	
MW-52-18	001	17.5	-2.6	5/24/2007	10:44	1.62E+02	1.52E+02	1.65E+02	-2.20E-01	4.98E-01	7.30E-01	6.53E-01	3.19E+00	3.74E+00	3.13E+00	3.30E+00	4.22E+00	-1.09E+00	9.82E+00	1.14E+01	MW-52-18
	002			8/6/2007	13:45	6.73E+01	1.74E+02	1.96E+02	-7.91E-02	6.92E-01	8.93E-01	-1.43E+00	3.54E+00	3.67E+00	1.11E-01	3.15E+00	3.54E+00	NA	NA	NA	
MW-52-48	001	48.0	-33.1	5/24/2007	11:35	7.02E+01	1.48E+02	1.67E+02	-3.61E-01	7.44E-01	1.01E+00	3.66E-01	2.94E+00	3.39E+00	-9.91E-01	3.03E+00	3.11E+00	-2.74E+00	8.16E+00	9.55E+00	MW-52-48
	002			8/6/2007	14:00	1.15E+02	1.76E+02	1.96E+02	-5.59E-01	4.83E-01	7.33E-01	7.85E-01	3.24E+00	3.75E+00	4.31E-01	3.29E+00	3.75E+00	NA	NA	NA	
MW-52-64	001	64.0	-49.1	5/24/2007	14:44	3.82E+00	1.70E+02	1.98E+02	-3.20E-01	7.68E-01	9.77E-01	-1.03E+00	3.25E+00	3.45E+00	8.00E-01	3.54E+00	4.11E+00	-2.85E+00	9.12E+00	1.07E+01	MW-52-64
	002			8/6/2007	15:50	3.72E+01	1.71E+02	1.96E+02	-1.70E-02	7.22E-01	9.23E-01	5.10E-01	3.50E+00	3.68E+00	1.80E+00	6.08E+00	4.12E+00	NA	NA	NA	
MW-52-122	001	122.0	-107.1	5/24/2007	14:55	6.78E+01	1.47E+02	1.66E+02	-4.24E-01	6.62E-01	9.64E-01	2.52E+00	3.59E+00	3.62E+00	-1.76E+00	3.38E+00	3.29E+00	-1.94E+00	9.68E+00	1.13E+01	MW-52-122
	002			8/6/2007	12:05	4.42E+01	1.71E+02	1.96E+02	-4.19E-01	7.10E-01	9.60E-01	1.99E+00	4.09E+00	4.34E+00	2.10E-01	4.13E+00	4.70E+00	NA	NA	NA	
MW-52-162	001	161.5	-146.6	5/24/2007	11:55	2.82E+02	1.95E+02	2.03E+02	-5.15E-01	4.87E-01	8.12E-01	-5.80E-01	3.59E+00	3.29E+00	1.59E+00	3.15E+00	3.88E+00	-7.54E-01	9.75E+00	1.13E+01	MW-52-162
	002			8/6/2007	11:30	2.11E+02	1.80E+02	1.95E+02	1.53E-02	4.79E-01	6.03E-01	3.61E-02	3.44E+00	3.77E+00	-3.73E-02	3.12E+00	3.52E+00	NA	NA	NA	
MW-52-181	001	181.0	-166.1	5/24/2007	12:06	2.48E+02	1.94E+02	2.04E+02	-3.19E-01	5.07E-01	7.58E-01	-5.99E-01	3.30E+00	3.52E+00	-2.81E-01	3.74E+00	4.19E+00	-2.23E-01	1.01E+01	1.17E+01	MW-52-181
	002			8/6/2007	11:40	1.19E+02	1.77E+02	1.97E+02	5.84E-02	5.56E-01	6.77E-01	-1.21E+00	2.87E+00	2.97E+00	1.28E+00	2.96E+00	3.57E+00	NA	NA	NA	
MW-53-82	001	72.7	-2.4	8/23/2006	12:50	1.18E+04	1.85E+03	5.02E+02	6.68E+00	3.10E+00	2.74E+00	-3.52E+00	7.20E+00	6.64E+00	1.30E+00	1.02E+01	1.16E+01	4.44E+00	9.39E+00	1.02E+01	MW-53-82
	001			8/23/2006	12:50	1.32E+04	1.11E+03	6.12E+02	NA	NA	NA	9.35E-01	5.78E+00	6.37E+00	1.36E+00	5.70E+00	6.30E+00	NA	NA	NA	
	002			11/9/2006	11:15	4.54E+02	1.38E+02	1.40E+02	8.00E-02	8.10E-01	9.00E-01	-1.20E+00	3.00E+00	3.60E+00	-1.30E+00	3.30E+00	4.00E+00	1.30E+00	4.20E+00	4.60E+00	
	003	75.0	-4.7	6/22/2007	15:30	8.68E+03	1.05E+03	4.31E+02	3.98E+00	1.45E+00	1.04E+00	3.81E+00	3.78E+00	4.53E+00	1.95E+00	3.62E+00	4.63E+00	4.53E+00	1.54E+01	1.77E+01	
	004			8/9/2007	11:31	7.76E+02	2.06E+02	2.04E+02	-3.41E-02	6.87E-01	8.82E-01	6.29E-01	2.33E+00	2.76E+00	-1.05E+00	2.17E+00	2.17E+00	-2.21E+00	1.99E+01	2.36E+01	
	005			10/24/2007	13:53	1.11E+03	4.71E+02	4.03E+02	2.35E-01	3.11E-01	3.43E-01	3.07E-01	2.71E+00	3.05E+00	-1.06E+00	2.44E+00	2.38E+00	-1.59E+00	2.09E+01	2.41E+01	
	006			1/21/2008	12:52	9.42E+02	1.86E+02	1.71E+02	2.19E-01	4.28E-01	4.87E-01	0.00E+00	5.42E+00	3.23E+00	-1.36E+00	2.84E+00	2.84E+00	3.84E+00	1.85E+01	2.11E+01	
MW-53-120	001	109.8	-39.5	8/30/2006	11:30	4.42E+03	1.25E+03	1.12E+03	NA	NA	NA	-6.13E+00	9.49E+00	9.40E+00	4.98E-01	8.95E+00	9.83E+00	NA	NA	NA	MW-53-120
	002			11/9/2006	11:20	7.90E+03	1.47E+03	1.00E+03	2.47E+01	1.83E+00	7.90E-01	-4.60E-01	2.70E+00	3.10E+00	-3.50E-01	2.76E+00	3.30E+00	2.71E+01	1.32E+01	1.30E+01	
	003	105.0	-34.7	6/22/2007	14:22	9.61E+03	1.10E+03	4.32E+02	3.57E+01	3.69E+00	1.04E+00	7.93E+00	5.09E+00	2.84E+00	9.47E-01	3.15E+00	3.72E+00	1.73E+01	1.38E+01	1.47E+01	
	004			8/9/2007	12:45	8.05E+03	1.02E+03	4.59E+02	3.70E+01	3.18E+00	9.24E-01	1.37E+00	3.62E+00	4.27E+00	-1.59E-01	3.74E+00	4.17E+00	1.95E+01	2.14E+01	2.35E+01	
	005			10/24/2007	13:38	7.40E+03	9.29E+02	4.02E+02	3.81E+01	2.27E+00	4.82E-01	-5.34E-01	3.51E+00	3.29E+00	-2.23E-01	3.35E+00	3.72E+00	7.06E+00	2.10E+01	2.38E+01	
	006			1/21/2008	10:43	7.48E+03	3.48E+02	1.72E+02	3.12E+01	2.40E+00	6.46E-01	1.38E+00	3.02E+00	3.18E+00	1.14E-01	3.30E+00	3.71E+00	1.71E+01	1.85E+01	2.02E+01	
MW-54-37	001	36.5	-23.4	5/3/2007	16:19	8.01E+02	3.14E+02	3.02E+02	1.25E+01	2.12E+00	7.94E-01	2.44E+00	3.63E+00	4.42E+00	-1.43E+00	2.71E+00	2.51E+00	6.09E+00	1.98E+01	2.27E+01	MW-54-37
	002			7/31/2007	10:30	8.88E+02	4.14E+02	2.68E+02	5.30E+00	1.11E+00	6.26E-01	1.46E+00	2.54E+00	3.03E+00	-2.64E-02	2.82E+00	3.13E+00	-4.74E+00	1.83E+01	2.14E+01	
MW-54-37	003			10/19/2007	13:25	1.04E+03	4.26E+02	3.66E+02	6.19E+00	1.37E+00	6.14E-01	6.04E-01	3.30E+00	3.84E+00	6.61E-01	3.54E+00	4.19E+00	1.04E+01	1.59E+01	1.77E+01	
	004			1/15/2008	13:18	1.07E+03	4.97E+02	4.18E+02	5.79E+00	1.47E+00	7.26E-01	7.48E-02	2.81E+00	3.11E+00	1.03E+00	2.79E+00	3.00E+00	-1.88E-01	2.06E+01	2.43E+01	
MW-54-58	001	57.5	-44.4	5/3/2007	16:45	7.60E+02	3.11E+02	3.02E+02	2.22E+00	9.99E-01	7.02E-01	-3.77E-01	2.81E+00	3.07E+00	1.15E-01	2.71E+00	3.09E+00	7.50E+00	1.88E+01	2.12E+01	MW-54-58
	002			7/31/2007	9:55	6.93E+02	3.72E+02	2.62E+02	1.76E+00	8.53E-01	7.52E-01	-1.32E+00	3.12E+00	3.23E+00	8.17E-03	3.01E+00	3.35E+00	1.97E-01	1.80E+01	2.08E+01	
	003			10/19/2007	13:35	5.61E+02	2.00E+02	1.94E+02	4.38E-01	8.43E-01	9.56E-01	-2.08E-01	3.03E+00	3.40E+00	3.56E-01	2.96E+00	3.39E+00	2.09E+00	1.59E+01	1.81E+01	
	004			1/15/2008	13:45	6.47E+02	4.40E+02	4.18E+02	2.32E+00	1.09E+00	8.13E-01	2.16E+00	4.59E+00	3.18E+00	-7.34E-01	3.06E+00	3.27E+00	4.41E+00	2.34E+01	2.71E+01	
MW-54-123	001	123.0	-109.9	5/3/2007	14:18	1.11E+03	3.75E+02	3.36E+02	2.19E+01	2.71E+00	8.06E-01	4.21E+00	3.50E+00	3.67E+00	-2.65E+00	7.07E+00	3.31E+00	7.45E+00	1.79E+01	2.03E+01	MW-54-123
	002			7/31/2007	11:10	9.63E+02	4.29E+02	3.69E+02	1.35E+01	1.47E+00	8.87E-01	0.00E+00	4.68E+00	4.49E+00	2.96E+00	4.02E+00	5.06E+00	-3.63E+00	1.86E+01	2.17E+01	
	003			10/19/2007	12:09	7.01E+02	3.87E+02	3.62E+02	1.16E+01	1.88E+00	8.13E-01	4.02E-02	3.51E+00	3.88E+00	-1.72E+00	3.65E+00	3.68E+00	-4.31E-01	2.19E+01	2.51E+01	
	004			1/15/2008	10:52	5.33E+02	4.23E+02	4.18E+02	9.56E+00	1.92E+00	7.51E-01	8.25E-01	3.48E+00	3.94E+00	4.41E-01	3.00E+00	3.42E+00	6.86E+00	2.25E+01	2.58E+01	
MW-54-144	001	144.0	-130.9	5/3/2007	14:31	1.34E+03	5.64E+02	4.68E+02	1.61E+01	2.42E+00	6.97E-01	-1.34E+00	3.62E+00	3.78E+00	5.23E-01	3.36E+00	3.84E+00	4.64E+00	1.68E+01	1.93E+01	MW-54-144
	002			7/31/2007	13:33	1.89E+03	5.67E+02	2.66E+02	1.92E+01	1.98E+00	6.71E-01	-1.19E+00	2.90E+00	3.03E+00	5.02E-02	3.33E+00	3.77E+00	-6.13E+00	1.89E+01	2.23E+01	
	003			10/19/2007	12:12	1.54E+03	4.73E+02	3.62E+02	1.58E+01	2.15E+00	7.69E-01	8.53E-01	2.85E+00	3.35E+00	-4.41E-01	3.18E+00	3.39E+00	4.35E-01	1.54E+01	1.78E+01	
	004			1/15/2008	11:22	1.40E+03	5.34E+02	4.16E+02	1.53E+01	2.34E+00	8.48E-01	3.67E+00	5.04E+00	4.39E+00	4.86E-02	3.96E+00	4.34E+00	9.81E+00	2.24E+01	2.54E+01	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-54-173	001	172.5	-159.4	5/3/2007	14:43	1.90E+03	6.27E+02	4.71E+02	2.09E+01	2.64E+00	8.31E-01	-4.52E-01	3.82E+00	4.16E+00	1.92E+00	3.46E+00	4.27E+00	5.00E+00	1.94E+01	2.21E+01	MW-54-173
	002			7/31/2007	13:40	2.08E+03	5.94E+02	2.68E+02	1.45E+01	1.85E+00	8.29E-01	7.90E-01	2.63E+00	3.10E+00	7.75E-01	2.22E+00	2.74E+00	3.92E+00	1.81E+01	2.07E+01	
	003			10/19/2007	12:14	1.91E+03	5.07E+02	3.63E+02	1.49E+01	2.07E+00	6.21E-01	1.05E+00	3.29E+00	3.79E+00	-3.08E-01	2.87E+00	3.18E+00	1.37E+00	1.49E+01	1.70E+01	
	004			1/15/2008	11:15	1.84E+03	5.84E+02	4.16E+02	1.41E+01	1.80E+00	9.29E-01	-3.68E-01	2.81E+00	3.08E+00	5.21E-01	3.00E+00	3.49E+00	4.79E+00	2.30E+01	2.65E+01	
MW-54-190	001	190.0	-176.9	5/3/2007	15:00	1.87E+03	6.23E+02	4.71E+02	1.95E+01	2.56E+00	7.00E-01	1.82E+00	3.23E+00	3.90E+00	3.32E-01	2.90E+00	3.30E+00	1.54E+00	1.88E+01	2.18E+01	MW-54-190
	002			7/31/2007	13:45	2.25E+03	6.12E+02	2.66E+02	1.79E+01	2.15E+00	7.59E-01	-2.13E+00	3.35E+00	3.12E+00	9.32E-01	3.09E+00	3.67E+00	-3.07E+00	1.66E+01	1.94E+01	
	003			10/19/2007	12:20	2.13E+03	5.24E+02	3.60E+02	2.04E+01	2.46E+00	7.97E-01	-1.04E+00	3.45E+00	3.07E+00	7.41E-01	4.05E+00	3.33E+00	-3.38E+00	1.71E+01	1.97E+01	
	004			1/15/2008	11:37	2.24E+03	6.26E+02	4.16E+02	1.93E+01	2.54E+00	8.15E-01	6.45E-01	2.64E+00	3.11E+00	-3.88E-01	2.28E+00	2.50E+00	9.23E+00	2.42E+01	2.75E+01	
MW-55-24	001	19.1	-0.8	11/9/2006	13:20	2.00E+03	1.11E+03	1.00E+03	1.66E+01	2.40E+00	1.90E+00	-7.00E-01	4.50E+00	5.80E+00	4.00E-01	5.40E+00	6.70E+00	1.10E+00	5.40E+00	6.00E+00	MW-55-24
	002	16.0	2.3	6/28/2007	11:20	3.08E+03	2.96E+02	1.87E+02	3.25E+01	3.51E+00	1.06E+00	0.00E+00	4.00E+00	3.70E+00	1.16E+00	3.81E+00	4.60E+00	NA	NA	NA	
	003			8/2/2007	11:17	2.71E+03	7.28E+02	5.47E+02	2.31E+01	2.67E+00	9.19E-01	-4.91E-01	2.79E+00	3.02E+00	1.40E+00	2.94E+00	3.47E+00	-7.94E+00	1.91E+01	2.31E+01	
	004			10/16/2007	10:15	2.20E+03	5.36E+02	3.68E+02	2.29E+01	2.61E+00	8.43E-01	6.26E-01	3.63E+00	4.21E+00	7.46E-01	3.29E+00	3.47E+00	NA	NA	NA	
	005			1/28/2008	12:57	1.14E+03	3.65E+02	2.96E+02	2.26E+01	2.46E+00	9.24E-01	3.33E+00	3.26E+00	2.50E+00	1.04E+00	1.55E+00	2.51E+00	1.44E+01	1.82E+01	2.00E+01	
MW-55-35	001	32.4	-14.2	11/9/2006	13:40	9.04E+03	1.50E+03	1.00E+03	4.04E+01	4.80E+00	3.30E+00	-1.10E+00	3.30E+00	3.90E+00	-5.00E-01	3.30E+00	4.10E+00	4.30E+00	5.40E+00	5.80E+00	MW-55-35
	002	32.0	-13.8	6/28/2007	11:50	3.09E+03	2.93E+02	1.84E+02	3.25E+01	3.31E+00	9.74E-01	-4.64E-01	3.46E+00	3.78E+00	-1.00E+00	3.62E+00	3.75E+00	NA	NA	NA	
	003			8/2/2007	11:20	3.68E+03	7.91E+02	5.33E+02	3.40E+01	3.45E+00	8.95E-01	9.35E-01	3.19E+00	3.24E+00	7.69E-01	2.23E+00	2.70E+00	2.90E+00	1.96E+01	2.28E+01	
	004			10/16/2007	10:02	5.09E+03	7.34E+02	3.63E+02	3.16E+01	3.04E+00	1.04E+00	2.62E+00	3.36E+00	3.58E+00	1.44E+00	3.44E+00	4.20E+00	NA	NA	NA	
	005			1/28/2008	11:46	2.33E+03	4.59E+02	2.97E+02	2.64E+01	2.60E+00	5.21E-01	-5.28E-01	2.12E+00	2.26E+00	-6.90E-01	2.19E+00	2.32E+00	1.12E+01	1.76E+01	1.96E+01	
MW-55-54	001	49.0	-30.8	11/9/2006	13:30	1.31E+04	1.68E+03	1.00E+03	2.28E+01	1.35E+00	8.10E-01	1.00E+00	3.30E+00	3.80E+00	-3.20E+00	4.50E+00	5.70E+00	1.70E+00	4.80E+00	5.40E+00	MW-55-54
	002	47.0	-28.8	6/28/2007	11:40	1.04E+04	4.79E+02	1.84E+02	2.47E+01	2.88E+00	9.85E-01	1.30E-01	3.09E+00	3.43E+00	-4.69E-01	3.27E+00	3.48E+00	NA	NA	NA	
	003			8/2/2007	12:00	9.91E+03	1.19E+03	5.51E+02	2.22E+01	2.38E+00	9.10E-01	-1.09E+00	3.69E+00	3.80E+00	1.46E+00	2.87E+00	3.56E+00	6.13E+00	1.99E+01	2.28E+01	
	004			10/16/2007	10:05	1.03E+04	9.96E+02	3.61E+02	2.23E+01	2.49E+00	6.15E-01	-9.80E-01	2.82E+00	3.02E+00	8.80E-01	3.65E+00	2.99E+00	NA	NA	NA	
	005			1/28/2008	11:42	7.48E+03	7.35E+02	2.97E+02	2.28E+01	2.40E+00	5.39E-01	-8.47E-01	2.16E+00	2.30E+00	-1.29E+00	2.81E+00	2.20E+00	1.09E+01	1.86E+01	2.09E+01	
MW-56-53	001	52.5	17.8	1/4/2007	9:39	7.80E+02	5.40E+02	5.10E+02	-9.00E-02	7.80E-01	8.80E-01	1.36E+01	4.80E+00	4.20E+00	2.00E+00	3.60E+00	3.80E+00	-3.70E+00	6.60E+00	7.80E+00	MW-56-53
	002	52.0	18.3	6/26/2007	10:51	2.89E+02	1.70E+02	1.82E+02	-4.49E-02	5.50E-01	6.66E-01	-5.30E-01	4.46E+00	4.11E+00	2.93E+00	4.88E+00	4.84E+00	1.30E+00	1.41E+01	1.62E+01	
	003			8/10/2007	12:25	2.16E+02	1.86E+02	2.03E+02	-5.66E-01	6.10E-01	9.04E-01	8.31E-01	2.79E+00	3.21E+00	3.99E-02	2.56E+00	2.85E+00	NA	NA	NA	
	004			1/31/2008	12:30	2.63E+02	1.27E+02	1.31E+02	5.70E-01	8.81E-01	9.77E-01	3.38E-01	3.69E+00	3.87E+00	5.97E-01	3.48E+00	3.99E+00	1.74E+00	1.55E+01	1.80E+01	
MW-56-83	001	75.8	-5.5	9/8/2006	11:15	5.40E+02	1.62E+02	1.26E+02	2.70E+00	1.12E+00	9.59E-01	1.82E+00	6.51E+00	8.45E+00	-2.15E-01	5.23E+00	6.87E+00	NA	NA	NA	MW-56-83
	002			11/9/2006	10:20	1.65E+02	1.35E+02	1.40E+02	7.00E-02	7.20E-01	8.10E-01	7.70E-01	2.70E+00	3.10E+00	-2.20E-01	2.91E+00	3.50E+00	3.30E+00	5.40E+00	5.80E+00	
	003			1/4/2007	13:20	1.28E+03	5.70E+02	5.20E+02	2.30E+00	9.00E-01	8.90E-01	1.18E+01	4.80E+00	4.40E+00	1.00E-01	3.00E+00	3.60E+00	-7.00E-01	7.80E+00	8.80E+00	
	004	74.0	-3.7	6/22/2007	10:44	1.85E+03	5.76E+02	4.30E+02	1.87E+00	1.15E+00	1.09E+00	1.47E-01	3.39E+00	3.85E+00	-1.87E+00	2.82E+00	2.46E+00	3.95E+00	1.27E+01	1.46E+01	
	005			8/10/2007	11:10	1.49E+03	5.52E+02	4.55E+02	2.43E+00	1.05E+00	9.23E-01	-9.15E-01	3.86E+00	4.02E+00	1.87E-01	2.75E+00	3.15E+00	NA	NA	NA	
	006			1/31/2008	9:30	1.94E+03	1.97E+02	1.34E+02	3.56E+00	1.34E+00	9.49E-01	-8.63E-01	3.69E+00	3.23E+00	1.60E+00	2.78E+00	3.51E+00	6.57E-01	1.59E+01	1.85E+01	
MW-57-11	001	10.0	5.0	6/22/2007	12:17	4.61E+03	8.10E+02	4.36E+02	4.55E+01	3.96E+00	7.97E-01	2.29E+00	6.04E+00	4.31E+00	3.69E-02	3.87E+00	4.37E+00	2.24E+01	1.79E+01	1.91E+01	MW-57-11
	002			8/6/2007	12:30	4.09E+03	3.21E+06	1.97E+02	3.79E+01	2.77E+00	5.36E-01	1.15E+00	3.78E+00	4.16E+00	3.95E-03	3.01E+00	3.41E+00	-5.75E-01	2.16E+01	2.50E+01	
MW-57-20	001	19.0	-4.0	6/22/2007	12:30	1.65E+03	5.58E+02	4.32E+02	1.96E+00	1.07E+00	9.67E-01	-1.33E+00	3.69E+00	3.90E+00	-9.51E-01	3.65E+00	3.84E+00	4.77E-01	1.36E+01	1.59E+01	MW-57-20
	002			8/6/2007	12:15	9.96E+02	2.15E+02	1.96E+02	1.23E+00	6.67E-01	5.78E-01	1.21E+00	3.59E+00	3.64E+00	6.05E-01	2.75E+00	3.22E+00	-1.19E+01	2.06E+01	2.46E+01	
MW-57-45	001	40.0	-25.0	8/24/2006	9:30	4.00E+03	6.98E+02	3.17E+02	1.88E+01	3.51E+00	2.11E+00	-5.40E-01	6.75E+00	7.36E+00	1.19E+00	6.35E+00	7.50E+00	8.29E+00	9.09E+00	9.70E+00	MW-57-45
	001			8/24/2006	9:30	4.06E+03	8.82E+02	7.71E+02	NA	NA	NA	-2.85E-01	4.41E+00	4.80E+00	-1.81E-01	3.89E+00	4.37E+00	NA	NA	NA	
	002			6/22/2007	12:55	9.55E+02	4.85E+02	4.35E+02	1.90E+00	1.05E+00	8.65E-01	-1.97E-01	3.40E+00	3.82E+00	-8.51E-01	3.50E+00	3.65E+00	6.46E-01	1.23E+01	1.43E+01	
	003			8/6/2007	12:17	7.40E+02	2.07E+02	1.98E+02	2.55E+00	8.77E-01	6.09E-01	-3.91E-01	3.15E+00	3.42E+00	-1.89E-01	3.59E+00	3.35E+00	-1.15E+01	2.09E+01	2.49E+01	
MW-58-26	001	21.6	-7.0	11/16/2006	13:25	-2.60E+01	1.59E+02	1.60E+02	3.70E-01	7.50E-01	8.20E-01	7.27E+01	8.40E+00	4.50E+00	-9.00E-01	3.30E+00	4.30E+00	-3.20E+00	5.70E+00	6.40E+00	MW-58-26
	002			1/5/2017	8:57	2.60E+02	1.80E+02	1.80E+02	-8.00E-02	7.50E-01	8.50E-01	2.34E+00	2.97E+00	3.20E+00	9.50E-01	2.73E+00	3.10E+00	-3.90E+00	6.30E+00	7.40E+00	
MW-58-26	003	20.0	-5.4	6/21/2007	11:10	5.97E+02	2.00E+02	1.86E+02	1.04E+00	6.09E-01	5.25E-01	1.62E+00	2.42E+00	2.86E+00	-3.94E-01	2.42E+00	2.60E+00	1.07E+00	1.24E+01	1.45E+01	
	004			7/31/2007	11:00	8.56E+02	3.99E+02	2.58E+02	1.02E+00	6.33E-01	5.78E-01	1.18E+00	3.31E+00	3.83E+00	4.20E-01	3.01E+00	3.51E+00	NA	NA	NA	
	005			1/22/2008	13:20	2.95E+02	1.62E+02	1.70E+02	-1.43E-01	4.65E-01	6.60E-01	9.19E-01	2.31E+00	2.67E+00	-5.41E-02	2.57E+00	2.61E+00	NA	NA	NA	
MW-58-65	001	57.6	-43.0	11/16/2006	13:18	-9.60E+01	1.59E+02	1.60E+02	-6.00E-02	7.20E-01	8.10E-01	2.20E+00	3.00E+00	3.30E+00	-9.00E-01	4.20E+00	4.90E+00	-3.40E+00	6.90E+00	7.80E+00	MW-58-65
	002			1/5/2007	9:25	5.50E+02	5.40E+02	5.20E+02	1.60E-01	8.10E-01	8.80E-01	-1.95E+00	2.52E+00	3.00E+00	-1.30E-01	2.73E+00	3.20E+00	-1.40E+00	7.80E+00	8.70E+00	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-58-65	003	54.0	-39.4	6/21/2007	11:10	3.15E+02	1.77E+02	1.81E+02	-1.90E-01	3.95E-01	5.60E-01	-2.19E-01	2.37E+00	2.65E+00	-2.89E+00	3.17E+00	3.36E+00	2.80E+00	1.26E+01	1.45E+01	
	004			7/31/2007	11:00	3.42E+02	3.02E+02	2.72E+02	6.20E-03	5.19E-01	6.52E-01	2.18E+00	3.39E+00	3.37E+00	1.02E+00	3.24E+00	3.39E+00	NA	NA	NA	
	005			1/22/2008	12:00	3.13E+02	1.62E+02	1.69E+02	1.21E-01	5.85E-01	7.22E-01	5.54E-01	3.93E+00	3.92E+00	-1.23E-01	3.29E+00	3.05E+00	NA	NA	NA	
MW-59-32	001	26.2	-11.7	11/16/2006	11:05	2.80E+01	1.77E+02	1.80E+02	-6.00E-02	7.20E-01	7.90E-01	8.60E-01	2.91E+00	3.30E+00	3.00E-01	4.20E+00	4.90E+00	-2.60E+00	6.60E+00	7.50E+00	MW-59-32
	002			1/5/2007	9:41	1.35E+02	1.77E+02	1.80E+02	3.00E-01	7.50E-01	8.20E-01	1.50E+00	3.60E+00	4.10E+00	1.30E+00	3.90E+00	4.40E+00	-1.90E+00	6.90E+00	8.10E+00	
	003	27.0	-12.5	6/21/2007	15:25	4.67E+02	4.23E+02	4.36E+02	-6.68E-02	6.78E-01	9.11E-01	6.01E-01	3.96E+00	4.59E+00	-4.19E-01	4.46E+00	4.71E+00	-4.37E-01	1.24E+01	1.45E+01	
	004			7/31/2007	14:35	1.69E+02	1.59E+02	1.63E+02	2.00E-01	6.72E-01	7.96E-01	2.26E-01	3.30E+00	3.73E+00	7.97E-01	3.19E+00	3.75E+00	NA	NA	NA	
MW-59-45	001	40.4	-25.9	11/16/2006	11:18	5.50E+01	1.74E+02	1.70E+02	2.40E-01	7.20E-01	8.00E-01	3.74E+01	8.70E+00	6.20E+00	2.60E+00	4.20E+00	4.50E+00	-1.60E+00	5.70E+00	6.60E+00	MW-59-45
	002			1/5/2007	9:48	8.80E+01	1.80E+02	1.80E+02	0.00E+00	7.80E-01	8.70E-01	1.49E+02	1.26E+01	4.90E+00	2.00E-01	3.90E+00	4.60E+00	-2.50E+00	7.50E+00	8.60E+00	
	003	42.0	-27.5	6/21/2007	15:25	7.54E+02	4.59E+02	4.34E+02	-2.74E-01	6.86E-01	9.10E-01	-1.10E-01	2.50E+00	2.83E+00	8.14E-02	2.16E+00	2.49E+00	7.74E-01	1.47E+01	1.71E+01	
	004			7/31/2007	13:58	2.49E+02	1.74E+02	1.65E+02	1.64E-01	5.90E-01	7.05E-01	4.48E-01	3.52E+00	3.70E+00	7.64E-01	3.35E+00	3.94E+00	NA	NA	NA	
MW-59-68	001	60.6	-46.1	11/16/2006	11:30	5.50E+01	1.74E+02	1.80E+02	1.20E-01	7.20E-01	8.10E-01	1.15E+02	1.11E+01	5.60E+00	1.00E+00	3.00E+00	3.60E+00	-2.30E+00	5.70E+00	6.40E+00	MW-59-68
	002			1/5/2007	10:05	1.56E+02	1.83E+02	1.80E+02	3.30E-01	8.10E-01	8.90E-01	6.76E+01	6.60E+00	4.10E+00	-8.00E-01	3.60E+00	4.10E+00	1.90E+00	7.50E+00	8.40E+00	
	003	58.0	-43.5	6/21/2007	15:25	5.90E+02	4.41E+02	4.39E+02	2.97E-01	8.79E-01	1.03E+00	6.26E-01	3.50E+00	3.80E+00	1.27E+00	2.91E+00	3.62E+00	-4.23E+00	1.30E+01	1.56E+01	
	004			7/31/2007	13:58	8.19E+02	4.02E+02	2.68E+02	3.66E-01	7.08E-01	7.98E-01	9.02E-01	2.88E+00	2.95E+00	3.72E-01	2.77E+00	3.17E+00	NA	NA	NA	
MW-60-35	001	34.9	-22.4	5/8/2007	13:27	-9.12E+00	1.49E+02	1.79E+02	-1.79E-01	5.28E-01	7.62E-01	1.41E+00	4.84E+00	3.30E+00	2.45E+00	3.72E+00	4.67E+00	0.00E+00	1.81E+01	2.12E+01	MW-60-35
	002			7/27/2007	13:07	7.61E+02	2.40E+02	1.78E+02	6.48E-02	3.80E-01	4.66E-01	5.95E-01	4.26E+00	3.23E+00	-3.31E-01	3.07E+00	3.39E+00	NA	NA	NA	
	003			10/9/2007	13:20	1.84E+02	1.48E+02	1.51E+02	3.01E-01	5.97E-01	6.78E-01	1.51E+00	6.06E+00	3.54E+00	0.00E+00	2.64E+00	2.61E+00	NA	NA	NA	
	004			1/14/2008	17:05	7.78E+01	1.58E+02	1.78E+02	5.05E-01	8.10E-01	8.98E-01	1.11E+00	3.21E+00	3.79E+00	-9.16E-01	3.36E+00	3.54E+00	NA	NA	NA	
MW-60-53	001	53.4	-40.9	5/8/2007	11:52	5.32E+01	1.58E+02	1.82E+02	-4.92E-01	5.52E-01	8.96E-01	-2.83E+00	4.86E+00	4.07E+00	2.15E-01	3.59E+00	4.12E+00	3.58E+00	1.84E+01	2.12E+01	MW-60-53
	002			7/27/2007	12:50	1.25E+02	1.71E+02	1.87E+02	-4.72E-01	5.26E-01	7.31E-01	1.46E-01	3.01E+00	3.34E+00	7.87E-01	3.25E+00	3.79E+00	NA	NA	NA	
	003			10/9/2007	12:22	1.13E+02	1.44E+02	1.56E+02	6.19E-01	6.50E-01	6.79E-01	-2.11E+00	3.39E+00	3.51E+00	3.62E-01	2.79E+00	3.21E+00	NA	NA	NA	
	004			1/14/2008	15:40	5.35E+01	1.55E+02	1.78E+02	-1.69E-01	5.28E-01	7.59E-01	-1.10E+00	2.78E+00	2.88E+00	-1.89E+00	2.94E+00	2.76E+00	NA	NA	NA	
MW-60-72	001	72.4	-59.9	5/8/2007	12:17	-9.26E+00	1.52E+02	1.82E+02	2.87E-01	8.13E-01	9.71E-01	1.61E+00	4.72E+00	3.33E+00	9.40E-01	3.21E+00	3.82E+00	8.28E-01	1.69E+01	1.97E+01	MW-60-72
	002			7/27/2007	13:22	1.10E+02	1.64E+02	1.81E+02	-3.27E-01	4.92E-01	5.76E-01	4.79E-01	3.96E+00	4.51E+00	-1.10E+00	3.94E+00	4.17E+00	NA	NA	NA	
	003			10/9/2007	14:15	1.24E+02	1.43E+02	1.54E+02	1.64E-01	6.00E-01	7.12E-01	7.48E-01	3.78E+00	4.27E+00	6.12E-01	3.76E+00	4.33E+00	NA	NA	NA	
	004			1/14/2008	14:12	1.36E+02	1.65E+02	1.78E+02	1.58E-01	5.93E-01	7.23E-01	5.42E-03	3.33E+00	3.56E+00	8.47E-01	2.97E+00	3.54E+00	NA	NA	NA	
MW-60-135	001	134.9	-122.4	5/8/2007	12:03	2.54E+01	1.55E+02	1.81E+02	3.35E-01	6.77E-01	7.74E-01	-1.05E+00	3.50E+00	3.08E+00	1.74E-01	3.12E+00	3.52E+00	4.54E+00	1.77E+01	2.02E+01	MW-60-135
	002			7/27/2007	16:00	3.92E+02	2.03E+02	1.81E+02	-2.13E-01	3.09E-01	4.69E-01	2.78E-02	2.70E+00	3.07E+00	1.78E-01	2.63E+00	3.04E+00	NA	NA	NA	
	003			10/9/2007	14:20	5.20E+02	1.83E+02	1.50E+02	-2.59E-01	4.46E-01	6.31E-01	-1.55E+00	3.40E+00	3.52E+00	-8.88E-02	3.57E+00	3.94E+00	NA	NA	NA	
	004			1/14/2008	14:19	3.79E+02	1.89E+02	1.74E+02	-1.70E-01	6.17E-01	8.52E-01	-1.33E+00	3.14E+00	3.25E+00	4.22E-01	3.17E+00	3.59E+00	NA	NA	NA	
MW-60-154	001	154.4	-141.9	5/8/2007	12:33	4.13E+01	1.55E+02	1.80E+02	3.06E-01	8.13E-01	9.50E-01	1.97E-01	3.46E+00	3.86E+00	1.46E+00	3.75E+00	4.46E+00	5.52E-01	1.68E+01	1.97E+01	MW-60-154
	002			7/27/2007	16:18	4.62E+02	2.09E+02	1.79E+02	-1.53E-01	3.46E-01	4.09E-01	8.09E-01	4.23E+00	4.60E+00	3.74E+00	2.42E+00	3.80E+00	NA	NA	NA	
	003			10/9/2007	14:23	5.80E+02	1.88E+02	1.50E+02	-1.92E-02	4.98E-01	6.33E-01	-1.63E+00	3.50E+00	3.68E+00	2.20E-01	3.30E+00	3.76E+00	NA	NA	NA	
	004			1/14/2008	12:35	5.59E+02	2.13E+02	1.79E+02	1.10E+00	1.17E+00	1.24E+00	1.59E+00	3.84E+00	4.46E+00	2.92E-01	4.35E+00	4.82E+00	NA	NA	NA	
MW-60-176	001	175.9	-163.4	5/8/2007	15:16	5.30E+02	2.01E+02	1.80E+02	6.88E-02	5.65E-01	7.29E-01	3.49E-01	4.54E+00	4.38E+00	1.14E+00	3.90E+00	3.98E+00	7.69E+00	1.73E+01	1.96E+01	MW-60-176
	002			7/27/2007	17:35	8.49E+02	2.49E+02	1.78E+02	-4.60E-01	5.84E-01	7.87E-01	2.00E+00	3.29E+00	4.00E+00	-1.76E+00	3.15E+00	3.03E+00	NA	NA	NA	
	003			10/9/2007	14:57	7.02E+02	2.01E+02	1.53E+02	-5.93E-02	5.11E-01	6.64E-01	-2.68E-01	2.63E+00	2.85E+00	3.91E-01	2.71E+00	3.09E+00	NA	NA	NA	
	004			1/14/2008	12:25	6.68E+02	2.25E+02	1.83E+02	-7.68E-02	7.89E-01	1.04E+00	2.22E-01	3.99E+00	4.52E+00	5.49E-01	3.54E+00	4.09E+00	NA	NA	NA	
MW-62-18	001	13.5	1.2	5/17/2007	13:10	4.52E+02	1.83E+02	1.55E+02	2.98E-02	5.53E-01	7.27E-01	-5.10E-01	2.61E+00	2.89E+00	1.00E-01	2.79E+00	3.19E+00	4.61E+00	1.52E+01	1.74E+01	MW-62-18
	002			7/26/2007	15:45	5.08E+02	2.13E+02	1.78E+02	4.68E-01	4.93E-01	5.35E-01	9.04E-01	3.75E+00	4.35E+00	-2.80E+00	4.88E+00	3.80E+00	NA	NA	NA	
	003			10/10/2007	13:50	3.76E+02	1.73E+02	1.55E+02	1.80E+00	6.67E-01	4.87E-01	0.00E+00	3.39E+00	1.87E+00	-7.14E-02	1.71E+00	1.92E+00	NA	NA	NA	
	004			1/31/2008	15:15	3.50E+02	1.34E+02	1.34E+02	4.95E-01	7.55E-01	8.27E-01	1.18E+00	4.23E+00	4.46E+00	5.24E-01	3.38E+00	3.96E+00	NA	NA	NA	
MW-62-37	001	34.5	-19.8	5/17/2007	11:10	2.97E+02	1.70E+02	1.59E+02	3.30E-01	8.28E-01	9.66E-01	9.81E-01	2.00E+00	2.37E+00	-1.12E+00	2.25E+00	2.31E+00	1.01E+01	1.81E+01	2.04E+01	MW-62-37
	002			7/26/2007	15:35	2.50E+02	1.79E+02	1.75E+02	-2.57E-01	4.14E-01	5.18E-01	-6.88E-02	2.64E+00	2.94E+00	-4.23E-01	2.60E+00	2.81E+00	NA	NA	NA	
	003			10/10/2007	14:50	3.02E+02	1.58E+02	1.47E+02	-1.67E-01	4.41E-01	6.10E-01	2.12E-01	1.81E+00	2.02E+00	-7.67E-01	1.74E+00	1.83E+00	NA	NA	NA	
	004			1/10/2008	13:55	3.97E+02	1.68E+02	1.71E+02	1.34E-01	6.05E-01	7.24E-01	8.35E-01	4.43E+00	4.62E+00	-2.10E-01	3.87E+00	4.19E+00	NA	NA	NA	
MW-62-53	001	53.1	-40.3	5/10/2007	15:00	3.93E+02	1.91E+02	1.72E+02	4.41E-01	7.97E-01	8.96E-01	6.50E-01	3.40E+00	3.86E+00	-9.12E-01	3.52E+00	3.74E+00	-5.00E+00	1.40E+01	1.68E+01	MW-62-53

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-62-53	002			7/26/2007	15:34	3.45E+02	1.94E+02	1.78E+02	3.56E-01	6.98E-01	7.85E-01	0.00E+00	4.62E+00	2.53E+00	-8.44E-01	2.77E+00	2.45E+00	NA	NA	NA	
	003			1/10/2008	15:37	3.48E+02	1.67E+02	1.71E+02	4.45E-02	6.72E-01	8.15E-01	-7.91E-01	2.75E+00	2.93E+00	7.68E-01	2.88E+00	3.43E+00	NA	NA	NA	
MW-62-71	001	71.1	-58.3	5/10/2007	11:35	5.02E+02	2.00E+02	1.71E+02	6.16E-01	8.34E-01	8.92E-01	-8.78E-01	3.51E+00	3.75E+00	1.37E-01	3.21E+00	3.59E+00	4.93E+00	1.29E+01	1.48E+01	MW-62-71
	002			7/26/2007	12:20	1.51E+02	1.65E+02	1.74E+02	2.15E-01	7.26E-01	8.29E-01	1.11E+00	3.36E+00	3.91E+00	-2.39E-01	3.48E+00	3.90E+00	NA	NA	NA	
MW-62-71	003			10/10/2007	12:23	2.69E+02	1.61E+02	1.55E+02	1.15E-01	5.22E-01	6.30E-01	1.18E+00	2.43E+00	2.45E+00	1.54E+00	2.10E+00	2.55E+00	NA	NA	NA	
	004			1/10/2008	14:04	3.53E+02	1.89E+02	1.94E+02	3.78E-01	5.85E-01	6.46E-01	-7.82E-01	2.51E+00	2.72E+00	3.78E-02	2.22E+00	2.55E+00	NA	NA	NA	
MW-62-92	001	91.6	-78.8	5/10/2007	11:18	7.00E+02	2.16E+02	1.68E+02	7.11E-01	9.21E-01	9.85E-01	-1.58E+00	4.63E+00	3.30E+00	7.45E-01	3.12E+00	3.72E+00	-7.73E+00	1.30E+01	1.65E+01	MW-62-92
	002			7/26/2007	12:35	4.37E+02	2.07E+02	1.80E+02	-2.28E-02	3.39E-01	3.94E-01	6.50E-01	3.15E+00	3.63E+00	8.32E-01	3.38E+00	3.95E+00	NA	NA	NA	
	003			10/10/2007	12:15	4.28E+02	1.73E+02	1.50E+02	-1.91E-01	4.77E-01	6.54E-01	6.23E-01	1.88E+00	2.01E+00	1.85E+00	1.80E+00	2.21E+00	NA	NA	NA	
	004			1/10/2008	11:09	3.94E+02	1.92E+02	1.94E+02	1.38E-01	6.59E-01	7.90E-01	3.75E-01	2.94E+00	3.39E+00	9.37E-01	3.47E+00	3.62E+00	NA	NA	NA	
MW-62-138	001	138.1	-125.3	5/10/2007	10:22	4.55E+02	1.98E+02	1.74E+02	8.19E-01	8.16E-01	8.00E-01	1.73E+00	4.17E+00	3.28E+00	-1.40E+00	3.42E+00	3.55E+00	-4.93E+00	1.32E+01	1.64E+01	MW-62-138
	002			7/26/2007	15:55	5.38E+02	2.19E+02	1.82E+02	5.26E-01	5.79E-01	6.09E-01	6.88E-02	3.51E+00	3.98E+00	6.39E-01	3.93E+00	4.54E+00	NA	NA	NA	
	003			10/10/2007	14:46	7.78E+02	2.09E+02	1.54E+02	8.37E-01	8.30E-01	8.69E-01	0.00E+00	2.67E+00	2.90E+00	-1.19E+00	2.44E+00	2.50E+00	NA	NA	NA	
	004			1/10/2008	10:05	7.69E+02	1.82E+02	1.74E+02	7.34E-01	4.32E-01	3.52E-01	4.30E-01	3.36E+00	3.88E+00	1.05E-01	3.47E+00	3.91E+00	NA	NA	NA	
MW-62-182	001	182.1	-169.3	5/10/2007	10:43	5.41E+02	2.09E+02	1.76E+02	1.22E-01	7.18E-01	8.90E-01	3.74E-02	3.50E+00	3.33E+00	-2.40E-01	3.23E+00	3.53E+00	-1.76E+00	1.24E+01	1.50E+01	MW-62-182
	002			7/26/2007	16:20	4.17E+02	2.06E+02	1.82E+02	-9.56E-02	2.73E-01	3.26E-01	-1.16E+00	3.10E+00	3.25E+00	6.21E-01	2.70E+00	3.15E+00	NA	NA	NA	
	003			10/10/2007	14:42	4.94E+02	1.83E+02	1.54E+02	-1.48E-01	4.40E-01	5.99E-01	6.04E-01	1.91E+00	1.91E+00	5.45E-01	1.92E+00	2.23E+00	NA	NA	NA	
	004			1/10/2008	11:15	4.70E+02	1.68E+02	1.71E+02	8.15E-02	5.13E-01	6.33E-01	-1.17E-01	2.96E+00	2.99E+00	9.22E-01	1.31E+00	2.33E+00	NA	NA	NA	
MW-63-18	001	14.9	0.7	5/18/2007	10:35	2.30E+02	1.59E+02	1.57E+02	4.75E-02	5.37E-01	6.95E-01	8.56E-01	2.44E+00	2.67E+00	1.11E+00	2.65E+00	2.74E+00	7.36E+00	1.61E+01	1.82E+01	MW-63-18
	002			7/30/2007	13:10	2.00E+02	1.74E+02	1.89E+02	-2.18E-01	3.91E-01	4.68E-01	1.98E+00	2.65E+00	3.03E+00	-1.31E+00	2.50E+00	2.53E+00	NA	NA	NA	
	003			10/11/2007	12:43	1.49E+02	1.56E+02	1.71E+02	3.08E-01	6.23E-01	7.12E-01	1.52E+00	2.63E+00	3.16E+00	-1.41E-01	2.52E+00	2.74E+00	NA	NA	NA	
	004			1/9/2008	14:55	1.23E+02	1.56E+02	1.73E+02	-6.34E-02	5.55E-01	7.38E-01	2.55E+00	3.29E+00	3.42E+00	1.97E+00	2.94E+00	3.75E+00	NA	NA	NA	
MW-63-34	001	31.5	-17.3	5/18/2007	13:03	2.28E+02	1.58E+02	1.55E+02	-1.62E-01	5.43E-01	7.77E-01	4.10E-01	2.21E+00	2.51E+00	-3.25E-01	2.65E+00	2.44E+00	1.57E+00	1.54E+01	1.80E+01	MW-63-34
	002			7/30/2007	13:28	2.80E+02	1.77E+02	1.90E+02	-1.64E-01	3.36E-01	4.03E-01	1.73E-01	3.66E+00	3.56E+00	3.98E-01	3.66E+00	4.24E+00	NA	NA	NA	
	003			10/11/2007	12:50	2.31E+02	1.61E+02	1.74E+02	-2.75E-01	4.44E-01	6.73E-01	-6.24E-01	3.60E+00	3.58E+00	3.81E-01	2.65E+00	3.10E+00	NA	NA	NA	
	004			1/9/2008	14:20	3.26E+02	1.65E+02	1.71E+02	1.24E-01	5.57E-01	6.84E-01	1.83E+00	3.63E+00	4.44E+00	3.53E-01	3.90E+00	4.35E+00	NA	NA	NA	
MW-63-50	001	49.5	-37.2	5/15/2007	11:48	3.26E+02	1.83E+02	1.73E+02	-9.70E-02	6.15E-01	8.32E-01	-1.33E-01	5.28E+00	5.01E+00	6.64E-01	4.23E+00	4.81E+00	-2.41E+00	1.24E+01	1.51E+01	MW-63-50
	002			7/25/2007	14:00	2.25E+02	1.80E+02	1.95E+02	1.29E-01	6.03E-01	6.84E-01	2.08E+00	3.18E+00	3.90E+00	-1.58E-01	3.19E+00	3.54E+00	NA	NA	NA	
	003			10/11/2007	11:10	2.89E+02	1.62E+02	1.73E+02	-3.41E-01	5.10E-01	7.67E-01	6.21E-01	2.98E+00	3.39E+00	1.56E+00	3.17E+00	3.86E+00	NA	NA	NA	
	004			1/9/2008	12:32	3.56E+02	1.67E+02	1.72E+02	4.48E-01	7.41E-01	8.26E-01	3.37E-01	2.66E+00	3.02E+00	-1.42E+00	3.14E+00	3.20E+00	NA	NA	NA	
MW-63-93	001	93.0	-80.7	10/2/2006	13:10	5.16E+02	1.95E+02	5.70E+01	7.81E-02	6.73E-01	7.32E-01	5.46E-01	1.43E+01	1.59E+01	-4.42E+00	1.67E+01	2.03E+01	-5.31E+00	1.23E+01	1.54E+01	MW-63-93
	002			5/15/2007	12:45	2.81E+02	1.80E+02	1.75E+02	8.20E-02	7.29E-01	9.24E-01	1.87E-01	4.80E+00	4.60E+00	9.57E-01	4.54E+00	4.51E+00	NA	NA	NA	
	003			7/25/2007	14:34	2.37E+02	1.82E+02	1.97E+02	-4.43E-01	4.41E-01	5.29E-01	1.24E+00	3.31E+00	3.90E+00	9.28E-03	3.75E+00	4.16E+00	NA	NA	NA	
	004			10/11/2007	11:17	1.15E+02	1.55E+02	1.72E+02	8.19E-01	8.90E-01	9.47E-01	-6.98E-01	2.97E+00	3.16E+00	-1.77E+00	3.33E+00	3.23E+00	NA	NA	NA	
	005			1/9/2008	12:46	2.15E+02	1.59E+02	1.71E+02	1.86E-01	7.08E-01	8.45E-01	7.74E-01	3.06E+00	3.56E+00	1.05E-01	3.20E+00	3.58E+00	NA	NA	NA	
MW-63-112	001	111.5	-99.2	5/15/2007	13:10	4.24E+02	1.95E+02	1.75E+02	-5.27E-02	7.50E-01	9.42E-01	2.58E+00	3.90E+00	3.59E+00	9.59E-01	3.72E+00	4.19E+00	-5.14E+00	1.34E+01	1.55E+01	MW-63-112
	002			7/25/2007	14:52	2.69E+02	1.83E+02	1.97E+02	6.32E-02	3.46E-01	3.99E-01	6.92E-01	4.14E+00	4.19E+00	-6.35E-01	3.94E+00	4.34E+00	NA	NA	NA	
	003			10/11/2007	13:45	2.78E+02	1.62E+02	1.72E+02	-7.94E-02	6.73E-01	8.71E-01	-3.04E+00	5.49E+00	4.52E+00	7.65E-01	3.50E+00	4.15E+00	NA	NA	NA	
	004			1/9/2008	10:20	4.69E+02	1.73E+02	1.72E+02	2.19E-01	5.07E-01	5.92E-01	3.90E-01	3.30E+00	3.34E+00	2.87E-01	3.56E+00	3.75E+00	NA	NA	NA	
MW-63-121	001	121.0	-108.7	5/15/2007	13:42	3.11E+02	1.83E+02	1.75E+02	3.00E-01	7.97E-01	9.37E-01	6.30E-01	4.25E+00	4.20E+00	-1.19E+00	3.65E+00	3.87E+00	2.29E+00	1.52E+01	1.77E+01	MW-63-121
	002			7/25/2007	11:50	2.96E+02	1.82E+02	1.94E+02	3.19E-01	5.31E-01	5.93E-01	-1.31E+00	3.29E+00	3.46E+00	1.70E-01	3.46E+00	3.87E+00	NA	NA	NA	
	003			10/11/2007	13:51	4.62E+02	1.70E+02	1.74E+02	2.39E-01	6.25E-01	7.37E-01	2.48E+00	4.51E+00	4.94E+00	1.54E+00	4.00E+00	4.54E+00	NA	NA	NA	
	004			1/9/2008	10:42	5.40E+02	1.74E+02	1.71E+02	2.06E-02	4.70E-01	6.09E-01	2.54E+00	3.38E+00	4.15E+00	1.09E+00	3.41E+00	4.02E+00	NA	NA	NA	
MW-63-163	001	162.5	-150.2	5/15/2007	11:38	5.78E+02	2.10E+02	1.73E+02	-6.43E-02	6.50E-01	8.74E-01	-8.04E-01	2.84E+00	2.59E+00	9.51E-01	2.25E+00	2.64E+00	-9.58E-01	1.44E+01	1.73E+01	MW-63-163
	002			7/25/2007	12:13	4.79E+02	1.91E+02	1.96E+02	-7.20E-01	3.46E-01	6.26E-01	-3.18E+00	5.16E+00	4.39E+00	-4.54E-01	3.75E+00	3.99E+00	NA	NA	NA	
	003			10/11/2007	14:18	3.49E+02	1.65E+02	1.73E+02	7.93E-03	7.98E-01	9.60E-01	-4.46E-01	3.00E+00	3.28E+00	-1.91E-02	2.94E+00	3.30E+00	NA	NA	NA	
	004			1/9/2008	10:51	5.68E+02	1.77E+02	1.72E+02	3.19E-03	5.55E-01	7.17E-01	-4.52E-01	3.50E+00	3.89E+00	2.23E+00	6.11E+00	4.38E+00	NA	NA	NA	
MW-63-174	001	174.0	-161.7	5/15/2007	11:54	5.93E+02	2.12E+02	1.73E+02	2.64E-01	7.62E-01	9.04E-01	-6.91E-01	2.52E+00	2.70E+00	8.16E-03	2.49E+00	2.76E+00	1.30E+00	1.28E+01	1.51E+01	MW-63-174

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-63-174	002			7/25/2007	12:00	5.28E+02	1.94E+02	1.97E+02	-2.78E-01	4.41E-01	6.59E-01	6.28E-01	3.98E+00	4.55E+00	-3.03E-01	3.45E+00	3.80E+00	NA	NA	NA	
	003			10/11/2007	14:22	3.70E+02	1.65E+02	1.72E+02	-2.85E-01	7.14E-01	9.39E-01	1.94E+00	2.90E+00	2.70E+00	-8.59E-01	2.56E+00	2.71E+00	NA	NA	NA	
	004			1/9/2008	10:45	6.23E+02	1.79E+02	1.72E+02	6.16E-01	6.95E-01	7.24E-01	-1.24E+00	3.14E+00	3.33E+00	1.48E+00	3.03E+00	3.77E+00	NA	NA	NA	
MW-65-48	001	43.3	26.4	1/4/2007	12:00	2.08E+02	1.83E+02	1.80E+02	0.00E+00	7.80E-01	8.60E-01	1.60E+00	3.60E+00	3.90E+00	-5.00E-01	3.00E+00	3.70E+00	-2.20E+00	6.30E+00	7.30E+00	MW-65-48
MW-65-80	001	71.4	-1.7	9/8/2006	9:40	3.29E+01	1.62E+02	1.74E+02	4.72E-01	9.80E-01	1.04E+00	-5.15E-01	1.99E+00	2.18E+00	-2.34E-01	1.81E+00	1.98E+00	NA	NA	NA	MW-65-80
	002			1/4/2007	12:35	1.83E+02	1.80E+02	1.80E+02	1.60E-01	7.80E-01	8.70E-01	-2.50E-01	2.22E+00	2.50E+00	-1.13E+00	2.31E+00	2.80E+00	-1.90E+00	6.60E+00	7.40E+00	
MW-66-21	001	14.1	0	7/30/2007	13:45	3.57E+03	2.91E+02	1.96E+02	1.79E+00	7.08E-01	2.08E+03	1.77E-01	3.07E+00	3.51E+00	2.21E+00	3.27E+00	4.20E+00	NA	NA	NA	MW-66-21
	002			10/15/2007	10:45	1.04E+03	2.24E+02	1.95E+02	2.42E+00	7.97E-01	5.30E-01	-8.32E-01	3.03E+00	2.74E+00	1.01E+01	2.79E+00	3.18E+00	1.48E+01	2.06E+01	2.28E+01	
	003			1/14/2008	11:33	8.18E+02	4.62E+02	4.16E+02	1.09E+00	8.96E-01	8.19E-01	1.68E+00	3.14E+00	3.77E+00	2.35E+00	3.86E+00	4.26E+00	-5.07E+00	2.12E+01	2.55E+01	
MW-66-36	001	33.6	-19.5	7/30/2007	12:49	9.10E+03	4.13E+02	1.94E+02	6.20E+00	1.19E+00	6.05E-01	-9.84E-01	2.67E+00	2.76E+00	-5.59E-01	2.90E+00	3.05E+00	NA	NA	NA	MW-66-36
	002			10/15/2007	10:16	8.95E+03	4.61E+02	1.92E+02	1.12E+01	1.61E+00	5.63E-01	0.00E+00	8.34E+00	4.32E+00	-2.92E-01	4.34E+00	4.68E+00	1.17E+01	1.88E+01	2.09E+01	
	003			1/14/2008	11:40	7.26E+03	1.01E+03	4.16E+02	1.51E+01	2.40E+00	8.34E-01	2.34E+00	3.38E+00	4.14E+00	-1.08E+00	3.78E+00	3.39E+00	7.19E+00	2.36E+01	2.71E+01	
MW-67-39	001	38.3	-25.8	8/31/2007	12:05	4.86E+03	4.34E+02	1.92E+02	1.86E+01	1.86E+00	4.73E-01	-1.93E-01	2.02E+00	2.24E+00	-9.45E-01	2.00E+00	2.09E+00	NA	NA	NA	MW-67-39
	002			10/1/2007	11:30	5.07E+03	3.75E+02	1.95E+02	2.71E+01	2.44E+00	6.21E-01	1.02E+01	4.11E+00	1.98E+00	3.69E-01	2.07E+00	2.39E+00	2.51E+00	1.68E+01	1.93E+01	
	003			1/11/2008	16:44	4.35E+03	8.03E+02	4.10E+02	2.59E+01	2.99E+00	7.54E-01	0.00E+00	4.94E+00	6.15E+00	1.77E+00	3.96E+00	4.75E+00	1.53E+01	2.31E+01	2.58E+01	
	004			2/25/2008	15:38	4.17E+03	8.28E+02	5.29E+02	2.05E+01	1.77E+00	6.97E-01	-1.15E+00	3.44E+00	3.73E+00	1.99E+00	4.39E+00	3.98E+00	-5.41E-01	2.26E+01	2.63E+01	
MW-67-105	001	104.8	-92.3	8/31/2007	12:35	1.86E+03	5.16E+02	3.34E+02	1.11E+00	6.12E-01	5.26E-01	2.26E-01	2.00E+00	2.00E+00	-3.08E-01	1.68E+00	1.86E+00	NA	NA	NA	MW-67-105
	002			10/1/2007	11:40	2.64E+03	2.96E+02	1.95E+02	4.12E-01	8.28E-01	9.46E-01	0.00E+00	6.11E+00	3.77E+00	-4.57E-01	3.63E+00	3.96E+00	1.05E+01	1.58E+01	1.76E+01	
	003			1/11/2008	15:15	2.43E+03	6.42E+02	4.15E+02	7.58E-01	9.98E-01	1.07E+00	9.32E+00	5.13E+00	2.83E+00	7.44E-01	3.60E+00	3.70E+00	1.81E+01	2.42E+01	2.67E+01	
	004			2/25/2008	13:44	2.38E+03	6.89E+02	5.30E+02	1.13E+00	7.89E-01	8.12E-01	-1.27E+00	3.25E+00	3.38E+00	-4.79E-02	2.97E+00	3.25E+00	1.24E+01	1.74E+01	1.93E+01	
MW-67-173	001	172.3	-159.8	8/31/2007	13:04	1.05E+03	4.28E+02	3.37E+02	3.73E-01	3.77E-01	4.12E-01	-1.46E+00	3.56E+00	3.68E+00	1.19E-02	3.75E+00	4.15E+00	NA	NA	NA	MW-67-173
	002			10/1/2007	12:30	1.01E+03	2.25E+02	1.95E+02	1.48E-01	8.62E-01	1.07E+00	-1.34E+00	3.79E+00	4.01E+00	2.82E+00	3.25E+00	3.77E+00	4.12E+00	1.71E+01	1.96E+01	
	003			1/11/2008	13:35	6.95E+02	4.41E+02	4.11E+02	2.14E-01	8.33E-01	1.01E+00	5.82E+00	3.68E+00	2.90E+00	-1.79E+00	2.58E+00	1.82E+00	1.36E+01	2.39E+01	2.67E+01	
	004			2/25/2008	14:00	9.51E+02	5.51E+02	5.30E+02	-4.12E-01	6.05E-01	7.76E-01	6.65E-01	2.82E+00	3.23E+00	-3.63E-01	2.54E+00	2.70E+00	-5.95E+00	2.37E+01	2.82E+01	
MW-67-219	001	218.8	-206.3	8/31/2007	13:43	1.25E+03	4.46E+02	3.30E+02	3.27E-02	3.00E-01	3.47E-01	-1.58E-01	3.04E+00	3.32E+00	9.02E-01	3.09E+00	3.68E+00	NA	NA	NA	MW-67-219
	002			10/1/2007	12:53	9.46E+02	2.22E+02	1.95E+02	-2.27E-01	7.50E-01	1.03E+00	1.48E-01	2.60E+00	2.90E+00	1.38E-01	2.37E+00	2.65E+00	1.21E+01	2.64E+01	2.99E+01	
	003			1/11/2008	12:05	1.28E+03	5.18E+02	4.12E+02	4.22E-01	8.67E-01	9.91E-01	4.25E+00	3.98E+00	2.09E+00	-1.01E+00	3.11E+00	3.18E+00	9.12E+00	2.27E+01	2.58E+01	
	004			2/25/2008	11:43	1.23E+03	5.81E+02	5.31E+02	-7.61E-02	4.93E-01	6.12E-01	-1.33E+00	3.03E+00	3.18E+00	1.08E+00	3.15E+00	3.78E+00	1.23E+01	1.81E+01	2.03E+01	
MW-67-276	001	275.3	-262.8	8/31/2007	12:20	6.79E+02	3.83E+02	3.41E+02	-3.34E-01	3.57E-01	4.29E-01	1.36E+00	3.82E+00	4.02E+00	-9.09E-01	3.75E+00	4.00E+00	NA	NA	NA	MW-67-276
	002			10/1/2007	13:04	1.11E+03	2.30E+02	1.96E+02	3.82E-02	8.36E-01	9.91E-01	-3.32E+00	3.63E+00	3.34E+00	-3.17E-01	3.51E+00	3.31E+00	5.04E-01	1.59E+01	1.84E+01	
	003			1/11/2008	13:00	1.03E+03	4.89E+02	4.14E+02	9.99E-02	9.50E-01	1.17E+00	4.55E+00	3.03E+00	3.32E+00	-4.84E-01	3.36E+00	3.01E+00	8.92E+00	2.22E+01	2.52E+01	
	004			2/25/2008	11:48	1.07E+03	5.64E+02	5.29E+02	4.43E-01	7.06E-01	7.88E-01	2.00E+00	3.45E+00	4.21E+00	1.79E+00	4.11E+00	4.33E+00	1.08E+01	1.89E+01	2.11E+01	
MW-67-323	001	322.3	-309.8	8/31/2007	13:20	3.13E+02	1.55E+02	1.57E+02	-2.41E-01	3.06E-01	3.74E-01	1.14E+00	3.71E+00	4.33E+00	1.29E-01	3.76E+00	4.32E+00	NA	NA	NA	MW-67-323
	002			10/1/2007	14:08	1.29E+03	2.40E+02	1.96E+02	5.67E-01	8.58E-01	9.37E-01	-5.77E-01	3.04E+00	3.24E+00	-6.19E-01	3.35E+00	3.58E+00	5.25E-01	1.65E+01	1.92E+01	
	003			1/11/2008	13:52	3.74E+02	1.91E+02	1.96E+02	3.98E-01	8.15E-01	9.31E-01	3.85E+00	4.10E+00	3.69E+00	1.69E+00	3.33E+00	3.76E+00	1.54E+00	2.21E+01	2.59E+01	
	004			2/25/2008	11:59	3.72E+02	2.75E+02	2.87E+02	3.61E-01	7.60E-01	8.62E-01	-2.08E-01	2.97E+00	3.32E+00	1.29E+00	3.50E+00	4.18E+00	6.85E+00	1.88E+01	2.13E+01	
MW-67-340	001	339.8	-327.3	8/31/2007	12:54	3.69E+02	1.61E+02	1.60E+02	1.69E-01	2.71E-01	3.04E-01	6.52E-01	4.61E+00	5.13E+00	4.53E+00	5.43E+00	5.20E+00	NA	NA	NA	MW-67-340
	002			10/1/2007	14:00	3.90E+02	1.92E+02	1.96E+02	1.42E-01	3.71E-01	4.20E-01	7.29E-01	3.46E+00	3.96E+00	-1.22E+00	3.33E+00	3.50E+00	3.89E+00	1.54E+01	1.76E+01	
	003			1/11/2008	13:15	4.92E+02	1.95E+02	1.95E+02	1.07E-01	8.25E-01	1.03E+00	5.82E+00	3.74E+00	2.33E+00	3.88E-02	2.12E+00	2.37E+00	-8.32E+00	2.24E+01	2.62E+01	
	004			2/25/2008	12:00	4.78E+02	2.82E+02	2.86E+02	-2.17E-01	5.53E-01	6.94E-01	-1.58E+00	3.99E+00	3.94E+00	-7.62E-01	3.19E+00	3.43E+00	5.72E+00	1.83E+01	2.09E+01	
MW-107[7]	004	29.1	111.0	9/28/2005	12:00	3.09E+02	3.87E+02	4.20E+02	NA	NA	NA	3.86E+00	1.16E+01	8.53E+00	NA	NA	NA	NA	NA	NA	MW-107[7]
	001			12/8/2006	11:15	1.28E+02	4.11E+02	4.54E+02	7.65E+00	1.53E+01	1.33E+01	2.55E+00	7.64E+00	5.59E+00	4.11E+00	1.23E+01	8.97E+00	NA	NA	NA	
	002			4/18/2006	11:15	1.27E+02	4.11E+02	4.51E+02	0.00E+00	3.90E-01	4.40E-01	2.65E+00	7.94E+00	5.62E+00	4.36E+00	1.31E+01	9.21E+00	NA	NA	NA	
	003			6/6/2006	13:30	1.05E+02	1.53E+02	1.56E+02	-2.07E-01	5.43E-01	7.13E-01	1.65E+00	8.31E+00	9.24E+00	-3.66E-01	8.36E+00	9.05E+00	NA	NA	NA	
	005	32.7	110.1	7/23/2007	14:18	8.92E+01	1.52E+02	1.70E+02	1.66E-01	5.19E-01	5.87E-01	8.13E-01	2.73E+00	1.60E+00	1.03E-01	1.41E+00	1.60E+00	NA	NA	NA	
MW-108[7]	003	8.3	6.2	9/29/2005	12:00	3.32E+02	3.84E+02	4.20E+02	NA	NA	NA	3.23E+00	9.70E+00	7.39E+00	3.21E+00	9.64E+00	7.84E+00	NA	NA	NA	MW-108[7]
	004			11/3/2005	12:00	1.97E+02	4.26E+02	4.76E+02	NA	NA	NA	3.41E+00	1.02E+01	7.53E+00	2.65E+00	7.95E+00	6.39E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
MW-108[7]	002			5/13/2006	10:53	2.78E102	1.82E102	1.68E102	6.89E-01	8.26E-01	8.08E-01	3.12E100	8.86E100	1.05E101	-1.45E-01	1.23E101	1.34E101	NA	NA	NA	
MW-109	003	8.5	6.1	9/29/2005	12:00	1.54E+02	3.81E+02	4.20E+02	NA	NA	NA	3.74E+00	1.12E+01	8.45E+00	3.19E+00	9.57E+00	7.88E+00	NA	NA	NA	MW-109
	004			11/3/2005	12:00	1.01E+02	4.23E+02	4.76E+02	NA	NA	NA	3.59E+00	1.08E+01	7.89E+00	2.59E+00	7.78E+00	6.26E+00	NA	NA	NA	
	002			5/13/2006	10:10	3.39E+02	1.89E+02	1.70E+02	2.98E-01	8.24E-01	9.27E-01	2.00E-01	5.68E+00	6.24E+00	-2.50E+00	6.12E+00	6.08E+00	NA	NA	NA	
MW-111	001	14.1	4.8	9/29/2005	10:00	2.15E+05	2.26E+03	4.20E+02	NA	NA	NA	4.48E+00	1.34E+01	1.02E+01	1.81E+00	5.42E+00	5.57E+00	NA	NA	NA	MW-111
	001			9/29/2005	10:00	2.05E+05	2.56E+04	6.24E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	002			10/14/2005	10:00	6.81E+03	4.73E+03	6.41E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			10/21/2005	10:00	2.84E105	3.05E104	6.41E102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	004			10/28/2005	8:30	2.18E+05	6.54E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			11/4/2005	9:00	3.02E+05	9.06E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			11/22/2005	10:00	1.80E+05	5.40E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	007			12/2/2005	10:15	1.25E+05	3.75E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	008			12/8/2005	16:50	2.71E+05	8.13E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	009			12/15/2005	11:00	2.96E+05	8.88E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			12/19/2005	9:45	1.92E105	5.76E103	7.00E102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	011			12/29/2005	10:00	2.12E+05	6.36E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-111	012			1/6/2006	10:45	1.13E+05	3.39E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	013			1/13/2006	10:30	1.99E+05	5.97E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	014			1/20/2006	9:30	1.19E+05	3.57E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	015			1/27/2006	10:05	5.78E+05	1.73E+02	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	016			2/3/2006	12:20	2.95E+05	3.09E+04	6.33E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	017			2/7/2006	16:10	2.38E105	2.78E104	6.37E102	1.17E100	6.03E-01	6.31E-01	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	018			2/16/2006	13:40	2.94E+05	3.09E+04	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	019			3/3/2006	9:00	2.36E+05	7.08E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	020			4/7/2006	9:50	1.45E+05	4.35E+03	7.00E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	021			5/17/2006	14:05	4.31E+04	6.51E+03	9.10E+02	2.49E+00	1.40E+00	1.24E+00	-2.32E-01	1.34E+01	1.51E+01	4.25E+00	1.30E+01	1.49E+01	NA	NA	NA	
	022			6/23/2006	8:35	2.62E+05	3.92E+04	2.35E+03	6.23E-01	1.07E+00	1.32E+00	-4.18E+00	1.40E+01	1.46E+01	-1.60E-01	1.38E+01	1.52E+01	NA	NA	NA	
	023			9/21/2006	10:25	1.59E+05	2.07E+04	1.42E+03	8.79E-01	1.25E+00	1.33E+00	9.50E-02	1.13E+00	1.26E+00	-5.26E-02	1.15E+00	1.24E+00	NA	NA	NA	
	024	16.5	2.4	6/15/2007	14:17	1.19E105	3.69E103	3.52E102	9.74E-01	6.30E-01	5.76E-01	-7.53E-01	3.27E100	3.00E100	1.21E-01	2.79E100	3.17E100	6.34E100	1.26E101	1.43E101	
MW-111	025			8/3/2007	9:53	9.88E+04	2.93E+03	3.68E+02	9.74E-01	6.73E-01	6.27E-01	4.24E-01	2.75E+00	3.15E+00	3.95E-01	2.60E+00	3.02E+00	NA	NA	NA	
	026			1/28/2008	11:38	4.77E+04	1.77E+03	2.97E+02	2.56E+00	9.45E-01	6.18E-01	2.60E+00	4.05E+00	3.90E+00	-6.32E-01	2.55E+00	2.63E+00	1.33E+01	1.58E+01	1.73E+01	
U3-4D	007	21.7	-14.7	10/16/2005	12:00	3.70E+02	4.05E+02	4.38E+02	NA	NA	NA	4.72E+00	1.41E+01	1.01E+01	3.72E+00	1.12E+01	8.50E+00	NA	NA	NA	U3-4D
	008			10/21/2005	12:00	3.99E+02	3.90E+02	4.27E+02	NA	NA	NA	3.11E+00	9.34E+00	6.58E+00	2.98E+00	8.95E+00	6.58E+00	NA	NA	NA	
	009			10/28/2005	12:00	4.05E+02	4.29E+02	4.72E+02	NA	NA	NA	3.91E+00	1.17E+01	8.54E+00	4.36E+00	1.31E+01	9.84E+00	NA	NA	NA	
	010			11/4/2008	12:00	1.18E+02	4.23E+02	4.76E+02	NA	NA	NA	3.17E+00	9.51E+00	6.90E+00	3.34E+00	1.00E+01	7.54E+00	NA	NA	NA	
	011			11/10/2008	12:00	3.16E102	4.14E102	4.61E102	NA	NA	NA	4.10E100	1.23E101	8.95E100	4.07E100	1.22E101	9.41E100	NA	NA	NA	
	012			11/18/2005	12:00	1.10E+02	4.35E+02	4.81E+02	NA	NA	NA	3.04E+00	9.13E+00	6.67E+00	2.04E+00	6.11E+00	4.97E+00	NA	NA	NA	
	013			12/2/2005	12:00	2.73E+02	4.23E+02	4.64E+02	NA	NA	NA	2.97E+00	8.92E+00	6.62E+00	2.00E+00	6.01E+00	5.05E+00	NA	NA	NA	
	001			12/15/2005	13:10	3.99E+02	4.32E+02	4.70E+02	NA	NA	NA	2.73E+00	8.20E+00	6.05E+00	2.88E+00	8.64E+00	6.66E+00	NA	NA	NA	
	002			12/30/2005	9:25	4.42E+02	4.35E+02	4.71E+02	NA	NA	NA	3.53E+00	1.06E+01	7.76E+00	3.96E+00	1.19E+01	8.99E+00	NA	NA	NA	
	003			1/12/2006	11:00	5.73E+02	4.38E+02	4.72E+02	NA	NA	NA	3.29E+00	9.86E+00	7.12E+00	3.42E+00	1.03E+01	7.75E+00	NA	NA	NA	
	004			2/15/2006	13:45	2.71E+02	9.39E+02	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	006			4/26/2006	14:20	5.75E+02	2.19E+02	1.87E+02	-1.48E-01	6.11E-01	7.91E-01	-3.01E-01	8.38E+00	9.11E+00	-3.10E+00	8.21E+00	8.71E+00	NA	NA	NA	
	014			6/22/2006	10:20	7.10E+02	2.15E+02	1.68E+02	1.27E-01	5.73E-01	7.39E-01	-2.41E+00	1.15E+01	1.21E+01	-2.08E+00	8.42E+00	8.34E+00	NA	NA	NA	
	015	25.6	-10.8	2/1/2008	12:40	3.75E+02	1.36E+02	1.35E+02	-1.78E-01	7.83E-01	9.77E-01	2.83E-01	2.69E+00	3.10E+00	1.41E+00	3.26E+00	3.97E+00	NA	NA	NA	
U3-T1[7]	007	5.7	2.8	10/7/2005	12:00	1.59E+03	4.20E+02	4.15E+02	NA	NA	NA	2.71E+00	8.14E+00	6.09E+00	2.77E+00	8.30E+00	6.55E+00	NA	NA	NA	U3-T1[7]
	008			10/21/2005	12:00	3.09E102	3.87E102	4.27E102	NA	NA	NA	3.92E100	1.18E101	8.66E100	3.87E100	1.16E101	9.03E100	NA	NA	NA	
	009			10/28/2005	12:00	3.40E+02	4.29E+02	4.72E+02	NA	NA	NA	3.55E+00	1.06E+01	8.06E+00	5.35E+00	1.61E+01	1.23E+01	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
U3-T1[7]	010			11/4/2005	12:00	1.97E+02	4.29E+02	4.76E+02	NA	NA	NA	4.01E+00	1.20E+01	8.86E+00	3.90E+00	1.17E+01	9.13E+00	NA	NA	NA	
	011			11/10/2005	12:00	5.63E+02	4.26E+02	4.61E+02	NA	NA	NA	3.11E+00	9.32E+00	6.89E+00	2.97E+00	8.92E+00	6.99E+00	NA	NA	NA	
	012			11/18/2005	12:00	0.00E+00	4.29E+02	4.81E+02	NA	NA	NA	3.90E+00	1.17E+01	8.39E+00	3.40E+00	1.02E+01	7.71E+00	NA	NA	NA	
	013			12/2/2005	12:00	4.98E+02	4.29E+02	4.64E+02	NA	NA	NA	2.80E+00	8.39E+00	6.23E+00	2.94E+00	8.83E+00	6.86E+00	NA	NA	NA	
	001			12/15/2005	13:15	3.40E+02	4.29E+02	4.70E+02	NA	NA	NA	2.53E+00	7.60E+00	5.63E+00	2.89E+00	8.67E+00	6.65E+00	NA	NA	NA	
	002			12/30/2005	10:40	5.29E+02	4.38E+02	4.71E+02	NA	NA	NA	4.02E+00	1.21E+01	8.71E+00	4.07E+00	1.22E+01	9.17E+00	NA	NA	NA	
	003			1/12/2006	9:50	7.87E+02	4.47E+02	4.72E+02	NA	NA	NA	3.10E+00	9.31E+00	6.88E+00	2.83E+00	8.49E+00	6.70E+00	NA	NA	NA	
	004			2/15/2006	13:15	8.35E+02	1.65E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	005			3/16/2006	11:50	1.26E+03	2.79E+02	1.85E+02	6.55E-01	8.43E-01	8.29E-01	1.06E+00	5.49E+00	6.18E+00	-1.81E-01	5.63E+00	6.14E+00	NA	NA	NA	
	006			5/26/2006	13:30	7.32E+02	2.33E+02	1.89E+02	1.27E+00	1.02E+00	1.01E+00	1.21E+00	8.34E+00	9.42E+00	5.99E+00	8.98E+00	1.15E+01	NA	NA	NA	
	014			7/12/2006	12:50	6.84E+02	2.36E+02	1.98E+02	3.36E-01	1.36E+00	1.44E+00	1.15E+00	1.13E+01	1.18E+01	-1.14E+00	1.18E+01	1.26E+01	NA	NA	NA	
	015			8/15/2006	11:30	7.66E+02	2.25E+02	1.73E+02	NA	NA	NA	-4.04E+00	6.82E+00	6.33E+00	2.15E+00	6.84E+00	8.29E+00	NA	NA	NA	
	016			6/12/2007	12:54	5.06E+02	4.25E+02	4.39E+02	6.25E-01	8.75E-01	9.54E-01	-8.51E-02	2.94E+00	2.22E+00	7.17E-01	2.00E+00	2.33E+00	-1.46E+00	1.40E+01	1.63E+01	
	017			8/1/2007	13:20	4.90E+02	3.38E+02	2.73E+02	5.21E-02	5.13E-01	6.47E-01	8.49E-01	3.57E+00	4.15E+00	2.88E-01	3.42E+00	3.92E+00	NA	NA	NA	
	018			10/22/2007	16:13	5.30E+02	4.01E+02	4.01E+02	3.41E-01	5.49E-01	6.09E-01	-1.08E+00	3.44E+00	3.64E+00	-1.34E+00	3.52E+00	3.68E+00	NA	NA	NA	
	019			1/22/2008	16:11	7.29E+02	3.27E+02	2.96E+02	6.26E-01	7.26E-01	7.69E-01	1.21E+00	3.14E+00	3.76E+00	-1.79E-01	3.56E+00	3.93E+00	8.87E+00	1.85E+01	2.09E+01	
	019-B[8]			1/22/2008	16:11	2.54E+01	1.68E+02	1.94E+02	1.62E-01	6.14E-01	7.38E-01	7.29E-01	2.57E+00	3.04E+00	-2.53E-01	3.14E+00	3.46E+00	-1.42E+00	1.82E+01	2.15E+01	
	019-D[8]			1/22/2008	16:11	6.05E+02	3.15E+02	2.97E+02	6.43E-01	7.41E-01	7.79E-01	1.11E+00	2.75E+00	3.21E+00	2.38E-01	2.51E+00	2.75E+00	1.14E+01	1.65E+01	1.84E+01	
	019-S[8]			1/22/2008	16:11	2.38E+03	4.62E+02	2.97E+02	1.07E+01	1.68E+00	6.89E-01	1.73E+02	2.04E+01	3.50E+00	-2.33E-01	3.02E+00	3.34E+00	2.61E+02	3.20E+01	2.00E+01	
U3-T2[7]	012	5.7	2.6	10/7/2005	12:00	7.03E+02	3.93E+02	4.15E+02	NA	NA	NA	3.67E+00	1.10E+01	8.06E+00	4.13E+00	1.24E+01	9.39E+00	NA	NA	NA	U3-T2[7]
	013			10/21/2005	12:00	1.47E+03	3.63E+02	4.27E+02	NA	NA	NA	3.33E+00	1.00E+01	7.23E+00	3.00E+00	9.00E+00	6.90E+00	NA	NA	NA	
	014			10/28/2005	12:00	1.28E+03	4.56E+02	4.72E+02	NA	NA	NA	3.44E+00	1.03E+01	7.67E+00	4.28E+00	1.28E+01	9.89E+00	NA	NA	NA	
	015			11/4/2005	12:00	1.19E+03	4.59E+02	4.76E+02	NA	NA	NA	3.41E+00	1.02E+01	7.53E+00	3.86E+00	1.16E+01	8.81E+00	NA	NA	NA	
	016			11/10/2005	12:00	1.64E+03	4.59E+02	4.61E+02	NA	NA	NA	3.81E+00	1.14E+01	8.34E+00	3.98E+00	1.19E+01	9.09E+00	NA	NA	NA	
	017			11/18/2005	12:00	1.13E+03	4.65E+02	4.81E+02	NA	NA	NA	3.97E+00	1.19E+01	8.70E+00	4.15E+00	1.25E+01	9.55E+00	NA	NA	NA	
	018			12/2/2005	12:00	1.33E+03	4.56E+02	4.64E+02	NA	NA	NA	2.31E+00	6.92E+00	5.23E+00	2.58E+00	7.74E+00	6.11E+00	NA	NA	NA	
	001			12/15/2005	13:30	1.29E+03	4.62E+02	4.70E+02	NA	NA	NA	2.77E+00	8.30E+00	6.09E+00	2.85E+00	8.55E+00	6.57E+00	NA	NA	NA	
	002			12/30/2005	10:50	1.69E+03	4.74E+02	4.71E+02	NA	NA	NA	3.81E+00	1.14E+01	8.46E+00	3.49E+00	1.05E+01	8.31E+00	NA	NA	NA	
	003			1/6/2006	8:45	2.42E+03	4.92E+02	4.66E+02	NA	NA	NA	2.86E+00	8.57E+00	6.56E+00	4.04E+00	1.21E+01	9.38E+00	NA	NA	NA	
	004			1/13/2006	13:20	1.78E+03	4.77E+02	4.72E+02	NA	NA	NA	4.01E+00	1.20E+01	8.74E+00	3.41E+00	1.02E+01	7.94E+00	NA	NA	NA	
	005			1/20/2006	11:00	1.75E+03	4.56E+02	4.61E+02	NA	NA	NA	3.40E+00	1.02E+01	7.71E+00	3.27E+00	9.82E+00	7.99E+00	NA	NA	NA	
	006			1/25/2006	11:10	2.32E+03	4.86E+02	4.61E+02	NA	NA	NA	3.96E+00	1.19E+01	8.77E+00	3.17E+00	9.50E+00	7.64E+00	NA	NA	NA	
	007			2/1/2006	11:15	2.13E+03	4.80E+02	4.60E+02	NA	NA	NA	3.17E+00	9.51E+00	7.02E+00	3.47E+00	1.04E+01	7.99E+00	NA	NA	NA	
	009			2/17/2006	9:20	1.92E+03	2.50E+03	6.36E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	010			3/16/2006	12:00	1.69E+03	3.36E+02	2.04E+02	5.87E-01	9.21E-01	1.00E+00	-7.43E-01	6.36E+00	6.83E+00	-1.22E-01	6.33E+00	6.88E+00	NA	NA	NA	
	011			5/26/2006	13:15	1.90E+03	3.86E+02	2.48E+02	1.49E+00	1.11E+00	1.01E+00	1.64E+00	1.01E+01	1.22E+01	5.67E+00	9.40E+00	1.25E+01	NA	NA	NA	
	019			7/12/2006	12:25	1.83E+03	3.78E+02	2.54E+02	7.24E-01	1.72E+00	1.80E+00	2.58E+00	6.90E+00	8.07E+00	1.30E+00	6.69E+00	7.74E+00	NA	NA	NA	
	020			8/15/2006	10:30	1.58E+03	7.79E+02	7.72E+02	NA	NA	NA	-8.87E-01	7.17E+00	7.64E+00	3.29E+00	9.10E+00	1.14E+01	NA	NA	NA	
	021			6/12/2007	9:25	1.45E+03	5.19E+02	4.36E+02	-3.89E-01	7.05E-01	9.59E-01	2.03E-01	2.29E+00	2.54E+00	-1.00E-01	2.42E+00	2.74E+00	5.88E+00	1.39E+01	1.57E+01	
	022			8/1/2007	14:14	1.25E+03	4.62E+02	2.55E+02	-4.84E-02	5.37E-01	7.11E-01	-1.75E+00	3.23E+00	3.20E+00	1.99E-02	3.54E+00	4.00E+00	NA	NA	NA	
	023			10/22/2007	15:07	1.17E+03	4.76E+02	4.02E+02	2.36E-01	5.28E-01	6.08E-01	-7.13E-02	2.82E+00	3.11E+00	2.53E+00	3.50E+02	3.81E+00	NA	NA	NA	
	024			1/22/2008	16:16	1.33E+03	3.83E+02	2.97E+02	4.31E-01	8.54E-01	9.63E-01	7.39E-01	2.97E+00	3.39E+00	-1.14E+00	3.39E+00	2.86E+00	2.78E+00	1.62E+01	1.89E+01	
U1-CSS	001	14.0	6.1	1/30/2007	11:45	1.76E+03	6.00E+02	5.70E+02	1.95E+01	2.19E+00	1.70E+00	7.00E-01	1.32E+00	1.40E+00	-3.20E-01	1.38E+00	1.60E+00	1.64E+01	2.67E+01	2.90E+01	U1-CSS
	002			2/27/2007	11:24	4.32E+03	6.90E+02	5.70E+02	1.38E+01	2.31E+00	2.10E+00	1.11E+00	1.95E+00	2.10E+00	7.00E-01	1.95E+00	2.20E+00	-1.30E+00	2.55E+01	2.90E+01	
	003			6/13/2007	11:39	1.53E+03	5.25E+02	4.35E+02	1.45E+01	1.91E+00	6.24E-01	8.50E-01	3.57E+00	4.15E+00	2.82E+00	4.28E+00	4.93E+00	4.42E+00	1.95E+01	2.22E+01	
	004			8/6/2007	15:55	2.80E+03	2.81E+02	1.95E+02	2.68E+01	2.33E+00	5.71E-01	2.53E+00	4.30E+00	4.61E+00	2.48E+00	6.84E+00	4.17E+00	NA	NA	NA	
	005			1/15/2008	14:54	4.95E+02	2.04E+02	1.76E+02	7.73E+00	1.31E+00	6.91E-01	2.85E+00	6.56E+00	3.36E+00	-6.88E-02	3.33E+00	3.71E+00	NA	NA	NA	

TABLE 5
HISTORIC GROUNDWATER ANALYTICAL RESULTS
INDIAN POINT ENERGY CENTER
BUCHANAN, NY

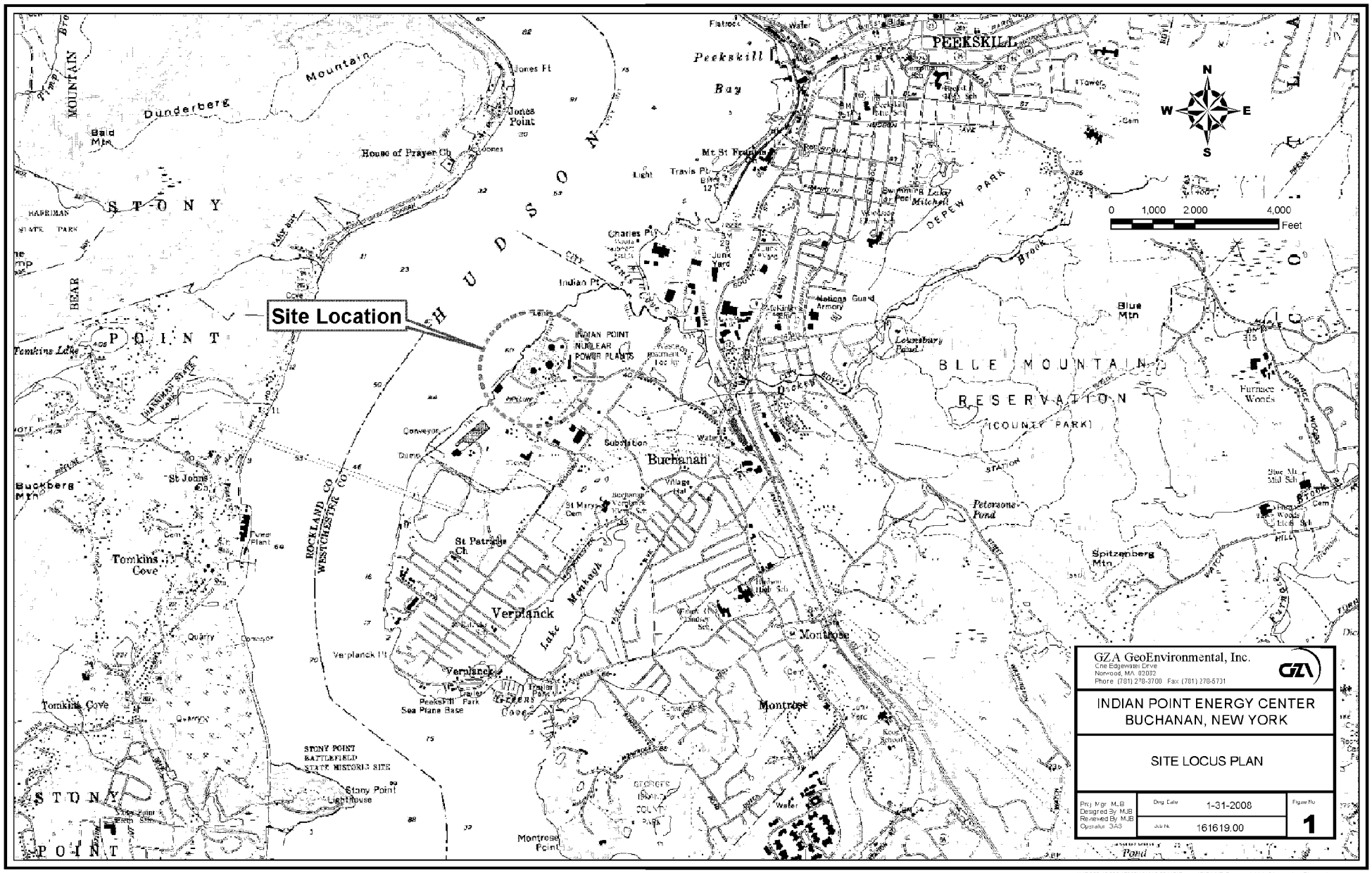
Well ID[1]	SAMPLE ID	SAMPLE ZONE CENTER, depth ft below top of casing[2]	SAMPLE ZONE CENTER, elevation ft msl[2]	SAMPLE COLLECTION		ANALYSIS RESULTS															Well ID[1]
						TRITIUM (pCi/L)			Sr-90 (pCi/L)			Cs-137 (pCi/L)			Co-60 (pCi/L)			Ni-63 (pCi/L)			
				Date	Time	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	Result	Std. Dev.	MDC	
LAF-002	001	NA	-22.3	6/6/2006	12:47	3.98E+01	3.60E+02	6.98E+02	1.38E+00	1.85E+00	1.93E+00	-3.88E+00	1.53E+00	1.59E+00	-2.24E+00	1.25E+01	1.34E+01	-2.84E-01	2.13E+01	2.34E+01	LAF-002
	001			6/6/2006	12:47	5.20E+01	1.71E+02	1.83E+02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	003			9/19/2006	13:14	-4.71E+01	1.50E+02	1.70E+02	-5.08E-01	8.90E-01	1.07E+00	6.45E-02	9.05E+00	1.01E+00	-2.76E+00	6.35E+00	4.99E+00	NA	NA	NA	
	004			12/4/2006	13:38	-1.20E101	1.62E102	1.60E102	-1.20E-01	7.80E-01	8.50E-01	NA	NA	NA	9.00E-01	5.40E100	6.30E100	-2.50E100	7.20E100	8.10E100	
	005			3/7/2007	14:45	-8.30E+01	1.56E+02	1.60E+02	8.20E-01	1.50E+00	1.60E+00	3.10E+00	4.80E+00	5.10E+00	-1.20E+00	5.40E+00	7.30E+00	NA	NA	NA	
	006			6/7/2007	13:18	-6.85E+00	1.33E+02	1.54E+02	3.19E-01	6.02E-01	6.79E-01	7.80E-01	2.63E+00	3.04E+00	6.55E-01	2.60E+00	3.04E+00	NA	NA	NA	
	007			10/9/2007	9:35	7.46E+01	1.37E+02	1.55E+02	4.43E-01	4.98E-01	5.18E-01	-5.45E-01	2.10E+00	1.69E+00	-1.44E+00	1.78E+00	1.39E+00	NA	NA	NA	
	008			12/4/2007	10:50	9.00E+01	1.46E+02	1.62E+02	4.89E-01	6.20E-01	6.62E-01	-6.91E-01	4.59E+00	4.37E+00	-2.35E+00	3.72E+00	3.39E+00	NA	NA	NA	
RW-1	001	107.5	-30.0	10/25/2006	11:37	6.41E+04	4.88E+03	8.52E+02	-8.44E-01	1.29E+00	1.52E+00	9.50E-01	4.75E+00	5.45E+00	8.01E-01	4.62E+00	5.32E+00	NA	NA	NA	RW-1
	002			10/25/2006	14:15	2.95E+04	2.28E+03	5.85E+02	3.10E-01	8.79E-01	9.23E-01	1.99E+00	5.23E+00	5.98E+00	4.31E-01	4.74E+00	5.22E+00	NA	NA	NA	
	003			10/31/2006	12:27	1.07E105	8.06E103	1.10E103	-3.70E-01	9.51E-01	1.09E100	7.18E-01	4.23E100	4.71E100	7.34E-01	3.04E100	3.61E100	NA	NA	NA	
	004			10/31/2006	15:55	2.63E+04	2.04E+03	5.51E+02	-1.06E+00	1.15E+00	1.39E+00	-2.26E-01	3.86E+00	3.99E+00	-6.22E-03	2.86E+00	3.21E+00	NA	NA	NA	
	005			10/31/2006	20:00	1.89E+04	1.49E+03	4.73E+02	9.06E-01	1.15E+00	1.14E+00	5.93E-01	4.51E+00	5.21E+00	1.65E+00	5.31E+00	6.60E+00	NA	NA	NA	
	006			11/1/2006	12:00	1.84E+04	1.45E+03	4.66E+02	3.64E-01	1.03E+00	1.08E+00	-3.39E+00	4.14E+00	3.90E+00	-5.25E-01	4.01E+00	4.19E+00	NA	NA	NA	
	007			11/2/2006	12:00	2.40E+04	2.13E+03	1.00E+03	1.50E-01	6.00E-01	6.70E-01	1.12E+00	2.37E+00	2.60E+00	-8.50E-01	2.37E+00	2.90E+00	NA	NA	NA	
	008			11/3/2006	9:00	3.06E+04	2.34E+03	1.00E+03	4.80E-01	7.20E-01	7.80E-01	-1.05E+00	2.19E+00	2.60E+00	8.20E-01	2.40E+00	2.70E+00	NA	NA	NA	
MH-5[9]	001	NA	NA	6/29/2007	12:15	1.41E+03	2.33E+02	1.87E+02	-3.26E-01	6.21E-01	9.20E-01	-9.57E-01	3.40E+00	3.60E+00	6.39E-02	3.13E+00	3.49E+00	NA	NA	NA	MH-5[9]
	002			8/10/2007	15:15	1.17E+03	5.21E+02	4.56E+02	3.17E-02	7.84E-01	9.38E-01	-5.40E-01	3.17E+00	2.87E+00	-8.50E-01	2.84E+00	2.93E+00	NA	NA	NA	
	003			10/26/2007	13:30	1.62E+03	2.30E+02	1.84E+02	1.60E-01	6.06E-01	7.10E-01	2.15E-01	2.64E+00	2.95E+00	-6.20E-01	2.90E+00	3.06E+00	NA	NA	NA	
	004			1/16/2008	12:30	9.28E+02	2.45E+02	1.77E+02	4.62E-01	8.33E-01	9.37E-01	5.23E-01	2.78E+00	3.09E+00	5.97E-01	2.55E+00	2.90E+00	NA	NA	NA	
B-1[9]	001	NA	NA	6/29/2007	12:35	7.93E+02	2.07E+02	1.89E+02	-3.83E-01	6.75E-01	9.80E-01	0.00E+00	7.04E+00	4.44E+00	-9.13E-01	3.30E+00	3.40E+00	NA	NA	NA	B-1[9]
	002			8/14/2007	11:30	1.10E+03	2.25E+02	1.90E+02	1.29E-02	5.93E-01	7.38E-01	0.00E+00	6.71E+00	3.93E+00	9.94E-01	3.54E+00	4.16E+00	NA	NA	NA	
	003			10/22/2007	14:49	1.10E+03	4.68E+02	4.01E+02	-1.56E-01	3.72E-01	5.51E-01	1.68E+01	5.82E+00	3.82E+00	1.33E+00	3.23E+00	3.53E+00	NA	NA	NA	
	004			1/22/2008	13:08	2.27E+02	1.61E+02	1.71E+02	1.29E-01	5.00E-01	6.12E-01	3.13E-01	2.54E+00	2.83E+00	-9.46E-02	2.72E+00	3.01E+00	NA	NA	NA	
B-6[9]	001	NA	NA	7/5/2007	9:00	4.03E+02	1.67E+02	1.69E+02	1.01E-01	4.97E-01	5.67E-01	1.29E+00	3.46E+00	4.04E+00	1.09E+00	3.51E+00	4.15E+00	NA	NA	NA	B-6[9]
	002			8/14/2007	8:30	5.46E+01	1.68E+02	1.92E+02	-3.06E-01	6.20E-01	8.32E-01	5.63E-01	2.97E+00	3.42E+00	-2.88E+00	3.31E+00	2.35E+00	NA	NA	NA	
	003			10/22/2007	11:30	1.07E+02	1.70E+02	1.90E+02	-7.54E-02	4.34E-01	5.83E-01	2.39E+00	2.33E+00	3.04E+00	1.04E+00	2.46E+00	3.05E+00	NA	NA	NA	
	004			1/16/2008	16:50	4.72E+02	2.04E+02	1.79E+02	1.05E-01	7.05E-01	8.83E-01	3.96E+00	4.41E+00	3.32E+00	1.29E+00	3.15E+00	3.66E+00	NA	NA	NA	

Notes:

1. For nested multi-level monitoring wells, suffix of well ID indicates depth (rounded to nearest foot) from reference point on casing to bottom of well screen. For Waterloo multi-level systems, suffix indicates depth (rounded to nearest foot) from reference point on casing to top of sampling port. Well IDs without a suffix are open bedrock wellbores.
2. Sampling depths within sampling intervals (location of pump intake) have been established at location of most transmissive zone to the extent possible.
3. NA indicates that the constituent was not analyzed.
4. MW-32 currently contains a Waterloo Multilevel Sampling System configured with these sampling intervals. A previous installation of a Waterloo System within MW-32 (prior to the September 10, 2007 installation of the new configuration) was configured with different sampling intervals (indicated by footnote 5). New configuration sampling intervals listed in parenthesis are representatively equivalent to the old configuration sampling interval immediately preceding it. New configuration sampling intervals not listed in parenthesis have no representative equivalent within the old configuration.
5. These sampling intervals were part of the previous Waterloo System configuration in MW-32, prior to the new configuration installed on September 10, 2007. New configuration sampling intervals are indicated by footnote 4.
6. Dot pattern denotes sampling interval is positioned within overburden soils. Open box indicates sampling interval is in bedrock.
7. Sample IDs for this well were not assigned in chronological order.
8. At monitoring well U3T1, sample IDs 019-B, 019-D, and 019-S were collected for laboratory and field QAQC (B=Blind, D=Duplicate, S-Spike). QAQC samples were not included in calculations for rolling averages.
9. These locations are storm drains, not monitoring wells.

IPEC00109864

FIGURES



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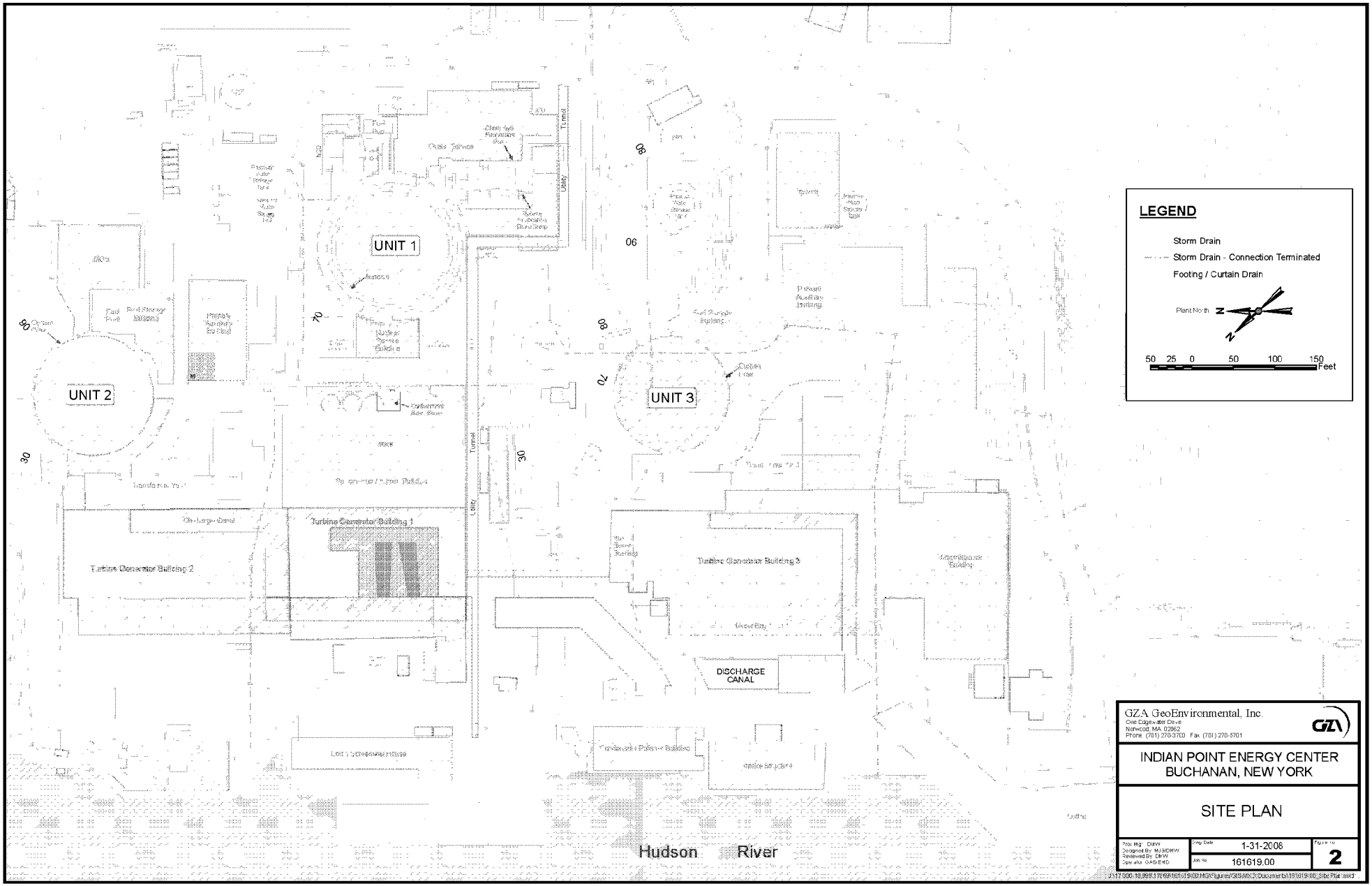

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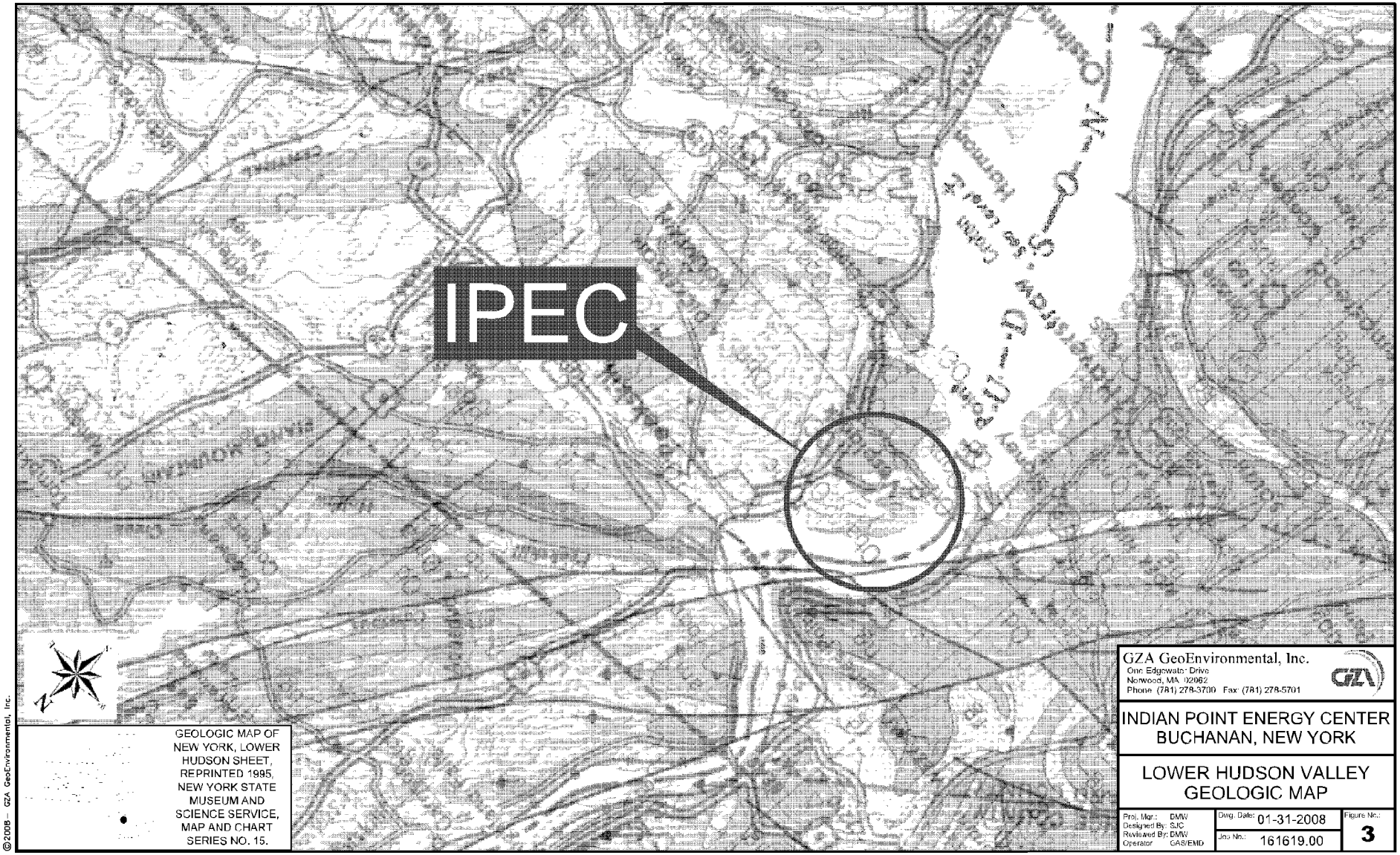
INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

SITE PLAN

Prep'd By: DMW Designed By: MJS/DMW Reviewed By: DMW Service: OAS/EMD	Dwg Date: 1-31-2006 Job No: 161619.00	Figure No: 2

J:\17000-18999\17669\161619\00\MGN\Figures\GIS\MXD\Document\161619-00_Site Plan.mxd

IPEC00109867



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INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

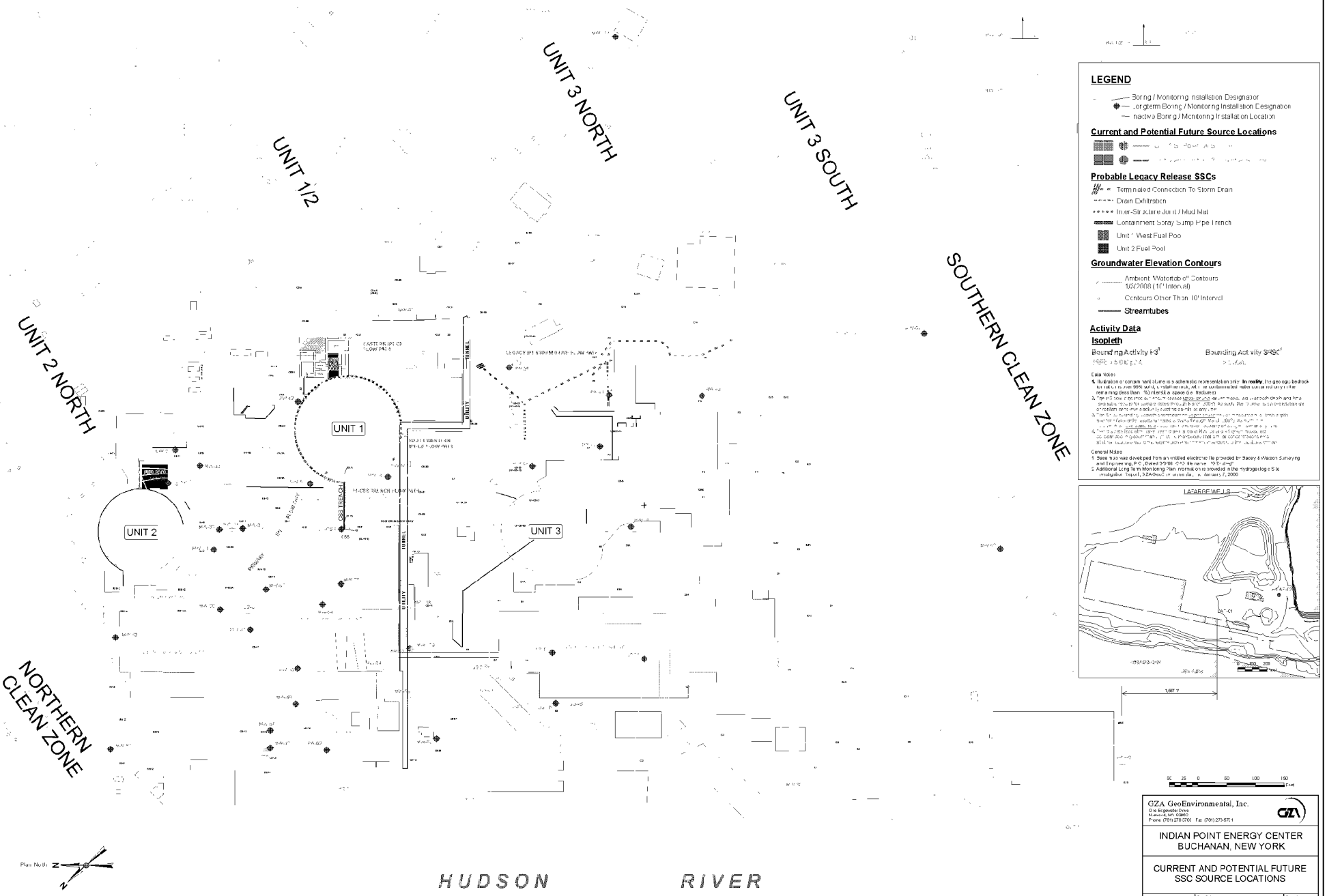
LOWER HUDSON VALLEY
GEOLOGIC MAP

Proj. Mgr.: DMW Designed By: SJC Reviewed By: DMW Operator GAS/EMD	Dwg. Date: 01-31-2008 Job No.: 161619.00	Figure No.: 3

GZA–J:\17,000–18,999\17869\161619–00.MG\Figures\CADD\161619–00_Lower Hudson Valley Geologic Map.dwg [FIG–2] February 04, 2008 – 9:59am gregory.scott

IPEC00109868

CURRENT AND POTENTIAL FUTURE SSC SOURCE LOCATIONS



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INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

CURRENT AND POTENTIAL FUTURE SSC SOURCE LOCATIONS

Proj. Mgr: MJE Designed By: NJB Reviewed By: NJB Reviewed: RAS	Orig. Date: 5-14-2008 Job No: 161619.30	Figure No: 4

IPEC00109869

1st QUARTER 2008 SHALLOW AND DEEP GROUNDWATER CONTOURS

SHALLOW GROUNDWATER ELEVATIONS AT LOW TIDE

Well ID	GW Elevation (feet msl) Quarter 2[1] 2007	Quarter 3[2] 2007	Quarter 4[3] 2007	Quarter 1[4] 2008
HP1	NA	-0.36	-1.57	[illegible]
I2	50.23	48.62	51.87	53.73
MW-31-49	44.09	NA	45.40	47.10
MW-32-48	NA	42.12	46.73	[illegible]
MW-32-59	42.79[6]	41.44	45.99	47.99
MW-33	10.08	9.30	10.33	11.49
MW-34	9.87	9.32	10.44	11.63
MW-35	10.03	9.67	10.37	11.65
MW-36-24	8.89	[illegible]	7.67	[illegible]
MW-37-22	5.51	5.19	4.83	4.66
MW-38	3.01	2.19	1.45	2.12
MW-39-67	NA	NA	26.84	32.10
MW-40-27	NA	NA	55.45	60.19
MW-41-40	29.87	NA	32.43	36.77
MW-42-49	NA	NA	34.55	34.96
MW-43-28	32.75	31.08	31.93	33.47
MW-44-66	33.36	NA	34.35	37.99
MW-45-42	NA	24.32	28.47	[illegible]
MW-46	12.80	11.92	12.57	15.05
MW-47-57	21.83	20.77	23.05	27.76
MW-48-23	-0.08	-0.27	-0.39	[illegible]
MW-49-26	1.04	NA	-0.37	-0.62
MW-50-42	7.24	NA	NA	NA
MW-51-40	NA	48.69	50.07	51.65
MW-52-11	6.04	[illegible]	8.12	8.47

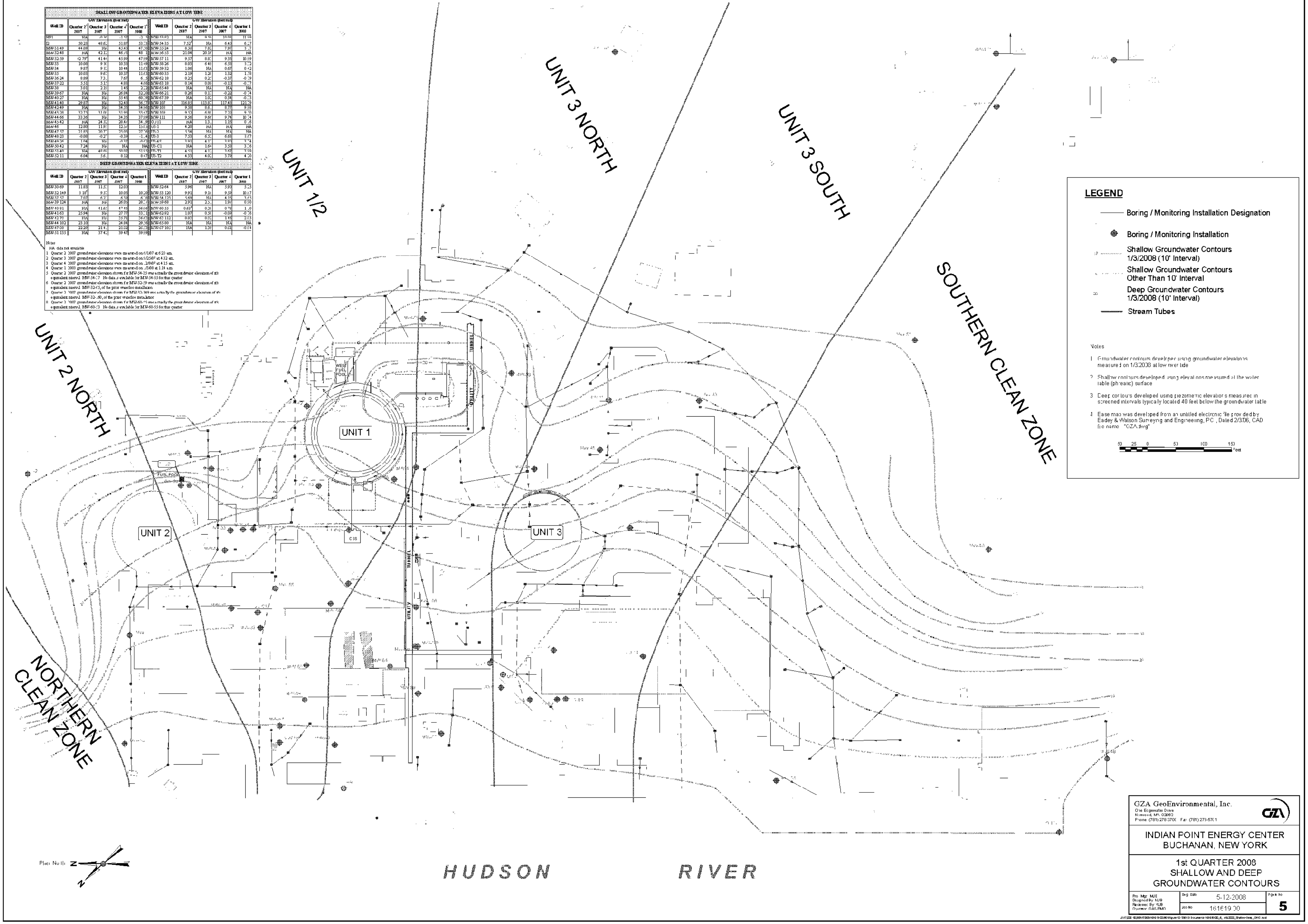
Well ID	GW Elevation (feet msl) Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008
MW-53-82	NA	9.56	10.08	[illegible]
MW-54-35	7.52[5]	NA	6.40	6.17
MW-55-24	8.56	7.82	7.97	[illegible]
MW-56-53	21.04	20.16	NA	NA
MW-57-11	9.57	8.82	9.35	10.99
MW-58-26	8.03	6.49	6.53	[illegible]
MW-59-32	1.06	NA	0.67	0.42
MW-60-35	2.19	1.28	1.32	1.78
MW-62-18	0.25	0.25	-0.37	-0.79
MW-63-18	0.14	0.09	-0.13	-0.17
MW-65-48	NA	NA	NA	NA
MW-66-21	0.26	0.17	-0.22	-0.74
MW-67-39	NA	1.02	0.34	-0.13
MW-107	116.85	113.87	117.43	121.79
MW-108	9.58	[illegible]	8.77	9.98
MW-109	9.52	6.80	7.22	9.10
MW-111	9.56	9.60	9.74	10.74
[illegible]	NA	[illegible]	1.15	[illegible]
U3-1	4.20	NA	NA	NA
U3-2	5.34	NA	NA	NA
U3-3	7.53	6.52	6.63	[illegible]
U3-4S	3.91	4.17	3.80	3.74
U3-C1	NA	1.64	3.53	3.16
U3-T1	4.51	4.12	3.67	3.69
U3-T2	4.33	4.02	3.79	4.10

DEEP GROUNDWATER ELEVATIONS AT LOW TIDE

Well ID	GW Elevation (feet msl) Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008
MW-30-69	11.83	11.52	12.00	
MW-32-149	3.18[7]	9.37	10.05	10.10
MW-37-57	7.07	6.27	6.39	6.18
MW-39-124	NA	NA	26.05	28.17
MW-40-81	NA	[illegible]	47.45	56.66
MW-41-63	25.94	NA	27.77	33.11
MW-42-78	NA	NA	35.71	36.73
MW-44-102	23.10	NA	24.84	29.56
MW-47-80	22.29	[illegible]	21.02	26.53
MW-51-135	NA	37.42	39.47	39.99

Well ID	GW Elevation (feet msl) Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008
MW-52-64	5.96	NA	5.90	5.15
MW-53-120	9.91	9.18	9.59	10.87
MW-54-123	5.69	NA	4.15	3.65
MW-59-68	2.91	[illegible]	1.97	0.90
MW-60-55	0.63[8]	0.29	0.73	1.10
MW-62-92	1.07	0.58	-0.09	-0.76
MW-63-112	0.03	0.02	1.45	2.05
MW-65-80	NA	NA	NA	NA
MW-67-105	NA	1.39	0.61	-0.04

Notes
NA data not available
1 Quarter 2 2007 groundwater elevations were measured on 6/1/07 at 6:20 am.
2 Quarter 3 2007 groundwater elevations were measured on 9/25/07 at 4:32 am.
3 Quarter 4 2007 groundwater elevations were measured on 12/9/07 at 4:15 am.
4 Quarter 1 2008 groundwater elevations were measured on 1/3/08 at 1:14 a.m.
5 Quarter 2 2007 groundwater elevation shown for MW-54-35 was actually the groundwater elevation of it's equivalent interval MW-54-37. No data is available for MW-54-35 for this quarter.
6 Quarter 2 2007 groundwater elevation shown for MW-32-59 was actually the groundwater elevation of it's equivalent interval MW-32-65, of the prior waterloo installation.
7 Quarter 2 2007 groundwater elevation shown for MW-32-149 was actually the groundwater elevation of it's equivalent interval MW-32-160, of the prior waterloo installation.
8 Quarter 2 2007 groundwater elevation shown for MW-60-55 was actually the groundwater elevation of it's equivalent interval MW-60-53. No data is available for MW-60-55 for this quarter.



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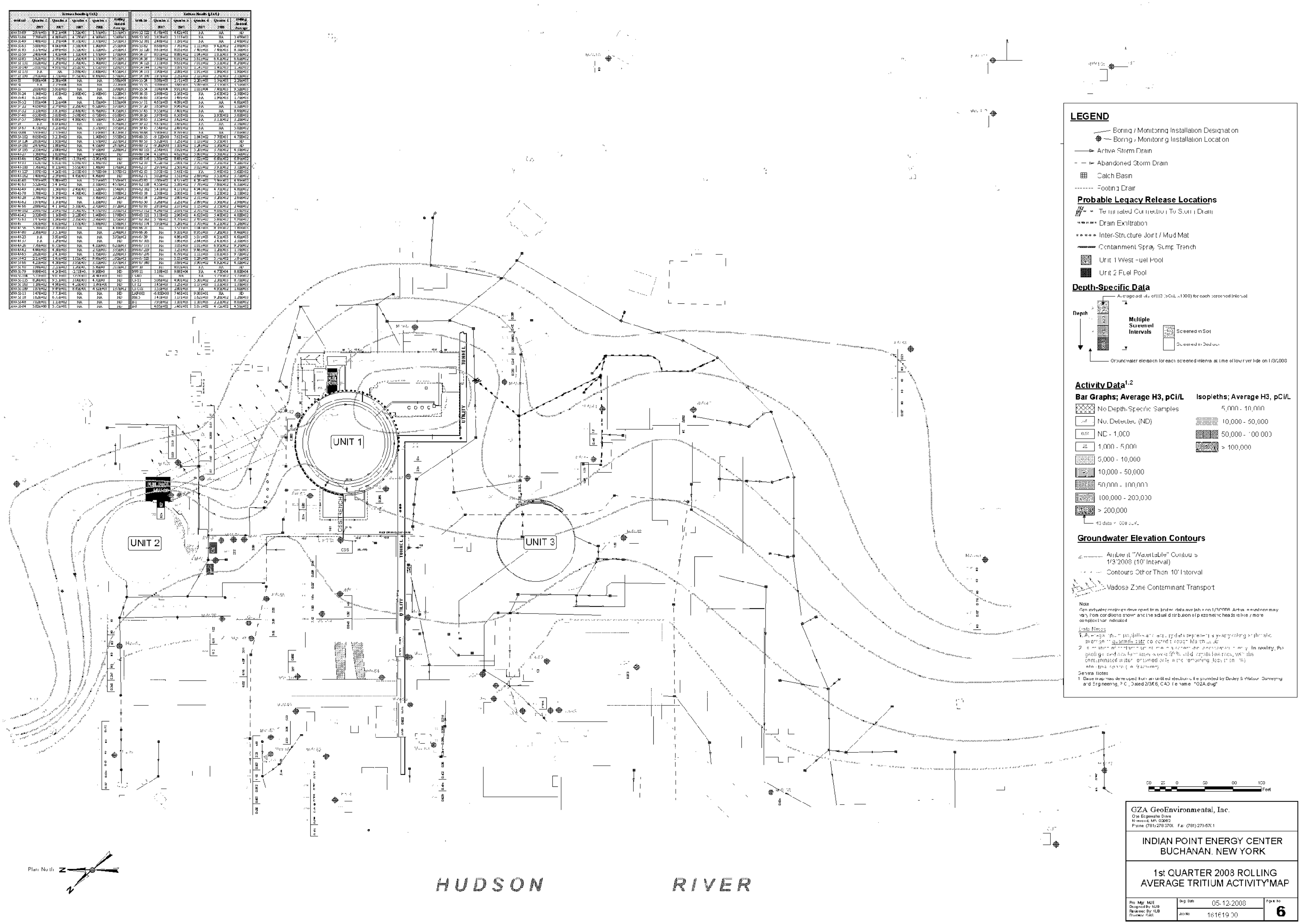
1st QUARTER 2008
SHALLOW AND DEEP
GROUNDWATER CONTOURS

Dwg Date: 5-12-2008
Job No: 41.0161619.30
Figure No: 5

IPEC00109870

1st QUARTER 2008 ROLLING AVERAGE[1] TRITIUM ACTIVITY MAP

Tritium Results (pCi/L)						Tritium Results (pCi/L)					
Well ID	Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008	Rolling Annual Average	Well ID	Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008	Rolling Annual Average
MW-30-69	2.97E+05	8.21E+04	1.28E+05	1.37E+05	1.57E+05	MW-52-122	6.78E+01	4.42E+01	NA	NA	ND
MW-30-84	7.79E+03	4.80E+03	4.77E+03	4.34E+03	5.24E+03	MW-52-162	2.82E+02	2.11E+02	NA	NA	2.47E+02
MW-31-49	1.48E+03	1.11E+04	8.77E+02	3.37E+03	5.91E+03	MW-52-181	2.48E+02	1.19E+02	NA	NA	2.48E+02
MW-31-63	3.00E+03	4.06E+04	3.36E+04	1.84E+04	2.53E+04	MW-53-82	8.68E+03	7.76E+02	1.11E+03	9.41E+02	2.88E+03
MW-31-85	3.17E+02	2.60E+03	5.21E+03	1.51E+03	2.35E+03	MW-53-120	9.61E+03	8.05E+03	7.40E+03	7.48E+03	8.14E+03
MW-32-59	2.40E+04	1.41E+04	1.11E+04	1.37E+04	1.70E+04	MW-54-37	8.01E+02	8.88E+02	1.04E+03	1.01E+03	9.51E+02
MW-32-85	5.42E+03	5.70E+03	1.26E+04	1.17E+04	8.51E+03	MW-54-58	7.60E+02	6.95E+02	5.61E+02	6.41E+02	6.65E+02
MW-32-131	3.02E+02	1.29E+02	3.74E+02	5.34E+02	3.35E+02	MW-54-123	1.11E+03	9.63E+02	7.01E+02	5.51E+02	8.27E+02
MW-32-149	3.81E+02	4.93E+02	2.54E+02	1.15E+03	1.29E+03	MW-54-144	1.34E+03	1.39E+03	1.24E+03	1.40E+03	1.34E+03
MW-32-173	NA	NA	5.89E+03	3.40E+03	4.55E+03	MW-54-173	1.90E+03	2.06E+03	1.91E+03	1.84E+03	1.93E+03
MW-32-190	2.41E+03	1.72E+03	9.75E+02	8.89E+03	3.70E+03	MW-54-190	1.87E+03	2.25E+03	2.13E+03	2.19E+03	2.11E+03
MW-33	9.06E+04	2.30E+04	NA	NA	5.58E+04	MW-55-24	3.08E+03	2.71E+03	2.20E+03	1.14E+03	2.28E+03
MW-34	NA	2.21E+04	NA	NA	2.21E+04	MW-55-35	3.09E+03	3.68E+03	5.16E+03	2.36E+03	3.56E+03
MW-35	2.03E+03	3.95E+03	NA	NA	3.99E+03	MW-55-54	1.04E+04	9.91E+03	1.03E+04	7.48E+03	9.53E+03
MW-36-24	1.54E+02	1.65E+02	2.85E+02	2.16E+03	1.22E+03	MW-56-53	2.89E+02	2.16E+02	NA	2.61E+02	2.55E+02
MW-36-41	6.11E+03	NA	NA	NA	6.11E+03	MW-56-83	1.83E+03	1.49E+03	NA	1.94E+03	1.75E+03
MW-36-52	1.01E+04	1.25E+04	NA	1.13E+04	1.13E+04	MW-57-11	4.61E+03	4.09E+03	NA	NA	4.61E+03
MW-37-22	4.03E+03	2.79E+03	2.26E+03	6.34E+03	3.91E+03	MW-57-20	1.63E+03	9.96E+02	NA	NA	1.33E+03
MW-37-32	3.15E+03	3.81E+03	2.49E+03	6.70E+03	4.05E+03	MW-57-45	9.55E+02	7.40E+02	NA	NA	8.48E+02
MW-37-40	6.53E+03	3.83E+03	5.69E+03	6.75E+03	6.16E+03	MW-58-26	3.97E+02	8.30E+02	NA	2.91E+02	3.83E+02
MW-37-57	5.89E+03	6.68E+03	4.88E+03	6.56E+03	6.12E+03	MW-58-65	3.15E+02	3.42E+02	NA	3.11E+02	3.23E+02
MW-38	NA	6.18E+03	NA	NA	6.18E+03	MW-59-32	4.67E+02	1.69E+02	NA	NA	3.18E+02
MW-39-67	4.73E+02	5.25E+02	NA	3.37E+02	3.35E+02	MW-59-45	7.54E+02	2.49E+02	NA	NA	5.02E+02
MW-39-84	5.91E+02	2.51E+02	NA	1.44E+01	4.21E+02	MW-59-68	5.90E+02	8.19E+02	NA	NA	7.05E+02
MW-39-102	8.05E+02	3.21E+02	NA	1.34E+03	5.53E+02	MW-60-35	-9.12E+00	7.61E+02	1.84E+02	7.78E+01	4.73E+02
MW-39-124	2.61E+02	1.93E+02	NA	1.57E+03	2.27E+02	MW-60-53	5.32E+01	1.25E+02	1.13E+02	5.30E+01	ND
MW-39-183	2.47E+02	1.88E+02	NA	4.55E+0	2.47E+02	MW-60-72	-9.26E+00	1.10E+02	1.24E+02	1.30E+02	ND
MW-39-195	2.55E+02	2.00E+02	NA	9.53E+0	2.28E+02	MW-60-135	2.54E+01	3.92E+02	5.20E+02	3.70E+02	4.51E+02
MW-40-27	1.30E+02	1.02E+02	NA	1.44E+02	ND	MW-60-154	4.15E+01	4.02E+02	5.80E+02	5.29E+02	5.34E+02
MW-40-46	1.42E+02	9.48E+01	-1.29E+01	-1.36E+01	ND	MW-60-176	5.30E+02	8.49E+02	7.02E+02	6.69E+02	6.80E+02
MW-40-81	1.63E+02	6.95E+01	6.39E+01	1.70E+02	ND	MW-62-18	4.52E+02	5.08E+02	3.76E+02	3.24E+02	4.28E+02
MW-40-100	1.76E+02	8.12E+01	5.55E+01	1.88E+0	1.76E+02	MW-62-37	2.97E+02	2.50E+02	3.02E+02	3.91E+02	3.13E+02
MW-40-127	1.37E+02	4.26E+01	2.63E+01	9.75E+00	1.37E+02	MW-62-53	3.93E+02	3.45E+02	NA	3.49E+02	3.62E+02
MW-40-162	1.40E+02	2.29E+01	4.45E+01	4.70E+0	ND	MW-62-71	5.02E+02	1.51E+02	2.69E+02	3.51E+02	3.75E+02
MW-41-40	3.91E+03	3.80E+02	NA	2.15E+03	1.50E+03	MW-62-92	7.00E+02	4.37E+02	4.28E+02	3.94E+02	4.90E+02
MW-41-63	5.52E+02	5.41E+02	NA	3.16E+02	4.57E+02	MW-62-138	4.55E+02	5.38E+02	7.78E+02	7.08E+02	6.50E+02
MW-42-49	1.34E+03	1.50E+03	2.45E+03	1.32E+03	1.54E+03	MW-62-182	5.41E+02	4.17E+02	4.94E+02	4.70E+02	4.80E+02
MW-42-78	3.78E+02	3.19E+02	4.34E+02	3.46E+02	3.38E+02	MW-63-18	2.30E+02	2.00E+02	1.49E+02	1.21E+02	2.15E+02
MW-43-28	2.78E+02	9.56E+01	NA	3.06E+02	2.32E+02	MW-63-34	2.28E+02	2.80E+02	2.31E+02	3.28E+02	2.60E+02
MW-43-62	1.97E+02	1.14E+02	NA	1.35E+02	ND	MW-63-50	3.26E+02	2.25E+02	2.89E+02	3.50E+02	2.99E+02
MW-44-66	2.68E+02	4.11E+02	5.15E+02	2.71E+02	3.72E+02	MW-63-93	2.81E+02	2.37E+02	1.15E+02	2.12E+02	2.44E+02
MW-44-102	2.36E+02	2.34E+02	5.24E+02	4.17E+02	3.38E+02	MW-63-112	4.24E+02	2.09E+02	2.73E+02	4.08E+02	3.61E+02
MW-45-42	2.32E+03	1.16E+03	2.22E+03	1.14E+03	1.79E+03	MW-63-121	3.11E+02	2.96E+02	4.62E+02	5.40E+02	4.02E+02
MW-45-61	1.47E+03	1.50E+03	2.15E+03	2.56E+03	1.75E+03	MW-63-163	5.78E+02	4.74E+02	3.49E+02	5.68E+02	4.91E+02
MW-46	3.43E+03	6.62E+02	1.67E+03	5.49E+02	1.58E+03	MW-63-174	5.93E+02	5.28E+02	5.70E+02	6.21E+02	5.29E+02
MW-47-56	5.24E+02	2.70E+02	NA	NA	4.10E+02	MW-66-21	NA	3.57E+03	1.08E+03	8.16E+02	1.80E+03
MW-47-80	2.36E+03	3.51E+03	NA	NA	2.94E+03	MW-66-36	NA	9.10E+03	8.95E+03	7.28E+03	8.44E+03
MW-48-23	NA	3.93E+02	NA	NA	3.93E+02	MW-67-39	NA	4.86E+03	5.07E+03	4.31E+03	4.61E+03
MW-48-37	NA	1.29E+02	NA	NA	ND	MW-67-105	NA	1.86E+03	2.04E+03	2.41E+03	2.33E+03
MW-49-26	7.76E+03	6.72E+03	NA	4.31E+03	6.25E+03	MW-67-173	NA	1.05E+03	1.01E+03	6.91E+02	9.29E+02
MW-49-42	4.44E+03	4.90E+03	NA	2.31E+03	3.55E+03	MW-67-219	NA	1.25E+03	9.46E+02	1.28E+03	1.19E+03
MW-49-65	2.62E+03	2.41E+03	NA	1.56E+03	2.29E+03	MW-67-276	NA	6.79E+02	1.11E+03	1.10E+03	9.78E+02
MW-50-42	2.15E+02	1.45E+02	1.01E+02	9.48E+01	1.92E+02	MW-67-323	NA	3.15E+02	1.29E+03	3.74E+02	5.84E+02
MW-50-66	4.21E+03	4.30E+03	3.25E+03	3.31E+03	3.97E+03	MW-67-340	NA	3.69E+02	5.90E+02	4.91E+02	4.53E+02
MW-51-40	1.98E+02	1.35E+02	1.31E+02	5.86E+0	1.11E+02	MW-10	NA	8.21E+01	NA	NA	ND
MW-51-79	9.89E+01	4.29E+01	-2.21E+01	9.36E+0	ND	MW-11	1.19E+05	9.88E+04	NA	4.71E+04	8.83E+04
MW-51-104	5.71E+01	9.11E+01	3.67E+01	-4.44E+01	ND	[illegible]	NA	NA	NA	3.71E+02	3.71E+02
MW-51-135	8.24E+01	9.51E+01	3.14E+01	4.71E+0	ND	U3-T1	5.06E+02	4.90E+02	5.50E+02	2.39E+03	8.73E+02
MW-51-163	1.18E+02	4.98E+01	4.25E+01	1.99E+01	ND	U3-T2	1.45E+03	1.25E+03	1.17E+03	1.31E+03	1.30E+03
MW-51-189	1.87E+02	9.49E+01	8.45E+00	-4.32E+00	1.37E+02	U1-CSS	1.53E+03	2.80E+03	NA	4.91E+02	1.61E+03
MW-52-11	1.47E+02	7.71E+01	NA	NA	ND	LAF-002	-6.85E+00	7.46E+01	9.00E+01	NA	ND
MW-52-18	1.62E+02	6.75E+01	NA	NA	ND	MH-5	1.41E+03	1.17E+03	1.62E+03	9.28E+02	1.28E+03
MW-53-48	7.02E+01	1.15E+02	NA	NA	ND	B-1	7.93E+02	1.10E+03	1.10E+03	2.21E+02	8.06E+02
MW-53-64	3.82E+00	3.72E+01	NA	NA	ND	B-6	4.03E+02	5.46E+01	1.07E+02	4.72E+02	4.33E+02



GZA GeoEnvironmental, Inc.

INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

1st QUARTER 2008 ROLLING AVERAGE TRITIUM ACTIVITY MAP

05-12-2008

18161930

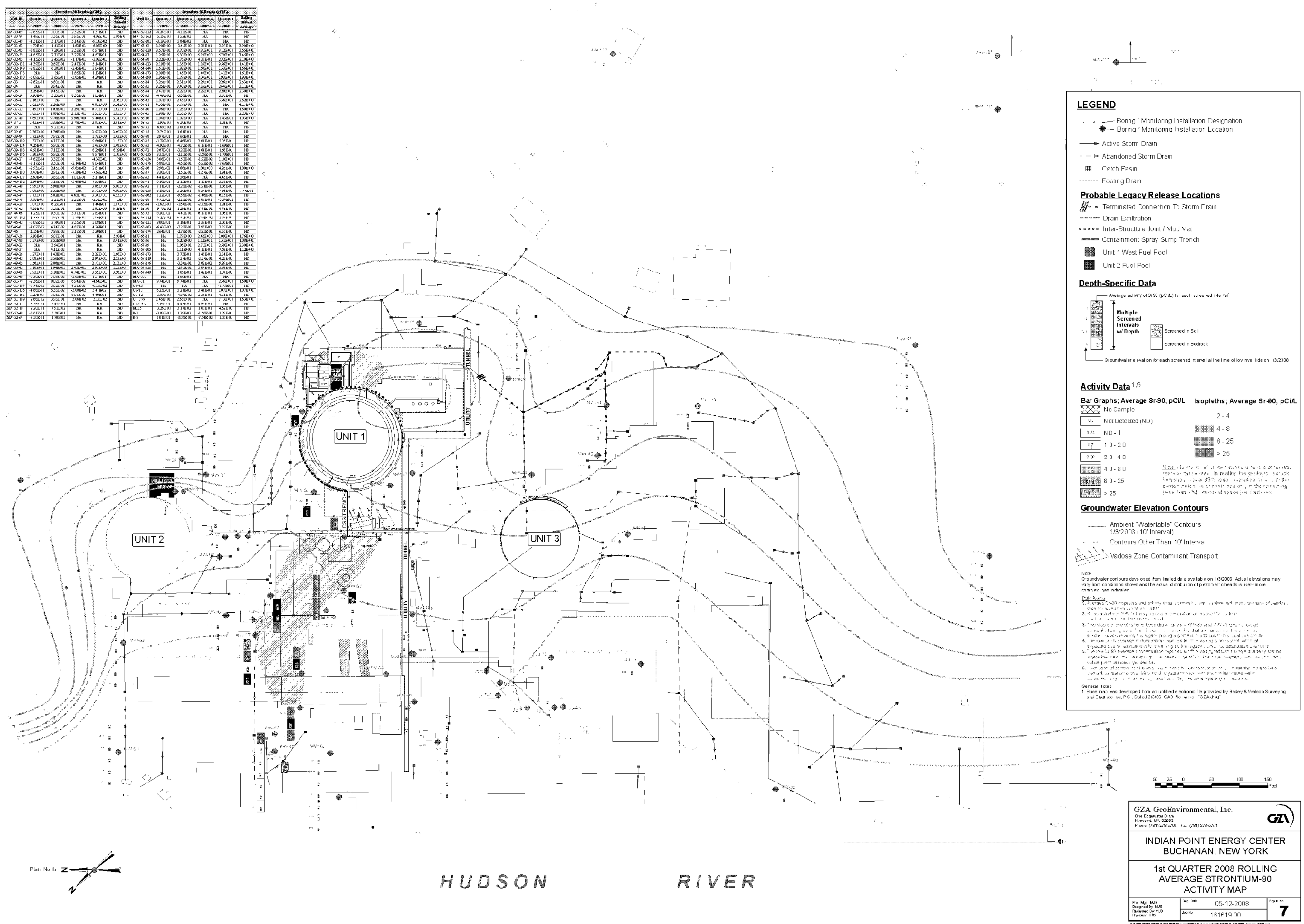
Figure No. 6

IPEC00109871

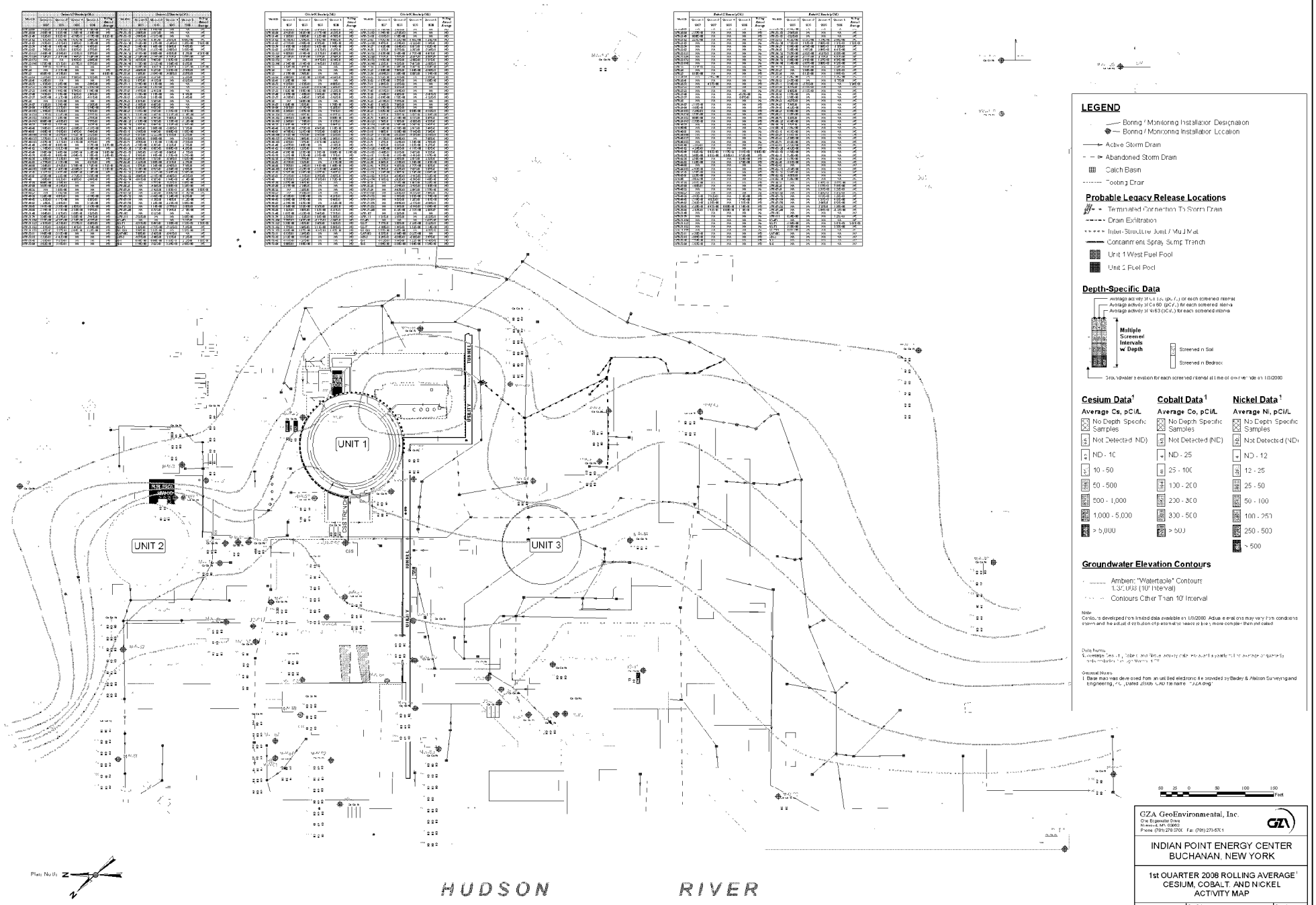
1st QUARTER 2008 ROLLING AVERAGE[1] STRONTIUM-90 ACTIVITY MAP

Well ID	Strontium-90 Results (pCi/L) Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008	Rolling Annual Average
MW-30-69	-3.63E-01	1.00E-01	2.52E-01	1.5?E-01	ND
MW-30-84	1.49E-01	1.56E-01	5.95E-01	4.08E-01	5.95E-01
MW-31-49	-1.51E-01	5.17E-01	5.14E-02	-9.14E-02	ND
MW-31-63	4.72E-01	1.41E-01	1.63E-01	6.83E-02	ND
MW-31-85	-3.83E-01	7.29E-01	2.53E-01	6.97E-01	ND
MW-32-59	-1.65E-01	2.71E-01	3.22E-01	4.67E-01	ND
MW-32-85	-4.15E-01	2.45E-02	-1.17E-01	-3.03E-01	ND
MW-32-131	-1.39E-01	2.69E-01	2.47E-01	5.14E-01	ND
MW-32-149	-3.82E-01	6.38E-01	-2.45E-01	3.04E-01	ND
MW-32-173	NA	NA	1.86E-02	1.13E-01	ND
MW-32-190	-5.09E-02	3.65E-01	-5.05E-01	4.28E-01	ND
MW-33	-3.82E-01	5.80E-01	NA	NA	ND
MW-34	NA	3.94E-02	NA	NA	ND
MW-35	2.26E-01	9.45E-02	NA	NA	ND
MW-36-24	5.90E-01	5.35E-01	8.56E-02	1.06E-01	ND
MW-36-41	2.18E+00	NA	NA	NA	2.18E+00
MW-36-52	2.02E+00	2.20E+00	NA	4.81E+00	3.24E+00
MW-37-22	1.49E+01	1.83E+01	2.29E+01	8.72E+00	1.62E+01
MW-37-32	1.35E+01	1.89E+01	2.13E+01	1.52E+01	1.65E+01
MW-37-40	4.69E+00	9.76E+00	5.98E+00	9.48E-01	5.34E+00
MW-37-57	2.42E+01	3.33E+01	2.78E+01	3.30E+01	2.61E+01
MW-38	NA	9.21E-02	NA	NA	ND
MW-39-67	2.76E+00	4.78E+00	NA	3.52E+00	3.69E+00
MW-39-84	1.72E+00	7.97E-01	NA	1.78E+00	1.43E+00
MW-39-102	2.32E+00	4.71E-01	NA	9.88E-01	1.25E+00
MW-39-124	9.26E-01	5.90E-01	NA	1.49E+00	1.48E+00
MW-39-183	6.51E-01	7.11E-01	NA	8.29E-01	8.29E-01
MW-39-195	1.30E+00	5.92E-01	NA	8.97E-01	1.10E+00
MW-40-27	-7.82E-04	3.32E-01	NA	-4.39E-01	ND
MW-40-46	-3.17E-01	3.50E-01	-2.14E-02	8.04E-01	ND
MW-40-81	-3.93E-02	2.45E-01	-9.65E-02	2.81E-01	ND
MW-40-100	3.40E-01	2.91E-01	-7.39E-02	-7.69E-02	ND
MW-40-127	3.60E-01	3.83E-01	1.01E-01	5.11E-01	ND
MW-40-162	3.94E-01	1.19E-01	-5.48E-02	7.95E-02	ND
MW-41-40	2.99E+00	5.96E+00	NA	5.02E+00	5.00E+00
MW-41-63	4.08E+00	5.55E+00	NA	5.70E+00	4.80E+00
MW-42-49	2.73E+01	5.02E+01	4.65E+01	5.54E+01	4.55E+01
MW-42-78	3.83E-01	2.21E-01	2.33E-01	-2.51E-01	ND
MW-43-28	1.07E+00	6.25E-01	NA	1.46E-01	1.07E+00
MW-43-62	8.55E-01	1.29E-01	NA	1.02E+00	9.38E-01
MW-44-66	4.25E-01	9.30E-02	3.77E-01	2.85E-01	ND
MW-44-102	1.33E-01	1.97E-01	2.58E-01	2.06E-01	ND
MW-45-42	-5.08E-02	3.79E-01	3.55E-01	2.08E-01	ND
MW-45-61	-7.02E-02	4.74E-02	4.87E-01	4.26E-01	ND
MW-46	3.15E-01	7.89E-02	2.17E-01	5.30E-01	ND
MW-47-56	5.93E-01	5.07E-01	NA	NA	5.93E-01
MW-47-80	3.27E+00	3.55E+00	NA	NA	3.41E+00
MW-48-23	NA	3.94E-01	NA	NA	ND
MW-48-37	NA	4.11E-02	NA	NA	ND
MW-49-26	1.27E+01	1.43E+01	NA	2.26E+01	1.66E+01
MW-49-42	2.08E+01	2.56E+01	NA	2.94E+01	2.53E+01
MW-49-65	1.58E+01	2.08E+01	NA	2.70E+01	2.13E+01
MW-50-42	1.10E+01	1.94E+01	2.45E+01	2.91E+00	1.42E+01
MW-50-66	2.95E+01	3.10E+01	4.74E+01	3.50E+01	3.58E+01
MW-51-40	-5.50E-01	7.09E-02	-2.05E-01	1.51E-01	ND
MW-51-79	-3.50E-01	8.02E-03	6.94E-02	-4.04E-01	ND
MW-51-104	-5.74E-02	3.62E-01	4.21E-02	-6.19E-02	ND
MW-51-135	-4.08E-01	5.33E-02	-3.08E-02	5.41E-02	ND
MW-51-163	3.29E-01	1.05E-01	8.07E-02	4.40E-01	ND
MW-51-189	3.88E-02	5.93E-01	5.06E-02	3.17E-02	ND
MW-52-11	5.58E-01	5.43E-01	NA	NA	ND
MW-52-18	3.20E-01	7.91E-02	NA	NA	ND
MW-52-48	-3.61E-01	5.99E-01	NA	NA	ND
MW-52-64	-3.20E-01	1.70E-02	NA	NA	ND

Well ID	Strontium-90 Results (pCi/L) Quarter 2 2007	Quarter 3 2007	Quarter 4 2007	Quarter 1 2008	Rolling Annual Average
MW-52-122	-4.24E-01	-4.19E-01	NA	NA	ND
MW-52-162	5.15E-01	1.54E-02	NA	NA	ND
MW-52-181	-3.19E-01	5.84E-02	NA	NA	ND
MW-53-82	3.98E+00	3.41E-02	2.35E-01	2.19E-01	3.98E+00
MW-53-120	3.57E+01	3.70E+01	3.81E+01	3.12E+01	3.55E+01
MW-54-37	1.25E+01	5.70E+00	6.10E+00	5.79E+00	7.45E+00
MW-54-58	2.22E+00	1.76E+00	4.33E-01	2.32E+00	2.10E+00
MW-54-123	2.19E+01	1.35E+01	1.16E+01	9.56E+00	1.41E+01
MW-54-144	1.61E+01	1.92E+01	1.58E+01	1.53E+01	1.66E+01
MW-54-173	2.09E+01	1.45E+01	1.49E+01	1.41E+01	1.61E+01
MW-54-190	1.95E+01	1.79E+01	2.04E+01	1.93E+01	1.93E+01
MW-55-24	3.25E+01	2.31E+01	2.29E+01	2.26E+01	2.53E+01
MW-55-35	3.25E+01	3.40E+01	3.16E+01	2.64E+01	3.11E+01
MW-55-54	2.47E+01	2.22E+01	2.25E+01	2.38E+01	2.30E+01
MW-56-53	-4.49E-02	-5.60E-01	NA	5.70E-01	ND
MW-56-83	1.87E+00	2.45E+00	NA	3.50E+00	2.62E+00
MW-57-11	4.55E+01	3.79E+01	NA	NA	4.17E+01
MW-57-20	1.96E+00	1.25E+00	NA	NA	1.60E+00
MW-57-45	1.90E+00	2.55E+00	NA	NA	2.23E+00
MW-58-26	1.04E+00	1.02E+00	NA	1.43E-01	1.03E+00
MW-58-65	1.90E-01	6.20E-03	NA	1.31E-01	ND
MW-59-32	6.68E-02	2.00E-01	NA	NA	ND
MW-59-45	2.74E-01	1.64E-01	NA	NA	ND
MW-59-68	2.97E-01	3.66E-01	NA	NA	ND
MW-60-35	-1.79E-01	6.49E-02	3.01E-01	5.25E-01	ND
MW-60-53	-4.92E-01	-4.72E-01	6.19E-01	-1.69E-01	ND
MW-60-72	2.87E-01	-3.27E-01	1.64E-01	1.58E-01	ND
MW-60-135	3.35E-01	-2.11E-01	-2.29E-01	-1.70E-01	ND
MW-60-154	3.06E-01	-1.51E-01	-1.92E-02	1.10E+00	ND
MW-60-176	6.88E-02	-4.60E-01	-5.93E-02	-7.63E-03	ND
MW-62-18	2.98E-02	4.68E-01	1.80E+00	4.35E-01	1.80E+00
MW-62-37	3.30E-01	-2.51E-01	-1.67E-01	1.34E-01	ND
MW-62-53	4.41E-01	3.50E-01	NA	4.45E-01	ND
MW-62-71	6.10E-01	2.12E-01	1.13E-01	5.78E-01	ND
MW-62-92	7.11E-01	-2.28E-02	-1.31E-01	1.88E-01	ND
MW-62-138	8.19E-01	5.20E-01	8.54E-01	7.54E-01	7.77E-01
MW-62-182	1.22E-01	-9.50E-02	-1.48E-01	8.15E-01	ND
MW-63-18	4.75E-02	-2.16E-01	3.08E-01	-6.34E-03	ND
MW-63-34	-1.62E-01	-1.64E-01	-2.75E-01	1.84E-01	ND
MW-63-50	9.40E-02	1.29E-01	3.41E-01	4.18E-01	ND
MW-63-93	8.20E-02	4.41E-01	8.19E-01	1.56E-01	ND
MW-63-112	5.27E-02	6.53E-02	7.94E-02	2.19E-01	ND
MW-63-121	3.00E-01	3.19E-01	2.39E-01	2.36E-01	ND
MW-63-163	-6.43E-02	-7.20E-01	7.98E-03	3.19E-01	ND
MW-63-174	2.64E-01	-2.78E-01	-2.85E-01	6.16E-01	ND
MW-66-21	NA	1.79E+00	2.42E+00	1.09E+00	1.76E+00
MW-66-36	NA	6.20E+00	1.12E+01	1.51E+01	1.08E+01
MW-67-39	NA	1.86E+01	2.71E+01	2.39E+01	2.30E+01
MW-67-105	NA	1.11E+00	4.13E-01	7.58E-01	1.12E+00
MW-67-173	NA	3.73E-01	1.43E-01	2.14E-01	ND
MW-67-219	NA	3.27E-02	-2.27E-01	4.22E-01	ND
MW-67-276	NA	-3.34E-01	3.83E-02	9.39E-02	ND
MW-67-323	NA	-2.41E-01	5.04E-01	5.86E-01	ND
MW-67-340	NA	1.69E-01	1.43E-01	1.07E-01	ND
MW-101	NA	1.06E-01	NA	NA	ND
MW-111	9.74E-01	9.74E-01	NA	2.56E+00	1.50E+00
U3-4D	NA	NA	NA	-1.73E-01	ND
U3-T1	6.25E-01	5.21E-02	3.41E-01	1.07E+01	1.07E+01
U3-T2	3.89E-01	4.85E-02	2.35E-01	4.31E-01	ND
U3-CSS	1.45E+01	2.65E+01	NA	7.55E+00	1.65E+01
LAWR-01	3.19E-01	4.44E-01	4.84E-01	NA	ND
MH-5	3.26E-01	3.17E-02	1.61E-01	4.52E-01	ND
B-1	-3.93E-01	1.29E-02	-1.56E-01	1.29E-01	ND
B-5	1.01E-01	-3.00E-01	-7.24E-02	1.35E-01	ND



1st QUARTER 2008 ROLLING AVERAGE[1] CESIUM, COBALT, AND NICKEL ACTIVITY MAP



LEGEND

- Boring / Monitoring Installation Designation
- Boring / Monitoring Installation Location
- Active Storm Drain
- Abandoned Storm Drain
- Catch Basin
- Footing Drain

Probable Legacy Release Locations

- Terminated Connection To Storm Drain
- Drain Exfiltration
- Inter-Structure Joint / Mud Mat
- Containment Spray Sump Trench
- Unit 1 West Fuel Pool
- Unit 2 Fuel Pool

Depth-Specific Data

Average activity of Cs 137 (pCi/L) for each screened interval
Average activity of Co 60 (pCi/L) for each screened interval
Average activity of Ni 63 (pCi/L) for each screened interval

Multiple Screened Intervals w Depth

Screened in Soil

Screened in Bedrock

Groundwater elevation for each screened interval at time of overflight on 1/3/2008

Cesium Data[1]

Average Cs, pCi/L

- No Depth Specific Samples
- Not Detected (ND)
- ND - 10
- 10 - 50
- 50 - 500
- 500 - 1,000
- 1,000 - 5,000
- > 5,000

Cobalt Data[1]

Average Co, pCi/L

- No Depth Specific Samples
- Not Detected (ND)
- ND - 25
- 25 - 100
- 100 - 200
- 200 - 300
- 300 - 500
- > 500

Nickel Data[1]

Average Ni, pCi/L

- No Depth Specific Samples
- Not Detected (ND)
- ND - 12
- 12 - 25
- 25 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- > 500

Groundwater Elevation Contours

- Ambient "Watertable" Contours 1.3/1,000 (10' Interval)
- Contours Other Than 10' Interval

Note:
Contours developed from limited data available on 1/3/2008. Actual elevations may vary from conditions shown and the actual distribution of piezometric values is likely more complex than indicated.

Data Points:
Average Cesium-137, Cobalt-60 and Nickel-63 activity data measured quarterly in the groundwater monitoring network.

General Notes:
1. Base map was developed from an unfilled electronic file provided by Badley & Watson Surveying and Engineering, P.C., dated 2/5/08 CAD file name "IPEA.dwg".

50 25 0 50 100 150 Feet

GZA GeoEnvironmental, Inc.
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INDIAN POINT ENERGY CENTER
BUCHANAN, NEW YORK

1st QUARTER 2008 ROLLING AVERAGE[1] CESIUM, COBALT, AND NICKEL ACTIVITY MAP

Proj. Mgr: MJE Designed By: NJB Released By: NJB Reviewed: EAS	Orig. Date: 05-12-2008 Job No: 161619.30	Figure No: 8	

IPEC00109873

APPENDIX A: LIMITATIONS

HYDROGEOLOGICAL LIMITATIONS

1. The conclusions and recommendations submitted in this report are based in part upon the radiological, chemical and physical data from water analyses. These data were obtained from specific sampling locations at specific times. The full nature and extent of variations in the data between these specific locations and times are not known. The conditions existing between these specific locations and times have only been inferred using interpolation and extrapolation based on judgment.

2. The subsurface profiles described in the text and presented in the report figures are intended to convey anticipated trends in subsurface conditions. The conditions shown are approximate and generalized and were developed, in part, based on judgment. For specific information at specific locations, refer to the individual subsurface investigation logs.

3. Water level readings (piezometric pressures) have been made in the specific borings, monitoring wells, and Waterloo installations at times and under conditions stated. These data have been reviewed and interpretations have been made in the text and on the figures of this report. However, it must be noted that temporal and spatial fluctuations in the level of the groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time and location measurements were made.

4. Where quantitative laboratory testing has been conducted by an outside laboratory, GZA has relied upon the validity of the data provided, and has not conducted an independent laboratory evaluation of the reliability of these data.

5. Radiological and chemical analyses have been performed for specific parameters during the course of this study, as summarized in the text. Additional constituents not searched for may be present in soil and groundwater at the site.

6. Variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past and current plant operational practices, the passage of time, and other factors. Should additional data (water analyses, water elevations, subsurface deposits, plant construction and operation, etc.) become available in the future, these data should be reviewed by GZA, and the conclusions and recommendations presented herein modified accordingly.

7. This monitoring report was developed by GZA GeoEnvironmental Inc for the exclusive of Entergy Nuclear Northeast (Entergy) at the Indian Point Energy Center. Any use of data or information provided in the report, by parties other than Entergy, is prohibitated without the prior written permission of Entergy and GZA.

APPENDIX B: TRANSDUCER INSTALLATION LOGS

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-37-57
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	57.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	15.021	DATE	2/27/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.788		
SERIAL NUMBER	11802	CASING DIAMETER (INCH)	1		

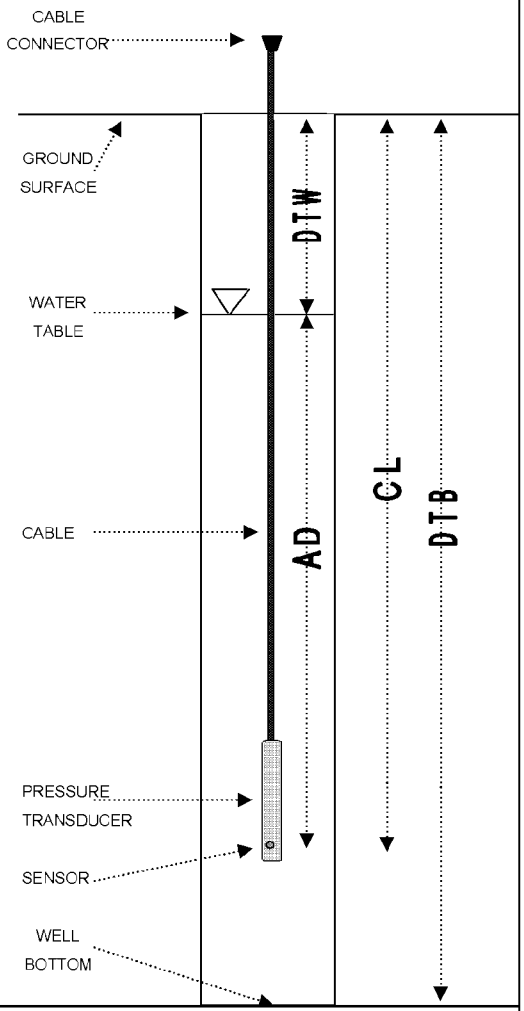
STATIC GROUNDWATER TABLE ELEVATION (FT): 7.04

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	56.50	FT	
GROUND ELEVATION:	15.021	FT M.S.L.	
CASING ELEVATION:	14.788	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.233	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1236	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	7.75	FT	
ACTUAL DEPTH:	+ 42.815	FT	
THEORETICAL CABLE LENGTH:	= 50.565	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.788	FT M.S.L.	
DEPTH TO WATER:	− 7.75	FT	
REFERENCE ELEVATION:	= 7.038	FT M.S.L.	
TEST NAME:	MW-37-57		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1237	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-37-57
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	57.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	15.021	DATE	3/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.788		
SERIAL NUMBER	11802	CASING DIAMETER (INCH)	1		

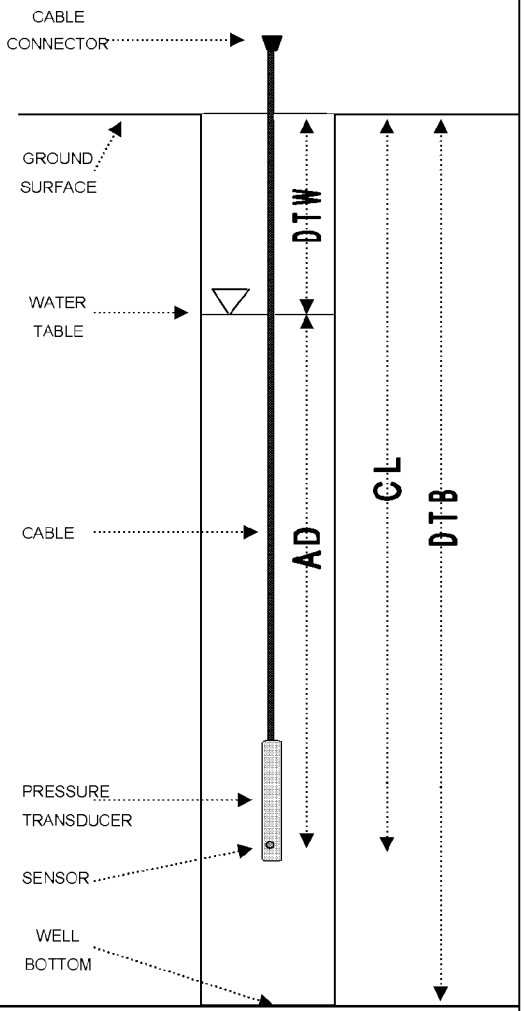
STATIC GROUNDWATER TABLE ELEVATION (FT): 6.92

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	56.50	FT	
GROUND ELEVATION:	15.021	FT M.S.L.	
CASING ELEVATION:	14.788	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.233	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1412	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	7.87	FT	
ACTUAL DEPTH:	+ 42.790	FT	
THEORETICAL CABLE LENGTH:	= 50.660	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.788	FT M.S.L.	
DEPTH TO WATER:	− 7.87	FT	
REFERENCE ELEVATION:	= 6.918	FT M.S.L.	
TEST NAME:	MW-37-57		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1418	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-38
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	40.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.342	DATE	3/21/08
PSI CAPACITY	30	CASING ELEVATION (FT)	13.999		
SERIAL NUMBER	4386	CASING DIAMETER (INCH)	4		

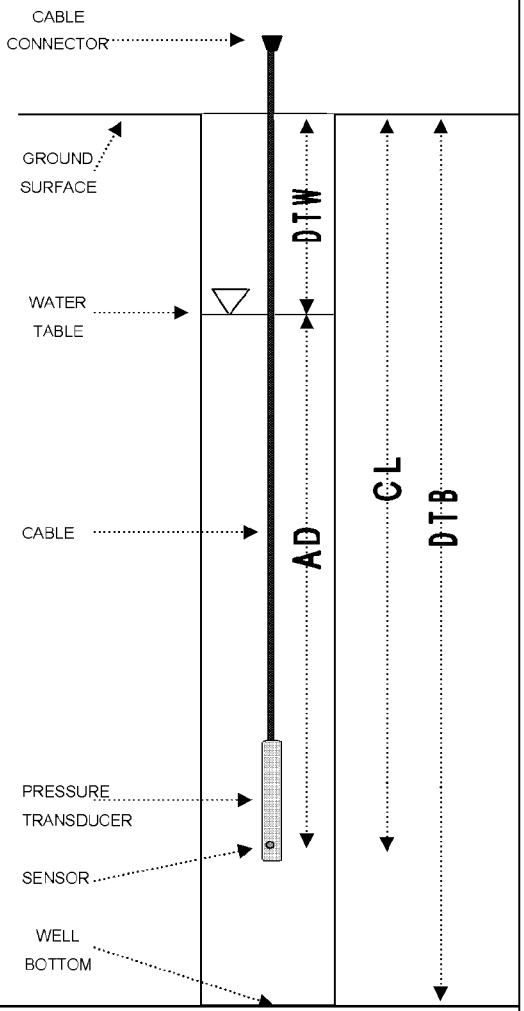
STATIC GROUNDWATER TABLE ELEVATION (FT): 1.69

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	39.02	FT	
GROUND ELEVATION:	14.342	FT M.S.L.	
CASING ELEVATION:	13.999	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.34	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	949	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	12.30	FT	
ACTUAL DEPTH:	+ 26.247	FT	
THEORETICAL CABLE LENGTH:	= 38.547	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	13.990	FT M.S.L.	
DEPTH TO WATER:	− 12.30	FT	
REFERENCE ELEVATION:	= 1.690	FT M.S.L.	
TEST NAME:	MW-38		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	950	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-41-40
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	64.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	54.87	DATE	2/8/08
PSI CAPACITY	30	CASING ELEVATION (FT)	54.13		
SERIAL NUMBER	15147	CASING DIAMETER (INCH)	2		

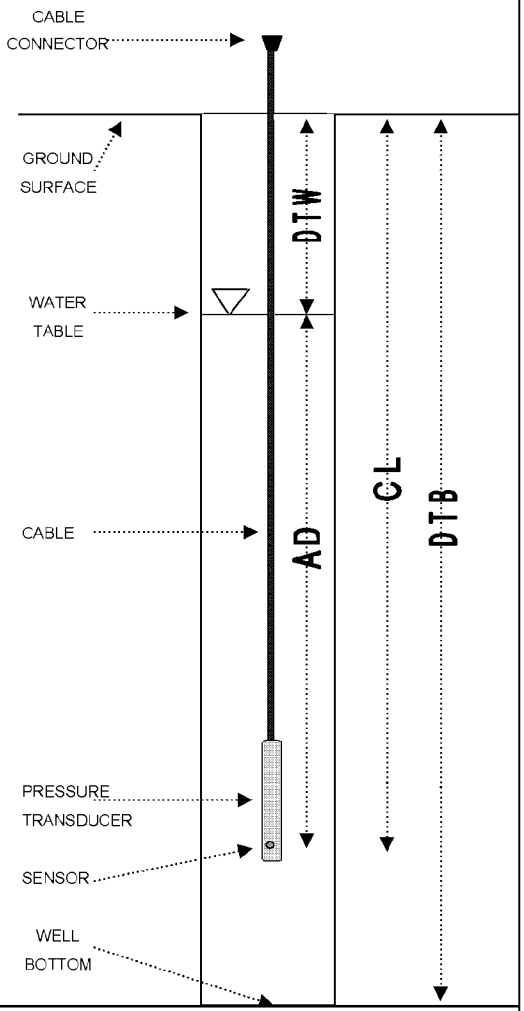
STATIC GROUNDWATER TABLE ELEVATION (FT): 33.12

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	40.00	FT	
GROUND ELEVATION:	54.87	FT M.S.L.	
CASING ELEVATION:	54.13	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.74	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	955	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	21.01	FT	
ACTUAL DEPTH: +	NA	FT	
THEORETICAL CABLE LENGTH: =	NA	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	54.13	FT M.S.L.	
DEPTH TO WATER: −	21.01	FT	
REFERENCE ELEVATION: =	33.12	FT M.S.L.	
TEST NAME:	MW-41-42		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	956	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-41-40
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	64.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	54.87	DATE	2/21/08
PSI CAPACITY	30	CASING ELEVATION (FT)	54.13		
SERIAL NUMBER	13981	CASING DIAMETER (INCH)	2		

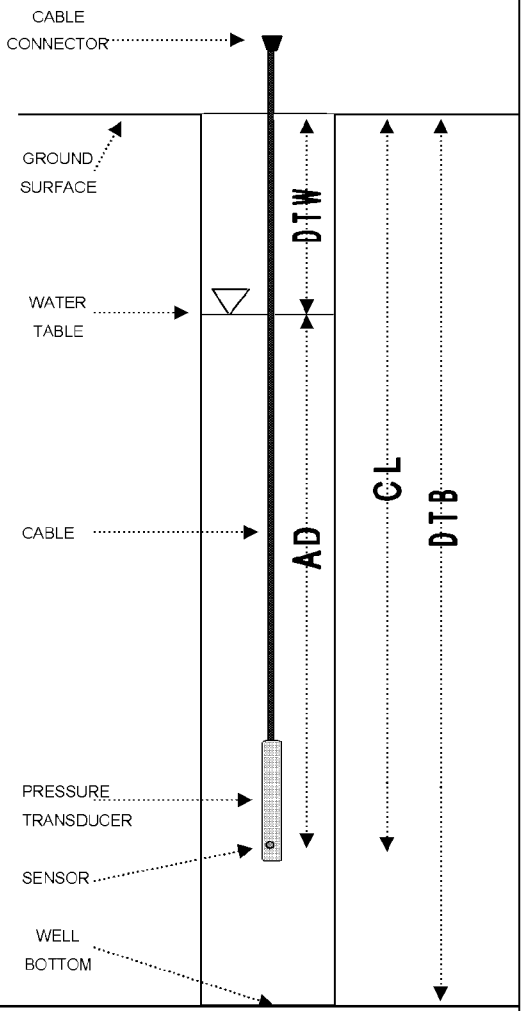
STATIC GROUNDWATER TABLE ELEVATION (FT): 34.38

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	40.00	FT	
GROUND ELEVATION:	54.87	FT M.S.L.	
CASING ELEVATION:	54.13	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.74	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1649	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	19.75	FT	
ACTUAL DEPTH:	+ 15.365	FT	
THEORETICAL CABLE LENGTH:	= 35.115	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	54.13	FT M.S.L.	
DEPTH TO WATER:	− 19.75	FT	
REFERENCE ELEVATION:	= 34.38	FT M.S.L.	
TEST NAME:	MW-41-42		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1650	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-41-40
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	64.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	54.87	DATE	3/20/08
PSI CAPACITY	30	CASING ELEVATION (FT)	54.13		
SERIAL NUMBER	13981	CASING DIAMETER (INCH)	2		

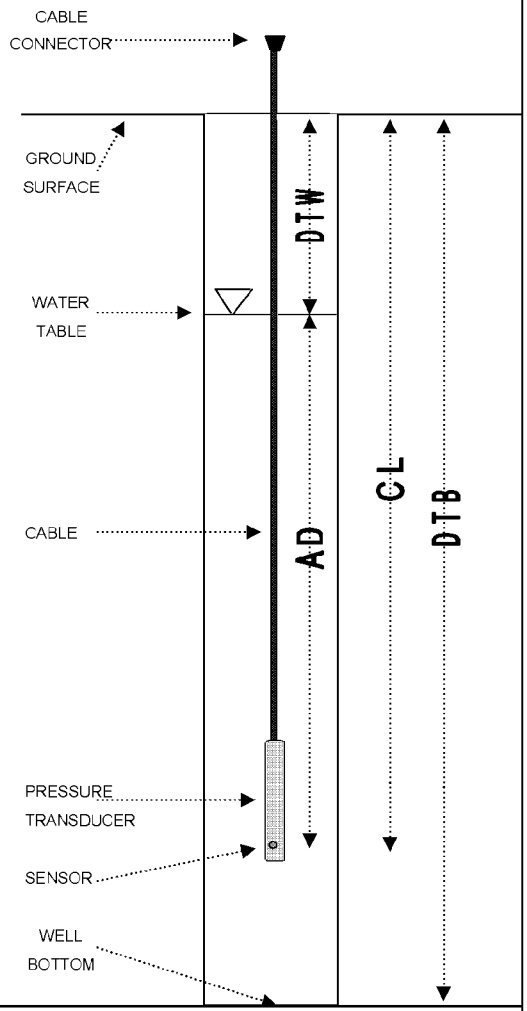
STATIC GROUNDWATER TABLE ELEVATION (FT): 34.71

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	40.00	FT	
GROUND ELEVATION:	54.87	FT M.S.L.	
CASING ELEVATION:	54.13	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.74	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	0952	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	19.42	FT	
ACTUAL DEPTH:	+ 16.634	FT	
THEORETICAL CABLE LENGTH:	= 36.054	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	54.13	FT M.S.L.	
DEPTH TO WATER:	− 19.42	FT	
REFERENCE ELEVATION:	= 34.71	FT M.S.L.	
TEST NAME:	MW-41-40		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	0953	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-43-28
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	63.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	48.760	DATE	2/8/08
PSI CAPACITY	30	CASING ELEVATION (FT)	48.021		
SERIAL NUMBER	11331	CASING DIAMETER (INCH)	2		

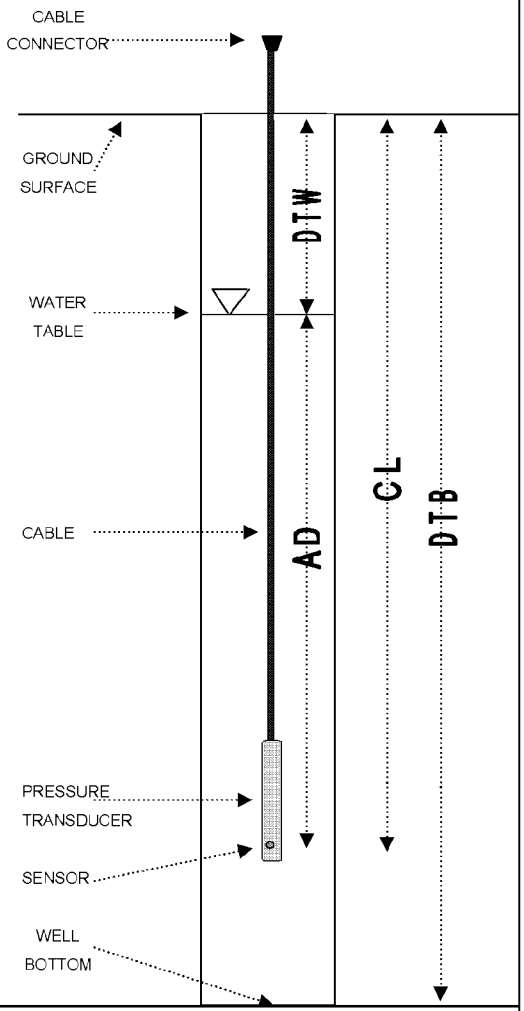
STATIC GROUNDWATER TABLE ELEVATION (FT): 32.70

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		28.00	FT
GROUND ELEVATION:		48.760	FT M.S.L.
CASING ELEVATION:		48.021	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		below	
DISTANCE FROM CASING TO GROUND (+ OR -):		-0.739	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1033	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		15.32	FT
ACTUAL DEPTH:	+	10.962	FT
THEORETICAL CABLE LENGTH:	=	26.282	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		48.021	FT M.S.L.
DEPTH TO WATER:	−	15.32	FT
REFERENCE ELEVATION:	=	32.701	FT M.S.L.
TEST NAME:		MW-43-28	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1034	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-43-62
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	63.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	48.761	DATE	3/20/08
PSI CAPACITY	30	CASING ELEVATION (FT)	47.821		
SERIAL NUMBER	16236	CASING DIAMETER (INCH)	2		

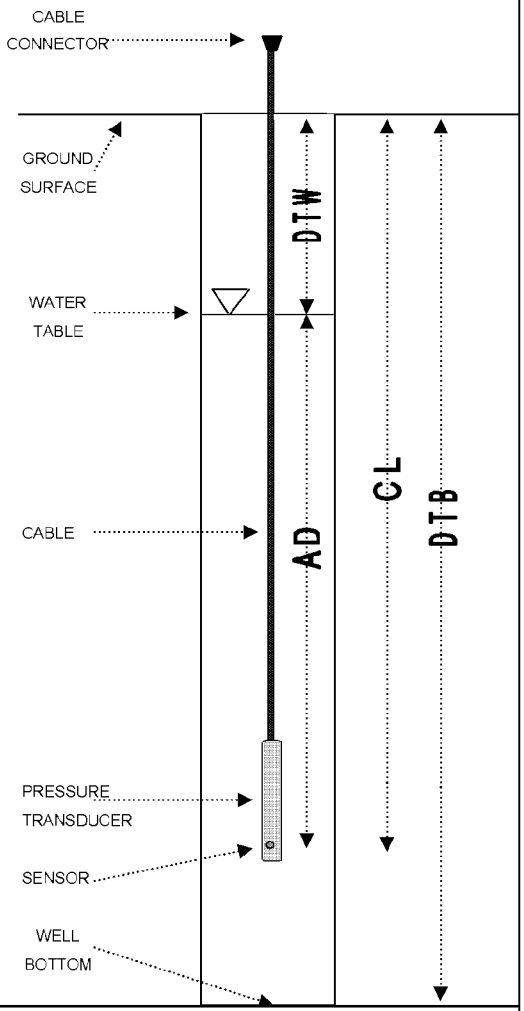
STATIC GROUNDWATER TABLE ELEVATION (FT): 32.25

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		63.00	FT
GROUND ELEVATION:		48.761	FT M.S.L.
CASING ELEVATION:		47.821	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		below	
DISTANCE FROM CASING TO GROUND (+ OR -):		-0.940	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1037	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		15.57	FT
ACTUAL DEPTH:	+	35.230	FT
THEORETICAL CABLE LENGTH:	=	50.800	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		47.821	FT M.S.L.
DEPTH TO WATER:	−	15.57	FT
REFERENCE ELEVATION:	=	32.251	FT M.S.L.
TEST NAME:		MW-43-62	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1038	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : MW-43-62

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-44-67
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	105.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	93.52	DATE	2/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	93.02		
SERIAL NUMBER	16108	CASING DIAMETER (INCH)	2		

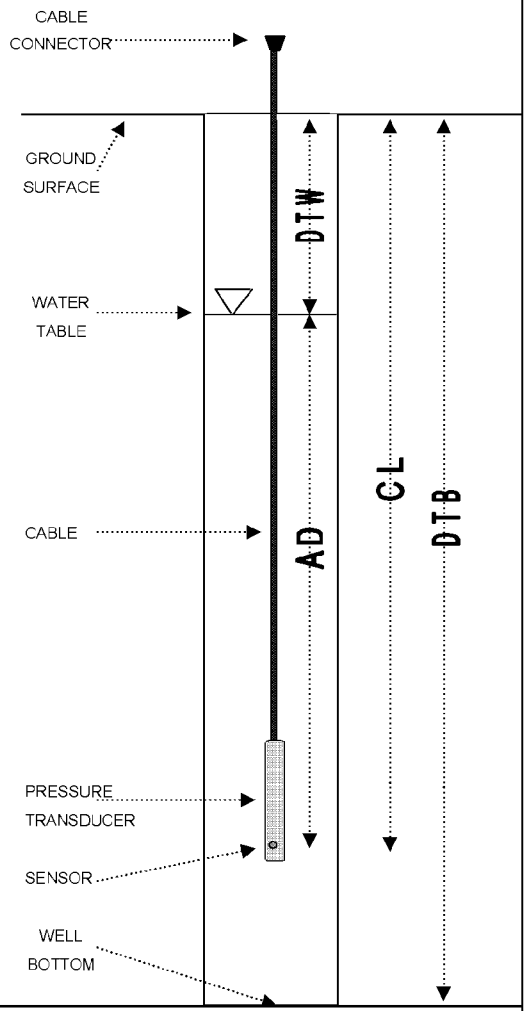
STATIC GROUNDWATER TABLE ELEVATION (FT): 41.19

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	67.00	FT	
GROUND ELEVATION:	93.52	FT M.S.L.	
CASING ELEVATION:	93.02	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	0.50	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1229	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	51.83	FT	
ACTUAL DEPTH:	+ 10.960	FT	
THEORETICAL CABLE LENGTH:	= 62.790	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	93.02	FT M.S.L.	
DEPTH TO WATER:	− 51.83	FT	
REFERENCE ELEVATION:	= 41.19	FT M.S.L.	
TEST NAME:	MW-44-67		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1230	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-44-102
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	102.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	93.52	DATE	2/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	93.09		
SERIAL NUMBER	15940	CASING DIAMETER (INCH)	1		

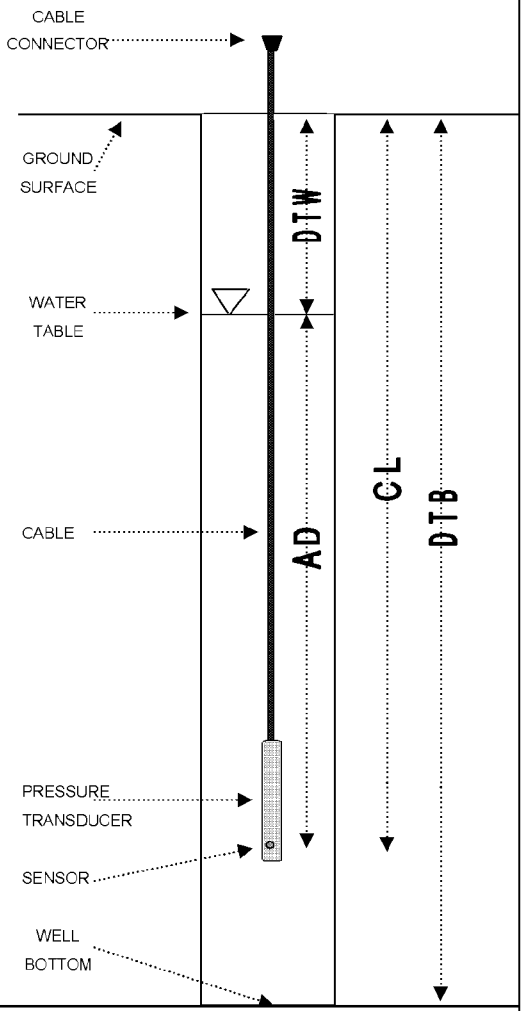
STATIC GROUNDWATER TABLE ELEVATION (FT): 32.49

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	102.00	FT	
GROUND ELEVATION:	93.52	FT M.S.L.	
CASING ELEVATION:	93.09	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.43	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1216	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	60.60	FT	
ACTUAL DEPTH:	+ 38.075	FT	
THEORETICAL CABLE LENGTH:	= 98.675	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	93.09	FT M.S.L.	
DEPTH TO WATER:	− 60.60	FT	
REFERENCE ELEVATION:	= 32.49	FT M.S.L.	
TEST NAME:	MW-44-102		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1217	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-47-56
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	80.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	70.32	DATE	2/8/08
PSI CAPACITY	30	CASING ELEVATION (FT)	69.81		
SERIAL NUMBER	15843	CASING DIAMETER (INCH)	2		

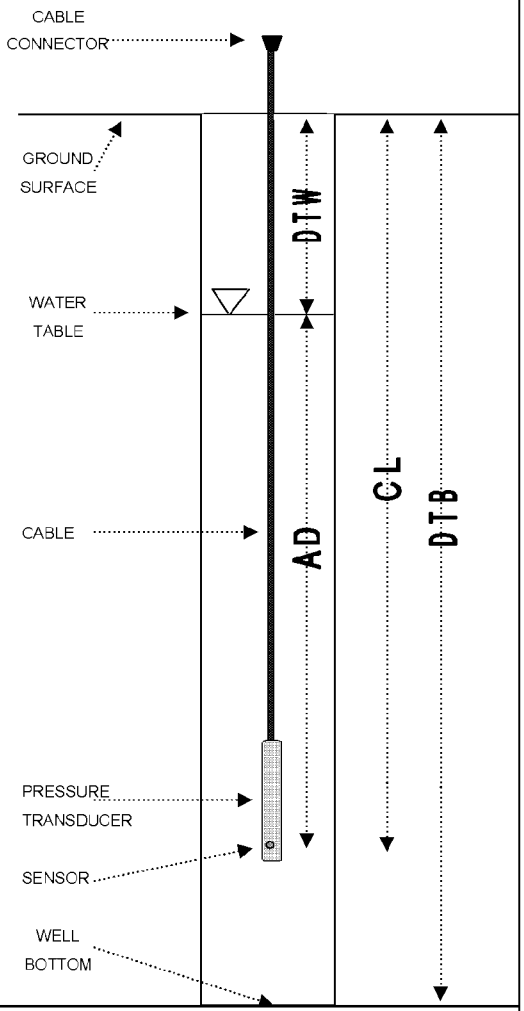
STATIC GROUNDWATER TABLE ELEVATION (FT): 25.85

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	56.00	FT	
GROUND ELEVATION:	70.32	FT M.S.L.	
CASING ELEVATION:	69.81	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.51	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1151	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	43.96	FT	
ACTUAL DEPTH:	+ 6.36	FT	
THEORETICAL CABLE LENGTH:	= 50.32	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	69.81	FT M.S.L.	
DEPTH TO WATER:	− 43.96	FT	
REFERENCE ELEVATION:	= 25.85	FT M.S.L.	
TEST NAME:	MW47-57		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1152	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-49-26
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	26.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.650	DATE	2/15/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.171		
SERIAL NUMBER	11948	CASING DIAMETER (INCH)	2		

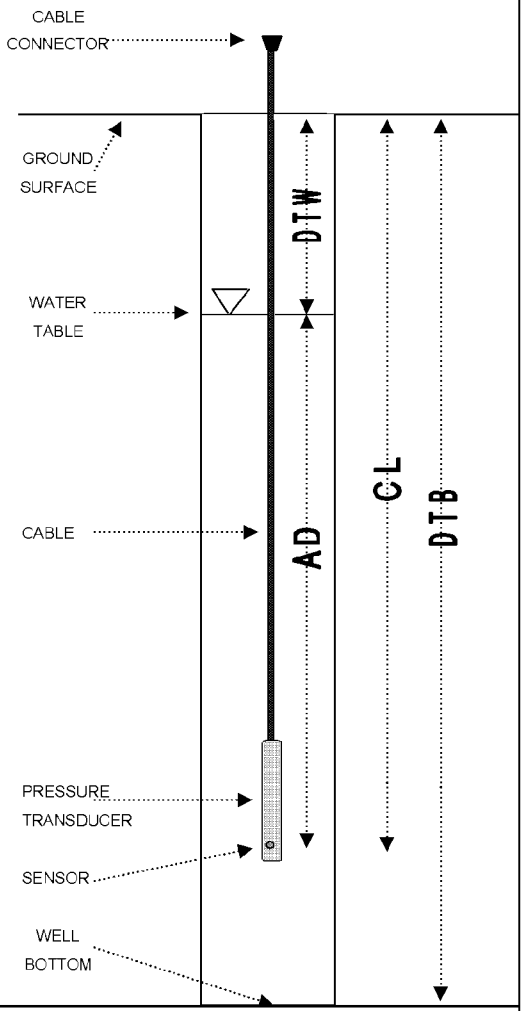
STATIC GROUNDWATER TABLE ELEVATION (FT): 0.77

GZA ENGINEER: M.Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	26.00	FT	
GROUND ELEVATION:	14.650	FT M.S.L.	
CASING ELEVATION:	14.171	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.48	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1228	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	13.40	FT	
ACTUAL DEPTH:	+ 10.941	FT	
THEORETICAL CABLE LENGTH:	= 24.341	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.17	FT M.S.L.	
DEPTH TO WATER:	− 13.40	FT	
REFERENCE ELEVATION:	= 0.77	FT M.S.L.	
TEST NAME:	MW-49-26		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1229	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-50-42
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	67.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.92	DATE	3/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.45		
SERIAL NUMBER	9904	CASING DIAMETER (INCH)	2		

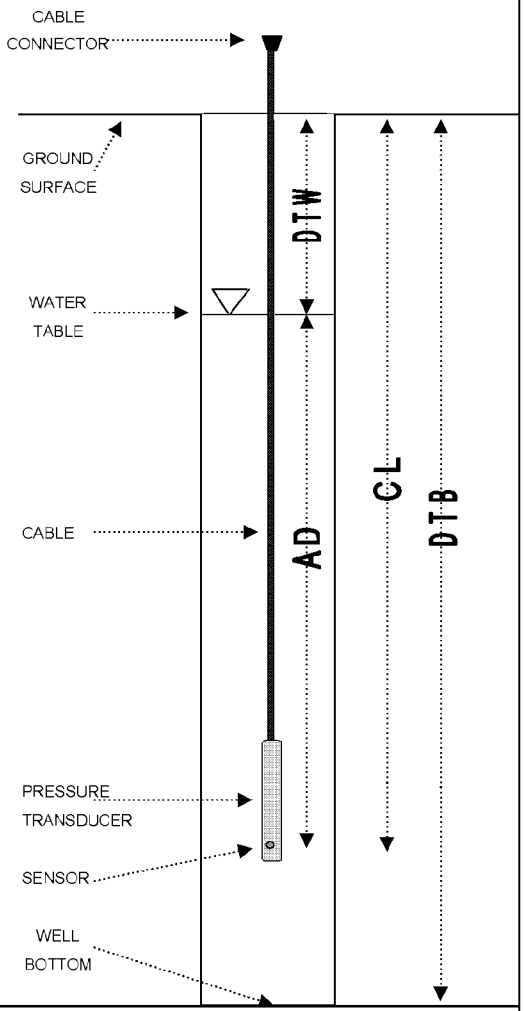
STATIC GROUNDWATER TABLE ELEVATION (FT): 6.53

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	42.00	FT	
GROUND ELEVATION:	14.92	FT M.S.L.	
CASING ELEVATION:	14.45	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.47	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1022	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	7.92	FT	
ACTUAL DEPTH:	+ 33.120	FT	
THEORETICAL CABLE LENGTH:	= 41.040	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.45	FT M.S.L.	
DEPTH TO WATER:	− 7.92	FT	
REFERENCE ELEVATION:	= 6.53	FT M.S.L.	
TEST NAME:	MW-50-42		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1023	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-56-53
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	88.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	70.26	DATE	3/20/08
PSI CAPACITY	30	CASING ELEVATION (FT)	69.32		
SERIAL NUMBER	11952	CASING DIAMETER (INCH)	2		

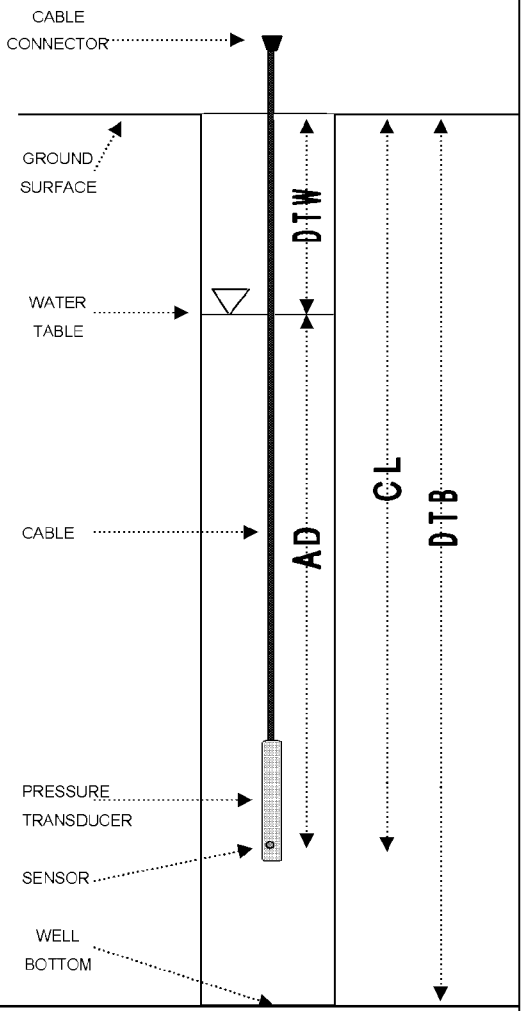
STATIC GROUNDWATER TABLE ELEVATION (FT): 26.28

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	53.00	FT	
GROUND ELEVATION:	70.26	FT M.S.L.	
CASING ELEVATION:	69.32	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.94	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1148	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	43.04	FT	
ACTUAL DEPTH:	+ 7.599	FT	
THEORETICAL CABLE LENGTH:	= 50.639	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	69.32	FT M.S.L.	
DEPTH TO WATER:	− 43.04	FT	
REFERENCE ELEVATION:	= 26.28	FT M.S.L.	
TEST NAME:	MW-56-53		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1149	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	MW-57-20
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	3/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.75		
SERIAL NUMBER	9411	CASING DIAMETER (INCH)	1		

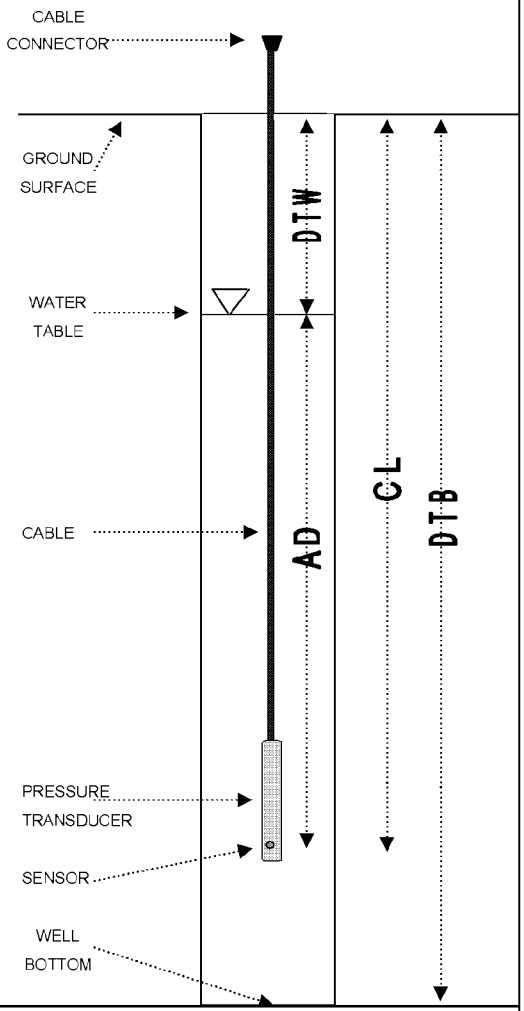
STATIC GROUNDWATER TABLE ELEVATION (FT): 11.38

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	20.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.75	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.23	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1135	HRS	
MEASUREMENT TAKEN FROM:	casing		
DEPTH TO WATER:	3.37	FT	
ACTUAL DEPTH:	+ 16.698	FT	
THEORETICAL CABLE LENGTH:	= 20.068	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.75	FT M.S.L.	
DEPTH TO WATER:	− 3.37	FT	
REFERENCE ELEVATION:	= 11.38	FT M.S.L.	
TEST NAME:	MW-57-20		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1136	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-57-45
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	Nonvented MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	2/6/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.81		
SERIAL NUMBER	16389	CASING DIAMETER (INCH)	1		

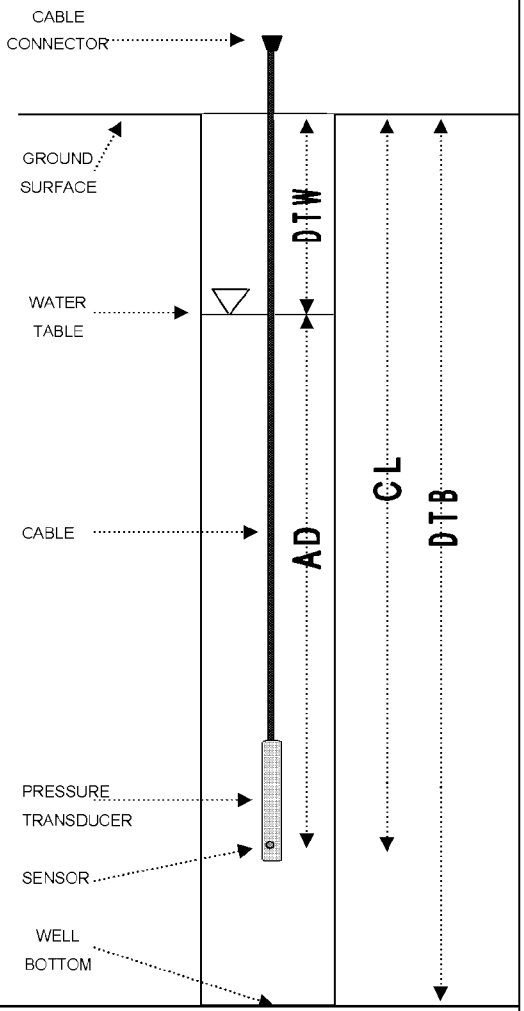
STATIC GROUNDWATER TABLE ELEVATION (FT): 9.91

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.81	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.17	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1505	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	4.90	FT	
ACTUAL DEPTH:	+ NA	FT	
THEORETICAL CABLE LENGTH:	= NA	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.81	FT M.S.L.	
DEPTH TO WATER:	− 4.90	FT	
REFERENCE ELEVATION:	= 9.91	FT M.S.L.	
TEST NAME:	MW-57-45		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1506	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : MW-57-45

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-57-45
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	2/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.81		
SERIAL NUMBER	4386	CASING DIAMETER (INCH)	1		

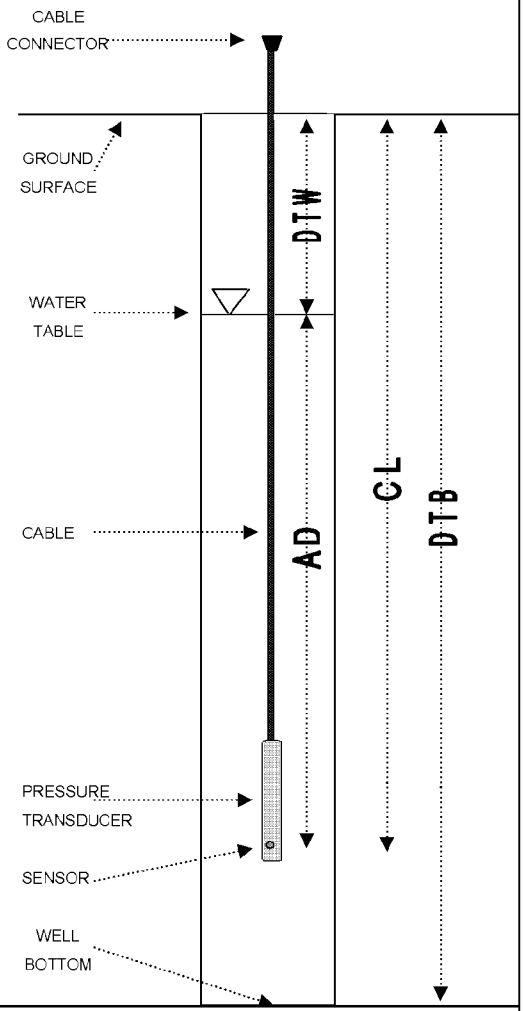
STATIC GROUNDWATER TABLE ELEVATION (FT): 10.85

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.81	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.17	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1427	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	3.96	FT	
ACTUAL DEPTH:	+ 40.831	FT	
THEORETICAL CABLE LENGTH:	= 44.791	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.81	FT M.S.L.	
DEPTH TO WATER:	− 3.96	FT	
REFERENCE ELEVATION:	= 10.85	FT M.S.L.	
TEST NAME:	MW-57-45		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1428	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-57-45
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	46.50	DATUM	NGVD 29
MAKE	NonVented MiniTroll	GROUND ELEVATION (FT)	14.98	DATE	3/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.81		
SERIAL NUMBER	16563	CASING DIAMETER (INCH)	1		

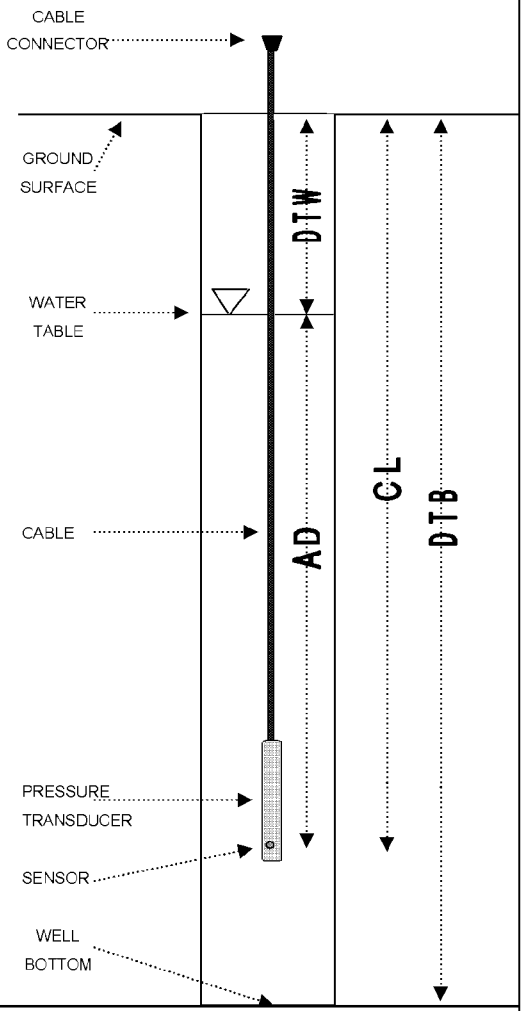
STATIC GROUNDWATER TABLE ELEVATION (FT): 10.50

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.98	FT M.S.L.	
CASING ELEVATION:	14.81	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.17	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1300	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	4.31	FT	
ACTUAL DEPTH:	+ NA	FT	
THEORETICAL CABLE LENGTH:	= NA	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.81	FT M.S.L.	
DEPTH TO WATER:	− 4.31	FT	
REFERENCE ELEVATION:	= 10.50	FT M.S.L.	
TEST NAME:	MW-57-45		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1301	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-58-65
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	72.00	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.57	DATE	3/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.25		
SERIAL NUMBER	5619	CASING DIAMETER (INCH)	1		

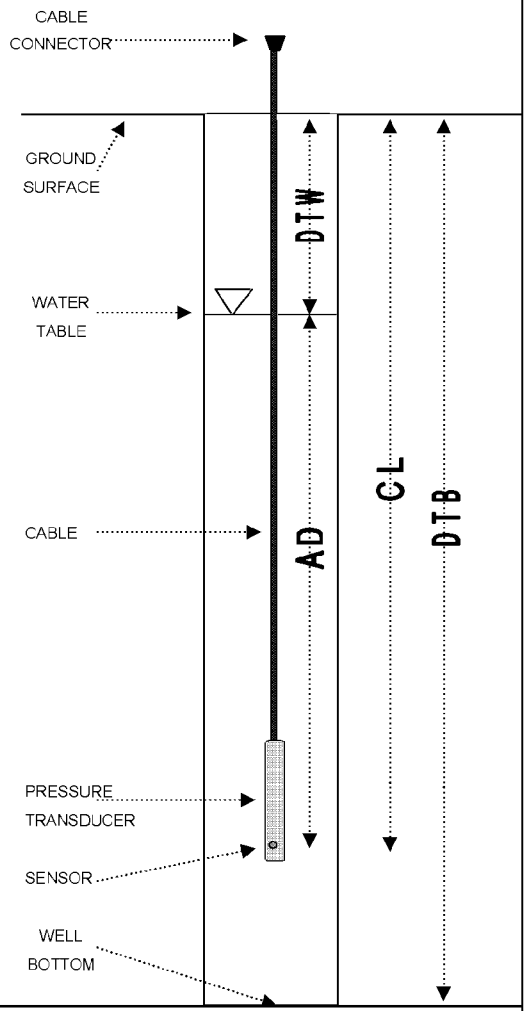
STATIC GROUNDWATER TABLE ELEVATION (FT): 7.42

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	65.00	FT	
GROUND ELEVATION:	14.57	FT M.S.L.	
CASING ELEVATION:	14.25	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.32	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1331	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	6.83	FT	
ACTUAL DEPTH:	+ 59.808	FT	
THEORETICAL CABLE LENGTH:	= 66.638	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	14.25	FT M.S.L.	
DEPTH TO WATER:	− 6.83	FT	
REFERENCE ELEVATION:	= 7.42	FT M.S.L.	
TEST NAME:	MW-58-65		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1332	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-59-32
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	NonVented MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	2/15/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.41		
SERIAL NUMBER	16489	CASING DIAMETER (INCH)	1		

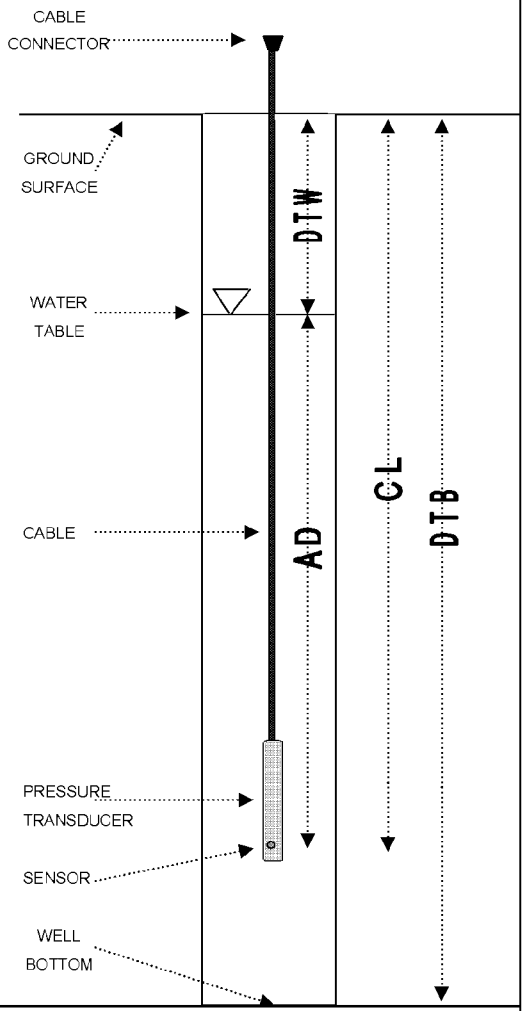
STATIC GROUNDWATER TABLE ELEVATION (FT): 0.75

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		32.00	FT
GROUND ELEVATION:		14.52	FT M.S.L.
CASING ELEVATION:		14.41	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		below	
DISTANCE FROM CASING TO GROUND (+ OR -):		-0.11	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1329	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		13.66	FT
ACTUAL DEPTH:	+	NA	FT
THEORETICAL CABLE LENGTH:	=	NA	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		14.41	FT M.S.L.
DEPTH TO WATER:	−	13.66	FT
REFERENCE ELEVATION:	=	0.75	FT M.S.L.
TEST NAME:		MW-59-32	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1330	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW-59-45
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	NonVented MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	2/15/08
PSI CAPACITY	30	CASING ELEVATION (FT)	13.90		
SERIAL NUMBER	14340	CASING DIAMETER (INCH)	1		

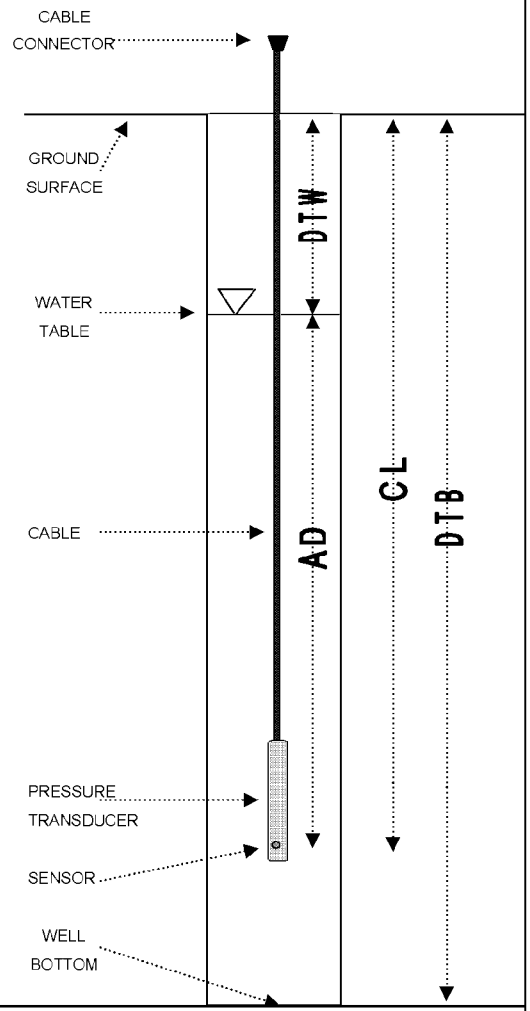
STATIC GROUNDWATER TABLE ELEVATION (FT): 12.54

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	45.00	FT	
GROUND ELEVATION:	14.52	FT M.S.L.	
CASING ELEVATION:	13.90	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.62	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1518	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	1.36	FT	
ACTUAL DEPTH:	+ NA	FT	
THEORETICAL CABLE LENGTH:	= NA	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	13.90	FT M.S.L.	
DEPTH TO WATER:	- 1.36	FT	
REFERENCE ELEVATION:	= 12.54	FT M.S.L.	
TEST NAME:	MW-59-45		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1519	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : MW-59-45

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	MW59-68
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	77.00	DATUM	NGVD 29
MAKE	NonVented MiniTroll	GROUND ELEVATION (FT)	14.52	DATE	2/15/08
PSI CAPACITY	30	CASING ELEVATION (FT)	14.23		
SERIAL NUMBER	14361	CASING DIAMETER (INCH)	1		

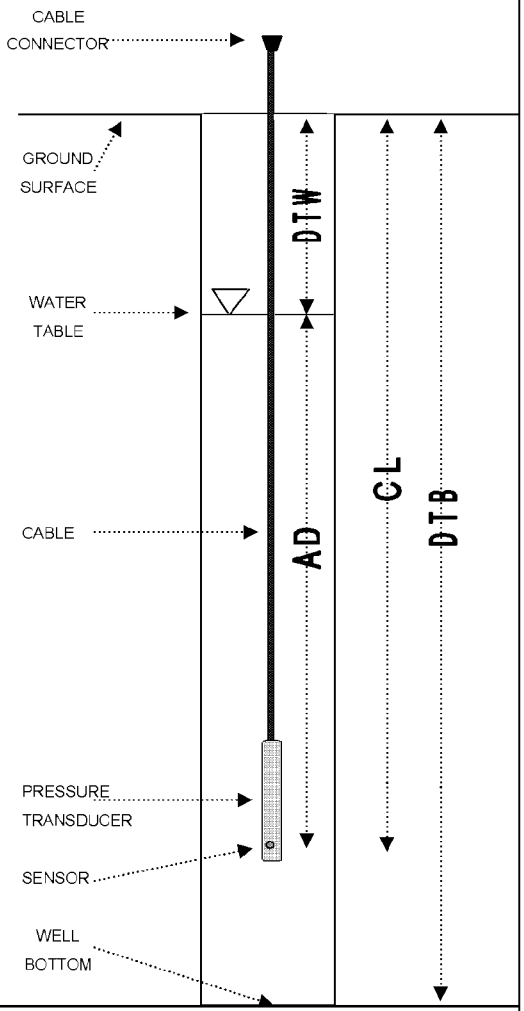
STATIC GROUNDWATER TABLE ELEVATION (FT): 2.23

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		68.30	FT
GROUND ELEVATION:		14.52	FT M.S.L.
CASING ELEVATION:		14.23	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		-	
DISTANCE FROM CASING TO GROUND (+ OR -):		-0.29	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1430	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		12.00	FT
ACTUAL DEPTH:	+	NA	FT
THEORETICAL CABLE LENGTH:	=	NA	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		14.23	FT M.S.L.
DEPTH TO WATER:	−	12.00	FT
REFERENCE ELEVATION:	=	2.23	FT M.S.L.
TEST NAME:		MW59-68	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1431	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	OUT-1
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	--	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	8.20	DATE	2/6/08
PSI CAPACITY	30	CASING ELEVATION (FT)	11.89		
SERIAL NUMBER	16642	CASING DIAMETER (INCH)	2		

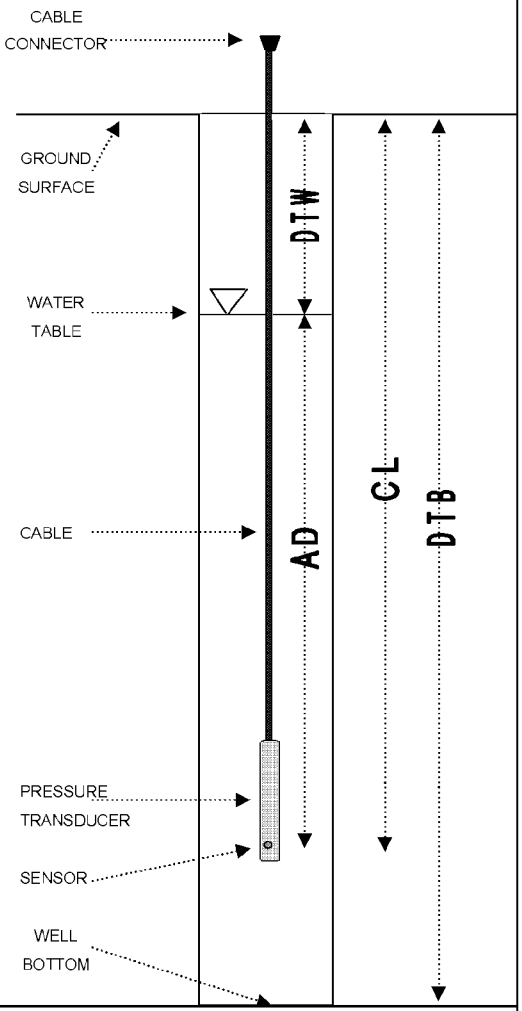
STATIC GROUNDWATER TABLE ELEVATION (FT): 5.70

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		--	FT
GROUND ELEVATION:		8.20	FT M.S.L.
CASING ELEVATION:		11.89	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		above	
DISTANCE FROM CASING TO GROUND (+ OR -):		3.69	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1113	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		6.19	FT
ACTUAL DEPTH:	+	5.722	FT
THEORETICAL CABLE LENGTH:	=	11.912	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		11.891	FT M.S.L.
DEPTH TO WATER:	−	6.190	FT
REFERENCE ELEVATION:	=	5.701	FT M.S.L.
TEST NAME:		OUT-1	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1115	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client Entergy Indian Point Energy Center	WELL ID	OUT-1
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	--	DATUM	NGVD 29
MAKE	NonVented MiniTroll	GROUND ELEVATION (FT)	8.20	DATE	2/15/08
PSI CAPACITY	30	CASING ELEVATION (FT)	11.89		
SERIAL NUMBER	16599	CASING DIAMETER (INCH)	2		

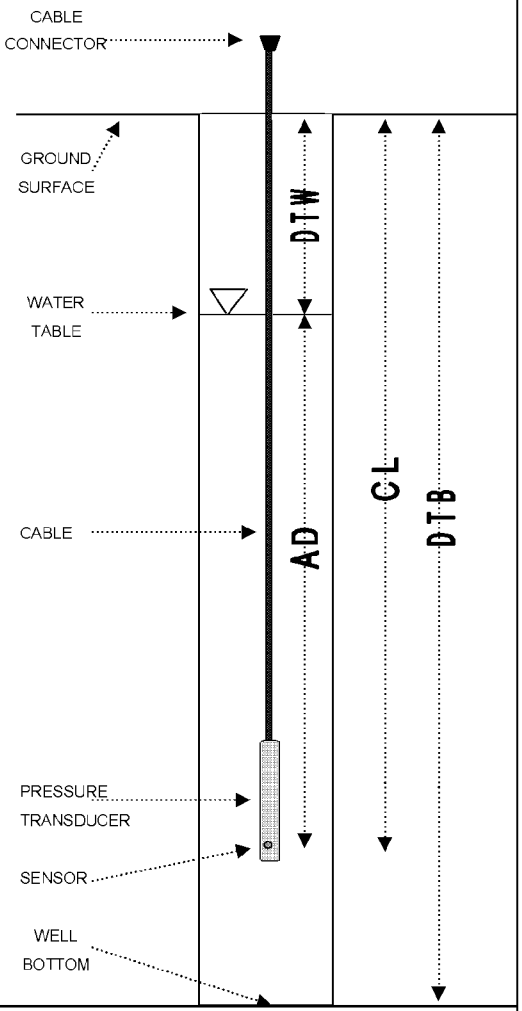
STATIC GROUNDWATER TABLE ELEVATION (FT): 1.65

GZA ENGINEER: S. Covelli, M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		--	FT
GROUND ELEVATION:		8.20	FT M.S.L.
CASING ELEVATION:		11.89	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		above	
DISTANCE FROM CASING TO GROUND (+ OR -):		3.69	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1114	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		10.24	FT
ACTUAL DEPTH:	+	NA	FT
THEORETICAL CABLE LENGTH:	=	NA	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		11.891	FT M.S.L.
DEPTH TO WATER:	−	10.240	FT
REFERENCE ELEVATION:	=	1.651	FT M.S.L.
TEST NAME:		OUT-1	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1115	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	U1CSS
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	NA	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	15.088	DATE	3/21/08
PSI CAPACITY	30	CASING ELEVATION (FT)	20.073		
SERIAL NUMBER	13911	CASING DIAMETER (INCH)	4		

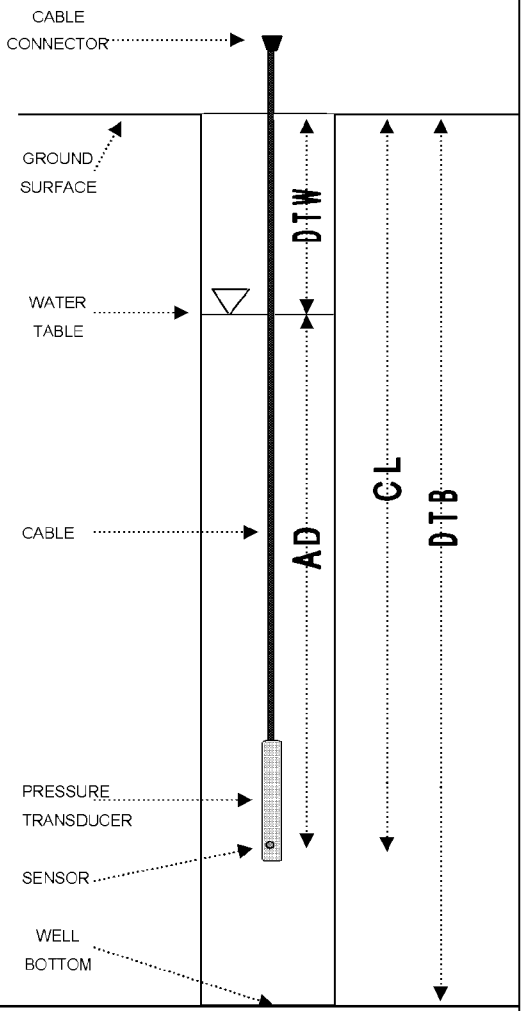
STATIC GROUNDWATER TABLE ELEVATION (FT): 18.60

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:		NA	FT
GROUND ELEVATION:		15.088	FT M.S.L.
CASING ELEVATION:		20.073	FT M.S.L.
CASING ABOVE (+) OR BELOW (-) GROUND:		above	
DISTANCE FROM CASING TO GROUND (+ OR -):		4.985	FT
MEASURED CABLE LENGTH:		--	FT
TIME OF MEASUREMENT:		1332	HRS
MEASUREMENT TAKEN FROM:		TOC	
DEPTH TO WATER:		1.47	FT
ACTUAL DEPTH:	+	11.377	FT
THEORETICAL CABLE LENGTH:	=	12.847	FT
HAVE CLOCKS BEEN SYNCHRONIZED?		☑	check
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?		☑	check
ELEVATION OF MEASURING POINT:		20.073	FT M.S.L.
DEPTH TO WATER:	−	1.47	FT
REFERENCE ELEVATION:	=	18.603	FT M.S.L.
TEST NAME:		U1CSS	
LOGGING INTERVAL:		20	MIN
TEST START TIME:		1533	HRS



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	U3-C1
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	NA	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	15.003	DATE	2/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	18.060		
SERIAL NUMBER	11998	CASING DIAMETER (INCH)	2		

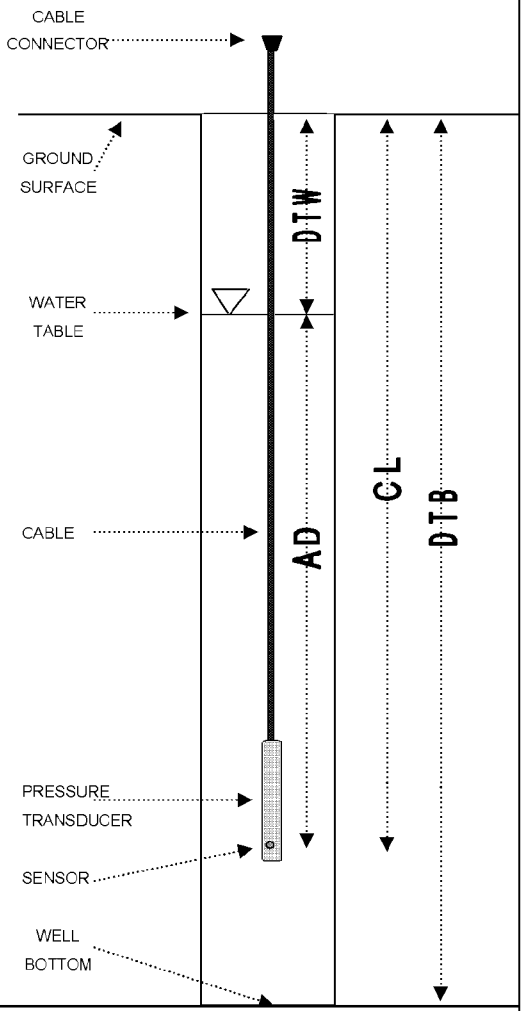
STATIC GROUNDWATER TABLE ELEVATION (FT): 3.16

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	NA	FT	
GROUND ELEVATION:	15.003	FT M.S.L.	
CASING ELEVATION:	18.060	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	above		
DISTANCE FROM CASING TO GROUND (+ OR -):	3.057	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1510	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	14.90	FT	
ACTUAL DEPTH:	+ 3.217	FT	
THEORETICAL CABLE LENGTH:	= 18.117	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	18.060	FT M.S.L.	
DEPTH TO WATER:	− 14.90	FT	
REFERENCE ELEVATION:	= 3.160	FT M.S.L.	
TEST NAME:	U3-C1		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1511	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

TRANSDUCER INSTALLATION LOG

GZA GEOENVIRONMENTAL OF NEW YORK 440 NINTH AVENUE, 18th FLOOR NEW YORK, NEW YORK 10001 SCIENTISTS AND ENGINEERS	Client: Entergy Indian Point Energy Center	WELL ID	U3-4S
		SHEET	1 of 1
		FILE NO.	41.0161619.00
		PROJECT LOCATION	Indian Point

MANUFACTURER	In-Situ	FINAL BORING DEPTH (FT)	17.35	DATUM	NGVD 29
MAKE	MiniTroll	GROUND ELEVATION (FT)	14.653	DATE	2/14/08
PSI CAPACITY	30	CASING ELEVATION (FT)	13.943		
SERIAL NUMBER	9401	CASING DIAMETER (INCH)	4		

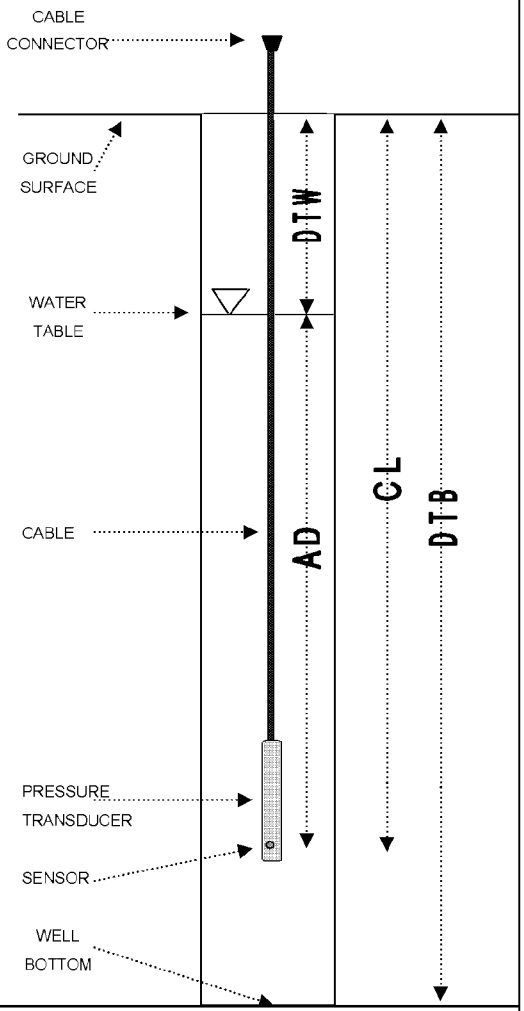
STATIC GROUNDWATER TABLE ELEVATION (FT): 4.76

GZA ENGINEER: M. Britos

ELEVATION OF MEASURING POINT - DEPTH TO WATER = REFERENCE ELEVATION (WATER TABLE ELEVATION)

DEPTH TO WATER + ACTUAL DEPTH = CABLE LENGTH (if transducer is functioning properly)

DEPTH TO BOTTOM:	17.35	FT	
GROUND ELEVATION:	14.653	FT M.S.L.	
CASING ELEVATION:	13.943	FT M.S.L.	
CASING ABOVE (+) OR BELOW (-) GROUND:	below		
DISTANCE FROM CASING TO GROUND (+ OR -):	-0.530	FT	
MEASURED CABLE LENGTH:	--	FT	
TIME OF MEASUREMENT:	1550	HRS	
MEASUREMENT TAKEN FROM:	TOC		
DEPTH TO WATER:	9.18	FT	
ACTUAL DEPTH:	+ 7.406	FT	
THEORETICAL CABLE LENGTH:	= 16.586	FT	
HAVE CLOCKS BEEN SYNCHRONIZED?	☑	check	
IS TRANSDUCER SET TO TAKE "SURFACE" READINGS?	☑	check	
ELEVATION OF MEASURING POINT:	13.943	FT M.S.L.	
DEPTH TO WATER:	− 9.18	FT	
REFERENCE ELEVATION:	= 4.763	FT M.S.L.	
TEST NAME:	U3-4S		
LOGGING INTERVAL:	20	MIN	
TEST START TIME:	1551	HRS	



LEGEND:
DTW - DEPTH TO WATER
DTB - DEPTH TO BOTTOM OF WELL
AD - ACTUAL DEPTH OF TRANSDUCER UNDER WATER
CL - CABLE LENGTH FROM SENSOR TO GROUND SURFACE/ TOP OF CASING

NOTES:

GZA

WELL ID : U3-4S

APPENDIX C: CHAINS OF CUSTODY

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote:
COC Number:
PO Number: 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Client — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Strontium 90 (Sr90	Strontium 90 (Sr90	Comments: Note: extra sample is required for sample specific QC
MW-40 162-(004)	01/07/08	1310	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-40 127-(004)	01/07/08	1230	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-40 100-(004)	01/07/08	1155	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-40-81 (004)	01/07/08	1435	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-40-46-(004)	01/07/08	1442	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-40-27 (003)	01/07/08	1628	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

<-- Preservative Type (6)

Should this sample be considered: Radioactive / TSCA Regulated

TAT Requested: Normal ✓ Rush Specify (Subject to Surcharge) — Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/7/08	1701	1 SECURED STORAGE	1/7/08	1701
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GFL Quote #
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type [6]	Comments
MW-51-40-(005)	01/08/08	1047	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-51-79-(005)	01/08/08	1008	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-51-104-(005)	01/08/08	1215	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-51-135-(005)	01/08/08	1320	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-51-163-(005)	01/08/08	1357	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-51-189-(005)	01/08/08	1310	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

Note: extra sample is required for sample specif QC

TAT Requested: Normal: ✓ Rush Specify. (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	01/08/08	1520	1 SECURED STORAGE	01/08/08	1520
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number: Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD: Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW: Surface Water, WW=Waste Water, W=Water, ML=Misc. Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. *8260B: 3, 6010B/7470B: 1*).

6) Preservative Type: HA= Hydrochloric Acid, NI: Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

IPEC00109906

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Preservative Type [6]	Comments Note: extra sample is required for sample specific QC
MW-63-18-(004)	01/09/08	1455	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-34-(004)	01/09/08	1420	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-50-(004)	01/09/08	1232	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-93-(004)	01/09/08	1246	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-112-(004)	01/09/08	1020	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-121-(004)	01/09/08	1042	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-163-(004)	01/09/08	1051	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-63-174-(004)	01/09/08	1045	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	1/9/08	1550	1 SECURED STORAGE	1/9/08	1550
			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW-Drinking Water, GW=Groundwater, SW=Surface Water, WW-Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1).

6) Preservative Type: HA-Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only

Custody Seal Intact: YES NO

Cooler Temp: °C

IPEC00109907

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
Bill To (Quote #):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy
Phone #: (914) 736-8405
Project Site Name: Indian Point Energy Center
Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Client
Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [3]	Field Filtered [6]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								Preservative Type [6] / Comments
MW-62-18 (004)	01/10/08	NO	SAMPLE		GW	Y	Y	1	1	1	1	NO	SAMPLE						1 Gal Poly
MW-62-37-(004)	01/10/08	1355	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-62-53-(003)	01/10/08	1537	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-62-71-(004)	01/10/08	1404	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-62-92-(004)	01/10/08	1109	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-62-138 (004)	01/10/08	1055	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-62-182-(004)	01/10/08	1115	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly

TAT Requested: Normal ✓ Rush Specify: (Subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
[signature]	1/10/08	1600	SECURED STORAGE	1/10/08	1600
			2		
			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX
Date Shipped:
Airbill #:
Airbill #:

Chain of Custody Number: Client Determined

QC Codes: N - Normal Sample, TB - Trip Blank, FD - Field Duplicate, EB - Equipment Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite
Field Filtered: For Liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
Matrix Codes: DW - Drinking Water, GW - Groundwater, SW - Surface Water, WW - Waste Water, W - Water, ML - Misc Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, U - Urine, F - Fecal, N - Nasal
Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470B- 1)
Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexane, ST - Sodium Thiosulfate, If no preservative is added - leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp. C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109908

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #
COC Number (1)
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and end date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)
MW-67-39-(004)	01/11/08	1644	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-105-(004)	01/11/08	1515	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-173-(004)	01/11/08	1335	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-219-(004)	01/11/08	1205	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-276-(004)	01/11/08	1300	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-323-(004)	01/11/08	1352	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
MW-67-340-(004)	01/11/08	1315	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other _____
Mountain

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/11/08	1652	SECURED STORAGE	1/11/08	1652
2	[signature]			2		
3				3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number = Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW Groundwater, SW= Surface Water, WW= Waste Water, W=Water, ML=Miscl iquid, SO Soil, SD=Sediment, SL=Sludge, SS Solid Waste, O=Oil, F Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA- Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only

Custody Seal Intact?
YES *NO*

Cooler Temp:
C

IPEC00109909

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)
MW-60-35-(004)	01/14/08	1705	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-60-53-(004)	01/14/08	1540	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-60-72-(004)	01/14/08	1412	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-60-135-(004)	01/14/08	1451	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-60-154-(004)	01/14/08	1235	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-60-176-(004)	01/14/08	1225	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/14/08	1720	1 SECURED STORAGE	1/14/08	1720
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, ER = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470B: 1)
6) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109910

Page: 1 of 1
Project # Entergy Ground Water Monitoring Prog
GEL Quote #
COC Number [1]
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6)	Comments
MW-66-21-(003)	01/14/08	[illegible]	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly	Note: extra sample is required for sample specific QC
MW-66-36 (003)	01/14/08	1145	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly	

TAT Requested: Normal: ✓ Push Specify (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other _____ Mountain

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	[illegible]	1/14/08	1715	[illegible]	1/14/08	1715
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number: Client Determined

2) QC Codes: N - Normal Sample, TB = Trip Blank, FD- Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW- Drinking Water, GW=Groundwater, SW-Surface Water, WW-Waste Water, W- Water, ML- Miscellaneous Liquid, SO-Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N- Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: _____ C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC0010911

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote:
COC Number:
PO Number: 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy | Phone #: (914) 736-8405
Project Site Name: Indian Point Energy Center | Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Client | Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							< -- Preservative Type (6) Comments Note: extra sample is required for sample speci QC
U1-CSS-(005)	01/15/08	1454	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) | Fax Results: Yes / (No) | Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/15/08	1530	1 secure storage	1/15/08	1530
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX | Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, EB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp. *C*

WHITE – LABORATORY **YELLOW – FILE** **PINK – CLIENT**

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client Send Results To: Patrick Donahue

Sample Analysis Requested [5] (fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: DoD/ELAP Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments
MW-54-37-(004)	01/15/08	1318	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-54-58-(004)	01/15/08	1345	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-54-123-(004)	01/15/08	1252	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-54-144-(004)	01/15/08	1122	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-54-173-(004)	01/15/08	1015	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-54-190-(004)	01/15/08	1037	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly

TAT Requested: Normal: ✓ Rush Specify (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other _____
Mountain

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/15/08	1440	[signature]	1/15/08	1440
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number: Client Determined

2) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW Drinking Water, GW Groundwater, SW Surface Water, WW=Waste Water, W Water, MI = Miscellaneous Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F= Filter, P= Wipe, U=Urine, F= Fecal, N= Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA Hydrochloric Acid, NI = Nitric Acid, SH Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109913

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	< -- Preservative Type (6)	Comments
MW-50-42 (012)	01/15/08	1159	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly	Note: extra sample is required for sample specific QC
MW-50-66 (012)	01/15/08	1210	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly	

TAT Requested: Normal ✓ Rush Specify (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other _____ Mountain

Chain of Custody Signatures

	Relinquished By (signature)	Date	Time	Received by (signature)	Date	Time
1	[signature]	1/15/08	1435	SECURED STORAGE	1/15/08	1435
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number: Client Determined

2) QC Codes: N=Normal Sample, TB=Trip Blank, FD=Field Duplicate, EB=Equipment Blank, MS=Matrix Spike Sample, MSD=Matrix Spike Duplicate Sample, G=Grab, C=Composite

3) Field Filtered: For liquid matrices, indicate with a Y=for yes the sample was field filtered or N=for sample was not field filtered.

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B=3, 6010B/7470A=1)

6) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate, If no preservative is added=leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109914

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							<-- Preservative Type (6)	Comments
MW-31-49-(007)	01/16/08	1031	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly	Note: extra sample is required for sample specific QC
MW-31-63-(007)	01/16/08	1132	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly	
MW-31-85-(007)	01/16/08	1126	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly	

TAT Requested: Normal: ✓ Rush ___ Specify: ___ (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/16/08	1701	SECURED STORAGE	1/16/08	1701
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W=Water, Ml.=Misc Liquid, SO-Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N= Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B and number of containers provided for each (i.e. 8260B 3, 6010B/7470A - 1)

6) Preservative Type: HA- Hydrochloric Acid, NI - Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109915

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Client Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)
MH-5-(004)	01/16/08	1230	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/16/08	1659	SECURED STORAGE	1/16/08	1659
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined
2) QC Codes: N - Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field-filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Miscl Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1).
6) Preservative Type: HA=Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

IPEC00109916

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy
Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center
Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Client
Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	--- Preservative Type (6)	Comments
B-6-(004)	01/16/08	1650	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify (Subject to Surcharge)
Fax Results: Yes / No
Circle Deliverable: COA / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	1/16/08	1700	SECURED IN STORAGE	1/16/08	1700
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX
Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number: Client Determined
2) QC Codes: N - Normal Sample, TB - Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite
3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW= Surface Water, WW= Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F= Filter, P=Wipe, T=Crime, F=Fecal, N=Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B and number of containers provided for each (i.e. 8260B-3, 6010B/7470A - 1).
6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact: YES NO
Cooler Temp: °C

IPEC00109917

Page 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Brites — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							<-- Preservative Type (6) / Comments — Note: extra sample is required for sample specific QC
MW-39-67-(003)	01/17/08	1435	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-39-84-(003)	01/17/08	1325	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-39-102-(003)	01/17/08	1332	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-39-124-(003)	01/17/08	1540	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-39-183-(003)	01/17/08	1155	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-39-195-(003)	01/17/08	1728	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other ______

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/17/08	1810	1 SECURED STORAGE	1/17/08	1810
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B-3, 6010B/7470A-1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109918

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8435

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* for composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	--- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MW-32-48-(004)	01/18/08	1320	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-59-(002)	01/18/08	1325	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-85-(005)	01/18/08	1450	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-131-(005)	01/18/08	1123	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-149-(005)	01/18/08	1118	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-173-(002)	01/18/08	1105	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-32-190-(005)	01/18/08	1135	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Miguel Britos	1/18/08	1645	SECURED STORAGE	1/18/08	1645
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

1.) Chain of Custody Number: Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4.) Matrix Codes: DW Drinking Water, GW Groundwater, SW Surface Water, WW Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. *8260B, 6010B/7470A*) and number of containers provided for each (i.e. *8260B 3, 6010B/7470A 1*)

6.) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109919

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Comments (<-- Preservative Type (6)) Note: extra sample is required for sample specific QC
MW-42-49 (008)	01/21/08	1611	N	N	GW	Y	Y	1	1	1	1	1						1 Gal Poly
MW-42-78-(007)	01/21/08	1533	N	N	GW	Y	Y	1	1	1	1	1						1 Gal Poly

TAT Requested: Normal ✓ Rush ___ Specify ___ (Subject to Surcharge) Fax Results: Yes / (No) Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other ___ Mountain

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	Miguel Britos	1/21/08	1740	SECURED STORAGE	1/21/08	1740
2				2		
3				3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109920

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-5247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Brutos — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<= Preservative Type (6)	Comments
MW-53-82-(006)	01/21/08	1252	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly	Note: extra sample is required for sample specific QC
MW-53-120-(006)	01/21/08	1043	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly	

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/21/08	1741	1 SECURED STORAGE	1/21/08	1741
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number – Client Determined

2.) QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4.) Matrix Codes: DW Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B, 3, 6010B/7470B - 1)

6.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp.

IPEC00109921

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code 2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	--- Preservative Type (6)
MW-46-(011)	01/22/08	1219	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush ___ Specify: ___ (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other ___

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	1/22/08	1730	SECURED IN STORAGE	1/22/08	1730
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD- Field Duplicate, EB - Equipment Blank, MS- Matrix Spike Sample, MSD- Matrix Spike Duplicate Sample, G- Grab, C- Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML-Misc Liquid, SO-Soil, SD-Sediment, SL-Sludge, SS-Solid Waste, O-Oil, F-Filter, P-Wipe, U-Urine, F-Fecal, N-Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470B: 1)

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA- Sulfuric Acid, AA- Ascorbic Acid, HX- Hexane, ST - Sodium Thiosulfate. If no preservative is added - leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp C

WHITE - LABORATORY YELLOW - FILE PINK - CLIENT

IPEC00109922

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page: 1 of 1
Project: Entergy Ground Water Monitoring Prog
GEL Quote:
COC Number:
PO Number: 50014510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Angela Altieri — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	Comments
U3-T1 (019)	01/22/08	1611	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
U3-T1-(019)-B	01/22/08	1611	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
U3-T1-(019)-D	01/22/08	1611	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
U3-T1-(019)-S	01/22/08	1611	N	N	GW	Y	Y	1	1	1	1	1	1 Gal Poly
U3-T2-(024)	01/22/08	1616	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

Comments: Note: extra sample is required for sample specific QC
Preservative Type (6)

TAT Requested: Normal ✓ Rush Specify (Subject to Surcharge) — Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished by (signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]		1735	1 [signature]	012208	1730
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y for yes the sample was field filtered or N for sample was not field filtered
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B-3, 6010B/7470A-1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109923

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Proc
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Brites Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: DOE/CA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								<--- Preservative Type (6)
B-1-(004)	01/22/08	1308	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Miguel Brites	1/22/08	1730	SECURED IN STORAGE	1/22/08	1730
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp.

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109924

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)							<-- Preservative Type (6) / Comments Note: extra sample is required for sample specific QC
MW-58-26-(005)	01/22/08	1320	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly
MW-58-65-(005)	01/22/08	1200	N	N	GW	Y	Y	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other ______ Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	[signature]	1/23/08	1730	1	[signature]	1/23/08	1730
2				2			
3				3			

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
PO Number[1]:
Number: 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: — Send Results To: Patrick Donahue

Sample Analysis Requested[5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [3]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Comments (Note: extra sample is required for sample specific QC)
												← Preservative Type (6)
MW-37-22-(010)	01/23/08	1042	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW-37-32-(010)	01/23/08	1103	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

TAT Requested: Normal ✓ Rush Specify (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[illegible]	1/23/08	1450	1 [illegible]	1/23/08	1450
			2		
			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1. Chain of Custody Number = Client Determined
2. QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3. Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4. Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5. Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6. Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (S-90)	< -- Preservative Type (6) Comments Note: extra sample is required for sample specific QC
MW 36-24-(010)	01/23/08	1418	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly
MW 36-52-(009)	01/23/08	1413	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

* For composites - indicate start and stop date/time

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other ____ Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	1/23/08	1450	1 Secure Storage	1/23/08	1450
			2		
			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109927

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Angela Altieri — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive*	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								C= Preservative Type (6)
MW-41-40-(010)	01/24/08	1628	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly

Comments
Note: extra sample is required for sample specif QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Angela Altieri	1/24/08	1715	1 Bruce Strupp	1/24/08	1715
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number - Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Miso Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

IPEC00109928

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 500-13510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: DOE/A Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								<-- Preservative Type (6)
MW-44-102-(008)	01/24/08	1255	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly
MW-44-67-(007)	01/24/08	1305	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush ____ Specify ____ (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other ____
Mountain

Chain of Custody Signatures

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/24/08	1715	1 SECURED STORAGE	1/24/08	1715
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number - Client Determined

2.) QC Codes: N - Normal Sample, TB - Trip Blank, FD - Field Duplicate, EB - Equipment Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite

3.) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4.) Matrix Codes: DW - Drinking Water, GW - Groundwater, SW - Surface Water, WW - Waste Water, W - Water, ML - Misc. Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, U - Urine, F - Fecal, N - Nasal

5.) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470B: 1)

6.) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexane, ST - Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: ____ C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109929

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Brito — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-45-42-(011)	1/25/08	1215	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-45-61-(011)	1/25/08	1155	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush Specify: (Subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/25/08	1410	SECURED IN STORAGE	1/25/08	1410
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number: Client Determined
2) QC Codes: N=Normal Sample, TB=Trip Blank, FD=Field Duplicate, EB=Equipment Blank, MS=Matrix Spike Sample, MSD=Matrix Spike Duplicate Sample, G=Grab, C=Composite
3) Field Filtered: For liquid matrices, indicate with a Y=for yes the sample was field filtered or N=for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Miscellaneous Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analyses Requested: Analytical method requested (i.e. *8260B, 6010B/7470A* and number of containers provided for each (i.e. *8260B-3, 6010B/7470A-1*)
6) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109930

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Brites Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr-90)	Comments (Note: extra sample is required for sample specific QC) <-- Preservative Type (6)
MW-41-63-(009)	1/25/08	1005	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

*For composites - indicate start and stop date/time

TAT Requested: Normal: ✓ Rush Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other ______

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	1/25/08	1410	SECURED IS TO CAGE	1/25/08	1410
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109931

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: [signature] — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites, indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-43-28-(009)	4/25/08	1111	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-43-62-(009)	4/25/08	1257	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

Comments: Note: extra sample is required for sample specific QC

TAT Requested: Normal ✓ Rush Specify (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other _____

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	4/25/08	1410	1 [signature]	4/25/08	1410
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes - N - Normal Sample, TB - Trip Blank, FD - Field Duplicate, EB - Equipment Blank, MS- Matrix Spike Sample, MSD- Matrix Spike Duplicate Sample, G= Grab, C = Composite

3) Field Filtered - If required samples, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes - DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML-Misc. Liquid, SO-Soil, SD-Sediment, SL-Sludge, SS-Solid Waste, O-Oil, F-Filter, P- Wipe, U-Urine, F-Fecal, N- Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470B - 1)

6) Preservative Type - HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA- Ascorbic Acid, HX - Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: _____ C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109932

Page 1 of 1
Project: Entergy Ground Water Monitoring Prog
GEL Quote:
COC Number:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: [signature] — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and end date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	-- Preservative Type (6)
MW-41-40-(010)	01/24/08	1628	N	N	GW	Y	Y	1	1	1	1	1 Gal Poly

Comments: Note: extra sample is required for sample specif QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]			[signature]		1715
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: °C

1) Chain of Custody Number - Client Determined
2) QC Codes: N - Normal Sample, FB - Field Blank, FD - Field Duplicate, EB - Equipment Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite
3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW - Drinking Water, GW - Groundwater, SW - Surface Water, WW - Waste Water, W - Water, ML - Misc Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, FP - Filter, F - Feed, N - Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470A, etc.) and number of containers provided for each (i.e. 8260B-3, 6010B/7470A-1)
6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexane, ST - Sodium Thiosulfate, If no preservative is added - leave field blank

WHITE - LABORATORY YELLOW - FILE PINK - CLIENT

IPEC00109933

Page: 1 of 1
Project #: Energy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: [illegible signature] — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Comments (<-- Preservative Type (6)) Note: extra sample is required for sample specific QC
MW-55-24-(005)	1/28/08	1257	N	N	GW	Y	Y	1	1	1	1	1						1 Gal Poly
MW-55-35-(005)	01/28/08	1146	N	N	GW	Y	Y	1	1	1	1	1						1 Gal Poly
MW-55-54-(005)	01/28/08	1142	N	N	GW	Y	Y	1	1	1	1	1						1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other ___ Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	[signature]	1/28/08	1715	1	Secure Storage	1/28/08	1715
2				2			
3				3			

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1.) Chain of Custody Number = Client Determined
2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? *YES* *NO*
Cooler Temp: *C*

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6) / Comments Note: extra sample is required for sample specific QC
MW-49-26-(011)	04/28/08	1625	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly
MW-49-42-(011)	04/28/08	1549	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly
MW-49-65-(011)	04/28/08	1652	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) — Fax Results: Yes / (No) — Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other ___ Mountain

Chain of Custody Signatures					
Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	4/28/08	1715	1 [signature]	4/28/08	1715
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
Gel Quote:
COC Number:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy
Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center
Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Brito
Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and end date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							<-- Preservative Type (6)
MW-111-(026)	1/23/08	1138	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (* subject to Surcharge)
Fax Results: Yes / (No)
Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Comments
Note: extra sample is required for sample specif QC

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished by (Signed)	Date	Time	Received by (signed)	Date	Time
1	1/28/08	1715	SECURED ISTORAGE	1/28/08	1715
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX
Date Shipped:
Airbill #:
Airbill #:

1) Chain of Custody Number: Client Determined
2) QC Code: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For dissolved metals, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, B = Blank, F = Fecal, N = Nasal
5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. SW846.3, 6010B/7470B - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added, leave field blank.

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only
Custody Seal Intact?
YES NO
Cooler Temp.
C

IPEC00109936

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number 50013510

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405
Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247
Address: 450 Broadway, Suite 3, Buchanan, NY 10511
Collected by: Miguel Britos — Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								< Preservative Type (6) Comments Note: extra sample is required for sample specific QC
MW-62-18-(004)	1/31/08	1515	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	1/31/08	1705	SECURED STORAGE	1/31/08	1705
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy
Method of Shipment: FEDEX — Date Shipped:
Airbill #
Airbill #

For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp: C

1) Chain of Custody Number = Client Determined
2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.
4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109937

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number (1):
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Batos Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: DoD/CA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	Preservative Type (6)	Comments
MW-56-53-(004)	1/31/08	1230	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-56-83-(006)	1/31/08	0930	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No) Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
[signature]	1/31/08	1705	SECURED IN STORAGE	1/31/08	1705
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number: Client Determined

2) QC Codes: N= Normal Sample, TB= Trip Blank, FD= Field Duplicate, ER = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analyses Requested: Analytical method requested (i.e. 8260B, 6010B/7470B)and number of containers provided for each (i.e. 5/2608, 3/6010B/7470A - 1)

6) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate. If no preservative is added = leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109938

Page: 1 of 1

Project #: Entergy Ground Water Monitoring Prog

GEL Quote #:

COC Number [1]:

PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Brites Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: RCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							Preservative Type [6]
MW-37-40-(010)	2/1/08	1720	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly
MW-37-57-(010)	2/1/08	1631	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal ✓ Rush: Specify: (Subject to Surcharge)

Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
Eastern Pacific
Central Other
Mountain

Chain of Custody Signatures

Relinquished By (signed)	Date	Time	Received by (signed)	Date	Time
Miguel A Brites	2/1/08	1730	SECURED STORAGE	2/1/08	1730
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD- Field Duplicate, EB - Equipment Blank, MS- Matrix Spike Sample, MSD- Matrix Spike Duplicate Sample, G- Grab, C - Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML-Miscellaneous Liquid, SO-Soil, SD-Sediments, SL-Sludge, SS-Solid Waste, O-Oil, F-Filter, P-Wipe, U-Urine, F-Fecal, N-Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B)and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA - Sulfuric Acid, AA- Ascorbic Acid, HX - Hexane, ST - Sodium Thiosulfate, If no preservative is added - leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp.

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109939

Page: 1 of 1
Project # Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)								Preservative Type [6]	Comments
U3-4D-(015)	2/1/08	1240	N	N	GW	Y	Y	1	1	1	1								1 Gal Poly	Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify: (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 Level 4

***Remarks:** Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone
(Eastern) Pacific
Central Other
Mountain

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/1/08	1630	SECURED STORAGE	2/1/08	1630
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD= Field Duplicate, EB = Equipment Blank, MS - Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WW-Waste Water, W-Water, ML-Misc. Liquid, SO-Soil, SD-Sediment, SL- Sludge, SS-Solid Waste, O-Oil, F-Filter, P-Wipe, U-Urine, F- Fecal, N- Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B, 3, 6010B/7470A - 1)

6) Preservative Type: HA- Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA- Ascorbic Acid, HX= Hexane, ST - Sodium Thiosulfate, If no preservative is added - leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: °C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109940

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy — Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center — Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos — Send Results To: Patrick Donahue

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	<-- Preservative Type (6)	Comments
MW-30-69-(017)	2/4/08	1300	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly
MW-30-84-(008)	2/4/08	1416	N	N	GW	Y	Y	1	1	1	1		1 Gal Poly

Note: extra sample is required for sample specific QC

TAT Requested: Normal: ✓ Rush: Specify (Subject to Surcharge)

Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other:

Chain of Custody Signatures

Relinquished by (signed)	Date	Time	Received by (signed)	Date	Time
1	2/4/08	1540	SECURED STORAGE	2/4/08	1540
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX — Date Shipped:

Airbill #:

Airbill #:

1.) Chain of Custody Number: Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For Liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered.

4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B: 3, 6010B/7470A: 1)

6.) Preservative Types: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added - leave field blank

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: ____ C

WHITE = LABORATORY **YELLOW = FILE** **PINK = CLIENT**

IPEC00109941

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax #: (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Britos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MW-67-105-(004)	2/25/08	1344	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-173-(004)	2/25/08	1400	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-219-(004)	2/25/08	1143	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-276-(004)	2/25/08	1148	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-323-(004)	2/25/08	1159	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-340-(004)	2/25/08	1200	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly
MW-67-39-(004)	2/25/08	1538	N	N	GW	Y	Y	1	1	1	1	1		1 Gal Poly

TAT Requested: Normal: ✓ Rush: Specify (Subject to Surcharge) Fax Results: Yes / (No)

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: *Are there any known hazards applicable to these samples? If so, please list the hazards*

Sample Collection Time Zone: (Eastern) Central Mountain Pacific Other

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	2/25/08	1625	SECURED IN STORAGE	2/25/08	1625
2						
3						

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number - Client Determined

2) QC Codes: N - Normal Sample, TB - Trip Blank, FD- Field Duplicate, EB = Equipment Blank, MS= Matrix Spike Sample, MSD= Matrix Spike Duplicate Sample, G= Grab, C= Composite

3) Field Filtered - For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW Drinking Water, GW Groundwater, SW Surface Water, WW-Waste Water, W=Water, ML=Mine Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, FilFilter, P=Wipe, I=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested - Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B- 3, 6010B/7470A - 1)

6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH- Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Thiosulfate, If no preservative is added, leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: °C

IPEC00109942

Page: 1 of 1
Project #: Entergy Ground Water Monitoring Prog
GEL Quote #:
COC Number [1]:
PO Number: 50013510

GEL Chain of Custody and Analytical Request

See www.gel.com for GEL's Sample Acceptance SOP

GEL Work Order Number:

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Entergy Phone #: (914) 736-8405

Project/Site Name: Indian Point Energy Center Fax # (914) 734-6247

Address: 450 Broadway, Suite 3, Buchanan, NY 10511

Collected by: Miguel Brtos Send Results To: Patrick Donahue

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)							Comments Note: extra sample is required for sample specific QC
																			<= Preservative Type (6)
MW-50-42-(013)	2/26/08	1219	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly
MW-50-66-(013)	2/26/08	1346	N	N	GW	Y	Y	1	1	1	1	1							1 Gal Poly

TAT Requested: Normal: ✓ Rush Specify: (Subject to Surcharge) Fax Results: Yes / No

Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4

Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards

Sample Collection Time Zone: (Eastern) Pacific Central Other Mountain

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
Miguel A Bt	2/26/08	1410	SECURED IN STORAGE	2/26/08	1410
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM: Cheryl Duffy

Method of Shipment: FEDEX Date Shipped:

Airbill #:

Airbill #:

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470B) and number of containers provided for each (i.e. 8260B = 3, 6010B/7470B = 1)

6) Preservative Type: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ST=Sodium Thiosulfate. If no preservative is added, leave field blank

For Lab Receiving Use Only

Custody Seal Intact YES NO

Cooler Temp °C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

IPEC00109943

APPENDIX D: 1ST QUARTER 2008 SAMPLING DATA SHEETS

Waterloo Sampling Data Sheet MW-30-[illegible]017

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER Showers 45°F

PROJECT NO. [illegible]
DATE 2/4/08
SAMPLER'S M.B.

SAMPLING INTERVAL (depth in ft below top of casing) 67.3 to 77.3

SAMPLING PORT 9

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 40

TOTAL VOLUME PURGED: 2.85 gal

PURGE RATE: variable gal/min

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Press (psi)
1145	PUMP ON								
1150	0	7.14	1.025	—	2.29	20.53	-17.8	3.3/10	40
1155	0.15	8.01	0.992	—	1.86	21.54	+38.7	"	"
1200	0.30	8.04	0.976	—	2.02	21.97	78.4	"	"
1205	0.35	8.17	0.980	—	2.35	22.04	97.6	"	"
1208	0.40	8.16	0.979	—	2.56	22.06	101.4	"	"
1212	0.50	8.17	0.973	—	2.86	22.11	109.1	"	"
1215	0.55	8.17	0.977	—	2.93	22.[illegible]	111.3	"	"
1218	0.60	8.18	0.978	—	3.01	22.11	115.2	↓	↓
1220	START SAMPLE								
1300	SAMPLE COMPLETED:				1-1gal HDPE				
					1-500 ml. H2SO4				

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader + set #	3

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-30-34(008)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Showers 45°F

PROJECT NO.:
DATE: 2/4/08
SAMPLER S: M. B.

SAMPLING INTERVAL (depth in ft below top of casing): 77.3 to 85.4

SAMPLING PORT: 34

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 1.9

TOTAL VOLUME PURGED: 0.37 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressur (psi)
1145	PUMP ON								
1150	0	7.10	0.732	—	2.46	7.48	-22.9	3.3/10	40
1155	0.05	7.12	1.401	—	2.55	16.86	-33.3	/	
1200	0.10	7.07	1.442	—	1.36	16.14	-32.0		
1205	0.20	7.07	1.446	—	1.19	15.47	-22.0		
1208	0.25	7.07	1.446	—	1.22	14.88	-14.2		
1212	0.26	7.14	1.443	—	1.44	4.63	-11.9		
1225	0.29	7.07	1.442	—	0.97	14.80	-7.8		
1229	0.30	7.07	1.442	—	0.95	14.74	-6.7		
1232	0.32	7.07	.442	—	0.90	14.67	-0.1		
1235	0.35	7.07	1.434	—	0.87	14.78	-0.6		
1238	0.37	7.07	1.426	—	0.85	14.72	-0.9		
1240		START SAMPLE							
1416		SAMPLE COMPLETED : 1-1 gal IPEC							

Equipment Used	Equipment Serial Number / Identification Number
YSI 1 set #	2
Loader	

NOTES AND OBSERVATIONS:

Waterloo Sampling

Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 32° F

PROJECT NO.: [illegible] MW-67-219
DATE: [illegible]
SAMPLER(S): [illegible]

SAMPLING INTERVAL (depth in ft below top of casing) [illegible] to [illegible]

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length [illegible]

SAMPLING PORT [illegible]

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]						[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]							
1031	[illegible]	Sample	1 -	1 gal	IPEC				
			1 -	1/2 gal	DFC				
			1 -	500 ml.	Relicensing				

Equipment Used	Equipment Serial Number Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 32° F

PROJECT NO:
DATE:
SAMPLER S):

SAMPLING INTERVAL (depth in ft below top of casing)
to

SAMPLING PORT

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length

TOTAL VOLUME PURGED:
1.5 gal

PURGE RATE: variable (gal min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS m)	Turbidity (NTU)	Dissolved Oxygen (mg l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1432	end Sample		1 gal IPEC 1 1/4 gal DEC						

Equipment Used	Equipment Serial Number / Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 32° F
PROJECT NO:
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing) _____ to _____

GALLONS OF WATER PER WELL VOLUME: Sampling interval Length _____

SAMPLING PORT _____

TOTAL VOLUME PURGED: 1.6 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1126	end sample			1 1/2 gal	IPEC				
					1 1/2 gal	DEC			

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW - 32 - 48 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle, Sun 40°F

PROJECT NO: 41.0161619.00
DATE: 1/18/08
SAMPLER(S): M.B

SAMPLING INTERVAL (depth in ft below top of casing) 28.3 to 61.3

SAMPLING PORT 48

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 33

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min) 7

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1140	0	PUMP ON						75/15	24
1151	0.1	7.54	0.280	—	[illegible]	6.75	10.[illegible]	75/15	24
1200	0.25	7.20	0.397	0.0	3.31	6.67	9.3	75/12	24
1205	0.40	7.26	1.010	0.0	3.16	7.55	1.8	↓	↓
1215	0.80	7.35	1.051	0.0	3.20	7.02	6.4		
1225	1.5	7.36	0.668	0.0	3.76	7.32	5.2		
1235	[illegible]	7.36	0.778	0.0	3.84	[illegible]	25.9		
1240	2.0	7.36	0.797	0.0	3.65	17.67	[illegible]		
1244	2.1	7.36	[illegible]	0.0	[illegible]	17.73	27.6		
1245		PUMP OFF							
[illegible]		Begin sample							
1320		Sample complete			1-1 gal [illegible]				
					1-500 ml ([illegible])				

Equipment Used	Equipment Serial Number/ Identification Number
YSI	[illegible]
Reeder / Set #	
Turbidity meter	20075 4793

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW - 32 - 59 (002)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle / Sun 40°F

PROJECT NO: 41 016 619 00
DATE: 1/18/08
SAMPLER(S): M. B

SAMPLING INTERVAL (depth in ft below top of casing) 28.3 to 61.3

SAMPLING PORT 59

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 33 c

TOTAL VOLUME PURGED: 35 gal

PURGE RATE: variable (gal min) 6

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1140	0								
1150	0.28								
1200	0.63								
1210	0.98								
1220	1.33								
1230	1.68								
1240	2.03								
1250	2.38								
1300	2.73								
1310	3.08								
1320	3.43								
1330	3.78								
1340	4.13								
1350	4.48								
1400	4.83								
1410	5.18								
1420	5.53								
1430	5.88								
1440	6.23								
1450	6.58								
1500	6.93								
1510	7.28								
1520	7.63								
1530	7.98								
1540	8.33								
1550	8.68								
1600	9.03								
1610	9.38								
1620	9.73								
1630	10.08								
1640	10.43								
1650	10.78								
1700	11.13								
1710	11.48								
1720	11.83								
1730	12.18								
1740	12.53								
1750	12.88								
1800	13.23								
1810	13.58								
1820	13.93								
1830	14.28								
1840	14.63								
1850	14.98								
1900	15.33								
1910	15.68								
1920	16.03								
1930	16.38								
1940	16.73								
1950	17.08								
2000	17.43								
2010	17.78								
2020	18.13								
2030	18.48								
2040	18.83								
2050	19.18								
2100	19.53								
2110	19.88								
2120	20.23								
2130	20.58								
2140	20.93								
2150	21.28								
2200	21.63								
2210	21.98								
2220	22.33								
2230	22.68								
2240	23.03								
2250	23.38								
2300	23.73								
2310	24.08								
2320	24.43								
2330	24.78								
2340	25.13								
2350	25.48								
2400	25.83								
2410	26.18								
2420	26.53								
2430	26.88								
2440	27.23								
2450	27.58								
2500	27.93								
2510	28.28								
2520	28.63								
2530	28.98								
2540	29.33								
2550	29.68								
2600	30.03								
2610	30.38								
2620	30.73								
2630	31.08								
2640	31.43								
2650	31.78								
2700	32.13								
2710	32.48								
2720	32.83								
2730	33.18								
2740	33.53								
2750	33.88								
2800	34.23								
2810	34.58								
2820	34.93								
2830	35.28								

Equipment Used	Equipment Serial Number/ Identification Number
YSI Meter / Set #	3
Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-32-85 (OC5)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle | Sun 40°F

PROJECT NO: 41.0161619.00
DATE: 1/18/08
SAMPLER(S): M B

SAMPLING INTERVAL (depth in ft below top of casing)
193 to 328

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 135

SAMPLING PORT
85

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal min) 5

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	0	[illegible]	[illegible]					[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]
[illegible]	0.5	[illegible]	[illegible]						
[illegible]	0.25	[illegible]	[illegible]						
[illegible]	2.25	[illegible]	[illegible]						
[illegible]	2.25	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	PUMP OFF							
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
YSI Meter	Set #
Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-32-131 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle | Sun 40°F

PROJECT NO: 41.0161619.00
DATE: 1/18/08
SAMPLER(S): M.B

SAMPLING INTERVAL (depth in ft below top of casing)
125.8 to 138.3

SAMPLING PORT
131

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 12.5

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal/min)

4

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.90	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	1.95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.62	[illegible]		
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	[illegible]
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-32-149 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle | Son 40°F

PROJECT NO: 41-0161619.00
DATE: 1/18/08
SAMPLER(S): M B

SAMPLING INTERVAL (depth in ft below top of casing)
147.3 to 152.3

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 5.5

SAMPLING PORT
149

TOTAL VOLUME PURGED:
2 [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number
YSI Probe / Set #	3
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-32-173 (002)

CLIENT: Energy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle | Sun 40°F

PROJECT NO: 41 01616 19.00
DATE: 1/18/08
SAMPLER(S): M.B

SAMPLING INTERVAL (depth in ft below top of casing)
165.8 to 174.3

SAMPLING PORT
173

GALLONS OF WATER PER WELL VOLUME:
Sampling interval Length 8.5

TOTAL VOLUME PURGED:
50 gal

PURGE RATE: variable gal/min

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number
YSI Reader	Set #
Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-32-190 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Drizzle | Sun 40°F

PROJECT NO: 4] 01616[9.00
DATE: 1/18/08
SAMPLER(S): M B

SAMPLING INTERVAL (depth in ft below top of casing)
180.3 to 193.9

SAMPLING PORT
19c

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 13.6

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number
YSI Reader / Set #	
Turbidity meter	

NOTES AND OBSERVATIONS:

Low-Flow Sampling Data Sheet

MW36-24(010)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 16619.03
DATE: 4/23/08
SAMPLER(S): A.A, M.B

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1141	19.174	(DTW - 4.32?)								
1142	Pump On									
1146	19.176	7.41	2.572	1.36	1.59	19.71	-161.6		2	0.3
1151	19.181	7.73	2.630	0.93	0.95	19.47	-152.8			0.35
1156	19.181	7.88	2.686	0.58	0.70	20.38	-148.6			0.4
1201	19.181	7.96	2.712	1.01	0.60	21.09	-136.7			0.45
1208	19.183	8.02	2.722	0.94	0.65	20.50	-124.2			0.55
1213	19.183	8.08	2.768	1.25	0.63	20.58	-156.9			0.65
1218	19.183	8.11	2.713	1.03	0.37	20.12	-180.0			0.75
1225	19.187	8.11	2.733	0.91	0.36	20.27	-175.7			0.85
1235	19.185	8.12	2.773	0.87	0.34	20.02	-180.4			0.95
1245	19.165	8.13	2.713	1.16	0.3	18.37	-182.2			1.2
1250	19.098	8.12	2.685	1.65	0.49	18.55	-173.2			1.35
1255	19.091	8.12	2.658	1.42	0.32	19.27	-174.5			1.50
1300	19.089	8.12	2.667	1.70	0.37	19.67	-171.4			1.65
1305	19.090	8.12	2.692	0.97	0.44	19.40	-170.0			1.80
1310	19.088	8.12	2.716	0.71	0.35	20.14	-166.3			2
1315	19.197	8.13	2.760	1.34	0.44	20.38	-152.8			2.25
1320	19.204	8.12	2.772	1.02	0.34	20.10	-138.3			2.35
1325	19.201	8.11	2.772	1.13	0.31	20.47	-122.6			2.45
1330	19.201	8.11	3.011	1.25	0.41	21.28	-103.8			2.50
1335	19.203	8.12	2.949	1.23	0.37	21.71	-101.6			2.55
1340	19.203	8.13	2.876	1.35	0.31	22.23	-119.5			2.60
1345	19.203	8.13	2.864	1.41	0.29	22.33	-122.7			2.65
1350	19.204	8.13	2.852	1.47	0.30	22.32	-133.4			2.70
1352	Start Sample			1 gal + 1 - 500 mL				[illegible]		
1418	End Sample									

Equipment Used	Equipment Serial Number/ Identification Number
451 set	2
Turbidity meter	2006?1254

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00109957

Low-Flow Sampling Data Sheet

MW 32-S2 (60?)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 16?6?9.00
DATE: 1/23/08
SAMPLER(S): MG/??

WATER QUALITY:

Time	~~Depth to Water (ft)~~	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1140	46.195 (DTW: 50.3')									
1142	Pump on									
1146	42.445	7.0?	1.789	27.65	1.94	22.34	99.9			~~[illegible]~~ 0.25
1152	44.337	7.14	1.755	15.29	1.19	21.82	-128.9			0.3
1159	44.394	7.17	1.723	20.65	0.96	22.59	-142.9			0.33
1205	44.583	7.20	1.705	20.27	1.62	23.51	-146.6			0.35
1209	44.456	7.21	1.700	19.95	0.92	24.82	-144.4			0.4
1214	44.458	7.22	1.696	16.27	0.85	25.50	-155.1			0.43
1219	44.520	7.21	1.692	16.75	0.69	25.77	-141.6			0.45
1228	44.874	7.23	1.685		0.63	25.53	-145.8			0.48
1235	44.819	7.30	1.664	17.49	0.94	18.59	-164.2			0.50
1246	44.659	7.27	1.553	11.50	1.18	15.44	-148.3			0.55
1249	Pump turned off									?? used Peristaltic Pump ?? see
										?? ?? ??
	Go to next page									?? sheet

Equipment Used	Equipment Serial Number/ Identification Number
YSI set	3
Turbidity Meter	2003?1254

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-~~[illegible]~~ 36 SD (009)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Cold 30° F

PROJECT NO: 41.0161619.00
DATE: 1/23/09
SAMPLER(S): Miguel Britos / A A.

WATER COLUMN HEIGHT (ft)

57 (DTB) - 4.32 (DTW) = 47.68 ft (Well Column Height)

Well Diameter: 1 inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 47.68 x .041 (Multiplier) = 1.95 gallons (Well Volume)

DESIGNED PURGE VOLUME: .95 x 1.5 = 3.90 gallons (Designed Purge Volume)

TOTAL VOLUME PURGED: 3.9 gal

PURGE METHOD: Waterra Footvalve

WATER QUALITY: [illegible]

Time	Volume Purged (gal)	~~Depth to~~ Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	~~Notes~~ Purged (gal)
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~					50'	0.5
1344	Pump turned on									
1403	START SAMPLE									
1413	SAMPLE COMPLETED				1	gal	IPEC			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	3
Reader }	
Turbidity meter	20070125 4

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-[illegible]-22 (010)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: [illegible]
SAMPLER(S): MB / A.A

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
856	11.853		ORP - 498							[illegible]
900	Pump ON									0.15
903	11.846	7.44	3.144	2.59	1.76	22.38	-13.3	1/4		0.25
913	11.855	7.28	3.214	2.28	1.26	22.49	-54.6			0.35
918	11.861	7.31	3.218	2.57	0.59	22.72	-139.6			0.45
923	[illegible]865	7.33	3.241	2.34	0.46	22.55	-171.2			0.55
928	11.861	7.30	3.256	2.13	0.37	21.74	-226.1			0.65
933	11.869	7.30	3.237	2.17	[illegible]	21.41	-149.[illegible]			0.75
938	11.872	7.29	3.281	2.11	0.40	21.85	-200			0.85
943	11.882	7.30	3.358	2.65	0.37	21.67	-180.6			0.95
948	11.882	7.29	3.318	2.23	0.34	22.41	-205.6			1.05
953	11.882	7.29	3.327	1.65	0.30	22.27	-219.8			1.15
958	11.882	7.29	3.344	2.00	0.47	22.46	-210.4			1.25
1003	11.902	7.28	3.359	1.29	0.38	22.68	-217.2			1.35
1008	11.902	7.27	3.370	2.27	0.29	22.74	-230.2			1.45
1013	11.903	7.27	3.380	1.29	0.31	22.73	-231.5			1.55
1014	Start	Sample								
1041	End	Sample		1	1-gal	IPEC				
				1	500	ml	Referee			

Equipment Used	Equipment Serial Number/ Identification Number
YSI 556	3
Turbidity meter	90070254

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet MW-37 32 (010)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: [illegible]
SAMPLER(S): [illegible]

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes [illegible]
859	21.425	[illegible]	DTW)							(42)
900	Pump on									
909	21.310	7.27	2.008	2.59	0.78	22.18	74.1	[illegible]		0.3
914	21.322	7.28	2.109	2.96	0.82	22.28	54.6			0.45
919	21.749	7.37	2.023	4.41	0.79	22.36	90.4			[illegible]
924	21.750	7.39	2.076	[illegible]	0.56	21.84	-77.4			[illegible]
929	21.771	7.39	2.045	.71	0.67	21.41	-74.4			[illegible]
934	21.772	7.39	[illegible]	1.73	[illegible]	[illegible]	-75.4			1.15
939	21.782	7.39	2.060	1.69	0.72	21.87	-77.3			1.30
944	21.765	7.41	2.060	1.48	0.66	21.67	-46.1			1.45
949	21.796	7.41	2.059	1.94	0.62	21.93	-23.3			1.60
954	21.788	7.42	2.060	1.54	0.60	22.11	-2.6			1.75
959	21.804	7.43	2.059	1.02	0.59	22.22	11.4			1.90
1004	21.806	7.43	2.060	0.74	0.58	22.31	21.4			2.05
1009	21.804	7.44	2.060	0.57	0.56	22.35	31.3			2.20
1014	21.812	7.44	2.061	0.55	0.53	22.33	48.3			2.35
1019	21.820	7.44	2.062	0.51	0.53	22.36	51.2			2.50
1024	21.802	7.44	2.063	0.49	0.52	22.38	54.9			2.65
1029	21.805	7.44	2.163	0.54	0.51	22.40	59.0			2.80
1034	21.806	7.44	2.064	0.53	0.51	22.42	63.0			3.0
1038	21.802	7.46	2.064		0.50	22.42	65.7			
1043	Start sample									
[illegible]	[illegible]	[illegible]	[illegible]	1.1	gal	IPEC				

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	2
Turbidity meter	3 [illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-37-40 (010)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Rain 50°F

PROJECT NO: 4.0161619.00
DATE: 2/1/08
SAMPLER(S): Miguel Britos

WATER QUALITY: 9.29 30.239 level surface

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes (Purged H_2O gal.)
1400	29.73		PUMP	ON						
1415	29.72	7.45	1.794	--	2.35	17.78	-135.9	0.4		0
1423	29.58	7.44	3.527	—	2.95	17.44	-205.7			0
1428	29.4[illegible]	7.43	3.5[illegible]	16.06	2.02	[illegible]	-21[illegible]			0
1434	29.384	7.42	3.[illegible]40	14.22	1.43	[illegible].15	-213			0
1440	29.[illegible]62	7.44	3.651	12.07	1.0	17.25	-205.4			0.0[illegible]
1447	29.798	7.44	3.668	16.21	0.95	17.34	-216.2			0.1
1456	29.78	7.43	3.670	19.36	0.34	17.23	-220.8			0.1
1503	29.72	7.41	3.672	20.54	0.39	[illegible]	-222.[illegible]			0.2
1510	29.70	7.41	3.675	28.[illegible]	0.[illegible]	17.1[illegible]	-225.[illegible]			0.25
1520	29.61	7.40	3.682	24.29	0.46	17.36	-234.5			0.35
1530	29.6[illegible]	7.40	3.685	30.[illegible]	0.88	17.5	-240.6			0.40
1533		START	SAMPLE							0.45
1720	29.63	SAMPLE	COMPLETED			- 1-gal IPEC				Total vol purged 0.55

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	2
Reader }	
Turbidity meter	2050[illegible]243

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-37-57(00)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

Rain 20°F

PROJECT NO: 41.016164 00
DATE: 21/08
SAMPLER(S): K B

WATER QUALITY: [ETW] 2.48 = 47.81 [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1400	47.81		PUMP ON							
1410	47.65									
1415	47.64	7.39	1.647		1.35	19.18	144			0
1420	47.63	7.48	1.656	37.72	1.17	19.40	162			0.1
1425	47.62	7.49	1.661	15.54	1.06	19.73	159			0.15
1434	47.63	7.53	1.657	3.41	.90	20.1	160			0.35
1440	47.64	7.55	1.656	0.0	0.35	20.73	158.1			0.55
1451	47.64	7.54	1.654	0.0	0.33	20.4	155.5			0.85
1500	47.64	7.58	1.666	0.0	[illegible]	20.4	154			0.95
1504	47.64	7.60	1.671	0.0	0.15	20.78	152			1.0
1517	47.64	7.62	1.677	0.0	0.16	20.40	[illegible]			1.2
1525	47.64	7.63	1.680	0.0	0.22	21.07	151.3			1.35
1528		START SAMPLE								
1631		SAMPLE COMPLETED : [illegible] gal [illegible]								

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible] #	3
[illegible]	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Waterloo Sampling
Data Sheet

MW-39-67 (003)

CLIENT	Entergy - IPEC	PROJECT NO:	[illegible]
SITE	Buchanan, NY Morning 17°F	DATE:	1/17/08
WEATHER	Cold 25°F	SAMPLER(S)	M B

SAMPLING INTERVAL (depth in ft below top of casing) 65.0 to 70.5

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 5.5

SAMPLING PORT 67

TOTAL VOLUME PURGED: ________ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1335	0							6/6	36
1340	0.25	7.45	2309	-	5.09	11.72	130.1	6/6	36
1347	0.35	7.21	2337	0.0	5.23	12.71	16.5	6/4.9	36
1352	0.40	7.18	2344	0.0	5.38	12.43	135.0	↓	
1355	0.45	7.13	2345	0.0	5.44	12.00	132.9	↓	
1356		PUMP OFF							
1357		START SAMPLE							
1435		SAMPLE COMPLETED				[illegible]			
						[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI / Reader } set #	3
Turbidity meter	200[illegible]3

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-39 (OBS)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cold 25°F

PROJECT NO:
DATE: 1/17/08
SAMPLER(S): MB

SAMPLING INTERVAL (depth in ft below top of casing)
365 to 380

SAMPLING PORT
3

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 15

TOTAL VOLUME PURGED:
20 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressur (psi)
1250		PUMP off							
1301		START SAMPLE							
1325		SAMPLE COMPLETE					1 gal	IPEC	

Equipment Used	Equipment Serial Number/ Identification Number
YSI Meter } set #	
Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-39-102 ([illegible])

CLIENT: Entergy - IPEC
SITE: Buchanan, NY [illegible]
WEATHER: Cold 25°F

PROJECT NO: [illegible]
DATE: 1/17/08
SAMPLER(S): MB

SAMPLING INTERVAL (depth in ft below top of casing) 93.0 to 103.0

SAMPLING PORT 02

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10.0

TOTAL VOLUME PURGED: 1.95 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	–	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1253		PUMP	OFF						
1254		START	SAMPLE						
1332		SAMPLE	COMPLETE	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/Identification Number
YSI } set #	
[illegible] }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

IPEC00109966

Waterloo Sampling
Data Sheet

MW-39-124 (003)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY   Morning [illegible]
WEATHER: Cold 25°F

PROJECT NO: [illegible]
DATE: 1/17/08
SAMPLER(S): MB

SAMPLING INTERVAL (depth in ft below top of casing) 115.0 to 126.5

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length [illegible]

SAMPLING PORT 24

TOTAL VOLUME PURGED: 2.45 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1440	0.75								
1448	0.90	7.04	1.340	38.28	3.41	12.32	-38.4	9/2	60
1454	1.0	6.90	2.331	38.50	2.90	12.93	-50.4	[illegible]	
1502	1.5	6.71	[illegible]	22.93	[illegible]	[illegible]			
1510	2.0	6.91	[illegible]	44.72	[illegible]	[illegible]			
1513	2.2	6.93	[illegible]	45.41	2.38	13.08	-45.5		
1514		PUMP	OFF						
1515		START	SAMPLE						
1542		SAMPLE	COMPLETED		1.1 gal [illegible]				

Equipment Used	Equipment Serial Number/ Identification Number
YSI } set #	4
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-39-183 ([illegible])

CLIENT: Entergy - IPEC
SITE: Buchanan, NY [illegible]
WEATHER: Cold 25°F [illegible]

PROJECT NO: [illegible]
DATE: 1/17/08
SAMPLER(S): M B

SAMPLING INTERVAL (depth in ft below top of casing) 1645 to 1860

SAMPLING PORT 183

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 16.5

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1045	[illegible]	PUMP	ON						
1125	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		PUMP	OFF						
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	gal IPEC			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	[illegible]
[illegible]	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-39-195 (003)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cold 25°F Morning 12°F

PROJECT NO.: [illegible]
DATE: 1/17/08
SAMPLER(S): M B

SAMPLING INTERVAL (depth in ft below top of casing)
1930 to 1986

SAMPLING PORT
195

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 5.4

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1541	0	PUMP ON							
1546	0.01	7.62	[illegible]	1.74	2.17	[illegible]	-24.4	[illegible]	[illegible]
1551	0.20	7.45	2.821	[illegible]	1.10	10.43	-196.5	[illegible]	[illegible]
1600	0.40	7.42	2.669	2.21	1.38	10.58	[illegible]	7.8	[illegible]
1605	0.55	7.33	2.64	2.86	1.34	11.61	-203.9	9.7	[illegible]
1608	0.75	7.34	2.638		1.32	11.53	-204.1	9.6	82
1609		PUMP OFF							
1610		START SAMPLING							
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI / Cinder } set #	2
Turbidity meter	200904295

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW-___-___

MW-4[illegible]-27(00[illegible])

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO. ~~41.0017566.10~~ 41 [illegible]
DATE [illegible]
SAMPLER(S) [illegible]

SAMPLING INTERVAL (depth in ft below top of casing)
[illegible] to [illegible]

SAMPLING PORT
27

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length [illegible]

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:

IPEC00109970

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW- ___ - ___

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO
DATE
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing) ____ to ____

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length ____

SAMPLING PORT ____

TOTAL VOLUME PURGED: ____ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW-___ -

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO:
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing) ____ to ____

SAMPLING PORT ____

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length ____

TOTAL VOLUME PURGED:
____ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW-___-___

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO:
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing) ____ to ____

SAMPLING PORT ____

GALLONS OF WATER PER WELL VOLUME:
Sampling interval Length ____

TOTAL VOLUME PURGED:
____ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW-___ - ___

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO
DATE
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing)
___ to ___

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length ___

SAMPLING PORT
___

TOTAL VOLUME PURGED:
___ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Waterloo Sampling
Data Sheet

WELL ID: MW-___-___

MW-40-62(ec-1)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO.:
DATE: 7/10/2
SAMPLER(S): M.B

SAMPLING INTERVAL (depth in ft below top of casing) ___ to ___

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length ___

SAMPLING PORT ___

TOTAL VOLUME PURGED: ___ gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

Low-Flow Sampling Data Sheet

MW-41-40 (010)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

2010 - 2S [illegible]

PROJECT NO: 4.0126.4 100
DATE: 1.24.08
SAMPLER(S): [illegible]

WATER QUALITY: DTW - 21.03

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1415		Start pump								
1423	21.23	7.16	2.039	3.34	4.56	10.61	400.2			0.25
1435	21.18	7.16	2.026	2.15	4.38	10.01	415.4			0.3
1443	21.17	7.06	2.065	1.62	4.58	7.71	402.			[illegible]
1448	21.17	7.2	2.05	1.54	4.78	[illegible]	399.9			0.4
1453	21.17	7.18	2.045	1.36	5.02	10.11	398.2			0.45
1458	21.19	7.26	2.045	1.68	5.55	10.15	378.			0.5
1504	21.18	7.29	2.342	1.95	5.41	[illegible]	377.5			0.6
1513	21.21	7.37	2.047	1.65	5.21	11.23	[illegible]			[illegible]
1515	21.20	7.37	2.345	1.54	5.78	11.53	375.9			0.85
1519	21.26	7.35	2.346	1.62	5.24	11.76	374.1			0.95
1520	Start sampling				[illegible]		[illegible]			
1625	[illegible]									

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
Turbidity meter [illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00109976

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW- -

MW-41-63 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/25/08
SAMPLER(S): [illegible]

WATER COLUMN HEIGHT (ft)

[illegible] - 24.96 = 38.04 ft
DTB DTW Well Column Height

Well Diameter: 1 inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 38.04 x 0.041 = 1.56 gallons
Multiplier Well Volume

DESIGNED PURGE VOLUME: [illegible] x 1.5 = [illegible] gallons
Designed Purge Volume

TOTAL VOLUME PURGED: [illegible] gal

PURGE METHOD: Waterra Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (^0C)	ORP	Pump Depth (ft)	Notes
0945	0	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
0955		[illegible]	[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]						
1000		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-42-49 (003)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Cold 17°F

PROJECT NO: 41.0161619.00
DATE: 1/21/08
SAMPLER(S): Miguel Britos

WATER QUALITY: 34.79 = 13.789 ne surface

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
34	34.79									
1430	13.340	7.29	0.001		12.20	11.05	584.0			
1445	13.18?	7.42	4.?60		[illegible]	[illegible]	490.4			0.25
1450	[illegible]	[illegible]	[illegible]	40.?	[illegible]	[illegible]	471.?			0.45
1455	13.1??	7.51	4.320	20.81	5.40	10.83	[illegible]			0.72
1504	13.186	7.52	[illegible]	[illegible]	5.45	11.04	405.4			[illegible]
1510	[illegible]	[illegible]	[illegible]	4.2?	[illegible]	[illegible]	405.2			[illegible]
1515	[illegible]	7.54	4.529	13.39	5.20	11.29	424.3			1.3
1520		START SAMPLE								
1611?		SAMPLE COMPLETE [illegible]				[illegible]	[illegible]			
							[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } set #	5
Reader }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW- -

MW-42-73 (007)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Cold 17° F

PROJECT NO: 41.0161619.00
DATE: 1/21/08
SAMPLER(S): Miguel Britos

WATER COLUMN HEIGHT (ft)

78.0 (DTB) - 33.4 (DTW) = 44.6 **Well Column Height** ft

Well Diameter: 1 inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 44.6 x 0.041 (**Multiplier**) = 1.82 (**Well Volume**) gallons

DESIGNED PURGE VOLUME: 1.82 x 1.5 = 2.74 gallons (**Designed Purge Volume**)

TOTAL VOLUME PURGED: 2.35 gal

PURGE METHOD: Waterra/ Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes
[illegible]	[illegible]	33.4	6.93	.380	—	4.40	13.06	78.4		
[illegible]	[illegible]		7.0[illegible]	.490	—	4.27	12.87	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	345	[illegible]	12.45	220.1		
[illegible]	[illegible]		[illegible]	[illegible]	870[illegible]	3.75	12.04	593.4		
[illegible]			7.20	[illegible]	950[illegible]	3.53	[illegible].61	[illegible]		
[illegible]			7.24	[illegible]	1000	3.40	[illegible]	[illegible]		
[illegible]	[illegible]		7.25	.633	[illegible]	[illegible]	[illegible].22	544.[illegible]		
[illegible]	[illegible]		START SAMPLE							
1533			SAMPLE COMPLETED				1 gal IPEC			

Equipment Used	Equipment Serial Number/ Identification Number
YSI / Reader } Set #	3
Turbidity meter	20070429[illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

IPEC00109979

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

[illegible] (009)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
[illegible] °F

PROJECT NO: [illegible]
DATE: 1/25/05
SAMPLER(S): [illegible]

WATER QUALITY: [illegible] 15.61 - 10.647 [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
850	10.647									
855	Pump on									
9[illegible]	10.298	6.69	[illegible]	288.1	2.71	10.32	333.2	[illegible]	[illegible]	0.25
906	10.164	6.70	4.259	[illegible]	1.51	9.1	334.1	[illegible]	[illegible]	0.30
912	10.117	6.73	4.237	2.17	1.37	7.38	337.0			0.35
918	10.051	6.75	4.216	11.59	1.42	7.56	337.0			0.45
925	9.983	6.77	4.194	1.76	1.28	7.51	340.2			0.55
933	9.922	6.81	4.158	[illegible]	1.31	7.58	342.3			0.60
935	9.87	6.89	4.141	0.69	1.22	7.47	344.2			0.65
939	9.807	6.93	4.141	0.61	1.2	8.22	346.9			0.7
945	9.757	6.98	4.144	0	1.59	9.04	339.4			0.75
950	9.688	7.03	4.155	0	2.49	9.27	328.9			0.85
952	[illegible]	7.81	[illegible]	0	2.36	7.87	[illegible]			0.9
958	Start Sample									1.0
1017	End Sample			1-1 gal [illegible]		PFC				
				1-500 ml		Ret. cont ap				

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0[illegible]
DATE: [illegible]
SAMPLER(S): [illegible]

[illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	6.73	[illegible]	[illegible]	4.46	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
930	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	16.17	6.97	[illegible]	0	[illegible]	[illegible]	[illegible]			1.30
944	[illegible]	[illegible]	[illegible]	0	1.69	[illegible]	[illegible]			1.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			1.6
[illegible]	[illegible]	[illegible]	[illegible]	0	1.31	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO:
DATE:
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW- -

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE:
SAMPLER(S):

WATER COLUMN HEIGHT (ft)

DTB - DTW = Well Column Height ft

Well Diameter: _____ inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height _____ x Multiplier = _____ gallons
Well Volume

DESIGNED PURGE VOLUME: _____ x 1.5 = _____ gallons
Designed Purge Volume

TOTAL VOLUME PURGED:
_____ gal

PURGE METHOD: Waterra/ Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW-

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE:
SAMPLER(S):

WATER COLUMN HEIGHT (ft)

DTB - DTW = Well Column Height ft

Well Diameter: inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height x Multiplier = gallons (Well Volume)

DESIGNED PURGE VOLUME: x 1.5 = gallons (Designed Purge Volume)

TOTAL VOLUME PURGED: gal

PURGE METHOD: Waterra/ Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO:
DATE:
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO:
DATE:
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS m)	Turbidity (NTU)	Dissolved Oxygen (g/L)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO:
DATE:
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW- [illegible]

MW-[illegible]

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
[illegible]

PROJECT NO: 41.0161619.00
DATE: [illegible]
SAMPLER(S): MB AA

WATER COLUMN HEIGHT (ft)

61.5 (DTB) - 23.57 (DTW) = [illegible] (Well Column Height) ft

Well Diameter: 1 inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height [illegible] x 0.041 (Multiplier) = [illegible] (Well Volume) gallons

DESIGNED PURGE VOLUME: [illegible] x 1.5 = [illegible] (Designed Purge Volume) gallons

TOTAL VOLUME PURGED:
[illegible] gal

PURGE METHOD: Waterra/ Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes
1110	0	Pump on								
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1126	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1130	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1134	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1139		Pump off								
1141		Start sample								
1155		Sample complete					[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	3
[illegible]	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet MW-46(O11)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
[illegible] 20°F

PROJECT NO: 41.0161619.00
DATE: 1/22/08
SAMPLER(S): [illegible]

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
0947	3.68									
1000	3.82	[illegible]	[illegible]		4.[illegible]	[illegible]	455.1			
1004	4.00	7.47	0.45[illegible]	1549	1.9	13.07	435.2			
1008	4.13	7.39	0.475	1722	6.91	[illegible]	415.8			
1020	4.09	7.5[illegible]	0.491	[illegible]	.07	[illegible]	29[illegible].1			[illegible]
[illegible]	4.[illegible]	[illegible]	[illegible]	[illegible]	1.0	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	7.51	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1040	4.[illegible]	7.81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1045	[illegible]	7.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	366.0			[illegible]
1050	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1055		START SAMPLE								
1219		SAMPLE COMPLETED				[illegible]				
						[illegible]				

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	2
[illegible]	
Turbidity meter	200[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-49-26 (011)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: [illegible]
SAMPLER(S): Miguel Britos [illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]		[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	3.960	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]			
[illegible]	[illegible]									

Equipment Used	Equipment Serial Number/ Identification Number
YSI (not #)	[illegible]
Reader	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00109990

Low-Flow Sampling Data Sheet

MW-49-42 (011)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/28/08
SAMPLER(S): Miguel Britos, [illegible]

WATER QUALITY: DTW: 12.22 = 14.280

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	14.23	[illegible]	[illegible]							
1327	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
1342	[illegible]	[illegible]	[illegible]	[illegible]	1.60	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	7.16	[illegible]	[illegible]	[illegible]	6.72	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]							

Equipment Used	Equipment Serial Number/ Identification Number
YSI (Lost #)	
Bladder	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet MW-49-65 (011)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: [illegible]
SAMPLER(S): Miguel Bretos / [illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	12.79		[illegible]							[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1445	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]								

Equipment Used	Equipment Serial Number/ Identification Number
YSI } set #	[illegible]
Reader }	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

Mw. 50-42 (012)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/15/08
SAMPLER(S): M.B., A.A.

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1010										
1015										
1020										
1025										
1030										
1035										
1050		STABIL								
1139										
1200										

Equipment Used	Equipment Serial Number/ Identification Number
YSI 4 set H	2
Peristaltic pump	
Turbidity meter	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

MW-50-42 (013)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

snow, ice, rain, 35°F

PROJECT NO: 41061619.00
DATE: 2/26/08
SAMPLER(S): M. Br[illegible]

DTW = 8.07 = 41.629 elevation

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes (Purged H2O gal)
1052	41.649	PUMP ON								
1103	41.663	7.77	1.91	—	2.05	17.73	312.6	1.5		0
1108	41.633	8.09	1.[illegible]35	—	1.11	18.22	300.4	↓		0.15
1116	41.633	8.17	1.091	1.17	0.70	18.54	290.3			0.30
1121	41.633	8.21	1.086	1.11	0.60	18.93	281.[illegible]			0.45
1129	41.633	8.26	1.083	1.10	0.50	19.30	269.4			0.75
1134	41.633	8.25	1.081	1.15	0.50	19.50	261.7			0.85
1139	41.633	8.27	1.083	0.99	0.50	19.56	253.4	↓		0.95
1140		START SAMPLE								
1219		SAMPLE COMPLETE 11.0 [illegible] gal IPEC								

Equipment Used	Equipment Serial Number/ Identification Number
YSI 556	2
Bladder pump	
[illegible]	2007012[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-50-66 (012)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/15/08
SAMPLER(S): M.B., A.A.

11.04 = 88063 [illegible]

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
10[illegible]	[illegible] DTW									
1010		PUMP ON								
1015	[illegible]	7.21	2.265		3.34	[illegible]	124			0
1020	26.29[illegible]	7.20	2.448		2.[illegible]	[illegible].56	135.5			0.05
1030	26.7[illegible]	7.[illegible]	2.347	0.59	2.01	20.[illegible]	125.9			0.25
[illegible]	26.[illegible]	7.[illegible]	2.[illegible]		[illegible]3	20.24	[illegible]3			0.30
1053	26.72	7.25	2.52[illegible]	0.5	[illegible]	20.44	[illegible]			0.50
[illegible]	[illegible]	7.26	[illegible]	0.5[illegible]	[illegible]	20.[illegible]	[illegible]			0.[illegible]
[illegible]	[illegible]	7.20	[illegible]	0.51	[illegible]5	20.55	117.2			0.6[illegible]
1100		STOP [illegible] SAMPLE								
		SAMPLE COMPLETED				1 - [illegible]				

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	5
Reader }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

MW-50-66 (015)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 2/26/08
SAMPLER(S): M. Brito

snow, ice, sun 35°F

WATER QUALITY: [illegible] = 230 elevation

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Purged H₂O Notes (gal)
1050	28.69		PUMP	ON						
1103	27.794	7.43	2.525	—	3.40	[illegible]	334.2			0
1109	27.524	7.42	2.524	—	3.31	17.88	324.0			0.01
1115	27.769	7.41	2.518	3.49	3.21	17.42	312.4			
1121	27.492	7.40	2.507	2.84	3.47	17.34	295.8			
1128	27.344	7.40	2.500	2.28	3.67	17.62	284.2			0.15
1133	27.483	7.39	2.514	3.44	3.52	17.86	272.9			0.18
1138	27.433	7.39	2.511	4.14	3.75	18.00	272.5			0.19
1142	27.543	7.39	2.517	2.23	3.63	17.98	269.8			0.20
1147	27.540	7.39	2.519	2.1	3.78	17.85	267.7			0.21
1151	27.773	7.38	2.5[illegible]		3.79	17.83	266.0			0.22
1152		START	SAMPLE							
1346		SAMPLE	COMPLETED	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	2
Grundfos [illegible]	
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Waterloo Sampling Data Sheet

MW-51-40 (OC5)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO: 41.0161619.00
DATE: 8/08
SAMPLER(S): MG

SAMPLING INTERVAL (depth in ft below top of casing)
23.7 to 33.2

SAMPLING PORT
40

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 16.5

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-51-19 (rock)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO: 41 0161619.00
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing)
_____ to _____

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length _____

SAMPLING PORT _____

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-51-104 (005)

CLIENT	Entergy - IPEC	PROJECT NO	41116184 [illegible]
SITE	Buchanan, NY	DATE	1/18/08
WEATHER		SAMPLER(S):	MS

SAMPLING INTERVAL (depth in ft below top of casing)
[illegible] to [illegible]

SAMPLING PORT
[illegible]

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length [illegible]

TOTAL VOLUME PURGED:
__________ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	0							[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]							
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]	[illegible]					

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	
[illegible]	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-51-135 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO.: [illegible]
DATE: [illegible]
SAMPLER S: MB

SAMPLING INTERVAL (depth in ft below top of casing): 30.2 to [illegible]

SAMPLING PORT: 135

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length: 15.5

TOTAL VOLUME PURGED: ________ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]							[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						[illegible]
[illegible]								[illegible]	[illegible]
[illegible]		[illegible]	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-51-63(005)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER

PROJECT NO. [illegible]
DATE [illegible]
SAMPLER(S) MG

SAMPLING INTERVAL (depth in ft below top of casing) [illegible] to [illegible]

SAMPLING PORT 163

GALLONS OF WATER PER WELL VOLUME:
Sampling interval Length [illegible]

TOTAL VOLUME PURGED: ______ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	0							[illegible]	46
[illegible]	0.05	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	0.10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	0.35	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						

Equipment Used	Equipment Serial Number Identification Number
[illegible]	
[illegible]	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-51-197(2005)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER

PROJECT NO
DATE
SAMPLER(S)

SAMPLING INTERVAL (depth in ft below top of casing)
to

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length

SAMPLING PORT

TOTAL VOLUME PURGED:
gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number

NOTES AND OBSERVATIONS:

Low-Flow Sampling Data Sheet MW-53-82 (006)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Cold 17°F

PROJECT NO: 4.0161619.00
DATE: 1/21/08
SAMPLER(S): Miguel Britos

WATER QUALITY: 59.34 [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1000	59.34									
1116	21.77	[illegible]	2.227	[illegible]	[illegible]	[illegible]	72.8	[illegible]		0.05
1118	21.63	7.33	2.339	216.1	[illegible]	13.49	[illegible]	[illegible]		[illegible]
1123	21.70	[illegible]	2.405	145.8	6.04	12.92	[illegible]			[illegible]
1128	21.91	7.60	[illegible]	174.2	6.96	12.47	[illegible]			[illegible]
[illegible]	[illegible]	7.62	[illegible]	[illegible]	7.01	[illegible]	11.9			[illegible]
[illegible]	[illegible]	7.64	2.424	[illegible]	7.19	13.9[illegible]	10[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	2.4[illegible]	[illegible]	[illegible]	[illegible]	104.[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.[illegible]	[illegible]	100.[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.20	[illegible]	98.[illegible]			[illegible]
1156	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	↓		[illegible]
1205	START SAMPLE									
1252	SAMPLE COMPLETED									
1252	SPLIT SAMPLE				1-1 gal IPEC					
					1-1 gal DEC					

Equipment Used | **Equipment Serial Number/ Identification Number**

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	3
Reader }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge
Sampling Data Sheet

WELL ID: MW- -

MW-53-120 (006)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Cold 17 °F

PROJECT NO: 41.0161619.00
DATE: 1-2-08
SAMPLER(S): MB

WATER COLUMN HEIGHT (ft)

120.0 (DTB) - 60.00 (DTW) = 60.0 ft (**Well Column Height**)

Well Diameter: 1 inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 60 x 0.041 (**Multiplier**) = 2.46 gallons (**Well Volume**)

DESIGNED PURGE VOLUME: 2.46 x 1.5 = 3.69 gallons (**Designed Purge Volume**)

TOTAL VOLUME PURGED: 3.75 gal

PURGE METHOD: Waterra/ Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes
0905	0	PUMP ON								
0910	0.5		7.07	2.933	3997	1.023	7.20	239.7		
0920	1.1		7.10	1.95	4059	1.5	8.40	134.5		
0925	[illegible]		7.11	1.500	4.184	9.2	9.36	219.8		
0930	[illegible]		7.2	1.422	461.0	8.0	10.74	203.1		
0934	2.1		7.3	1.511	689.7	6.9	11.45	184.2		
0937	[illegible]		7.15	1.547	859.6	5.01	12.9	157.4		
0943	[illegible]		7.2	1.590	1100	[illegible]	[illegible]	102.5		
0949	[illegible]		7.15	1.625	1100	3.41	13.53	96.2		
0952	3.5		7.16	1.626	1100	[illegible]	13.37	95.4		
0953		PUMP OFF								
1000		START SAMPLE								
1015		SAMPLE COMPLETE				[illegible]	[illegible]	[illegible]		
						[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI Set #	4
[illegible]	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

IPEC00110004

Waterloo Sampling
Data Sheet

MW-54-37 (004)

CLIENT Entergy IPEC
SITE Buchanan, NY
WEATHER [illegible]

PROJECT NO. [illegible]
DATE 1/15/08
SAMPLERS M.B., A.A

SAMPLING INTERVAL (depth in ft below top of casing) 29.0 to 42.0

SAMPLING PORT 37

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 13

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min) 6

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]						[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
				[illegible]	[illegible]	[illegible]			

Equipment Used	Equipment Serial Number Identification Number
YSI & Set #	4
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-54-58 (004)

CLIENT	Entergy IPEC	PROJECT NO.	[illegible]
SITE	Buchanan, NY	DATE	1/15/08
WEATHER		SAMPLERS	M.B, A A

SAMPLING INTERVAL (depth in ft below top of casing) 51.5 to 64.0

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 12.5

SAMPLING PORT 58

TOTAL VOLUME PURGED: ________ gal

PURGE RATE: variable gal/min. 5

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1138		[illegible]	[illegible]					[illegible]	[illegible]
[illegible]	[illegible]	6.58	.559		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	.576	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	7.04	[illegible]	0	[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
1206	[illegible]	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]		
1212	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	↓	↓
1314	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					

Equipment Used	Equipment Serial Number Identification Number
YSI & Set #	3
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

IPEC00110006

Waterloo Sampling
Data Sheet

MW-54-123 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO.:
DATE: 1/15/08
SAMPLER'S: M.B, A.A

SAMPLING INTERVAL (depth in ft below top of casing)
1165 to 1260

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10

SAMPLING PORT
123

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable gal/min

4

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader & Set #	
Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-54-144 (004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER

PROJECT NO.
DATE 1/15/08
SAMPLERS M B, A A

SAMPLING INTERVAL (depth in ft below top of casing) 135.0 to 155.5

SAMPLING PORT 144

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 20.5

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable gal/min.

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI 4 Set #	
Bladder Turbidity meter	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-54-173 (004)

CLIENT Energy - IPE
SITE Buffalo, NY
WEATHER

PROJECT NO.
DATE 1/15/08
SAMPLER S M D, A A

SAMPLING INTERVAL (depth in ft below top of casing)
170.5 to 182.0

GALLONS OF WATER PER WELL VOLUME:
Sampling interval Length 11.5

SAMPLING PORT
173

TOTAL VOLUME PURGED:
2.25 gal

PURGE RATE: variable gal/min. 2

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number Identification Number
YSI 4 Set #	
Reader	
Turbidity meter	

NOTES AND OBSERVATIONS:

MW-54-190 (004)

Waterloo Sampling
Data Sheet

CLIENT: Entergy - IPI
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT NO: [illegible]
DATE: 1/15/08
SAMPLER(S): M.B, A.A

SAMPLING INTERVAL (depth in ft below top of casing): 185.0 to 203.6

SAMPLING PORT: 190

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length: 18.4

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]						[illegible]	[illegible]
[illegible]	0.25	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	0.40	[illegible]	.765	0	[illegible]	[illegible]	[illegible]		
[illegible]	0.55	[illegible]	1.761		[illegible]	[illegible]	[illegible]		
[illegible]	0.70	[illegible]	1.765	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	6.31	.762		[illegible]	[illegible]	[illegible]		
[illegible]	0.95	6.49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	1.25	[illegible]	[illegible]	0	[illegible]	[illegible]	[illegible]		
[illegible]	1.40	6.64	1.766		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	1.766	0	[illegible]	[illegible]	[illegible]		
[illegible]	1.80	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	1.95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	1.768	0	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					

Equipment Used	Equipment Serial Number Identification Number
YSI & Set #	[illegible]
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Low-Flow Sampling Data Sheet MW-55-24 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: [illegible]
SAMPLER(S): [illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
1057	[illegible]	[illegible]	[illegible]							

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

[illegible]

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: [illegible]
SAMPLER(S): [illegible]

[illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	
[illegible]	[illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

[illegible]

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: [illegible]
SAMPLER(S): [illegible]

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]							

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00110013

GEI GeoEnvironmental of New York — WELL ID: MW-[illegible]

Low-Flow Sampling Data Sheet

MW-56-53 (0?4)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/31/08
SAMPLER(S): Miguel Bartos

sunny 25° F

WATER QUALITY: 47.40 23.218 ... [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1110	22.957		Purge	start						
1115	23.048	7.31	2.720	72.36	3.20	11.84	224.7	0.9		0.2
1121	23.048	7.32	2.869	81.90	2.82	12.14	232.6			0.3
1125	23.048	7.31	3.017	[illegible]	2.95	12.89	234.2			0.5
1132	23.045	7.32	3.1[illegible]	64.4	2.75	12.7[illegible]	[illegible]			0.7
1140	23.045	7.34	3.[illegible]	75.62	2.75	12.99	[illegible]			0.85
1145	23.043	7.35	3.235	45.02	2.63	13.07	278			1.0
1150	23.043	7.35	3.261	59.28	2.64	13.18	255			1.1
1153	23.044	7.35	3.271	57.41	2.66	13.1[illegible]	249	↓		1.2
1155		start sampling								
1230		SAMPLE COMPLETE	[illegible]			1 L [illegible] IPEC				
						1 L 60 ml		[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	2
[illegible]	
[illegible]	200[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York
Modified Traditional Purge Sampling Data Sheet

WELL ID: MW- MW-56-53(006)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
Sunny 25°F

PROJECT NO: 41.0161619.00
DATE: 1/3/08
SAMPLER(S): [illegible]

WATER COLUMN HEIGHT (ft)

83.0 - 47.22 = 35.78 ft

DTB - DTW = Well Column Height

Well Diameter: ______ inches

Diameter	Multipliers
1	0.041
2	0.163
4	0.653

GALLONS OF WATER PER WELL VOLUME:

Water Column Height 35.78 x 0.04 (Multiplier) = 1.46 gallons (Well Volume)

DESIGNED PURGE VOLUME: 1.46 x 1.5 = 2.20 gallons (Designed Purge Volume)

TOTAL VOLUME PURGED: 2.25 gal

PURGE METHOD: Waterra Footvalve

WATER QUALITY:

Time	Volume Purged (gal)	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Pump Depth (ft)	Notes
0900	0	START	PUMP							
0906	[illegible]		[illegible]	[illegible]		3.20	12.40	[illegible]		
0910	[illegible]		[illegible]	1.446	[illegible]	[illegible]	[illegible]	[illegible]		
0913	1.0		6.24	[illegible]	[illegible]	2.36	15.36	320		
0916	2.0		6.94	[illegible]	96.5	2.4	[illegible]	[illegible]		
0920		PUMP	OFF							
0921		START	SAMPLING							
0930		SAMPLE	COMPLETE	[illegible]	[illegible]	1 gal	[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	3
[illegible]	
Turbidity meter	2005 [illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York

Low-Flow Sampling Data Sheet

MW-58-26(005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: [illegible]
DATE: 1/22/08
SAMPLER(S): [illegible]

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	
Turbidity [illegible]	[illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

1-1 gal IPEC
1-500 ml relicensing

Low-Flow Sampling Data Sheet MW-58-65 (005)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/22/08
SAMPLER(S): [illegible]

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	7.26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]							
[illegible]	[illegible]		[illegible]	1 - 1	gal	IPEC				

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	[illegible]
[illegible]	[illegible]
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Depth to water measurements are taken from top of casing.

Waterloo Sampling
Data Sheet

MW-60-35 (004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER Cloudy 40°F

PROJECT NO. [illegible]
DATE 1/14/08
SAMPLERS M B.

SAMPLING INTERVAL (depth in ft below top of casing) 24.9 to 39.4

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 14.5

SAMPLING PORT 35

TOTAL VOLUME PURGED: 3.25 gal

PURGE RATE: variable (gal/min.)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			1-1 gal IPEC						

Equipment Used	Equipment Serial Number Identification Number
YSI / Reader / Set #	
Turbidity meter	20070 4293

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-60-53 (co4)

CLIENT Entergy - IPEC
SITE Buchanan NY
WEATHER Cloudy 40°F

PROJECT NO.
DATE 1/14/08
SAMPLER S. M B.

SAMPLING INTERVAL (depth in ft below top of casing) 45.4 to 59.4

SAMPLING PORT 53

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 14

TOTAL VOLUME PURGED:
130 gal

PURGE RATE: variable gal/min.

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
			1-1gal IPEC						

Equipment Used	Equipment Serial Number / Identification Number
YSI	
Heater + set #	
Turbidity meter	20070 4293

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-60-72 (004)

CLIENT: Entergy IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 40° F

PROJECT NO.: [illegible]
DATE: 1/14/08
SAMPLER S: M B.

SAMPLING INTERVAL (depth in ft below top of casing) 66.4 to 78.9

SAMPLING PORT 72

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 12.5

TOTAL VOLUME PURGED: 3.50 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]							
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]						
[illegible]			[illegible]	1.	1gal. IPEC				

Equipment Used	Equipment Serial Number Identification Number
YSI } Set #	[illegible]
Reader	
Turbidity meter	20070C4293

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-60-135 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Cloudy 40°F

PROJECT NO.:
DATE: 1/14/08
SAMPLER'S: M B.

SAMPLING INTERVAL (depth in ft below top of casing): 124.9 to 141.4

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 16.5

SAMPLING PORT: 135

TOTAL VOLUME PURGED: 2.40 gal

PURGE RATE: variable gal/min. 3

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1419	Stop			1-1gal IPEC					

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader + Set #	1
Turbidity meter	20070 4293

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-60-154(004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER Cloudy 40°F

PROJECT NO.
DATE 1/14/08
SAMPLERS M B.

SAMPLING INTERVAL (depth in ft below top of casing)
147.4 to 164.9

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 17.5

SAMPLING PORT
154

TOTAL VOLUME PURGED:
3.15 gal

PURGE RATE: variable gal/min 2

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
					1.1 gal IPEC				

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader } set #	
Turbidity meter	20070293

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-60-176 (004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER Cloudy 40° F

PROJECT NO.
DATE 1/14/08
SAMPLERS M B.

SAMPLING INTERVAL (depth in ft below top of casing)
1709 to 2004

SAMPLING PORT
176

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length _____

TOTAL VOLUME PURGED:
095 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
1550	0	Pump on							
					1 - 1 gal IPEC				

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader } Set #	2
Turbidity meter	20070493

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

WELL ID: MW- -
MW-62-18(004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/10/08
SAMPLER(S): M B.

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1020	4.96									
[illegible]	5.01	7.49	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	5.22	7.56	[illegible]		[illegible]	[illegible]	-110.7	[illegible]		[illegible]
[illegible]	5.45	7.30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	5.45	7.64	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	5.45	7.69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	5.60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	V		[illegible]
1232		START [illegible]								
1545		STOP PUMP.								
		Not enough water to collect sample with DEC + IPEC								
1615		Sample only 1-500 ml for [illegible]								

Equipment Used	Equipment Serial Number/ Identification Number
YSI [illegible]	
[illegible]	
Turbidity meter	200704[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet MW-62-18 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

[illegible]

PROJECT NO: 2.0161619.00
DATE: [illegible]
SAMPLER(S): Miguel Britos

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1400	1250		[illegible]							
1407	1250	6.70	1863		6.57	10.52	759			0
1410	1250	6.94	[illegible]	[illegible]	6.01	11.0	25			0.1
1415	1250	7.0[illegible]	1821	[illegible]	.72	11.61	78			0.25
1420	1250	7.17	[illegible]	[illegible]	1.22	12.03	40.4			0.50
1425	[illegible]	7.2[illegible]	[illegible]	0.50	[illegible]	[illegible]	[illegible]			[illegible]
1430	[illegible]	7.29	1.66[illegible]	5.30	1.00	[illegible]	[illegible]			1.0
1435	[illegible]	7.36	[illegible]	0.20	[illegible]	[illegible]	[illegible]			[illegible]
1440	[illegible]	7.43	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1445		[illegible]	[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	4
Reader }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

All depth to water measurements are taken from top of casing.

GZA GeoEnvironmental of New York

WELL ID: MW- -

Low-Flow Sampling Data Sheet

MW-62-37 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/10/08
SAMPLER(S): M B.

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible]									
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	1		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	↓		[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]					
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
							[illegible]	[illegible]	[illegible]	

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set	
Reader }	
Turbidity meter	20070423[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Waterloo Sampling
Data Sheet

MW-62-53 (008)

CLIENT
SITE
WEATHER

PROJECT N
DATE 7/10/08
SAMPLERS MB

SAMPLING INTERVAL (depth in ft below top of casing)
49.6 to 54.1

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 4.5

SAMPLING PORT
53

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: sample (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI Pro Plus	
Turbidity meter	20070429 3

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW - 62 - 71 (004)

CLIENT Entergy IPE
SITE Buchanan NY
WEATHER [illegible]

PROJECT No. [illegible]
DATE [illegible]/10/08
SAMPLERS M G

SAMPLING INTERVAL (depth in ft below top of casing)
61.1 to 82.6

SAMPLING PORT
71

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal/min)

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 21.5

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		25
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				
[illegible]		SAMPLE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number Identification Number
YSI } Set	[illegible]
Reader }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-62-92 (004)

CLIENT: Entergy IPEC
SITE: Buchanan, NY
WEATHER: [illegible]

PROJECT No.: [illegible]
DATE: 1/10/08
SAMPLERS: M B

SAMPLING INTERVAL (depth in ft below top of casing) 28.6 to 39.1

SAMPLING PORT 92

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10.5

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
0855	0								
0900	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	✓	✓
[illegible]		[illegible]							
[illegible]		[illegible]	[illegible]	[illegible]					
1109		[illegible]	[illegible]			[illegible]	[illegible]		
1109		[illegible]	[illegible]			[illegible]	[illegible]		

Equipment Used	Equipment Serial Number / Identification Number
YSI } Set	
Reader }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW - 62 - 138 (004)

CLIENT [illegible]
SITE [illegible]
WEATHER [illegible]

PROJECT No. [illegible]
DATE [illegible]/10/08
SAMPLERS M B.

SAMPLING INTERVAL (depth in ft below top of casing)
126.1 to 143.6

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 17.5

SAMPLING PORT
138

TOTAL VOLUME PURGED:
2.25 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
0855	0								
[illegible]	0.15	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]		[illegible]					
1255		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		PUMP	OFF			[illegible]	[illegible]		

Equipment Used	Equipment Serial Number Identification Number
YSI } Set	[illegible]
Reader }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

IPEC00110030

Waterloo Sampling Data Sheet

MW-62-182 (004)

CLIENT [illegible]
SITE [illegible]
WEATHER [illegible]

PROJECT No. [illegible]
DATE 1/10/08
SAMPLER(S) M 6

SAMPLING INTERVAL (depth in ft below top of casing)
177.6 to 198.7

SAMPLING PORT
182

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 20.9

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]								
[illegible]	[illegible]	7.69	[illegible]	–	0.75	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0.55	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	1.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				
11:15		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		PUMP	OFF			[illegible]	[illegible]		

Equipment Used	Equipment Serial Number Identification Number
YSI + Set	
Reader + Set	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

IPEC00110031

Low-Flow Sampling Data Sheet

MW. 63-18 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE:
SAMPLER(S): Miguel Britos

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
[illegible]	[illegible] 45									
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40	1.5		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible] 45	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
1300	[illegible] 40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible] 37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]	[illegible]						
1455		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1503						[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Equipment Used	Equipment Serial Number/ Identification Number
YSI (set #	[illegible]
[illegible]	
[illegible]	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00110032

Low-Flow Sampling Data Sheet MW-63-34 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE:
SAMPLER(S): Miguel Britos

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
	10.53									
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]		[illegible]	[illegible]	[illegible]						[illegible]
[illegible]		SAMPLE [illegible]				[illegible]	[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI (set #	6
Cooler	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Waterloo Sampling
Data Sheet

MW-63-50(204)

CLIENT: Energy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO:
DATE: 9/10/19
SAMPLER(S): MB

SAMPLING INTERVAL (depth in ft below top of casing)
215 to 220

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 5

SAMPLING PORT
50

TOTAL VOLUME PURGED:
[illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-63-93 (004)

CLIENT: Entergy - Pilg
SITE: Buchanan, NY
WEATHER:

PROJECT #:
DATE: 8-15-8
SAMPLER S: M.B.

SAMPLING INTERVAL (depth in ft below top of casing)
85 to 100.5

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length: 15.0

SAMPLING PORT
03

TOTAL VOLUME PURGED:
25 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
		SAMPLE COMPLETED							

Equipment Used	Equipment Serial Number / Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-63-112 (004)

CLIENT Entergy - IEEI
SITE Buchanan, NY
WEATHER

PROJECT No. [illegible]
DATE 1/9/08
SAMPLER(S) M B

SAMPLING INTERVAL (depth in ft below top of casing) 126.5 to 112.0

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 5.5

SAMPLING PORT 112

TOTAL VOLUME PURGED: 2.25 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]							[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]						
[illegible]		[illegible]							
[illegible]			[illegible]						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number Identification Number
YSI [illegible]	
[illegible]	

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-63-121 (004)

CLIENT	Entergy - IPEC	PROJECT NO.	41016619??
SITE	Buchanan, NY	DATE	[illegible] 07
WEATHER		SAMPLER S	MB

SAMPLING INTERVAL (depth in ft below top of casing) 118.5 to 127.5

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 9.5

SAMPLING PORT 121

TOTAL VOLUME PURGED: 1.65 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]							[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		
	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]			
	[illegible]				[illegible]				
							[illegible]		
		[illegible]							
					[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI	
Hach [illegible]	
Turbidity meter	

NOTES AND OBSERVATIONS:

IPEC00110037

Waterloo Sampling
Data Sheet

MW-63-163.004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO: 4
DATE: 1/9/08
SAMPLER S: MB

SAMPLING INTERVAL (depth in ft below top of casing)
_____ to _____

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length: _____

SAMPLING PORT
_____

TOTAL VOLUME PURGED:
1.45 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO:
DATE:
SAMPLER(S):

SAMPLING INTERVAL (depth in ft below top of casing)
_____ to _____

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length _____

SAMPLING PORT
_____

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable (gal/ min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:

GZA GeoEnvironmental of New York

WELL ID: MW- Mw-66-21 (003)

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/16/08
SAMPLER(S): M B. / A. A.

WATER QUALITY

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal hr)	Pump Depth (ft)	Notes
847	8.455									11.96' DTW
856	Pump on		Begin	[illegible]						
902	8.37[illegible]	6.96	1.175	3.77	10.78	9.49	-56.6			
907	8.360	6.95	1.781	3.0[illegible]	5.51	10.24	-62.0			
913	8.339	7.00	1.804	4.6[illegible]	3.52	10.97	-91.3			
919	8.242	7.07	1.819	3.35	2.56	11.53	-[illegible]6.6			
924	8.258	7.12	1.822	4.24	2.44	12.05	-107.5			
929	8.268	7.15	1.832	3.52	1.75	12.07	-123.4			
934	8.215	7.17	1.835	4.53	1.49	12.16	-134.2			
939	8.217	7.18	1.[illegible]	3.23	1.35	12.15	-134.7	1 gal		
944	8.183	7.18	1.855	3.38	1.13	12.05	-149.3			
949	8.158	7.19	1.862	3.14	1.00	11.91	-151.3			
954	8.107	7.19	1.862	2.57	0.94	11.97	-151.5			
1000	8.126	7.[illegible]	1.869	2.15	[illegible]	12.22	-149.5			
1005	8.098	7.21	1.876	2.71	0.95	12.22	-149.5			
1012			Start Sampling					1 gal		
1122	Stop	Sampling								

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	4
Reader }	4
Turbidity meter	20070[illegible]293

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

* 1 Liter water [illegible] the Line

2

GZA GeoEnvironmental of New York
Low-Flow Sampling Data Sheet

WELL ID: MW- - MW-66-36(003)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/14/08
SAMPLER(S): M B. / A A.

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
852	14.61[illegible]									[illegible]
856	Pump on [illegible]									
902	14.542	6.86	2.879	12.23	5.18	8.50	29.5			
907	14.542	6.92	3.199	13.76	2.57	11.86	-24.6			
913	14.542	7.14	3.523	1.53	1.54	11.15	-66.7			
919	14.542	7.21	3.902	2.89	1.07	11.36	-85.3			
924	14.542	7.24	3.965	1.57	1.44	11.19	-95.3			
929	14.542	7.2	3.949	2.66	1.02	11.04	-100.4			
934	14.542	7.27	3.980	2.36	0.86	11.03	-103.6			
939	14.542	7.28	3.962	1.90	0.77	10.95	-104.9			
944	14.542	7.28	3.979	1.46	0.74	10.73	-106.3	1 [illegible]		
949	14.367	7.28	4.00[illegible]	1.59	0.72	10.54	-107.3			
954	14.369	7.28	3.998	1.99	0.72	10.53	-108.1			
1003	14.3[illegible]	7.2[illegible]	4.03[illegible]	2.55	~~0.85~~	10.74	-109.9			
1008	14.385	7.29	4.035	1.72	[illegible]	10.65	[illegible]			
1012	stop pumping									

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	5
Reader }	5
Turbidity meter	20070[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Waterloo Sampling Data Sheet

MW-67-39 (004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER

PROJECT No.
DATE 1/11/08
SAMPLERS M B

SAMPLING INTERVAL (depth in ft below top of casing) 28.8 to 54.3

SAMPLING PORT 39

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 25.5

TOTAL VOLUME PURGED: ______ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
						[illegible]	[illegible]		

Equipment Used	Equipment Serial Number Identification Number
YSI } Set #	
Cheeder }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

IPEC00110042

Waterloo Sampling
Data Sheet

MW-67-39 (5 of 5)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 45°F

PROJECT NO: 41.0161619.00
DATE: 2/25/08
SAMPLER(S): M. Britos

SAMPLING INTERVAL (depth in ft below top of casing) 28.3 to 51.3

SAMPLING PORT 39

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 25.5

TOTAL VOLUME PURGED: 1.75 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1445	0	Pump	on						
1452	0.25	7.06	4.570	3.27	3.01	15.80	-304.4	5/4	22
1500	0.45	7.29	4.438	2.91	0.74	15.9	[illegible]	5/10	[illegible]
1506	1.0	7.33	4.407	2.44	0.39	15.76	-372.4	[illegible]	[illegible]
1510	1.15	7.33	4.409	1.47	0.49	15.85	-339.2	[illegible]	[illegible]
1513	1.30	7.35	4.411	1.42	0.46	16.03	-366.1	5/15	22
1517	1.55	7.34	4.409	1.46	0.45	16.12	-369.2	5/15	[illegible]
1518		Pump	off						
1521		Pump	on						
[illegible]		[illegible]	[illegible]	[illegible]					
[illegible]		[illegible]	[illegible]	[illegible]		[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	4
Reader }	
Turbidity meter	20070384

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-67-105 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT #:
DATE: 1/11/08
SAMPLERS: M B

SAMPLING INTERVAL (depth in ft below top of casing): 90.3 to 110.8

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length: 20.5

SAMPLING PORT: 105

TOTAL VOLUME PURGED: _____ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI 6 Cat #	
Reader	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-67-105 ([illegible])

5

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 43°F

PROJECT NO: 41.0161619.00
DATE: 2/25/08
SAMPLER(S): M. Britton

SAMPLING INTERVAL (depth in ft below top of casing) 90.3 to 110.8

SAMPLING PORT 105

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 20.5

TOTAL VOLUME PURGED: 2.25 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1251	0	Pump on							
1255	0.2	6.83	1.539	2.23	1.26	15.41	-215.0	5 [illegible]	40
1259	0.45	7.20	1.535	2.53	0.58	15.73	-154.7	[illegible]	40
1302	0.75	7.21	1.533	2.20	0.57	15.70	-175.6	[illegible]	40
1310	1.1	7.31	1.537	1.73	0.24	15.76	-202.3	[illegible]	40
1315	1.5	7.31	1.536	1.69	0.22	15.64	-201.9	[illegible]	40
1321	2.0	7.33	1.531	[illegible]	0.24	15.41	-198.1	[illegible]	40
1322		Pump off							
1325		Pump on							
[illegible]		Start sample							
[illegible]		[illegible]							

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	3
Reader }	
Turbidity meter	20070[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-67-173 (004)

CLIENT Entergy - IPEC
SITE Buchanan, NY
WEATHER

PROJECT NO.
DATE 1/11/08
SAMPLERS M B

SAMPLING INTERVAL (depth in ft below top of casing)
164.8 to 68.3

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 32.5

SAMPLING PORT
173

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable gal/min

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI } set #	
Reader }	
Turbidity meter	20070429 3

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-67-173 (00[illegible]) 5

CLIENT:	Entergy - IPEC	PROJECT NO:	41.0161619.00
SITE:	Buchanan, NY	DATE:	2/25/08
WEATHER:	Sunny 45°F	SAMPLER(S):	M Britos

SAMPLING INTERVAL (depth in ft below top of casing) 164.5 to 188.0

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 23.5

SAMPLING PORT 173

TOTAL VOLUME PURGED: 3.25 gal

PURGE RATE: variable (gal / min) **PURGE METHOD:** Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1245	0	PUMP	ON						
1246	0.2	[illegible]	1385		2.09	15.40	322.4	5/8	45
1251	0.75	6.52	1405	2.70	1.26	15.91	-312.7	[illegible]	45
1257	1.0	6.54	1415	2.23	0.90	16.05	355.2	[illegible]	[illegible]
1304	1.36	6.59	1420	2.45	0.78	15.97	-357.1	5/8	[illegible]
1310	1.80	6.74	1421	2.51	0.65	15.96	-361.4	[illegible]	[illegible]
1315	2.10	6.56	1421	2.72	0.65	15.79	-342.5	[illegible]	[illegible]
[illegible]	2.50	6.57	1409	[illegible]	0.64	[illegible]	[illegible]	[illegible]	[illegible]
1330	2.85	6.57	1407	2.61	0.61	16.01	-362.7	[illegible]	[illegible]
1334	3.0	6.32	1401	2.57	0.51	16.01	-354.0	[illegible]	[illegible]
1335		Pump	off						
1337		Pump	on						
1341		[illegible]	Sample						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]				

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	2
Reader }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-67-219 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT #:
DATE: 1/11/08
SAMPLERS: M B

SAMPLING INTERVAL (depth in ft below top of casing): 209 to 229.9

SAMPLING PORT: 219

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 20.5

TOTAL VOLUME PURGED: _____ gal

PURGE RATE: variable gal/min.

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI Reader + Cal #	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-67-219 (00[illegible])

CLIENT:	Entergy - IPEC	PROJECT NO:	41.0161619.00
SITE:	Buchanan, NY	DATE:	2/25/08
WEATHER:	Sunny 45°F	SAMPLER(S):	M Briton

SAMPLING INTERVAL (depth in ft below top of casing) 209 to 229.5

GALLONS OF WATER PER WELL VOLUME: Sampling Interval Length 20.5

SAMPLING PORT 219

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1002	0	[illegible]	[illegible]					[illegible]	[illegible]
1009	0.35	7.02	0.46[illegible]		.05	[illegible]	150.0	[illegible]	[illegible]
1023	1.0	7.15	0.4[illegible]	21	0.52	14.02	3[illegible]		
1032	1.5	[illegible]	0.43[illegible]	2.4[illegible]	0.42	14.04	[illegible]		
1041	2.0	7.2[illegible]	0.44[illegible]	0.80	0.27	14.04	[illegible]		
1053	2.[illegible]	7.14	0.444	0.[illegible]	0.33	14.5	[illegible]		
1102	3.[illegible]	7.14	0.44[illegible]	0.74	0.37	14.1[illegible]	[illegible]		
1103	PUMP OFF								
[illegible]	PUMP ON								
1120	[illegible]								
1143	SAMPLE COMPLETE [illegible]								

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	[illegible]
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

IPEC00110049

Waterloo Sampling Data Sheet

MW-67-276 (004)

CLIENT: Entergy IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT No.: [illegible]
DATE: 1/11/08
SAMPLERS: M B

SAMPLING INTERVAL (depth in ft below top of casing): 250.8 to 281.3

SAMPLING PORT: 276

GALLONS OF WATER PER WELL VOLUME.
Sampling Interval Length: 30.5

TOTAL VOLUME PURGED: ______ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	[illegible]	[illegible]	[illegible]						
[illegible]		[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]									

Equipment Used	Equipment Serial Number / Identification Number
YSI } 1 set #	
Reader }	
Turbidity meter	200704293

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

5

MW-67-276 (004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 45°F

PROJECT NO. 41 0161619.00
DATE: 2/25/08
SAMPLER(S): M Brites

SAMPLING INTERVAL (depth in ft below top of casing) 250.8 to 281.3

SAMPLING PORT 276

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 30.5

TOTAL VOLUME PURGED: 1.25 gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1002	0	[illegible]	[illegible]					5 / 5	64
1008	0.2	6.57	0.250		2.70	12.52	[illegible]	[illegible]	[illegible]
1023	1.0	6.79	0.955	1.41	1.73	12.37	365.[illegible]		
1031	[illegible]	6.54	0.936	1.15	.57	12.1[illegible]	[illegible]		
1041	1.5	6.86	0.932	0.69	0.58	13.56	271.[illegible]		
1052	2.1	6.84	[illegible]	1.61	0.[illegible]	[illegible]	3[illegible]		
1102	2.3	6.86	0.934	0.52	0.68	13.7[illegible]	3[illegible]		
1110	2.3	6.87	0.49[illegible]	0.54	0.6	13.9[illegible]	-36[illegible]	↓	↓
11[illegible]	PURGE OFF								
1124	PUMP OFF								
11[illegible]	START SAMPLE								
1148	SAMPLE [illegible]								

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	5
Reader	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling Data Sheet

MW-67-323 (004)

CLIENT Entergy IPEC
SITE Buchanan, NY
WEATHER

PROJECT #
DATE 1/11/08
SAMPLERS M B

SAMPLING INTERVAL (depth in ft below top of casing)
317.8 to 328.3

SAMPLING PORT
323

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10.5

TOTAL VOLUME PURGED:
_____ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)

Equipment Used	Equipment Serial Number / Identification Number
YSI 6 Set #	
Probe	
Turbidity meter	20070493

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MJ-67-323 (00~~4~~5)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER: Sunny 43°F

PROJECT NO. 41.0161619.00
DATE: 2/25/08
SAMPLER(S): M. Britton

SAMPLING INTERVAL (depth in ft below top of casing) [illegible] to [illegible]

SAMPLING PORT 323

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 10.5

TOTAL VOLUME PURGED: [illegible] gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1002	0	PUMP	ON					[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1022	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	↓	↓
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
1040	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		PUMP	OFF						
1130		PUMP	ON						
[illegible]		START	SAMPLE						
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	[illegible]
Probes }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:

IPEC00110053

Waterloo Sampling Data Sheet

MW-67-340(004)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER:

PROJECT NO: [illegible]
DATE: 1/11/08
SAMPLERS: M B

SAMPLING INTERVAL (depth in ft below top of casing) 335.3 to 347.9

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 12.6

SAMPLING PORT 340

TOTAL VOLUME PURGED: ______ gal

PURGE RATE: variable (gal/min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive Vent Cycle (seconds)	Drive Pressure (psi)
[illegible]	0	[illegible]	[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]			[illegible]	[illegible]	[illegible]			
	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]
						[illegible]			
[illegible]				[illegible]			[illegible]		
[illegible]	[illegible]			[illegible]			[illegible]		
		[illegible]							
		[illegible]							
					[illegible]				

Equipment Used	Equipment Serial Number Identification Number
YSI [illegible] #	
Reader	
Turbidity meter	2007042[illegible]

NOTES AND OBSERVATIONS:

Waterloo Sampling
Data Sheet

MW-67-340 (0.4[illegible]) 5

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
WEATHER Sunny 45°F

PROJECT NO: 41 0161619.00
DATE: 2/25/08
SAMPLER(S): M Brito[illegible]

SAMPLING INTERVAL (depth in ft below top of casing) 335.2 to 347.9

SAMPLING PORT 340

GALLONS OF WATER PER WELL VOLUME:
Sampling Interval Length 12.[illegible]

TOTAL VOLUME PURGED: 2.0 gal

PURGE RATE: variable (gal / min)

PURGE METHOD: Double Valve Pump

WATER QUALITY:

Time	Purged Volume (gal)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Temp (°C)	ORP	Drive/Vent Cycle (seconds)	Drive Pressure (psi)
1002	0	PUMP	ON					5 5	64
1007	[illegible]	6.75	0.274		2.35	10.16	-102	[illegible]	[illegible]
1022	0.6	7.47	0.[illegible]	2.16	2.51	7.40	33[illegible]	↓	↓
[illegible]	1.8	7.28	[illegible]	1.02	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	7.34	[illegible]	1.40	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	7.35	0.151	.25	[illegible]	13.[illegible]	[illegible]		
[illegible]	[illegible]	7.3[illegible]	0.124	1.3[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]		PUMP	OFF						
[illegible]		PUMP	ON						
[illegible]		START	SAMPLE						
1200		SAMPLE	COMPLETE	[illegible]	[illegible]	[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	2
Reader }	
Turbidity meter	20078 [illegible]

NOTES AND OBSERVATIONS:

Low-Flow Sampling Data Sheet MW 111 (026)

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
[illegible] 28'5

PROJECT NO: 41.0161619.00
DATE: 1/28/08
SAMPLER(S): M.B.

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
0930	8.76	PUMP	ON							
0940	9.05	5.40	0.637	4.35	10.01	[illegible]	71.6			0
0948	9.07	6.97	0.677	3.26	5.71	[illegible]	[illegible]			[illegible]
[illegible]	9.2	6.81	0.682	1.49	[illegible]	8.51	42.3			0.5
1003	9.13	6.97	0.634	[illegible]	2.01	5.3	45.1			0.75
1009	9.2	6.81	0.641	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	9.11	[illegible]	0.65	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	9.11	[illegible]	0.697	[illegible]	43	[illegible]	42			1.0
1020	[illegible]	[illegible]	0.700	0.97	2.5	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	0.700	[illegible]	[illegible]	[illegible]	[illegible]			1.5
[illegible]	9.04	6.92	0.701	[illegible]	[illegible]	[illegible]	54.0			2
1028		START	SAMPLE							
[illegible]		SAMPLE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
						[illegible]	[illegible]			

Equipment Used	Equipment Serial Number/ Identification Number
[illegible]	5
[illegible]	
[illegible]	[illegible]
[illegible]	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

[illegible]-CSS

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
cloudy, 35°F

PROJECT NO: 41.0161619.00
DATE: 1/15/08
SAMPLER(S): M.B., A.A.

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1245	3.55	PUMP ON								
1250	4.15	[illegible]	[illegible]		4.50	18.13	[illegible]			
1255	4.30	7.0[illegible]	2.320	7.34	3.60	18.76	22.5			
1300	4.12	7.10	2.347	7.93	5.17	18.75	24.9			0.3
1305	4.04	7.14	2.359	8.74	3.21	18.76	24.7			
1315	3.97	7.2[illegible]	2.283	[illegible]	3.26	18.[illegible]	22.0			0.2
1323	3.8[illegible]	[illegible]	2.3[illegible]	4.1[illegible]	[illegible]	[illegible]	52.8			0.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	65.[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]							
1050		[illegible]	[illegible]	[illegible]						

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	3
Reader }	
Turbidity meter	[illegible]

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY
[illegible]

PROJECT NO: 2.0161619.00
DATE: [illegible]
SAMPLER(S): Miguel Britos

WATER QUALITY: [illegible]

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
0925		[illegible]	[illegible]							
0930	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			0
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		

Equipment Used	Equipment Serial Number/ Identification Number
YSI } Set #	
Reader }	
Turbidity meter	

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

IPEC00110058

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.016161900
DATE: 1/22/08
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
				1 - 1 gal J PEC						
				1 - 500 ml Relinquishing						
				2 - 1 gal weighted bottles						

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC
SITE: Buchanan, NY

PROJECT NO: 41.0161619.00
DATE: 1/22/08
SAMPLER(S):

WATER QUALITY:

Time	Depth to Water (ft)	pH (SU)	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Pump Depth (ft)	Notes
1415	2.48									
1455	2.48									
1500	2.33									
1505	2.302									
1510	2.375									
1513	2.378									
1516	2.372									
1519	2.373									
1521	2.378									
1526	2.378									
1526	2.378									
1529										
1542										

Equipment Used	Equipment Serial Number/ Identification Number

NOTES AND OBSERVATIONS:
All depth to water measurements are taken from top of casing.

APPENDIX E: DOSE CALCULATIONS

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Parameter Values:

Totals					
Total Catchment Zone (ft^2)		**Total Improved Zone (ft^2)**	**Recharge (ft/yr)**	**Precipitation (ft/yr)**	
3,969,765		1,355,080	0.87	3.02	
Surface Area					
Northern Clean Zone Improved (ft^2)	**Unit 2 North Improved Zone (ft^2)**	**Unit 1/2 Improved Zone (ft^2)**	**Unit 3 North Improved Zone (ft^2)**	**Unit 3 South Improved Zone (ft^2)**	**Southern Clean Improved Zone (ft^2)**
0	136,704	374,234	309,497	321,290	213,354
Northern Clean Unimproved Zone (ft^2)	**Unit 2 North Unimproved Zone (ft^2)**	**Unit 1/2 Unimproved Zone (ft^2)**	**Unit 3 North Unimproved Zone (ft^2)**	**Unit 3 South Unimproved Zone (ft^2)**	**Southern Clean Zone Unimproved (ft^2)**
111,863	217,667	438,221	323,116	268,862	585,600
Discounted Area Within Zone	**Discounted Area Within Zone**	**Discounted Area Within Zone**	**Discounted Area Within Zone**	**Discounted Area Within Zone**	**Discounted Area Within Zone**
44,831	0	324,509	137,938	17,730	144,347
Northern Clean Zone Catchment (ft^2)	**Unit 2 North Catchment Zone (ft^2)**	**Unit 1/2 Catchment Zone (ft^2)**	**Unit 3 North Catchment Zone (ft^2)**	**Unit 3 South Zone (ft^2)**	**Southern Clean Zone (ft^2)**
156,694	354,371	1,136,965	770,550	607,882	943,302

Activity (pCi/L)

Groundwater

	Northern Clean Zone Catchment	**Unit 2 North**	**Unit 1/2**	**Unit 3 North**	**Unit 3 South Zone**	**Southern Clean Zone**
Upper Zone Before Canal	150	0	3,440	453	932	140
Lower Zone Before Canal	150	247	3,201	1,418	391	183

IPEC00110062

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

	Northern Clean Zone	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South Zone	Southern Clean Zone
Upper Zone After Canal	150	473	4,383	317	932	140
Lower Zone After Canal	150	564	1,084	484	391	183

Stormwater Discharging to Canal (pCi/L)

Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone
	1,260		0	0	0
NA	*Avg MH-4a*	*NA*	*Avg CB-14 and CB-34*	*Avg U3-CB-B8*	*Avg D1, CB3, E6, & E10*

Stormwater Discharging to River (pCi/L)

Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone
	0	1,241	3,940		1,060
NA	*Avg. MH-1 and MH-12*	*Avg MH-14*	*Avg CB-15*	*NA*	*Avg E13,CB-C2*

IPEC00110063

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Potential Water Received by Storm Drain System

=(Improved Area) x Precipitation

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
0	412,846	1,130,188	934,681	970,294	644,331	ft^3/yr
0	1,131	3,096	2,561	2,658	1,765	ft^3/day
0.00	5.88	16.09	13.30	13.81	9.17	GPM
0	11,690,498	32,003,363	26,467,218	27,475,679	18,245,408	L/Yr

The total amount of water available to be received by the storm system is computed as the combined area of buildings and paved areas in the catchment multiplied by the annual precipitation rate. Note this conservatively assumes that the amount of water lost to the atmosphere or other sinks after precipitation has fallen on paved or built up surfaces is zero.

Water Directly Recharged to Aquifer from Precipitation

=Unimproved Area x Recharge

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
97,677	190,063	382,646	282,138	234,765	511,335	ft^3/yr
268	521	1,048	773	643	1,401	ft^3/day
1.39	2.71	5.45	4.02	3.34	7.28	GPM
2,765,899	5,381,977	10,835,334	7,989,263	6,647,817	14,479,386	L/Yr

Note that this calculation reflects recharge to the aquifer in non-paved areas. The Recharge value listed above and used in this calculation reflects only that portion of precipitation that actually recharges the aquifer.

IPEC00110064

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Water Recharged to Aquifer (Direct Recharge Plus Storm Water Leakage Minus Building Drain Removal)

=(Direct Recharge + X% Water Received by Storm System) - (Y% x Water Removed by Building Drains

Total Water Discharged to Aquifer

Upper and Lower Zone	[Northern Clean Area Catchment + (0% Storm Drain Water)]	[Unit 2 North + (50% Storm Drain Water)]-[5gpm]	[Unit 1/2 Area Catchment + (30% Storm Drain Water)]-[7.5 gpm]	[Unit 3 North Area Catchment + (50% Storm Drain Water)]-[7.5gpm]	[Unit 3 South Area + (1% Storm Drain Water)]	[Southern Clean Zone Area + (1% Storm Drain Water)]	Units
	97,677	45,173	194,734	222,510	244,468	517,778	ft^3/yr
	268	124	534	610	670	1,419	ft^3/day
	1.39	0.64	2.77	3.17	3.48	7.37	GPM
	2,765,899	1,279,165	5,514,250	6,300,779	6,922,574	14,661,840	L/Yr

Groundwater Discharged to Canal

=Water Recharged to Aquifer x X% flowing to Canal

Upper and Lower Zone	Northern Clean Area Catchment x 0%	Unit 2 North x 34.6%	Unit 1/2 Area Catchment 22.6%	Unit 3 North Area Catchment x 56.3%	Unit 3 South Area x73.9%	Southern Clean Zone Area x 0%	Units
	0	15,630	44,010	125,273	180,662	0	ft^3/yr
	0	43	121	343	495	0	ft^3/day
	0.00	0.22	0.63	1.78	2.57	0.00	GPM
	0	442,591	1,246,220	3,547,339	5,115,782	0	L/Yr

IPEC00110065

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Groundwater Discharged to River

=Water Recharged to Aquifer x X% flowing to River x Y% Flowing in Appropriate Vertical Zone

	Northern Clean Area Catchment x 100% x 33.5%	Unit 2 North x 65.4% x 21.7%	Unit 1/2 Area Catchment 77.4% x 35.9%	Unit 3 North Area Catchment x 43.7% x 28.7%	Unit 3 South Area x 26.1% x 34.4%	Southern Clean Zone Area x 100% x 51.8%	Units
Upper Zone	32,722	6,411	54,110	27,907	21,949	268,209	ft^3/yr
	90	18	148	76	60	735	ft^3/day
	0.47	0.09	0.77	0.40	0.31	3.82	GPM
	926,576	181,536	1,532,223	790,237	621,536	7,594,833	L/Yr
	Northern Clean Area Catchment x 100% x 66.5%	**Unit 2 North x 65.4% x 78.3%**	**Unit 1/2 Area Catchment 77.4% x 64.1%**	**Unit 3 North Area Catchment x 43.7% x 71.3%**	**Unit 3 South Area x 26.1% x 65.6%**	**Southern Clean Zone Area x 100% x 48.2%**	**Units**
Lower Zone	64,955	23,132	96,614	69,330	41,857	249,569	ft^3/yr
	178	63	265	190	115	684	ft^3/day
	0.92	0.33	1.38	0.99	0.60	3.55	GPM
	1,839,323	655,037	2,735,807	1,963,203	1,185,255	7,067,007	L/Yr

Water Remaining in Storm Drains and Discharged to Canal

=Storm Drain Water x X% Not Leaking to Groundwater and Not Discharging to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (45% Unit 2 North and 30% of Unit 1/2 Storm Drain Water)	Unit 1/2 Area Catchment (0% Storm Drain Water)	Unit 3 North Area Catchment (4% Unit 3 North Storm Drain Water)	Unit 3 South Area (4% Unit 3 North and 47% Unit 3 South Storm Drain Water)	Southern Clean Zone Area (30% Unit 1/2, 32% Unit 3 North, 47% Unit 3 South, and 94% Southern Clean Zone Storm Drain Water)	Units
0	524,837	0	37,387	493,426	1,699,863	ft^3/yr
0	1,438	0	102	1,352	4,657	ft^3/day
0	7.47	0.00	0.53	7.02	24.19	GPM
0	14,861,733	0	1,058,689	13,972,258	48,134,772	L/Yr

IPEC00110066

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Water Remaining in Storm Drains and Discharged to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (5% Storm Drain Water)	Unit 1/2 Area Catchment (10% Storm Drain Water)	Unit 3 North Area Catchment (10% Storm Drain Water)	Unit 3 South Area (5% Storm Drain Water)	Southern Clean Zone Area (5% Storm Drain Water)	Units
0	20,642	113,019	93,468	48,515	32,217	ft^3/yr
0	57	310	256	133	88	ft^3/day
0	0.29	1.61	1.33	0.69	0.46	GPM
0	584,525	3,200,336	2,646,722	1,373,784	912,270	L/Yr

Flux Calculations

Conceptual Model: Migration Pathway Summary

	Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone
GW	100% Upper and Lower Zone To River	68.6% Upper Zone and Lower Zone Flow To River. 31.4% Upper Zone and Lower Zone Flow to Canal	73.4% Upper Zone and Lower Zone To River. 26.6% Upper Zone and Lower Zone to Canal	41.2% Upper Zone and Lower Zone To River. 58.8% Upper Zone and Lower Zone to Canal	26.1% Upper Zone and Lower Zone To River. 73.9% Upper Zone and Lower Zone to Canal	100% Upper and Lower Zone To River
SW	NA	To Canal (Storm Water Considered Clean; Estimated at 5.5 GPM) and To River (5% Storm Water)	To Canal (60% Storm Water) and To River (10% Storm Water)	To Canal (40% Storm Water) and To River (10% Storm Water)	To Canal (94% Storm Water) and To River (5% Storm Water)	To Canal (94% Storm Water) and To River (5% Storm Water)

Flux (pCi/Yr)

	Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Total
GW to River-Upper Zone	1.39E+08	8.58E+07	6.72E+09	2.51E+08	5.79E+08	1.07E+09	**8.84E+09**
GW to River-Lower Zone	2.76E+08	3.70E+08	2.96E+09	9.51E+08	4.64E+08	1.30E+09	**6.32E+09**
GW to Canal	0.00E+00	0.00E+00	4.29E+09	1.61E+09	4.77E+09	0.00E+00	**1.07E+10**
SW to Canal	NA	1.38E+10	0.00E+00	0.00E+00	1.43E+02	0.00E+00	**1.38E+10**
SW to River	NA	0.00E+00	3.97E+09	1.04E+10	0.00E+00	9.67E+08	**1.54E+10**

Curies/Yr ==> **0.05**

IPEC00110067

Facility Groundwater Flux Calculation

Site Indian Point
Job No. 161619.00

Prepared By: MJG
Reviewed By: mjb

Notes:

The recharge rate used herein, 0.86 ft/yr (10 inches/year). is within the range of values discussed in the USGS modeling report [1]. The reported recharge ranged from 3.6 inches/year to 7.5 inches/year for a till to 20 inches per year for coarse grained glacially stratified deposits. A precipitation value of 3.02ft/yr, (a 10 year average measured at the Facility meteorological station) was also used in the computations. The catchment area was defined using an AutoCAD topo map for the Site and surrounding area. The catchment was defined by starting at the area marked "line of water grant" and tracking east, away from the River, to define portions of the land surface contributing water to the selected discharge zone. Calculations assume that run-off or overland flow in unimproved areas of the Site is negligible, there are no changes in storage and the Hudson River is a gaining stream.

1. USGS. Water Use. Ground-Water Recharge and Availability, and Quality of Water in the Greenwich Area, Fairfield County. Connecticut and Westchester County, New York, 2000-2002