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ENVIRONMENTAL

Mr. Payson Long
Remedial Bureau E
Section D
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Subject:
McKesson Envirosystems
Bear Street Site
Syracuse, New York
Site No. 07-34-020

Date:
August 9, 2011

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Our ref:
B0026003.00190

Dear Mr. Long:

ARCADIS prepared this Site Management Periodic Review Report (PRR) for the McKesson Envirosystems Bear Street Site, located at 400 Bear Street West in Syracuse, New York (site), on behalf of McKesson Corporation to fulfill the requirements set forth by Section 6.3(b) of DER-10 Technical Guidance for Site Investigation and Remediation (DER-10; New York State Department of Environmental Conservation [NYSDEC] 2010a). The PRR describes the operation and maintenance (O&M) activities conducted at the site and the monitoring results obtained from January through June 2011. This report also fulfills the requirements of the NYSDEC-approved Site Operation and Maintenance Plan (Site O&M Plan) (Blasland, Bouck & Lee, Inc. [BBL], 1999a) and of the December 29, 1999 letter from Mr. David Ulm (BBL) to Mr. Michael Ryan, P.E. (NYSDEC), which presented the long-term process control monitoring program as an addendum to the Site O&M Plan (BBL 1999b). The long-term process control monitoring program was recently modified by ARCADIS' September 3, 2010 modification proposal letter (ARCADIS 2010a) and the NYSDEC's modification proposal response letter dated September 23, 2010 (NYSDEC 2010b). The Site O&M Plan (BBL 1999a), the 1999 addendum (BBL 1999b), and the 2010 modifications (ARCADIS 2010a and NYSDEC 2010b) are collectively referred to herein as the Site O&M Plan. This report was also prepared in accordance with ARCADIS' October 26, 2010 letter (ARCADIS 2010b), which notified the NYSDEC of the scheduled supplemental remedial activities at the site.

The information provided in this PRR has been organized into the following sections:

- *Site Remediation Background.* Provides a brief description and history of the remediation activities and Site O&M Plan modifications at the site.

- *In-situ Aerobic Bioremediation Treatment Program Activities.* Describes the *in-situ* aerobic bioremediation treatment program activities conducted at the site from January through June 2011.

- *Hydraulic Process Control Monitoring.* Describes the results of the hydraulic process control monitoring activities conducted at the site from January through June 2011.

- *Chemical of Concern Process Control and Biannual Groundwater Monitoring Program.* Describes the April 2011 results of the constituents of concern (COC) process control and Biannual Groundwater Monitoring Program, and summarizes the COC data obtained at the site from 1988 through June 2011.

- *Conclusions.* Provides conclusions based on the results of the process control monitoring activities.

- *Recommendations.* Provides recommendations for the *in-situ* aerobic bioremediation treatment program and monitoring activities.

Site Remediation Background

The 8.6-acre site is divided into three areas (Areas 1, 2, and 3), as shown on Figure 1, and consists of two parcels (029-300-380 and 029-300-390). Additionally, the site is divided vertically into two operable units (OUs): OU1 – Unsaturated Soil, and OU2 – Saturated Soil and Groundwater. The NYSDEC-selected remedy for both OUs includes ongoing O&M activities. A Record of Decision (ROD) for OU1 was signed in March 1994 (NYSDEC 1994), which called for *in-situ* aerobic bioremediation of the unsaturated soils comprising OU1. A ROD for OU2 was signed in March 1997 (NYSDEC 1997) and called for anaerobic bioremediation of groundwater and saturated soils. Biannual reports detailing both the O&M activities and the results of the process control monitoring program have been submitted to the NYSDEC since OU1 remedial activities were completed in 1994/1995 and OU2 *in-situ* anaerobic

bioremediation treatment activities commenced in July 1998. The site continues to be used for commercial/industrial purposes.

The OU1 bioremediation remedy successfully treated an estimated 20,000 cubic yards of contaminated soil to the technology-based cleanup levels. The treated area was subsequently covered with a minimum of 12 inches of clean soil and reseeded to prevent human exposure to remaining surficial soil contamination. Deed restrictions, an institutional control, are required to prevent future use of and potential human exposure to site groundwater. As per DER-33 (NYSDEC 2010c), a deed restriction is required (rather than an environmental easement or environmental notice) because the site is a Class 2 Site and the ROD was issued prior to October 7, 2003.

The initial components of the remedy implemented for OU2 are identified below.

- An infiltration trench and a withdrawal trench were installed upgradient and downgradient, respectively, of Area 3 as a means to introduce Revised Anaerobic Mineral Media- (RAMM-) amended groundwater into the shallow hydrogeologic unit while maintaining hydraulic control. The introduction of RAMM supplied macronutrients and micronutrients to enhance naturally occurring anaerobic biodegradation of the COCs.

- Two additional infiltration trenches were installed within Area 3 to increase the distribution of RAMM-amended groundwater within this area and to act as overflow devices if the amended groundwater in the aforementioned infiltration trench exceeds maximum capacity.

- Groundwater was pumped from the withdrawal trench, amended with RAMM, and distributed into the shallow hydrogeologic unit via the infiltration trenches described above.

- Two infiltration trenches were installed in both Areas 1 and 2. RAMM-amended groundwater was periodically introduced into these trenches by manually filling standpipes screened within the filter pack of the trenches (i.e., within the shallow hydrogeologic unit). Groundwater used for the RAMM amendment was pumped from pumping well MW-26S because COCs were not detected in any of the groundwater samples from this well, the adjacent monitoring well MW-13S, or the

previously existing adjacent monitoring well MW-14D that was abandoned during the OU2 remediation activities.

Figure 1 shows the locations of the withdrawal trench and the infiltration trenches. The trenches in Area 3 have been designated as main infiltration trench "C", secondary infiltration trench "B", and secondary infiltration trench "A". In addition to the aforementioned components, the remedy for OU2 initially included the following:

- Conducting a process control monitoring program to monitor the effectiveness of the *in-situ* anaerobic bioremediation treatment systems; and

- Introducing RAMM into the shallow hydrogeologic unit within each of the three areas, at discrete locations throughout each area, using a truck-mounted vertical injection mast. Two discrete RAMM injection events were conducted: an initial event from August 5 to August 12, 1998, and a second event from August 28 to August 30, 2000.

A process control monitoring program was implemented to monitor the effectiveness of the *in-situ* anaerobic bioremediation treatment systems. The process control monitoring program included hydraulic, biological, and COC monitoring. Ongoing O&M activities are performed as part of the NYSDEC-selected remedies for both of these OUs. These O&M activities, in general, include the following:

- Conducting biannual groundwater monitoring in association with the NYSDEC-selected remedy for OU1;

- Operating and maintaining the *in-situ* anaerobic bioremediation systems installed as part of the NYSDEC-selected remedy for OU2; and

- Conducting process control monitoring in association with the remedy for OU2.

The data obtained during the process control monitoring program have been periodically reviewed. In 2004, the periodic review of the data obtained as part of the monitoring program suggested that concentrations of aniline and N,N-dimethylaniline in the vicinity of MW-8S and TW-02R were not being reduced as successfully as other areas of the site. A selected excavation program was designed and implemented for the removal of 65 cubic yards of saturated soil in the vicinity of MW-8S and approximately 6 cubic yards of saturated soil around TW-02R. The backfill

placed in the Area 3 excavation was amended with RAMM to facilitate the anaerobic degradation of COCs in groundwater that entered that area of the site. In addition, three well points were installed around monitoring wells MW-27, MW-28, and MW-33 to allow for additional RAMM amendments to be made to these areas of relatively higher COC concentrations.

After evaluating the biological data (i.e., microbiological analytes, indicator compounds, and permanent gases) obtained during the first six years of monitoring it was concluded that the biological data consistently verified that the saturated soils/groundwater of the shallow hydrogeologic unit within each area are conducive to anaerobic bioremediation, and that there are sufficient carbon electron acceptors and nutrients to sustain microbial activity in each of the three areas. Therefore, the biological monitoring portion of the monitoring program was eliminated beginning the first sampling event in 2005.

In 2006, the periodic review of the COC data suggested that the *in situ* anaerobic treatment program had been effective at reducing the concentrations of volatile organic COCs, but concentrations of semi-volatile organic COCs (aniline and N,N-dimethylaniline) were not being reduced in a timely manner. The OU2 *in-situ* anaerobic bioremediation treatment program was modified to an *in-situ* aerobic bioremediation treatment program in August 2006. From August 2006 to October 2008, the *in-situ* aerobic bioremediation treatment program consisted of amending the groundwater with an oxygen source (dilute hydrogen peroxide) and macronutrients. The *in-situ* aerobic bioremediation treatment program was modified in October 2008 to provide a new and continuous source of oxygen to Areas 2 and 3; however, dilute hydrogen peroxide continues to be added to Area 1. The modifications included the following:

- Construction of an oxygen gas diffusion system in both Areas 2 and 3 (Figures 2 and 3, respectively); and

- Installation of an aerator stone in the equalization tank of Area 3's treatment system to add oxygen gas to the groundwater before it is pumped into the infiltration trenches.

In October 2008, macronutrient amendments were discontinued in Areas 1, 2, and 3.

In 2010, the periodic review of the data obtained as part of the monitoring program suggested that concentrations of aniline in the area between TW-02RR and MW-36

were not being reduced as successfully as other areas of the site. A selected excavation program was designed and implemented for the removal of 117.39 tons of saturated soil from Area 2. The backfill placed in the Area 2 excavation was amended with ORC® to facilitate the aerobic degradation of COCs in groundwater that entered that area of the site. In addition, a system of five standpipes was installed within the excavation area to allow for additional ORC® amendments to be made.

Based on historical groundwater monitoring and analytical data trends, the following modifications were made to the long-term process control monitoring program beginning in October 2010:

- Eliminating methanol analyses in select wells/piezometers;
- Removing select wells from the COC monitoring program;
- Removing select deep wells/piezometers form the hydraulic monitoring program; and
- Abandoning select wells/piezometers.

In addition, the NYSDEC added MW-4S to the COC monitoring program as a downgradient sentinel well for Area 2. Groundwater samples collected at MW-4S will be analyzed for all site COCs, excluding methanol. Due to no detections of COCs at this location at concentrations above the NYSDEC Groundwater Quality Standards during the October 2010 sampling event, the low hydraulic gradient in the vicinity of this well, and its relatively remote location at the site (Figure 6), MW-4S is included in the sampling program every third biannual sampling event. The next samples will be collected from this well in spring 2012.

The most recent modification made to the *in situ* aerobic bioremediation treatment program includes the monthly injection of ORC®-amended groundwater into the five standpipes within Area 2. These monthly injections began in June 2011.

In-Situ Aerobic Bioremediation Treatment Program Activities

The NYSDEC verbally approved the *in-situ* aerobic bioremediation treatment program in July 2006 as an alternate approach to lowering concentrations of aniline

and other COCs (i.e., benzene, toluene, ethylbenzene, and xylene [BTEX], acetone, methanol, N,N-dimethylaniline, methylene chloride, trichloroethene) at the three areas. This treatment program consists of introducing an oxygen source and macronutrients into Areas 1, 2, and 3. The oxygen source for all three areas between August 10, 2006 (beginning of the *in-situ* aerobic bioremediation treatment program) and October 27, 2008 (modifications to the *in-situ* aerobic bioremediation treatment program) was dilute hydrogen peroxide at a concentration of 200 parts per million (ppm). The macronutrients were added at an approximate carbon:nitrogen:phosphorus ratio of 50:25:10 in the form of Miracle-Gro®.

In October 2008, the *in-situ* aerobic bioremediation treatment program was modified to include an oxygen infusion system to provide a continuous source of oxygen gas to the groundwater in Areas 2 and 3 via iSOC® units. An oxygen diffuser (i.e., Oxygen Edge Unit) was also installed in the Area 3 equalization tank in January 2009. Dilute hydrogen peroxide amendments continue to be added to groundwater in Area 1, but macronutrient amendments were discontinued.

The following activities were conducted as part of the treatment program during this reporting period (see Figures 1, 3, and 4 for referenced locations):

- Added dilute hydrogen peroxide-amended groundwater into the infiltration trenches in Area 1 (monthly).
- Added dilute hydrogen peroxide-amended groundwater into piezometers in Area 1 (PZ-S, PZ-G, PZ-Q, and PZ-R) and to well points in Area 1 (WP-4 and WP-5) (monthly).
- Added oxygen gas to groundwater into infusion wells in Area 2 (IW-1, IW-2, IW-3, IW-4, and IW-5).
- On June 7, 2011, added ORC®-amended groundwater into the five standpipes in Area 2 (Figure 2).
- Added oxygen gas to groundwater into infusion wells in Area 3 (IW-6, IW-7, IW-8, IW-9, IW-10, IW-11, IW-12, and IW-13).
- Added oxygen gas to groundwater in the Area 3 equalization tank.

- Measured dissolved oxygen (DO) levels in the field each month in Area 1 (MW-33), Area 2 (MW-36R and TW-02RRR), and Area 3 (MW-27, MW-28, and MW-8SR).

Dilute hydrogen peroxide was added to the groundwater in Area 1 at a concentration of 200 ppm. Oxygen gas was continuously added to the Area 2 and 3 infusion wells, resulting in a groundwater concentration of at least 40 ppm. Oxygen gas was continuously added to the Area 3 equalization tank at a concentration of approximately 25 ppm.

The Area 3 i*n-situ* aerobic bioremediation treatment system operated satisfactorily during this reporting period. The hydraulic process control system functioned properly during the current reporting period (January through June 2011) and no substantial system repairs were required. Approximately 1,103,771 gallons of water was pumped from the withdrawal trench and introduced into the Area 3 infiltration trenches, as detailed in this report.

The fencing around the site, which serves as an engineering control, is intact.

Hydraulic Process Control Monitoring

The hydraulic process control monitoring program was established in each of the three impacted areas to:

- Confirm that containment has been established in each area.
- Verify that the groundwater withdrawal rates in Area 3 do not cause the freshwater/saltwater interface to upcone to the bottom of the withdrawal trench.
- Verify that saturated soil/groundwater conditions within the shallow hydrogeologic unit are conducive to microbial degradation of the COCs by aerobic microbial populations.
- Optimize the system operation performance in Area 3.

As part of the hydraulic process control monitoring, groundwater level measurements were obtained at monitoring wells and piezometers that are screened entirely within the sand layer of the shallow hydrogeologic unit and located in and around each of the three areas. Additionally, the Barge Canal surface-water elevation was obtained

from measurements made from a reference point on the Bear Street Bridge, which passes over the canal. The hydraulic process control monitoring was conducted on April 4, 2011. The monitoring locations are listed on Table 2 and shown on Figure 1. Mr. Payson Long (NYSDEC) was notified of the April 2011 hydraulic and COC monitoring event in the April 19, 2011 Biannual Process Control Monitoring Report for the reporting period of July through December 2010.

Table 1 summarizes the groundwater level measurements obtained during the April 4, 2011 hydraulic process control monitoring event, as well as those obtained since October 2006 (just after initiating the *in-situ* aerobic bioremediation treatment program). Table 2 in Attachment A summarizes the historical groundwater level measurements obtained from June 1998 (immediately prior to commencing the *in-situ* anaerobic bioremediation treatment activities) through June 2006 (prior to initiating the *in-situ* aerobic bioremediation treatment program). Figure 5 depicts the potentiometric surface of the site's shallow hydrogeologic unit using the April 2011 data set. Site-wide groundwater elevations for this round of sampling were consistent with elevations measured since startup of the treatment system. The results and corresponding conclusions of the hydraulic process control monitoring are summarized below.

- A closed-loop hydraulic cell continues to be maintained in Area 3, as shown on Figure 5. This groundwater containment is an engineering control for the site.

- The groundwater withdrawal rate in Area 3 ranged from approximately 2.51 to 6.43 gallons per minute from January through June 2011.

- The withdrawal of groundwater continues to induce a hydraulic gradient in Area 3 from perimeter monitoring wells MW-23S, MW-25S, and MW-24SR toward the withdrawal trench.

- In Area 3, approximately 25 percent of the recovered groundwater continued to be introduced to the secondary infiltration trench "B;" and the remaining 75 percent continued to be introduced to the primary infiltration trench "C" from January through June 30, 2011.

- The hydraulic data that were obtained to date, throughout the operating history of the treatment system in Area 3, have consistently indicated no discernable effect on the hydraulic gradient of the deep hydrogeologic unit.

The weekly conductivity measurements of groundwater pumped from the withdrawal trench in Area 3 ranged from approximately 1 to 2 milliSiemens per centimeter (mS/cm), which is consistent with the range of conductivity levels measured prior to system operation (1 to 4 mS/cm). These measurements are well below the measured conductivity of the deep unit, which is greater than the calibration range of the field instrument (10 mS/cm). These data indicate that operation of the Area 3 treatment system has not caused the freshwater/saltwater interface to upcone to the base of the withdrawal trench. This lack of upconing also indicates that the hydraulic gradient of the deep hydrogeologic unit has not been significantly impacted by withdrawal of groundwater in Area 3.

Institutional and Engineering Controls

A deed restriction was identified as an institutional control in the ROD for OU1. To date, the deed restriction has not been filed. ARCADIS is currently awaiting the deed restriction paperwork from NYSDEC.

For the engineering controls identified for the site (i.e., fencing/access control and groundwater containment), the following statements are true:

- The engineering controls employed at the site are unchanged from the date the control was put in place, or last approved by the NYSDEC Division of Environmental Remediation (DER);

- Nothing has occurred that would impair the ability of such controls to protect public health and the environment;

- Nothing ha[redacted]curred that would constitute a violation or failure to comply with any site management plan for these controls; and

- Access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of these controls.

Attachment C contains the completed Institutional and Engineering Controls Certification Form.

Chemical of Concern Process Control and Biannual Groundwater Monitoring Program

The groundwater COCs for the site are acetone, BTEX, methanol, trichloroethene, aniline, N,N-dimethylaniline, and methylene chloride. The COC process control and Biannual Groundwater Monitoring Program activities were conducted from April 4 through April 7, 2011, in accordance with the Site O&M Plan (BBL 1999a). Groundwater samples were collected from April 4 through April 7, 2011,and were analyzed by TestAmerica Laboratories, Inc. in Edison, New Jersey (Nationally Accredited Environmental Laboratory ID #12028) via Methods 8290B, 8270C, and 8015B. In addition, the following groundwater quality parameters were measured in the field during the April sampling event: temperature, conductivity, DO, and oxidation/reduction potential. Table 2 lists the existing monitoring wells and piezometers used to conduct the long-term process control monitoring program and provides a schedule for implementing this program. The monitoring locations are shown on Figure 1.

As stated in the NYSDEC's 1997 Record of Decision (OU2 ROD; NYSDEC 1997) for the saturated soils at the site, two of the remediation goals for the site are to:

1. "reduce, control, or eliminate the concentrations of COCs present within the saturated soils at the [Site]."

2. "attain the NYSDEC Class GA Groundwater Quality Standards, to the extent practicable, for the COCs present in onsite groundwater."

In accordance with the requirements of the NYSDEC-approved monitoring program, laboratory analytical results for the April 2011 samples were validated. The validated COC groundwater analytical results are summarized in Table 3 and shown on Figures 5 and 6. These figures and table also summarize the COC groundwater analytical results obtained during the biannual monitoring events conducted from September 2006 through April 2011, which collectively represent the results obtained since the start of the *in-situ* aerobic bioremediation treatment activities. The COC groundwater analytical results obtained prior to September 2006 are summarized in Table 2 and presented on Figures 1 through 4 in Attachment A. Copies of the validated analytical laboratory reports associated with the April 2011 sampling event are presented in Attachment B. This report summarizes the COC analytical results and DO measurements for the downgradient perimeter monitoring locations and for each of the three areas.

All COC groundwater analytical results are compared to NYSDEC Groundwater Quality Standards, as presented in Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) (NYSDEC 1998).

During the April 2011 sampling event, the presence or absence of non-aqueous phase liquid (NAPL) was assessed in existing monitoring wells and piezometers based on observations made during the process control monitoring event. NAPL was not identified in any of the monitoring wells or piezometers used during the process control monitoring program.

DO levels continued to be measured monthly at monitoring locations MW-8SR, MW-27, MW-28, MW-33, MW-36R, and TW-02RRR during this reporting period. Table 4 summarizes these DO measurements.

Additionally, the Mann-Kendall Test for Trends was run for the COC data obtained between March 1988 and April 2011 at the monitoring locations sampled as part of the COC process control and Biannual Groundwater Monitoring Program activities. The Mann-Kendall Test for Trends was also run for the DO data obtained between August 2006 and June 2011 for monitoring locations MW-8SR, MW-27, MW-28, MW-33, MW-36R, and TW-02RRR.

The COC analytical results, DO measurements, and Mann-Kendall Test for Trends results, along with the downgradient perimeter monitoring locations for each area, are summarized below.

- *Sentinel Wells*. COCs were not detected at sentinel well MW-3S. COCs have not exceeded standards in sentinel wells since June 2005 (aniline in MW-3S).

- *Area 1:*

  - COC concentrations detected in groundwater samples collected from Area 1 monitoring wells during April 2011 were generally low, ranging from non-detect to concentrations just slightly greater than their respective NYSDEC Groundwater Quality Standard (Table 3 and Figure 5). The majority of COC concentrations detected during April 2011 at Area 1 monitoring wells were approximately equal to or below concentrations detected during the October 2010 sampling event.

- At TW-01, COCs were not detected above their respective NYSDEC Groundwater Quality Standard in April 2011.

- At MW-9S, ethylbenzene (29 ppb), xylenes (89 ppb), and N,N-dimethylaniline (5.4 ppb) were detected above their respective NYSDEC Groundwater Quality Standards (5 ppb, 5 ppb, and 1 ppb, respectively) in April 2011. Overall, the N,N-dimethylaniline concentrations detected at this location continue to trend downward.

- At MW-31, benzene (8.3 ppb) and N,N-dimethylaniline (2.3 ppb) were detected at concentrations above their respective NYSDEC Groundwater Quality Standards (both 1 ppb) in April 2011. Results of the Mann-Kendall Test for Trends show a decreasing trend in both N,N-dimethylaniline and benzene concentrations at MW-31.

- All COC concentrations at MW-32 are below NYSDEC Groundwater Quality Standards.

- N,N-dimethylaniline (1.9 ppb) was detected at MW-33 at concentrations slightly above its NYSDEC Groundwater Quality Standard (1 ppb) in April 2011. Results of the Mann-Kendall Test for Trends show a decreasing trend in N,N-dimethylaniline concentrations at MW-33. The aniline concentrations detected at MW-33 have remained below the NYSDEC Groundwater Quality Standard (5 ppb) for the last eight sampling events. Aniline was detected in MW-33 at a concentration of 940 ppb at the beginning of the aerobic bioremediation treatment in 2006, and has not been detected at MW-33 since November 2007.

- DO levels measured at MW-33 from January through June 2011 ranged from 0.34 to 0.61 ppm (refer to Table 4). Aerobic conditions in groundwater are generally indicated when DO levels are greater than 2 ppm. Overall, DO levels detected at MW-33 are trending upward.

• Area 2:

- COC concentrations detected in groundwater samples collected from Area 2 monitoring wells were generally low; most COC concentrations detected during April 2011 at Area 2 monitoring wells were approximately equal to or

below concentrations detected during the October 2010 sampling event (Table 3 and Figure 6).

- At TW-02RRR, aniline was not detected in the groundwater sample collected during April 2011 at concentrations above NYSDEC Groundwater Quality Standards. The (estimated) detected aniline concentration of 1.9 ppb in April 2011 is the lowest aniline concentration obtained at this location since remedial actions were initiated. Benzene (2.1 ppb), xylenes (5.2 ppb), and N,N-dimethylaniline (3.4 ppb) were detected at concentrations slightly above their NYSDEC Groundwater Quality Standards (1 ppb, 5 ppb, and 1 ppb, respectively) at this location during the April 2011 sampling event. Overall, the aniline, benzene, xylenes, and N,N-dimethylaniline concentrations detected at this location are trending downward.

- At MW-34, benzene (1.7 ppb) was detected at a concentration slightly greater than the NYSDEC Groundwater Quality Standard (1 ppb) during the April 2011 sampling event. Aniline was also detected at MW-34 during April 2011 at a concentration of 10 ppb, which is above the NYSDEC Groundwater Quality Standard of 5 ppb. N,N-dimethylaniline was detected at MW-34 in April 2011 at a concentration of 2.7 ppb, which is slightly greater than the NYSDEC Groundwater Quality Standard of 1 ppb. Overall, the aniline and N,N-dimethylaniline concentrations detected at this location are trending downward.

- No COCs were detected at MW-35. No COCs have exceeded the NYSDEC Groundwater Quality Standards in this well since November 2004.

- The aniline concentrations detected in groundwater samples collected at MW-36R during the April 2011 sampling event (310 ppb) exceeded the NYSDEC Groundwater Quality Standard (5 ppb). Benzene (4.3 ppb) and N,N-dimethlyaniline (4 ppb) were detected at concentrations slightly greater than the NYSDEC Groundwater Quality Standard (1 ppb for each) during the April 2011 sampling event. The results of the Mann-Kendall Test for Trends shows that the concentrations of N,N-dimethlyaniline detected at MW-36R are trending downward.

- DO levels measured in Area 2 (MW-36R and TW-02RRR) between January and June 2011 are summarized in Table 4. The DO levels were 0.35 and 0.51 ppm at MW-36R (note that DO was measured in MW-36R in May and June

2011 only) and ranged from 0.25 to 0.47 ppm at TW-02RRR. Aerobic conditions in groundwater are generally indicated when DO levels are greater than 2 ppm.

- Area 3:

  - COC concentrations detected in groundwater samples collected from Area 3 monitoring wells during the April 2011 sampling event were generally consistent with or lower than the concentrations detected in the previous sampling event conducted in October 2010 (Table 3 and Figure 6).

  - Monitoring well MW-8SR is located in the center of Area 3, an area that has been identified in the past as containing relatively higher concentrations of COCs (Figure 6). The aniline concentration detected at MW-8SR in April 2011 (57 ppb, estimated) was the lowest concentration detected at this location since remedial actions began at the site. Benzene, ethylbenzene, xylenes, and N,N-dimethylaniline exceeded their respective NYSDEC Groundwater Quality Standards (1 ppb, 5 ppb, 5 ppb, and 1 ppb, respectively). The results of the Mann-Kendall Test for Trends show that all COC concentrations, including aniline, that exceeded their respective NYSDEC Groundwater Quality Standard in the groundwater sample collected from MW-8SR are trending downward.

  - The aniline concentration detected at MW in April 2011 (1,000 ppb) exceeded the NYSDEC Groundwater Quality Standard (5 ppb). Benzene (3.1 ppb), ethylbenzene (5.1 ppb), toluene (5.7 ppb), and xylenes (9.1 ppb) slightly exceeded their respective NYSDEC Groundwater Quality Standards in April 2011. The results of the Mann-Kendall Test for Trends show that aniline concentrations obtained at MW-27 are trending downward.

  - Monitoring well MW-28 has historically exhibited relatively higher concentrations of aniline. In April 2011, aniline was detected at a concentration of 3.9 ppb, which is below the NYSDEC Groundwater Quality Standard of 5 ppb. With the exception of benzene (2.3 ppb), no COCs were detected at concentrations above their respective Groundwater Quality Standards at MW-28. Aniline and benzene concentrations detected at this location are trending downward.

- No COCs were detected at MW-29 in April 2011. No COCs have exceeded the NYSDEC Groundwater Quality Standards in this well since May 2003.

- No COCs were detected at MW-30 during the April 2011 sampling event.

- DO levels measured at MW-8SR, MW-27, and MW-28 between January and June 2011 are summarized in Table 4. The DO levels at MW-8SR ranged from 0.12 to 0.77ppm. The DO levels at MW-27 ranged from 0.15 to 0.94 ppm. The DO levels at MW-28 ranged from 0.36 to 1.31 ppm. Aerobic conditions in groundwater are generally indicated when DO levels are greater than 2 ppm. Overall, DO levels detected at MW-27 and MW-28 are trending upward.

- *Downgradient perimeter monitoring locations*. There were no detections of COCs above NYSDEC Groundwater Quality Standards at the downgradient perimeter monitoring locations during the April 2011 sampling event (Table 3 and Figure 6).

Conclusions

The process control monitoring data presented in this report will continue to be used to monitor the effectiveness of the *in-situ* aerobic bioremediation treatment activities. The following conclusions are based on the process control monitoring data obtained to date.

- A closed-loop hydraulic cell continues to be maintained in Area 3.

- Operation of the Area 3 treatment system has not caused the freshwater/saltwater interface to upcone to the base of the withdrawal trench.

- COCs were not detected at concentrations above the NYSDEC Groundwater Quality Standards at any perimeter sampling locations in April 2011. These results provide another line of evidence that the groundwater in Area 3 is contained in the Area 3 treatment system. The closed-loop hydraulic cell in Area 3 supports this conclusion. The OU2 remediation goal of "mitigate the potential for migration beyond the site boundary of groundwater that contains concentrations of COCs in excess of their respective NYSDEC Class GA Groundwater Quality Standard" continues to be achieved.

- COC concentrations detected in the groundwater samples collected from Area 1 demonstrate a decrease since the *in-situ* bioremediation treatment activities began in July 1998. COC concentrations have continued to remain low since the *in-situ* aerobic bioremediation treatment program began in August 2006. In April 2011, the COCs in this area were mostly non-detect or below their respective NYSDEC Groundwater Quality Standards, including aniline in groundwater at MW-33. These COC concentrations indicate that, for many years, Area 1 has met the NYSDEC Class GA Groundwater Quality Standards for toluene, trichloroethene, methylene chloride, and acetone, which is an objective of the OU2 ROD (NYSDEC 1997). More recently, Area 1 has met the NYSDEC Class GA Groundwater Quality Standard for aniline in groundwater, and COC concentrations within saturated soils have been reduced, controlled, or eliminated, in accordance with the OU2 ROD (NYSDEC 1997) objectives. A few COCs (e.g., N,N-dimethylaniline, benzene, ethylbenzene, and xylene) continue to be present at concentrations greater than their respective NYSDEC Groundwater Quality Standards.

- In the downgradient edge of Area 1, aniline was not detected in the groundwater sample from MW-33 during the April 2011 sampling event. Aniline concentrations previously detected in MW-33 were below the NYSDEC Groundwater Quality Standard for the six sampling events conducted since November 2007, suggesting that the *in-situ* aerobic bioremediation treatment program facilitated the reduction of aniline.

- Based on the DO levels measured in Area 1 for January through June 2011, it does not appear that aerobic conditions (i.e., DO levels greater than 2 ppm) have not been established beyond the points of injection.

- In Area 2, the November 2010 soil excavation and ORC® amendment activities appear to have substantially reduced aniline concentrations in groundwater around TW-02RRR, to below the NYSDEC Groundwater Quality Standard of 5 ppb.

- Overall, the COC groundwater concentrations within Area 2 have decreased during the last 10 sampling events since June 2006. The concentrations continue to be relatively low, excluding aniline detected at monitoring locations MW-36R and MW-34 in April 2011. In addition, N,N-dimethylaniline concentrations remain relatively low at MW-34. Overall, analytical results indicate that the *in-situ* aerobic bioremediation treatment program is facilitating the reduction of aniline in Area 2. COC concentrations within saturated soils have been reduced, controlled, or

eliminated. To the extent practicable, for many years Area 2 has met the NYSDEC Class GA Groundwater Quality Standards for acetone, toluene, ethylbenzene, methylene chloride, and trichloroethene, in accordance with OU2 ROD objectives (NYSDEC 1997).

- The continuous supply of oxygen to groundwater in Area 2 appears to have reduced the rebound effect in the COC concentrations previously observed when oxygen was used up after introducing periodic injections of hydrogen peroxide to the groundwater. Based on the DO levels measured in Area 2, it does not appear that aerobic conditions (i.e., DO levels greater than 2 ppm) have not been established beyond the points of injection. The aniline and DO concentrations for the first half of 2011 suggest that the oxygen is being used for the biodegradation processes soon after it is introduced to groundwater, resulting in little surplus of oxygen to increase the groundwater DO levels.

- The aniline concentration at MW-8SR in Area 3 decreased approximately 99 percent between the end of the anaerobic bioremediation treatment program in June 2006 and the April 2011 sampling event. These results indicate that the *in-situ* aerobic bioremediation treatment program is facilitating the reduction of aniline in Area 3. Similar to the results in Area 2, the continuous supply of oxygen to groundwater in Area 3 appears to have reduced the rebound affect of COC concentrations. Since June 2006, the average concentrations of aniline detected in Area 3 (MW-8SR, MW-27, and MW-28) have fluctuated, but overall have declined by one order of magnitude. COC concentrations within saturated soils have been reduced, controlled, or eliminated. For many years Area 3 has met the NYSDEC Class GA Groundwater Quality Standards for acetone, methylene chloride, and trichloroethene, in accordance with the ROD (NYSDEC 1997).

- Based on the DO levels measured in Area 3 in January through June 2011, it appears that aerobic conditions were not achieved; however, DO levels have increased since initiating the *in-situ* aerobic bioremediation treatment. Aerobic conditions in groundwater are generally indicated when DO levels are greater than 2 ppm. The aniline concentrations within Area 3 (i.e., MW-8SR, MW-27, and MW-28) decreased overall between June 2006 and April 2011, suggesting that the *in-situ* aerobic bioremediation treatment program facilitated the reduction of aniline. The aniline and DO concentrations suggest that oxygen is being used for the biodegradation processes soon after it is introduced to groundwater, resulting in little surplus of oxygen to increase the groundwater DO levels.

- In conclusion, the OU2 remedy continues to be protective of public health and the environment, and is compliant with the 1997 NYSDEC Record of Decision for OU2.

Recommendations

The *in-situ* aerobic bioremediation program generally has reduced concentrations of aniline, N,N-dimethylaniline, and other COCs at the site. ARCADIS recommends that an oxygen source continue to be introduced into Areas 1, 2, and 3. In addition, aniline concentrations are consistently non-detect in Area 1, and the recent non-detect concentration of N,N-dimethylaniline at MW-33 indicates that monthly dilute hydrogen peroxide amendments provided adequate oxygen for the continuation of aerobic degradation of aniline in Area 1; however, concentrations are now at levels that are likely to continue degrading through natural processes. ARCADIS recommends that the dilute hydrogen peroxide amendments be continued in Area 1, as well as continuing the biannual monitoring to evaluate the effectiveness of the natural attenuation processes in the decrease of site COCs to below NYSDEC Groundwater Quality Standards.

Analytical results from the current *in-situ* aerobic bioremediation program indicate that a constant source of oxygen has supported the continued reduction of aniline concentrations in Areas 2 and 3 (i.e., TW-02RRR, MW-27, and MW-8SR). The removal of targeted soils, ORC® soil amendment, and the ORC®-amended groundwater introduced to the system of standpipes in Area 2 are anticipated to further enhance the degradation of site COCs. ARCADIS recommends maintaining the oxygen infusion system installed in Areas 2 and 3, the ORC®-amended groundwater injections to Area 2 standpipes, the oxygen diffuser in the Area 3 equalization tank, and the hydraulic modifications to the Area 3 system. The constant source of oxygen may reduce the rebound effect on the aniline concentrations and result in a faster treatment time than was observed with the dilute hydrogen peroxide amendments. Further recommendations for the oxygen infusion systems in Area 2 and 3, supplemental oxygen amendments in Area 3 (i.e., ORC®-amended groundwater injections), and the hydraulics of the Area 3 system will be made based on results of the next biannual hydraulic monitoring and sampling event and DO level readings.

The Biannual Groundwater Monitoring Program activities will continue at the site (Table 3). The second biannual sampling event of 2011 is scheduled to be conducted during the week of October 17. ARCADIS recommends continuing to measure DO

levels on site monthly at MW-33 in Area 1, MW-36R and TW-02RRR in Area 2, and MW-27, MW-28, and MW-8SR in Area 3.

The *in-situ* aerobic biodegradation treatment activities will continue to be conducted in accordance with the site-specific Health and Safety Plan (ARCADIS 2010c).

As discussed in this PRR and summarized in Table 2, the monitoring activities conducted at the site are included in the Biannual Groundwater Monitoring Program and the revised Process Control Monitoring Program. The activities included in the Biannual Groundwater Monitoring Program will continue, and will include biannual collection of chemical and hydraulic data from downgradient perimeter wells/piezometers to ascertain whether groundwater that contains COC concentrations in excess of their respective NYSDEC Groundwater Quality Standards is migrating beyond the site boundary.

ARCADIS recommends that the process to reclassify the site from a Class 2 Inactive Hazardous Waste Disposal Site (i.e., significant threat to the public health or environment – action required) to a Class 4 Inactive Hazardous Waste Disposal Site (i.e., site properly closed – requires continued management) continue to advance. In a phone conversation on June 16, 2011 with Ms. Penniman (ARCADIS), Mr. Long (NYSDEC) stated that before the NYSDEC can reclassify the site, deed restrictions per the NYSDEC's 1994 Record of Decision (OU1 ROD; NYSDEC 1994) need to be in place (as stated in the OU1 ROD) "to prevent future use of and potential human exposure to site groundwater." ARCADIS is moving forward with satisfying the requirements of the deed restriction, including an American Land Title Association survey scheduled for early August 2011.

If you have any questions or require additional information, please do not hesitate to contact me at 315.671.9210.

Sincerely,

ARCADIS of New York, Inc.

David J. Ulm
Senior Vice President

DEP/cmb

Copies:
Ms. Susan Edwards, NYSDEC (w/out Attachment B)
Mr. Harry Warner, NYSDEC (w/out Attachment B)
Mr. Richard Jones, NYSDOH (w/out Attachment B)
Ms. Jean Mescher, McKesson Corporation (w/out Attachment B)
Mr. Douglas Morrison, Bristol-Myers Squibb Company (w/out Attachment B)
Mr. Christopher Young, P.G., de maximis, inc. (w/out Attachment B)

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ARCADIS

TABLES

Table 1. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, October 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	10/30/06	6/6/07	11/12/07	3/24/08	8/25/08	3/23/09	9/14/09	4/26/10	10/11/10	4/4/11
Canal	393.39	364.29	362.99	362.06	364.34	363.21	363.54	362.89	362.97	363.49	362.07
Collection Sump	372.81	363.18	362.26	361.86	363.81	362.14	362.20	362.18	362.18	360.72	359.90
MW-3S[1]	376.54	369.08	--	367.60	367.93	365.19	367.32	365.50	365.67	367.95	369.21
MW-11S	373.50	366.11	364.27	363.88	365.69	363.86	364.88	363.89	364.42	364.30	365.00
MW-18[1]	372.57	363.82	362.63	362.32	363.51	362.26	363.16	362.22	362.67	362.87	363.82
MW-23I[1]	372.77	366.43	365.02	364.74	366.12	364.64	365.69	364.67	365.19	365.38	366.57
MW-23S	372.61	365.28	362.98	362.56	364.81	362.62	363.50	362.63	362.99	362.71	364.57
MW-24SR	375.55	366.49	365.21	364.83	366.26	364.73	365.81	364.79	365.32	365.81	366.60
MW-25S	373.39	365.26	363.32	362.87	364.84	362.88	363.97	362.89	363.34	363.30	364.10
PZ-4D	376.11	366.64	365.29	364.98	366.39	364.90	365.96	364.94	365.49	366.02	366.74
PZ-5D	375.58	366.87	365.49	365.19	366.69	365.09	366.21	365.14	365.01	366.09	366.99
PZ-A	373.94	365.62	363.11	362.72	364.83	362.96	363.56	362.95	362.28	362.35	362.68
PZ-B	373.92	365.85	363.12	362.62	365.03	362.87	363.64	362.83	362.96	362.22	363.24
PZ-C	374.85	367.14	365.85	365.30	367.15	365.16	366.71	365.23	366.37	367.11	367.88
PZ-D	375.12	367.68	365.98	365.40	367.29	365.28	366.81	365.40	366.57	367.17	368.20
PZ-E	374.12	368.13	365.16	364.07	366.58	364.14	366.82	364.20	364.25	364.16	364.83
PZ-F	377.06	368.32	366.18	365.76	367.99	365.50	367.41	365.69	366.72	367.10	368.10[3]
PZ-G	377.16	368.64	366.28	365.82	368.14	365.94	367.29	367.22	367.32	367.36	368.12
PZ-HR	376.99	368.31	366.23	365.74	368.00	365.48	367.41	365.63	366.65	367.15	368.00[3]
PZ-I	375.15	369.00	366.49	365.92	368.55	365.50	367.97	365.71	367.04	367.49	368.60
PZ-J	374.89	367.96	366.16	365.82	367.69	365.55	367.20	365.70	366.55	367.05	367.81
PZ-K	373.19	365.58	363.36	362.91	364.96	363.08	363.80	363.04	363.33	363.34	361.94
PZ-L	374.62	365.23	362.94	362.63	364.64	362.79	363.39	362.80	363.80	362.36	362.52
PZ-M	374.35	365.60	363.54	363.11	365.13	363.30	364.00	363.31	363.62	363.04	363.47
PZ-N	376.94[2]	367.51	365.76	365.26	367.05	365.09	366.63	365.17	366.22	367.01	367.79
PZ-O	375.36	365.42	363.22	362.82	365.01	362.91	363.94	362.93	363.35	362.90	363.57
PZ-P	376.89	368.30	366.31	365.83	368.06	365.58	367.51	365.75	366.76	367.26	368.08
PZ-Q	377.61	368.61	366.33	365.83	368.23	365.57	367.61	365.77	366.78	367.26	368.13
PZ-R	377.05	368.51	366.19	365.79	368.20	365.55	367.57	365.73	366.74	367.24	368.10
PZ-S	378.13	372.48	366.51	365.81	368.21	365.55	367.60	365.74	366.76	367.13	369.67[3]
PZ-T	376.25	368.04	366.24	365.84	367.89	365.52	367.37	365.66	366.63	367.12	367.94
PZ-U	375.35	367.99	366.07	365.80	367.75	365.52	367.25	365.66	366.52	367.05	367.83
PZ-V	375.78	367.97	366.17	365.78	367.78	365.48	367.24	365.64	366.52	367.04	367.81

Notes:

[1]Well not used in potenteniometric surface of the shallow hydrogeologic unit sand layer.

[2]The reference elevation for PZ-N was 376.02 feet AMSL prior to November 16, 2000. The new reference elevation is 376.94 feet AMSL.

[3]Groundwater Elevations at PZ-HR, PZ-S and PZ-F (Area 1) were not used for contouring due to standing water at these locations.

AMSL = above mean sea level (National Geodetic Vertical Datum of 1929).

Table 2. Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule,
Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Location	Annual Sampling Schedule		
	Shallow/Deep Well[2]	First Sampling Event	Second Sampling Event
Sentinel Wells			
MW-3S[1]	--	C	C
MW-4S[1]	--	NM	C
Area 1			
TW-01	--	C	C
MW-9S	--	C	C
MW-31	--	C	C
MW-32	--	C	C
MW-33[1]	--	C	C
PZ-F	Shallow	H	H
PZ-G	Shallow	H	H
PZ-HR	Shallow	H	H
PZ-P	Shallow	H	H
PZ-Q	Shallow	H	H
PZ-R	Shallow	H	H
PZ-S	Shallow	H	H
Area 2			
TW-02RRR	--	C	C
MW-34	--	C	C
MW-35	--	C	C
MW-36R[1]	--	C	C
PZ-I	Shallow	H	H
PZ-J	Shallow	H	H
PZ-T	Shallow	H	H
PZ-U	Shallow	H	H
PZ-V	Shallow	H	H
Area 3			
MW-8SR[1]	--	C	C
MW-11S	Shallow	H	H
MW-27[1]	--	C	C
MW-28	--	C	C
MW-29[1]	--	C	C
MW-30[1]	--	C	C
PZ-A	Shallow	H	H
PZ-B	Shallow	H	H
PZ-C	Shallow	H	H
PZ-D	Shallow	H	H
PZ-E	Shallow	H	H
PZ-K	Shallow	H	H
PZ-L	Shallow	H	H

See notes on page 2.

Table 2. Revised Long-Term Hydraulic and COC Process Control Monitoring Schedule,
Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Area 3 (Cont'd.)			
PZ-M	Shallow	H	H
PZ-N	Shallow	H	H
PZ-O	Shallow	H	H
MW-11S	Shallow	H	H
Collection Sump	Shallow	H	H
Downgradient Perimeter Monitoring Locations			
MW-17R	--	C	C
MW-18	Deep	C	C
MW-23I	Deep	C	C
MW-23S	Shallow	C, H	C, H
MW-24SR	Shallow	H	H
MW-25S	Shallow	H	H
PZ-4S[1]	--	C	NM
PZ-4D[1]	Shallow	C, H	H
PZ-5D	Shallow	H	H
Barge Canal	--	H	H

Notes:

[1] Methanol not analyzed for in constituent of concern (COC) monitoring.
[2] As per potentiometric surface mapping.
[3] Sample collected for aniline analysis during October 2010 sampling event.
[4] Per New York State Department of Environmental Conservation (NYSDEC) approval, MW-22 was decommissioned after the October 2010 sampling ev

1. The hydraulic monitoring identified in this table will be conducted semiannually. The hydraulic monitoring also includes measuring the conductivity of groundwater recovered from Area 3 from a sampling port located before the equalization tank.
2. Field groundwater parameters including pH, temperature, conductivity, dissolved oxygen and oxidation reduction potential are measured during each COC sampling event.
3. Each of the monitoring wells and piezometers used for hydraulic and COC monitoring during the semiannual monitoring event are checked for the prese (if any) of nonaqueous phase liquid
4. Based on the results obtained, the scope and/or frequency for the hydraulic and/or COC components of the long-term process control monitoring progra as detailed herein, may be modified. Any modifications will be made in consultation with the NYSDEC.
5. This table is based on the NYSDEC-approved Operation and Maintenance Plan (Blasland, Bouck & Lee 1999), including the NYSDEC-approved December 29, 1999 addendum with the modifications detailed in the October 2004 Biannual Process Control Monitoring Report and September 3, 2010 modification proposal letter to the NYSDEC.

H = Hydraulic monitoring (groundwater level measurements).
C = Monitoring for COCs.
NM = Not monitored.
-- = Not used for potentiometric surface mapping.

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-1[E]	11/06	370.3	355.3	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0	<3.0
	6/07			<5	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			**7.4**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			**8.9 J**	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
MW-3S	11/06	365.1	350.1	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10	**0.17 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.2	<1.0	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.3 J	<1.1 J	<1.0
MW-4S	10/10	365.5	350.5	<10 [<10]	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]	<3.0 [<3.0]	<500 J [<500 J]	<1.0 [<1.0]	<5.0 [<5.0]	<1.0 [<1.0]	<1.0 [<1.0]
MW-8SR[B]	9/06	362.7	352.7	NA	NA	NA	NA	NA	NA	NA	**52,000 [51,000]**	<520 [<520]	NA
	11/06			**28**	**16**	**100**	**84**	**270**	<500	<1.0	**28,000**	<200	<3.0
	6/07			**58**	**14**	**110**	**83**	**250**	<500	<2.0	**2,700**	<22	<6.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**17,000**	<100	NA
	11/07			<5.0 J	**12**	**22**	**73**	**210**	<500	<1.0	**22,000 J**	<100 J	<3.0
	3/08			**<10 [9.6 J]**	**5.5 [5.7]**	**22 [22]**	**70 [68]**	**160 [160]**	<500 [<500]	<2.0 [<2.0]	**5,800 [5,200]**	<25 [<50]	<6.0 [<6.0]
	8/08			**8.2 J [<10]**	**11 [11]**	**24 [22]**	**70 [70]**	**190 [190]**	<500 [<500]	<2.0 [<2.0]	**32,000 [25,000]**	<250 [<250]	<6.0 [<6.0]
	3/09			**6.5 J [5.8 J]**	**6.8 [6.8]**	**10 [10]**	**66 [63]**	**140 [140]**	<500 [<500]	<1.0 [<1.0]	**2,200 [1,800]**	<12 [<12]	<1.0 [<1.0]
	6/09			NA	NA	NA	NA	NA	NA	NA	**7,000**	<50	NA
	9/09			**<10 [8.3 J]**	**8.5 J [7.9]**	**6.8 J [6.5]**	**44 J [38]**	**81 J [71]**	<500 [<500]	<1.0 J [<1.0]	**4,000 [3,400]**	<20 [<20]	<1.0 [<1.0]
	4/10			<10 [<10]	**4.2 [3.5]**	**4.6 [3.7]**	**23 J [18]**	**41 [33]**	<500 [<500]	<1.0 [<1.0]	**370 J [720 J]**	**1.0 J [<5.0]**	<1.0 [<1.0]
	10/10			<10	**2.7**	**2.0**	**16**	**31**	NA	<1.0	**220**	**1.6**	<1.0
	4/11			**5.9 J [4.3 J]**	**3.2 [3.2]**	**2.8 [2.6]**	**10 [8.8]**	**32 [31]**	NA	<1.0 [<1.0]	**57 J [64]**	**1.5 [1.6]**	<1.0 [<1.0]
MW-9[C]	11/06	365.6	356	<5.0	**1.4**	**3.5 J**	**23**	**63**	<500	<1.0	**0.5 J**	**3.3 J**	<3.0
(Replaced by MW-9S)	6/07			<5.0	**1.4**	**3.3 J**	**42**	**110**	<500	<1.0	<5.0	**4.1**	<3.0
	11/07			<5.0	**0.9 J**	**2.0 J**	**11**	**58**	<500 J	<1.0	**1.7 J**	**8.6**	<3.0
	3/08			<5.0 J	**1.1**	**3.0 J**	**37**	**73**	<500	**1.2**	**0.7 J**	**6.8**	<3.0
	8/08			**24**	**3.7**	**3.3 J**	**21**	**72**	<500	<1.0	<5.5	**5.1**	<3.0
	3/09			<10	**1.2**	**2.5**	**27**	**65**	<500	<1.0	<5.0	**4.2**	<1.0
	9/09			<10	**1.7**	**2.2**	**20**	**70**	**730**	<1.0	<5.0	**4.1**	<1.0
	4/10			<10	**0.86 J**	**2.1**	**26**	**69**	<500	<1.0	<5.0	**6.5**	<1.0
	10/10			<10	**1.3**	**1.9**	**11**	**45**	<500 J	<1.0	<5.1	**7.5**	<1.0
	4/11			<10	**0.91 J**	**2.6**	**29**	**89**	<500	<1.0	<5.3	**5.4**	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-17[D]	11/06	365.7	356.1	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-17R)	6/07			<5.0	**0.7 J**	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			**2.3 J**	**1.8**	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	**2.3**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	**0.86 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	**0.22 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			<10	**1.3**	<1.0	<1.0	<3.0	<500 J	<1.0	<5.6	<1.1	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.3 J	<1.1 J	<1.0
MW-18	11/06	325.15	316.15	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			**5.5**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	**33**
	6/10			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	NA	NA	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.1	<1.0	<1.0
	4/11			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.3	<1.1	<1.0
MW-19	11/06	318.45	309.45	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
MW-22	10/10	368.55	359.55	<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.0	<1.0	<1.0
MW-23S	11/06	364.1	354.1	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			**3.7 J**	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.0	<1.0	<1.0
	4/11			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.3	<1.1	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-23I	11/06	341.2	336.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	**8.4**
	6/10			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	NA	NA	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.0	<1.0	<1.0
	4/11			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.3	<1.1	<1.0
MW-24S[D]	11/06	358.4	352.4	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-24SR)	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
	9/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
MW-24D[D]	11/06	334.4	341.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
(Replaced by MW-24DR)	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
	9/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
MW-25S	11/06	361.2	356.2	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.2	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
MW-25D	6/07	349.55	344.55	**12 J**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-27	9/06	362.5	354.5	NA	NA	NA	NA	NA	NA	NA	**1,700**	<10	NA
	11/06			**31 [24]**	**14 [14]**	**71 [71]**	**42 [45]**	**91 [110]**	<500 [<500]	<1.0 [<1.0]	**33,000 [33,000]**	<210 [<200]	<3.0 [<3.0]
	6/07			**21**	**8.4**	**9.5**	**14**	**24**	<500	<1.0	**1,100**	<10	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**<10 J [4,300 J]**	<1.0 [<20]	NA
	11/07			<5.0 J [<5.0]	**6.6 [5.9]**	**4.7 J [4.1 J]**	**8.6 [7.2]**	**24 [21]**	<500 [<500]	<1.0 [<1.0]	**3,000 J [3,800 J]**	<25 J [<25 J]	<3.0 [<3.0]
	3/08			**21**	**9.4**	**23**	**43**	**68**	<500	<2.0	**13,000**	<100	<6.0
	8/08			**3.8 J**	**5**	**2.2 J**	**1.8 J**	**10**	<500	<1.0	**2,400**	<25	<3.0
	3/09			**14 J**	**8.7**	**9.4**	**36**	**88**	<500	<1.0	**8,200 J**	<50 J	<1.0
	6/09			NA	NA	NA	NA	NA	NA	NA	**7,400**	<50	NA
	9/09			**10**	**6.2**	**6.9**	**5.9**	**23**	<500	<1.0	**2,100**	<10	<1.0
	4/10			<10	**4.5**	**2.4**	**6.1**	**10**	<500	<1.0	**1,300**	<10	<1.0
	10/10			<10	**2.7**	**1.3**	**1.4**	**3.4**	NA	<1.0	**220**	**2.5**	<1.0
	4/11			**3.9 J**	**3.1**	**5.7**	**5.1**	**9.1**	NA	<1.0	**1,000**	<11	<1.0
MW-28	9/06	363.6	355.6	NA	NA	NA	NA	NA	NA	NA	**280**	<2.2	NA
	11/06			**12**	**8.2**	**1.4 J**	**5.6**	**4.4 J**	<500	<1.0	**1,000**	<5.2	<3.0
	6/07			**13**	**4.6**	**0.4 J**	**0.8 J**	**0.6 J**	<500	<1.0	**60**	<1.0	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**40**	<1.0	NA
	11/07			<5.0 J	**4.5**	**0.5 J**	**1.4 J**	**0.8 J**	<500	<1.0	**29 J**	<0.5 J	<3.0
	3/08			<5.0	**4.0**	**0.5 J**	**1.6 J**	**1.3 J**	<500	<1.0	**81**	**0.9**	<3.0
	8/08			<5.0	**3.8**	<5.0	<4.0	<5.0	<500	<1.0	**0.7 J**	<0.5	<3.0
	3/09			<10	**3.5**	**0.3 J**	**0.8 J**	**1.1 J**	**851**	<1.0	**18**	<0.5	<1.0
	9/09			<10	**3.1**	**0.25 J**	**0.32 J**	**0.48 J**	<500	<1.0	**6.7**	<1.0	<1.0
	4/10			<10	**2.8**	**0.23 J**	**0.60 J**	**0.46 J**	<500	<1.0	<5.0	**0.49 J**	<1.0
	10/10			<10	**1.8**	<1.0	<1.0	<3.0	<500 J	<1.0	**2.4 J**	**0.60 J**	<1.0
	4/11			**4.3 J**	**2.3**	**0.11 J**	<1.0	<3.0	<500	<1.0	**3.9 J**	**0.75 J**	<1.0 B
MW-29	11/06	362.9	345.9	**5.4**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	**0.4 J**	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	**0.5 J**	<500	<1.0	<5.5	<1.1	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0 J	<0.5 J	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10	<1.0	**0.16 J**	<1.0	<3.0	<500	<1.0	<5.0	**0.29 J**	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.2	<1.0	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.3 J	<1.1 J	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-30	11/06	363.5	355.5	**11**	**1.0**	<5.0	<4.0	<5.0	<500	<1.0	**200**	<1.0	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	**30**	<1.1	<3.0
	11/07			<5.0 J	**0.8 J**	<5.0	<4.0	<5.0	<500	<1.0	**49**	<0.5	<3.0
	3/08			<5.0	**0.6 J**	<5.0	<4.0	**0.2 J**	<500	<1.0	**3.0 J**	**0.7**	<3.0
	8/08			<5.0	**0.7 J**	<5.0	<4.0	<5.0	<500	<1.0	**31**	<0.5	<3.0
	3/09			<10	**0.8 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10	**0.78 J**	**0.17 J**	<1.0	<3.0	<500	<1.0	**21**	<1.0	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			<10 J	**0.14 J**	<1.0	<1.0	<3.0	NA	<1.0	<5.1	<1.0	**37**
	4/11			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.3 J	<1.1 J	<1.0
MW-31	9/06	363.7	355.4	NA	NA	NA	NA	NA	NA	NA	**1.6**	**3.4**	NA
	11/06			R	**6.9**	<5.0	<4.0	<5.0	<500	<1.0	**0.4 J**	**1.1 J**	<3.0
	6/07			<5.0	**14**	**0.7 J**	<4.0	**1.3 J**	<500	<1.0	<5.0	**2.0**	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**0.5 J**	**2.7**	NA
	11/07			<5.0 [<5.0]	**12 [10]**	<5.0 [0.4 J]	<4.0 [<4.0]	**1.1 J [1.4 J]**	<500 J [<500 J]	<1.0 [<1.0]	<5.0 [0.3 J]	**2.3 [2.8]**	<3.0 [<3.0]
	3/08			<5.0 J	**2.0**	<5.0	<4.0	<5.0	<500	<1.0	**0.2 J**	**1.6**	<3.0
	8/08			**22**	**13**	**0.4 J**	<1.0	**2.2 J**	<500	<1.0	<5.6	**2.4**	<3.0
	3/09			**9.4 J**	**8.3**	**0.6 J**	< 1.0	**0.8 J**	<500	<1.0	<5.0	**2.3**	<1.0
	9/09			<10	**10**	**0.49 J**	<1.0	**2.0 J**	**730**	<1.0	<5.0	**2.5**	<1.0
	4/10			<10	**4.8**	**0.40 J**	<1.0	**1.3 J**	<500	<1.0	<5.0	**2.3**	<1.0
	10/10			<10	**6.9**	**0.50 J**	<1.0	**1.5 J**	<500 J	<1.0	<5.3	**3.5**	<1.0
	4/11			<10	**8.3**	**0.77 J**	<1.0	**2.5 J**	<500	<1.0	<5.3	**2.3**	<1.0
MW-32	11/06	364	356	R	<1.0	**0.8 J**	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	**0.1 J**	**0.8**	<3.0
	3/08			<5.0 J	**0.8 J**	<5.0	<4.0	<5.0	<500	<1.0	<5.0	**0.8**	<3.0
	8/08			**5.8**	**0.3 J**	<5.0	<4.0	<5.0	<500	<1.0	<5.7	<0.6	<3.0
	3/09			<10	**0.5 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			<10	<1.0	<1.0	<1.0	<3.0	**1,200**	<1.0	<5.0	**1.1**	<1.0
	4/10			<10	**0.23 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	**0.89 J**	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.2	**0.87 J**	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.3	<1.1	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-33	9/06	344.1	356.1	NA	NA	NA	NA	NA	NA	NA	**940**	**8.0**	NA
	11/06			**17 J**	**8.6**	**0.7 J**	<4.0	<5.0	<500	<1.0	**84**	**2.9 J**	<3.0
	6/07			<5.0	**5.7**	**0.4 J**	<4.0	<5.0	<500	<1.0	**46**	**2.6**	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**46**	**4.2**	NA
	11/07			<5.0	**4.0**	<5.0	<4.0	<5.0	<500 J	<1.0	**0.1 J**	**3.5**	<3.0
	3/08			<5.0 J	**4.1**	<5.0	<4.0	<5.0	<500	<1.0	<5.0	**4.1**	<3.0
	8/08			<5.0	**3.2**	<5.0	<4.0	<5.0	<500	<1.0	<5.9	**2.8**	<3.0
	3/09			<10	**3.2**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	**2.4**	<1.0
	9/09			<10	**2.6**	**0.20 J**	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	4/10			<10	**1.6**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	**2.0**	<1.0
	10/10			<10	**1.7**	<1.0	<1.0	<3.0	NA	<1.0	<5.1	**2.7**	<1.0
	4/11			<10	**0.79 J**	<1.0	<1.0	<3.0	NA	<1.0	<5.3	**1.9**	<1.0
MW-34	11/06	362.7	354.7	**49 J**	<1.0	**0.6 J**	<4.0	**0.6 J**	<500	<1.0	**9.9**	**1.2 J**	<3.0
	6/07			**22**	**0.9 J**	**0.5 J**	<4.0	**0.6 J**	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	**0.8 J**	**0.6 J**	<4.0	**1.1 J**	<500 J	<1.0	**0.3 J**	**1.5**	<3.0
	3/08			**16**	**1.0 J**	**0.5 J**	<4.0	**1.1 J**	<500	<1.0	**24**	**1.3**	<3.0
	8/08			**12**	**0.8 J**	**0.5 J**	<4.0	**1.1 J**	<500	<1.0	**0.6 J**	**1.6**	<3.0
	3/09			**14**	**1.4**	**0.7 J**	<1.0	**1.5 J**	<500	<1.0	**12**	**2.0**	<1.0
	9/09			**24**	<1.0	**0.64 J**	<1.0	**1.7 J**	**1,000**	<1.0	<5.0	**2.5**	<1.0
	4/10			**50 J**	**0.82 J**	**0.42 J**	<1.0	**1.4 J**	<500	<1.0	<5.0	**2.4**	<1.0
	10/10			**20**	**1.0**	**0.44 J**	<1.0	**1.3 J**	<500 J	<1.0	**1.8 J**	**2.9**	<1.0
	4/11			**16**	**1.7**	**0.74 J**	<1.0	**2.0 J**	<500	<1.0	**10**	**2.7**	<1.0
MW-35	11/06	363	355	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	**1.1**	<1.0 J	<3.0
	6/07			**13**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	<5.0	<0.5	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			**5.4**	<1.0	<5.0	<4.0	<5.0	<500	<1.0	**1.1 J**	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	9/09			**6.5 J**	<1.0	**0.16 J**	<1.0	<3.0	**1,100**	<1.0	<5.0	<1.0	<1.0
	4/10			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.0	<1.0	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.6	<1.1	<1.0

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
MW-36[E]	9/06	363.6	355.6	NA	NA	NA	NA	NA	NA	NA	**3.5**	**1.2**	NA
(Replaced by MW-36R)	11/06			**130 J**	**3.6**	**1.2 J**	<4.0	**1.1 J**	<500	<1.0	**420**	**1.7 J**	<3.0
	6/07			**33**	**4.6**	**1.4 J**	**0.8 J**	**5.0**	<500	<1.0	**1,300**	<10	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**740**	<5.0	NA
	11/07			**10**	**4.5**	**1.7 J**	**0.9 J**	**5.3**	<500 J	<1.0	**480 J**	**3.4 J**	<3.0
	3/08			**8.0 J**	**4.2**	**1.5 J**	**0.8 J**	**5.5**	<500	<1.0	**130**	**3.0**	<3.0
	8/08			**27**	**3.7**	**1.4 J**	**0.6 J**	**5.7**	<500	<1.0	**4.5 J**	**3.2**	<3.0
	3/09			**28**	**2.4**	**0.8 J**	<1.0	**2.8 J**	<500	<1.0	**150**	**2.8**	<1.0
	6/09			NA	NA	NA	NA	NA	NA	NA	**460**	<5.0	NA
	9/09			**21**	**3.1**	**0.96 J**	<1.0	**3.2**	<500	<1.0	**390**	**3.1**	<1.0
	4/10			<10 J	**3.3**	**1.1**	**0.26 J**	**5.4**	<500	<1.0	**77**	**2.6**	<1.0
	10/10			**12**	**3.9**	**1.2**	**0.28 J**	**4.8**	<500 J	<1.0	**620**	<5.0	<1.0
	4/11			<10	**4.3**	**0.95 J**	<1.0	**4.4**	NA	<1.0	**310**	**4.0**	<1.0
TW-01	11/06	365.1	355.4	R	**0.7 J**	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	6/07			**7.8**	**0.5 J**	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<1.0	<3.0
	11/07			<5.0	<1.0	<5.0	<4.0	<5.0	<500 J	<1.0	**0.2 J**	**1.1**	<3.0
	3/08			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	**1.0**	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.6	<0.6	<3.0
	3/09			<10	**1.9**	<1.0	<1.0	**0.6 J**	**22,300**	<1.0	<5.0	<0.5	<1.0
	9/09			**2.9 J**	<1.0	**0.11 J**	<1.0	<3.0	**970**	<1.0	<5.0	**1.1**	<1.0
	4/10			<10	**0.32 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.0	**1.0**	<1.0
	10/10			<10	<1.0	<1.0	<1.0	<3.0	<500 J	<1.0	<5.3	**1.3**	<1.0
	4/11			<10	**0.21 J**	<1.0	<1.0	<3.0	<500	<1.0	<5.3	<1.1	<1.0
TW-02RR[BE]	9/06	363.3	353.3	NA	NA	NA	NA	NA	NA	NA	**7,600**	<52	NA
(Replaced by TW-02RRR)	11/06			**78 J**	**4.9**	**1.4 J**	**2.2 J**	**6.2**	<500	<1.0	**2,100**	<10 J	<3.0
	6/07			**17**	**5.5**	**1.3 J**	**4.0**	**8.8**	<500	<1.0	**6,800**	<100	<3.0
	8/07			NA	NA	NA	NA	NA	NA	NA	**4,000 J**	<20	NA
	11/07			**5.5**	**5.8**	**1.2 J**	**3.0 J**	**7.6**	<500 J	<1.0	**3,700**	<25	<3.0
	3/08			**6.4 [5.2]**	**4.5 J [2.3 J]**	**1.3 J [0.7 J]**	**3.8 J [1.9 J]**	**10 [4.8 J]**	<500 [<500]	<1.0 [<1.0]	**7,500 [5,400]**	<50 [<50]	<3.0 [<3.0]
	8/08			**9.0 [9.6]**	**4.4 [4.6]**	**1.0 J [1.1 J]**	**2.3 J [2.4 J]**	**6.7 [7.0]**	<500 [<500]	<1.0 [<1.0]	**9,600 [7,000]**	<71 [<56]	<3.0 [<3.0]
	3/09			<10 [<10]	**5.0 [4.6]**	**1.0 [1.0 J]**	**1.5 [1.6]**	**4.2 [4.1]**	<500 [<500]	<1.0 [<1.0]	**2,000 [1,600]**	<10 [<10]	<1.0 [<1.0]
	6/09			NA	NA	NA	NA	NA	NA	NA	**2,800**	<20	NA
	9/09			<10 [<10]	**4.3 [4.2]**	**0.79 J [0.81 J]**	**1.2 [1.3]**	**3.5 [3.6]**	**1,000 [1,200]**	<1.0 [<1.0]	**1,600 [1,500]**	<10 [<10]	<1.0 [<1.0]
	4/10			**9.5 J [12 J]**	**4.1 [4.0]**	**0.78 J [0.75 J]**	**1.2 [1.2]**	**4.2 [4.0]**	<500 [<500]	<1.0 [<1.0]	**2,800 J [3,100 J]**	<20 J [<20 J]	<1.0 [<1.0]
	10/10			<10 [<10]	**3.3 [3.0]**	**0.82 J [0.76 J]**	**1.0 [0.91 J]**	**3.6 [3.6]**	<500 J [<500 J]	<1.0 [<1.0]	**760 [810]**	**<5.0 [2.2 J]**	<1.0 [<1.0]
	4/11			<10 [<10]	**2.1 [2.0]**	**0.74 J [0.75 J]**	**1.2 [1.3]**	**5.2 [5.3]**	<500 [<500]	<1.0 [<1.0]	**1.9 J [2.1 J]**	**3.4 [3.3]**	<1.0 [<1.0]

Table 3. Summary of Groundwater Monitoring Data, Aerobic Bioremediation Treatment Program, September 2006 through April 2011, Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (feet AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (TOGS 1.1.1)				50	1	5	5	5	NS	5	5	1	5
PZ-4D	6/07	350.8	345.9	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	**5.3 J**
	6/10			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	NA	NA	<1.0
	4/11			<10	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.3	<1.1	<1.0
PZ-4S	6/07	362.79	357.88	<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.5	<1.1	<3.0
	3/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	3/09			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<0.5	<1.0
	4/10			<10	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	**17**
	6/10			<10 J	<1.0	<1.0	<1.0	<3.0	NA	<1.0	NA	NA	<1.0
	4/11			<10 J	<1.0	<1.0	<1.0	<3.0	NA	<1.0	<5.3	<1.1	<1.0
PZ-5D	11/06	353.5	348.6	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.1	<0.5	<3.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
PZ-5S[E]	11/06	361.42	356.52	R	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<1.0	<1.0 J	<3.0
	11/07			<5.0 J	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.0	<0.5	<3.0
	8/08			<5.0	<1.0	<5.0	<4.0	<5.0	<500	<1.0	<5.3	<0.5	<3.0
	9/09			<10 J	<1.0	<1.0	<1.0	<3.0	<500	<1.0	<5.0	<1.0	<1.0
SP-2-2	9/10	NI	NI	NA	NA	NA	NA	NA	NA	NA	<5.0	<1.0	NA
SP-2-3	9/10	NI	NI	NA	NA	NA	NA	NA	NA	NA	<5.0	<1.0	NA
SP-2-4	9/10	NI	NI	NA	NA	NA	NA	NA	NA	NA	<5.0	**1.1**	NA
PZ-W[E]	9/10	361.79	356.78	NA	NA	NA	NA	NA	NA	NA	**240**	**4.3**	NA
(Replaced by MW-36R)	10/10			NA	NA	NA	NA	NA	NA	NA	**150**	**4.1**	NA
IW-4	9/10	NI	NI	NA	NA	NA	NA	NA	NA	NA	**2.2 J**	**2.6**	NA
IW-5	9/10	NI	NI	NA	NA	NA	NA	NA	NA	NA	<5.0	**2.8**	NA

Table 4. Summary of Dissolved Oxygen Measurements, August 2006 through May 2011,
Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36R (Area 2)	TW-02RRR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
8/21/06	N/R	N/R	N/R	N/R	3.35	N/R
8/28/06	0.28	N/R	N/R	0.88	2.18	N/R
9/1/06	0.53	N/R	N/R	0.41	0.40	N/R
9/8/06	0.22	N/R	N/R	0.42	0.53	N/R
9/21/06	0.17	N/R	N/R	0.21	0.37	N/R
9/29/06	0.28	N/R	N/R	0.37	0.40	N/R
10/6/06	0.16	N/R	N/R	0.43	0.29	N/R
10/13/06	0.21	N/R	N/R	0.33	0.31	N/R
10/28/06	0.17	N/R	N/R	0.24	0.29	N/R
11/10/06	0.37	N/R	N/R	0.33	0.38	N/R
11/16/06	0.27	N/R	N/R	0.23	0.21	N/R
11/22/06	0.41	N/R	N/R	0.37	0.42	N/R
12/4/06	0.29	N/R	N/R	0.23	0.32	N/R
12/7/06	0.24	N/R	N/R	0.22	0.29	N/R
12/14/06	0.57	N/R	N/R	0.27	0.32	N/R
1/7/07	0.30	N/R	N/R	0.27	0.21	N/R
1/12/07	0.24	N/R	N/R	0.27	0.30	N/R
1/19/07	0.23	N/R	N/R	0.20	0.37	N/R
1/26/07	0.26	N/R	N/R	0.61	0.57	N/R
2/9/07	0.24	N/R	N/R	0.28	0.44	N/R
2/22/07	0.33	N/R	N/R	0.44	0.30	N/R
3/2/07	0.62	N/R	N/R	0.20	0.36	N/R
3/16/07	0.29	N/R	N/R	0.37	0.55	N/R
3/23/07	0.25	N/R	N/R	0.22	0.46	N/R
3/30/07	0.47	N/R	N/R	0.45	0.79	N/R
4/5/07	0.31	N/R	N/R	0.59	0.91	N/R
4/19/07	0.32	N/R	N/R	0.27	0.73	N/R
4/26/07	0.26	N/R	N/R	0.49	0.48	N/R
5/11/07	0.50	N/R	N/R	0.43	0.58	N/R
5/25/07	0.22	N/R	N/R	0.53	0.81	N/R
6/1/07	0.30	N/R	N/R	0.32	0.70	N/R
6/29/07	0.48	0.90	N/R	1.87	2.76	N/R
7/3/07	0.21	0.48	N/R	0.43	0.66	N/R
7/13/07	0.38	0.38	N/R	0.68	1.18	N/R
7/19/07	0.36	0.22	N/R	0.52	0.98	N/R
7/27/07	0.24	0.32	N/R	0.50	0.86	N/R
8/3/07	0.47	0.47	N/R	0.57	0.79	N/R
8/9/07	0.63	0.31	N/R	0.42	0.70	N/R
8/16/07	0.37	0.31	N/R	0.40	0.85	N/R
8/24/07	0.38	0.33	N/R	0.50	0.88	N/R
8/31/07	0.54	0.40	N/R	0.52	0.77	N/R
9/7/07	0.47	0.40	N/R	0.35	0.52	N/R
9/14/07	0.40	0.38	N/R	0.39	0.83	N/R
9/21/07	0.36	0.31	N/R	0.34	0.46	N/R
9/28/07	0.28	0.43	N/R	0.57	0.71	N/R
10/5/07	0.38	0.41	N/R	0.41	0.68	N/R
10/12/07	0.41	0.44	N/R	0.65	1.03	N/R
10/19/07	0.44	0.52	N/R	0.59	1.02	N/R
10/26/07	0.32	0.50	N/R	0.71	1.04	N/R
11/2/07	0.38	0.48	N/R	0.44	0.90	N/R
11/9/07	0.43	0.43	N/R	0.68	1.04	N/R
11/16/07	0.50	0.64	N/R	0.33	0.38	N/R
11/21/07	0.56	0.32	N/R	0.44	1.24	N/R
11/30/07	0.42	0.51	N/R	0.84	1.28	N/R
12/7/07	0.44	0.41	N/R	0.54	0.66	N/R
12/14/07	0.49	0.55	N/R	0.55	1.02	N/R
12/20/07	0.45	0.44	N/R	0.89	0.90	N/R
12/28/07	0.42	0.46	N/R	0.56	1.10	N/R
1/4/2008	0.46	0.39	N/R	0.77	0.89	N/R
1/11/2008	0.48	0.36	N/R	0.64	0.91	N/R
1/18/2008	0.45	0.44	N/R	0.74	1.02	N/R
1/25/2008	0.42	0.33	N/R	0.96	0.92	N/R
2/1/2008	0.43	0.38	N/R	0.89	1.00	N/R

See notes on page 3.

Table 4. Summary of Dissolved Oxygen Measurements, August 2006 through May 2011,
Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36R (Area 2)	TW-02RRR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
2/8/2008	0.42	0.61	N/R	0.63	0.77	N/R
2/15/2008	0.46	0.54	N/R	0.86	0.99	N/R
2/22/2008	0.53	0.51	N/R	0.84	0.71	N/R
2/29/2008	0.44	0.45	N/R	0.73	0.92	N/R
3/7/2008	0.61	0.45	N/R	0.74	1.01	N/R
3/14/2008	0.65	0.34	N/R	0.77	0.82	N/R
3/21/2008	0.65	0.46	N/R	0.63	0.81	N/R
3/28/2008	0.62	0.33	N/R	0.71	0.87	N/R
4/4/2008	0.66	0.44	N/R	0.68	0.98	N/R
4/9/2008	0.77	0.35	N/R	0.54	0.79	N/R
4/20/2008	0.68	0.44	N/R	0.64	0.77	N/R
4/25/2008	0.48	0.61	N/R	0.43	0.76	N/R
5/2/2008	0.44	0.48	N/R	0.66	0.79	N/R
5/9/2008	0.46	0.41	N/R	0.67	0.81	N/R
5/16/2008	0.49	0.44	N/R	0.79	0.97	N/R
5/22/2008	0.38	0.4	N/R	0.43	0.59	N/R
5/30/2008	0.44	0.34	N/R	0.72	0.55	N/R
6/6/2008	0.31	0.33	N/R	0.40	0.67	N/R
6/13/2008	0.38	0.37	N/R	0.48	0.58	N/R
6/20/2008	0.41	0.70	N/R	0.40	0.58	N/R
6/27/2008	0.68	0.90	N/R	0.69	1.02	N/R
7/2/2008	0.97	0.88	N/R	1.03	1.18	N/R
7/10/2008	1.07	0.86	N/R	1.24	1.40	N/R
7/18/2008	2.06	1.89	N/R	2.03	2.31	N/R
7/23/2008	1.94	1.75	N/R	1.98	2.42	N/R
8/1/2008	1.29	1.12	N/R	1.27	1.48	N/R
8/8/2008	1.21	1.38	N/R	1.43	1.71	N/R
8/15/2008	1.29	1.53	N/R	1.68	1.94	N/R
8/22/2008	1.06	1.05	N/R	1.07	1.40	N/R
8/29/2008	1.18	0.98	N/R	1.04	1.32	N/R
9/5/2008	0.90	0.78	N/R	1.02	1.17	N/R
9/12/2008	0.85	0.83	N/R	0.87	1.00	N/R
9/19/2008	0.91	1.03	N/R	0.97	1.07	N/R
9/25/2008	0.74	0.68	N/R	0.74	0.96	N/R
10/3/2008	0.77	0.54	N/R	0.81	0.92	N/R
10/10/2008	0.71	0.58	N/R	0.77	1.03	N/R
10/17/2008	0.69	0.62	N/R	0.70	0.98	N/R
10/23/2008	0.66	0.89	N/R	0.91	0.71	N/R
10/31/2008	0.47	0.50	N/R	0.62	0.68	N/R
11/7/2008	0.42	0.58	0.43	0.53	0.53	0.60
11/14/2008	0.55	0.66	1.15	0.74	0.63	0.70
11/21/2008	0.90	0.81	0.90	1.02	1.20	1.02
11/25/2008	0.90	0.78	0.88	0.80	1.12	0.88
12/4/2008	0.74	0.78	0.76	0.94	1.02	0.92
12/12/2008	0.77	0.79	0.79	0.96	1.09	0.88
12/18/2008	0.80	0.83	0.80	0.84	1.03	0.86
12/22/2008	0.78	0.82	0.79	0.91	1.09	0.87
12/29/2008	0.83	0.80	0.86	0.84	0.98	0.93
1/9/2009	1.01	0.97	0.96	1.00	1.33	1.02
1/13/2009	1.12	0.96	0.94	0.98	1.28	1.01
1/23/2009	1.18	0.85	0.96	1.04	1.35	1.00
1/30/2009	1.16	0.88	0.91	0.99	1.19	0.98
2/6/2009	1.07	1.28	1.30	1.67	3.30	2.34
2/13/2009	1.08	1.03	0.97	1.07	2.04	1.23
2/20/2009	1.08	1.10	0.96	1.34	2.38	1.29
2/26/2009	0.80	0.97	0.86	1.20	1.44	1.12
3/6/2009	0.73	0.96	0.93	0.97	1.20	1.01
3/13/2009	0.81	1.26	1.05	1.16	1.68	1.16
3/20/2009	0.83	1.00	2.34	1.05	1.32	1.10
3/27/2009	0.50	0.56	0.55	0.80	0.95	0.76
4/2/2009	0.55	0.55	0.94	0.53	0.82	0.60
4/7/2009	0.68	0.71	0.87	0.77	0.91	0.78
4/19/2009	0.77	0.68	0.93	0.81	0.98	0.77
4/24/2009	0.43	0.48	0.39	0.60	0.73	0.74
5/1/2009	0.43	0.46	0.43	0.81	0.87	1.02
5/8/2009	0.40	0.54	0.43	0.58	1.03	0.55
5/15/2009	0.41	0.38	0.34	0.60	0.88	0.51
5/22/2009	0.43	0.44	0.40	0.53	0.70	0.65
5/29/2009	0.41	0.46	0.38	0.58	0.81	0.55
6/5/2009	0.38	0.58	0.62	0.34	0.60	0.48
6/12/2009	0.28	0.40	0.31	0.60	0.44	0.44

See notes on page 3.

Table 4. Summary of Dissolved Oxygen Measurements, August 2006 through May 2011,
Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Date	Dissolved Oxygen (ppm)					
	MW-33 (Area 1)	MW-36R (Area 2)	TW-02RRR (Area 2)	MW-27 (Area 3)	MW-28 (Area 3)	MW-8SR (Area 3)
6/26/2009	0.34	0.43	0.34	0.52	0.45	0.42
6/29/2009	0.33	0.42	0.57	0.50	0.83	0.60
7/7/2009	0.31	0.44	0.48	0.55	0.81	0.64
7/16/2009	0.30	0.37	0.27	0.37	0.73	0.43
7/24/2009	0.30	0.30	0.22	0.44	0.53	0.37
7/29/2009	0.33	0.36	0.28	0.41	0.55	0.41
8/7/2009	0.30	0.46	0.35	0.36	0.92	0.39
8/12/2009	0.31	0.41	0.28	0.42	0.41	0.34
8/20/2009	0.33	0.32	0.27	0.44	0.53	0.40
8/28/2009	0.25	0.31	0.34	0.52	0.77	0.47
9/3/2009	0.31	0.37	0.35	0.48	0.68	0.44
9/25/2009	0.45	0.58	0.35	0.52	0.73	0.50
10/2/2009	0.44	0.55	0.33	0.54	0.78	0.51
10/9/2009	0.41	0.53	0.32	0.58	0.95	0.77
10/15/2009	0.48	0.55	0.37	0.61	0.71	0.58
10/23/2009	0.43	0.51	0.54	0.80	0.74	0.61
11/17/2009	0.48	0.55	0.56	0.78	0.84	0.68
12/4/2009	0.42	0.53	0.48	0.76	0.88	0.71
1/20/2010	0.62	0.59	0.55	0.81	0.90	0.67
2/26/2010	0.57	0.51	0.47	0.77	0.91	0.74
3/12/2010	0.85	0.90	0.74	1.11	0.91	1.02
4/9/2010	0.78	0.94	0.68	0.98	0.87	0.86
5/7/2010	0.84	0.91	0.73	0.84	1.97	0.96
6/22/2010	0.52	0.47	0.60	0.47	0.82	0.58
7/8/2010	0.78	0.56	0.71	0.87	1.67	0.55
8/26/2010	0.64	0.40	0.35	0.67	1.70	0.98
9/23/2010	0.33	0.46	0.30	0.50	0.98	0.40
10/19/2010	0.30	0.37	0.46	0.48	0.85	0.48
11/23/2010	0.38	N/R	0.58	0.61	0.88	0.56
12/20/2010	0.41	N/R	0.48	0.54	0.81	0.40
1/12/2011	0.36	N/R	0.44	0.68	1.13	0.61
2/172011	0.58	N/R	0.36	0.55	1.30	0.75
3/2/2011	0.61	N/R	0.42	0.68	1.28	0.71
4/29/2011	0.34	N/R	0.35	0.76	1.31	0.77
5/20/2011	0.50	0.51	0.47	0.94	1.26	0.76
6/14/2011	0.40	0.35	0.25	0.15	0.36	0.12

Notes:

1. No readings were taken at MW-36 between 8/21/2006 and 6/1/2007 and 11/23/2010 and 4/29/2011.
2. DO readings were taken at TW-02RR and MW-8SR beginning 11/7/2008, just after the installation of the oxygen infusion system in Areas 2 and 3.
3. TW-02RR was replaced by TW-02RRR and MW-36 was replaced by MW-36R in 11/2010.

Abbreviations:

DO = dissolved oxygen.
N/R = no reading was taken.
ppm = parts per million.

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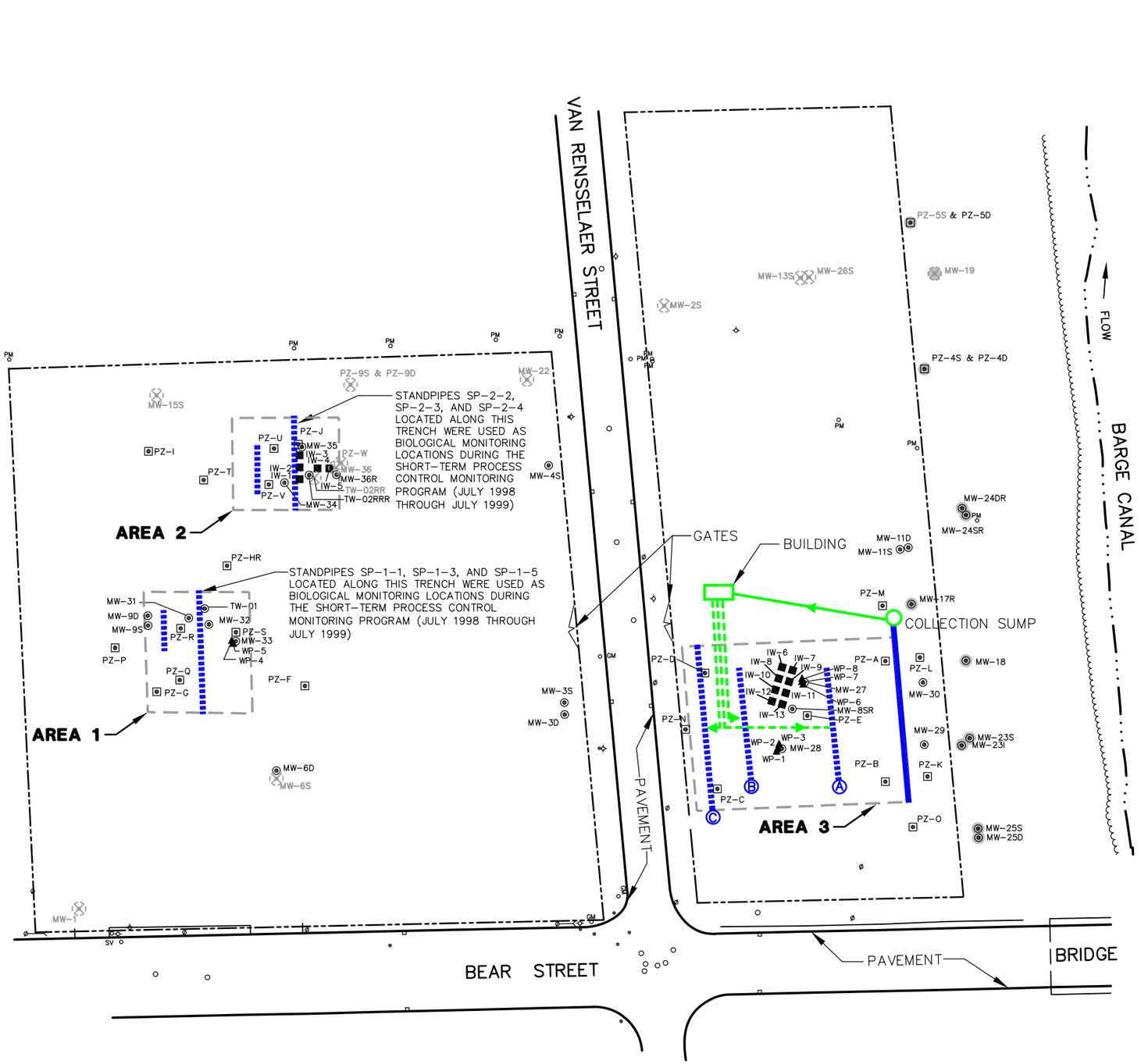
FIGURES



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- GROUNDWATER MONITORING WELL
- BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- PIEZOMETER
- PUMPING WELL
- REMOVED/DECOMMISSIONED WELL/PIEZOMETER
- WELL POINT
- OXYGEN INFUSION WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- TREE LINE
- EDGE OF BARGE CANAL

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

0 100' 200'

GRAPHIC SCALE

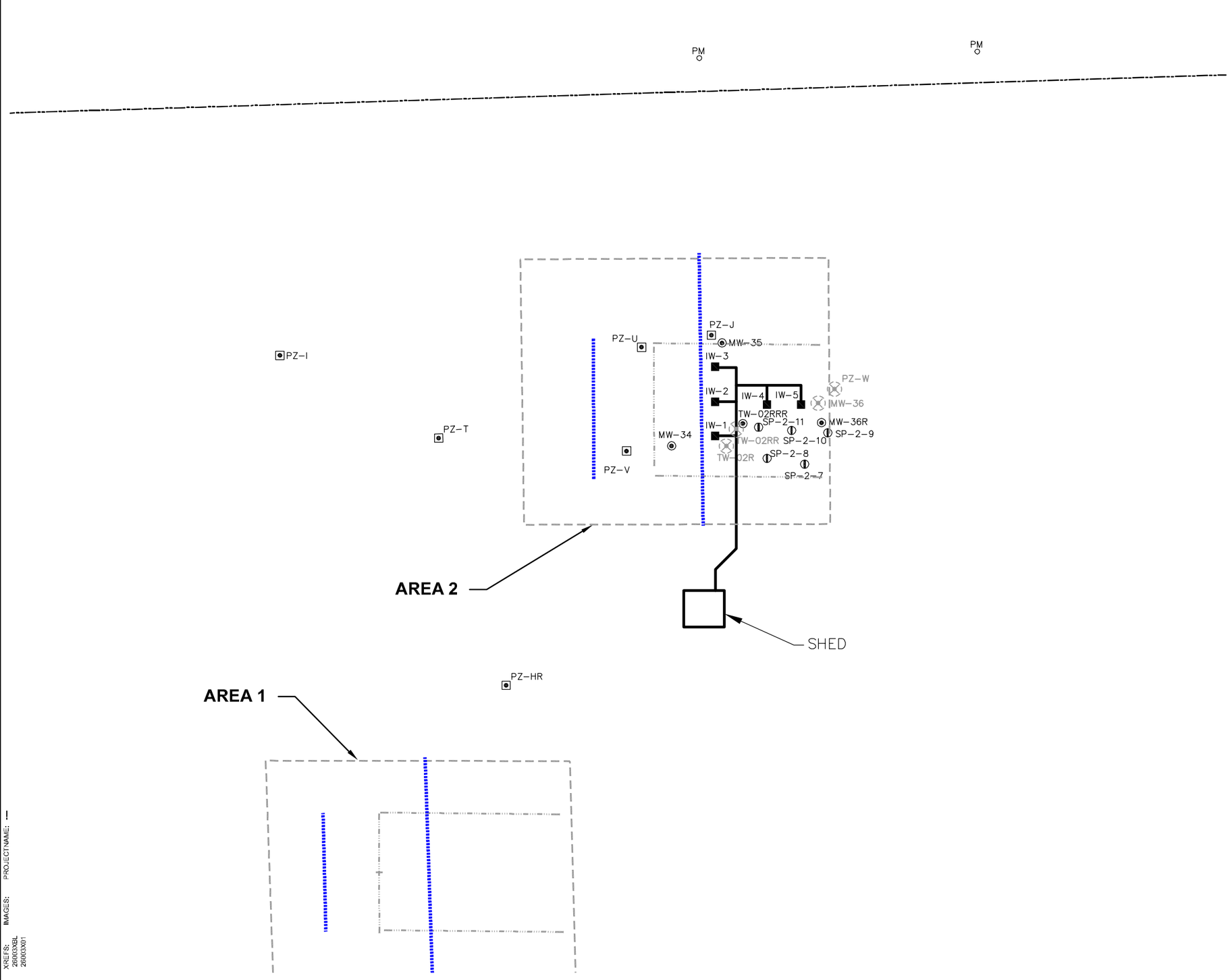
McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

SITE PLAN

ARCADIS

FIGURE 1

CITY: SYRACUS, NY DIV/GROUP: ENV/141 DB: RCA LAFGMS K. SARTORI LD: PIC: PM: B. BYRNES TM: LYR: ON=*;OFF=*REF; |AREA-HIGHER, |TREE
G:\ENVCAD\SYRACUS\EVACTIB\0026003000\00190\DWG\BIANNUAL\MARCH-2009\26003B02.DWG LAYOUT: 1 SAVED: 8/4/2011 2:41 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/4/2011 2:51 PM BY: JONES, WENDY
XREFS: 26003X01 26003XBL IMAGES: PROJECTNAME: ---



LEGEND:

- PROPERTY LINE
- PM — PETROLUEM PIPE LINE MARKER
- MW-19 — GROUNDWATER MONITORING WELL
- PZ-A — PIEZOMETER
- TW-02R — REMOVED/DECOMMISSIONED GROUNDWATER MONITORING WELL/PIEZOMETER
- IW-3 — OXYGEN INFUSION WELL
- SP-2-7 — STANDPIPE LOCATION
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH
- PVC CONDUIT CARRYING POLYURETHANE TUBES

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

0 30' 60'

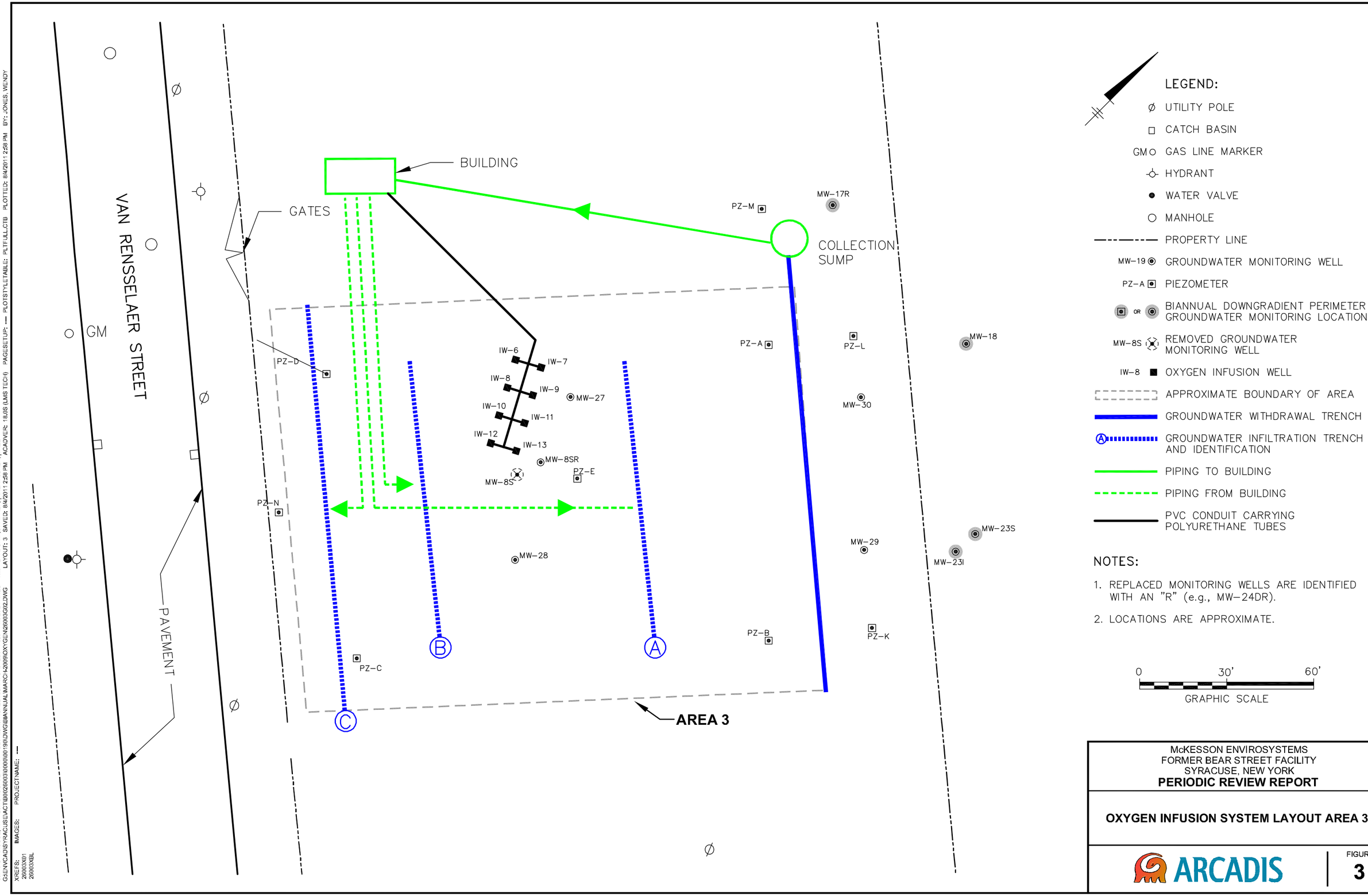
GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

OXYGEN INFUSION SYSTEM LAYOUT AREA 2

ARCADIS

FIGURE
2



LEGEND:

- UTILITY POLE
- CATCH BASIN
- GM GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-8S REMOVED GROUNDWATER MONITORING WELL
- IW-8 OXYGEN INFUSION WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- A GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- PVC CONDUIT CARRYING POLYURETHANE TUBES

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. LOCATIONS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

OXYGEN INFUSION SYSTEM LAYOUT AREA 3

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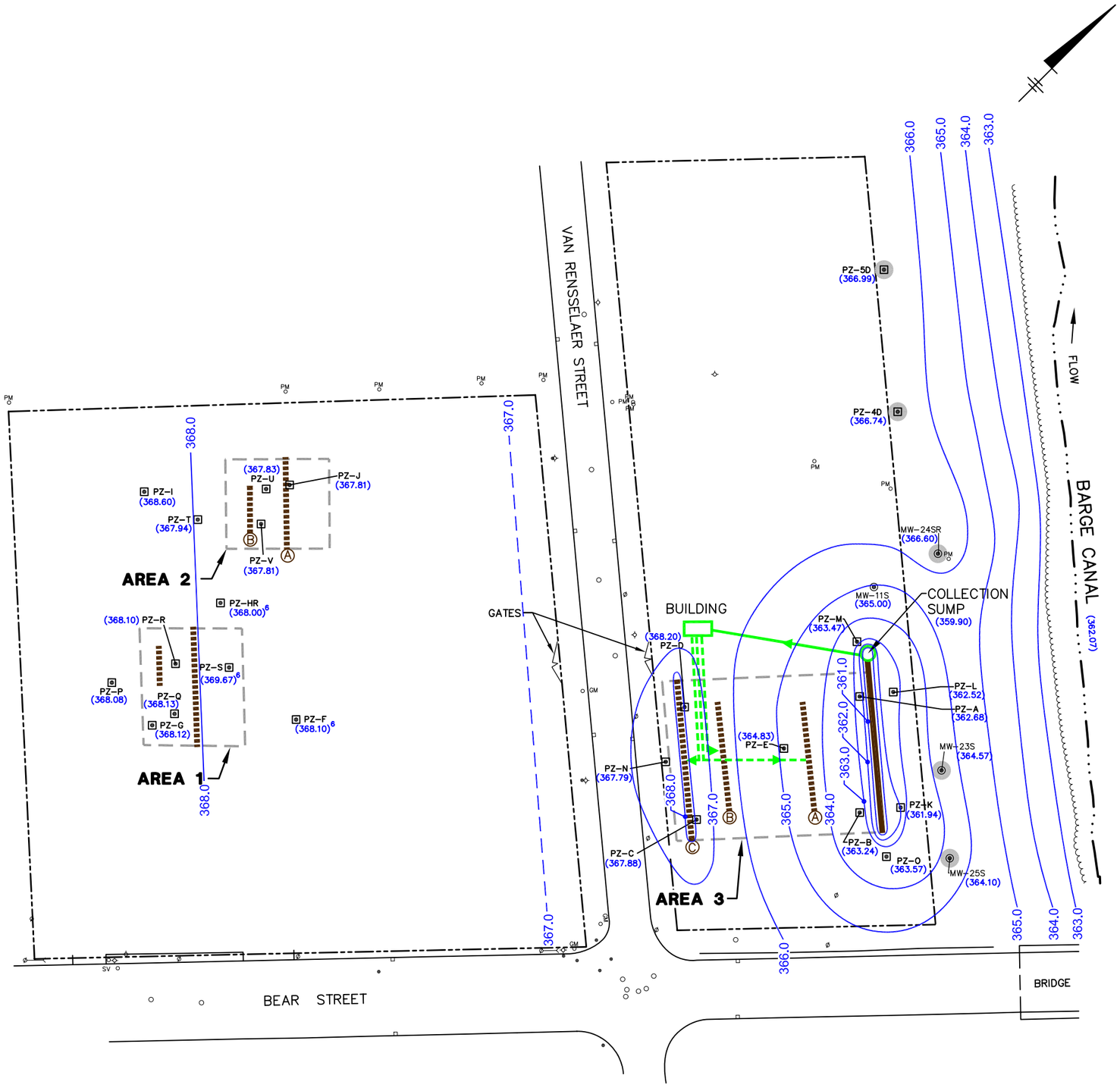
FIGURE
3

CITY: SYRACUSE, NY DIV/GROUP: ENV/41 DB: N.SMITH/GALL K.SARTORI LD: PIC: PM: B.BYRNES TM: LYR: ON=*;OFF=*REF,|AREA-HIGHER,|TREE
G:\ENV\CAD\SYRACUSE\ACTIVE\26003X0001\00190\DWG\BIANNUAL\MARCH-2009\OXYGEN26003G02.DWG LAYOUT: 3 SAVED: 8/4/2011 2:58 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/4/2011 2:58 PM BY: JONES, WENDY
XREFS: 26003X01 26003XBL IMAGES: PROJECTNAME: ---



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- TREE LINE
- EDGE OF BARGE CANAL
- PROPERTY LINE
- MW-19 — GROUNDWATER MONITORING WELL
- OR — BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- PZ-A — PIEZOMETER
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- (A) GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING
- 364.0 — POTENTIOMETRIC CONTOUR (FEET ABOVE MEAN SEA LEVEL) (DASHED WHERE INFERRED)
- (365.00) — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

NOTES:

1. ONLY THE HYDRAULIC MONITORING LOCATIONS USED TO DRAW THIS MAP ARE SHOWN.
2. REPLACED MONITORING WELLS AND PIEZOMETERS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
3. ELEVATIONS REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. THE BARGE CANAL ELEVATION WAS MEASURED FROM A MARKED POINT ON THE BEAR STREET BRIDGE.
5. CONTOUR INTERVAL = 1 FOOT.
6. GROUNDWATER ELEVATIONS AT PZ-HR, PZ-S, AND PZ-F (AREA 1) WERE NOT USED FOR CONTOURING DUE TO STANDING WATER AT THESE LOCATIONS.

0 100' 200'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

POTENTIOMETRIC SURFACE OF THE SHALLOW HYDROGEOLOGIC UNIT SAND LAYER - APRIL 4, 2011

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FIGURE 4

CITY:SYRACUSE, N.Y. GROUP: ENVCADD-141 DB:RCB, R.ALLEN, W.JONES PM: D. PENNIMAN TR: B. BYRNES LYR:ON="OFF"*REF*,(FRZ)
G:\ENVCAD\SYRACUSE\ACTIB0026003100000\001900\DWG\26003W04.DWG LAYOUT: 4 SAVED: 8/4/2011 3:19 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/4/2011 3:19 PM BY: JONES, WENDY
XREFS: 26003X01 26003XBL IMAGES: PROJECTNAME: ---

MW-35

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0	R	13	<5.0	<5.0 J	5.4	<10	6.5 J	<10 J	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	0.16 J	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	0.40 J	1.1	<5.0	<5.0	<5.0	1.1 J	<5.0	<5.0	<5.0	<5.0	<5.6
N,N-Dimethylaniline	<1.0	<1.0 J	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.1
Methanol	<1000	<500	<500	NA	NA	NA	NA	1100	<500	<500 J	<500

MW-34

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	6.4	49 J	22	<5.0	16	12 J	14	24	50 J	20	16
Benzene	0.60 J	<1.0	0.90 J	0.80 J	1.0 J	0.80 J	1.4	<1.0	0.82 J	1	1.7
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	0.50 J	0.60 J	0.50 J	0.60 J	0.50 J	0.50 J	0.70 J	0.64 J	0.42 J	0.44 J	0.74 J
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	0.60 J	0.60 J	1.1 J	1.1 J	1.1 J	1.5 J	1.7 J	1.4 J	1.3 J	2.0 J
Aniline	16	9.9	<5.0	0.30 J	24	0.60 J	12	<5.0	<5.0	1.8 J	10
N,N-Dimethylaniline	2.3	1.2 J	<1.0	1.5	1.3	1.6	2.0	2.5	2.4	2.9	2.7
Methanol	<1000	<500	<500	NA	NA	NA	NA	1000	<500	<500 J	<500

TW-01

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J	R	7.8	<5.0	<5.0 J	<5.0	<10	2.9 J	<10	<10	<10
Benzene	1.0 J	0.70 J	0.50 J	<1.0	<1.0	<1.0	1.9	<1.0	0.32 J	<1.0	0.21 J
Ethylbenzene	<4.0 J	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0 J	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	0.11 J	<1.0	<1.0	<1.0
Trichloroethene	<1.0 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	0.60 J	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0 J	<1.0	<5.0	0.20 J	<5.0	<5.6	<5.0	<5.0	<5.0	<5.3	<5.3
N,N-Dimethylaniline	0.80 J	<1.0 J	<1.0	1.1	1	<0.60	<0.50	1.1	1	1.3	<1.1
Methanol	<1000 J	<500	<500	NA	NA	NA	NA	970	<500	<500 J	<500

MW-31

Date	Jun-06	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J	NA	R	<5.0	NA	<5.0 [<5.0]	<5.0 J	22	9.4 J	<10	<10	<10	<10
Benzene	11 J	NA	6.9	14	NA	12 [10]	2.0	13	8.3	10	4.8	6.9	8.3
Ethylbenzene	<4.0 J	NA	<4.0	<4.0	NA	<4.0 [<4.0]	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0 J	NA	<3.0	<3.0	NA	<3.0 [<3.0]	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	0.60 J	NA	<5.0	0.70 J	NA	<5.0 [0.40 J]	<5.0	0.40 J	0.60 J	0.49 J	0.40 J	0.50 J	0.77 J
Trichloroethene	<1.0 J	NA	<1.0	<1.0	NA	<1.0 [<1.0]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	1.7 J	NA	<5.0	1.3 J	NA	1.1 J [1.4 J]	<5.0	2.2 J	0.80 J	2.0 J	1.3 J	1.5 J	2.5 J
Aniline	<1.0 J	1.6	0.40 J	<5.0	0.50 J	<5.0 [0.30 J]	0.20 J	<5.6	<5.0	<5.0	<5.0	<5.3	<5.3
N,N-Dimethylaniline	2.4 J	3.4	1.1 J	2.0	2.7	2.3 [2.8]	1.6	2.4	2.3	2.5	2.3	3.5	2.3
Methanol	<1000 J	NA	<500	<500	NA	NA	NA	NA	NA	730	<500	<500 J	<500

MW-9S

Date	Jun-06	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0	<5.0	<5.0 J	24 J	<200	<10	<10	<10	<10
Benzene	1.4	0.90 J	1.1	3.7	24	1.7	0.86 J	1.3	0.91 J
Ethylbenzene	42	11	37	21	550	20	26	11	29
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<20	<1.0	<1.0	<1.0	<1.0
Toluene	3.3 J	2.0 J	3.0 J	3.3 J	50	2.2	2.1	1.9	2.6
Trichloroethene	<1.0	<1.0	1.2	<1.0	<20	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	110	58	73	72	1300	70	69	45	89
Aniline	<5.0	1.7 J	0.70 J	<5.5	<5.0	<5.0	<5.0	<5.1	<5.3
N,N-Dimethylaniline	4.1	8.6	6.8	5.1	4.2	4.1	6.5	7.5	5.4
Methanol	<500	NA	NA	NA	NA	730	<500	<500 J	<500

MW-32

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J	R	<5.0	<5.0	<5.0 J	5.8	<10	<10	<10	<10	<10
Benzene	<1.0 J	<1.0	<1.0	<1.0	0.80 J	0.30 J	0.50 J	<1.0	0.23 J	<1.0	<1.0
Ethylbenzene	<4.0 J	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0 J	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0 J	0.80 J	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0 J	<1.0	<5.0	0.10 J	<5.0	<5.7	<5.0	<5.0	<5.0	<5.2	<5.3
N,N-Dimethylaniline	<1.0 J	<1.0 J	<1.0	0.8	0.8	<0.60	<0.50	1.1	0.89 J	0.87 J	<1.1
Methanol	<1000 J	<500	<500	NA	NA	NA	NA	1200	<500	<500 J	<500

MW-33

Date	Jun-06	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J	NA	NA	<5.0	NA	<5.0	<5.0 J	<5.0	<10	<10	<10	<10	<10
Benzene	6.7 J	NA	8.6	5.7	NA	4.0	4.1	3.2	3.2	2.6	1.6	1.7	0.79 J
Ethylbenzene	<4.0 J	NA	<4.0	<4.0	NA	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0 J	NA	<3.0	<3.0	NA	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	0.70 J	NA	0.70 J	0.40 J	NA	<5.0	<5.0	<5.0	<1.0	0.20 J	<1.0	<1.0	<1.0
Trichloroethene	<1.0 J	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0 J	NA	NA	<5.0	NA	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	370 J	940	84	46	46	0.10 J	<5.0	<5.9	<5.0	<5.0	<5.0	<5.1	<5.3
N,N-Dimethylaniline	3.5 J	8.0	2.9 J	2.6	4.2	3.5	4.1	2.8	2.4	<1.0	2.0	2.7	1.9
Methanol	<1000 J	NA	<500	<500	NA	NA	NA	NA	NA	<500	<500	NA	NA

TW-02RRR

Date	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Dec-07	Mar-08	Aug-08	Mar-09	Jun-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	NA	78 J	17	NA	5.5	NA	6.4 [5.2]	9.0 [9.6 J]	<10 [<10]	NA	<10 [<10]	9.5 J [12 J]	<10 [<10]	<10 [<10]
Benzene	NA	4.9	5.5	NA	5.8	NA	4.5 J [2.3 J]	4.4 [4.6]	5.0 [4.6]	NA	4.3 [4.2]	4.1 [4.0]	3.3 [3.0]	2.1 [2.0]
Ethylbenzene	NA	2.2 J	4	NA	3.0 J	NA	3.8 J [1.9 J]	2.3 J [2.4 J]	1.5 [1.6]	NA	1.2 [1.3]	1.2 [1.2]	1.0 [0.91 J]	1.2 [1.3]
Methylene Chloride	NA	<3.0	<3.0	NA	<3.0	NA	<3.0 [<3.0]	<3.0 [<3.0]	<1.0 [<1.0]	NA	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]
Toluene	NA	1.4 J	1.3 J	NA	1.2 J	NA	1.3 J [0.70 J]	1.0 J [1.1 J]	1.0 [1.0 J]	NA	0.79 J [0.81 J]	0.78 J [0.75 J]	0.82 J [0.76 J]	0.74 J [0.75 J]
Trichloroethene	NA	<1.0	<1.0	NA	<1.0	NA	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]	NA	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]	<1.0 [<1.0]
Xylenes (total)	NA	6.2	8.8	NA	7.6	NA	10 [4.8 J]	6.7 [7.0]	4.2 [4.1]	NA	3.5 [3.6]	4.2 [4.0]	3.6 [3.6]	5.2 [5.3]
Aniline	7600	2100	6800	4000 J	NA	3700	7500 [5400]	9600 [7000]	2000 [1600]	2800 J	1600 J [1500]	2800 J [3100 J]	760 [810]	1.9 J [2.1 J]
N,N-Dimethylaniline	<52	<10 J	<100	<20	NA	<25	<50 [<50]	<71 [<56]	<10 [<10]	<20 J	<10 [<10]	<20 J [<20 J]	<5.0 [2.2 J]	3.4 [3.3]
Methanol	NA	<500	<500	NA	NA	NA	NA	NA	NA	NA	1000 [1200]	<500 [<500]	<500 J [<500 J]	<500 [<500]

MW-36R

Date	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Jun-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	NA	130 J	33	NA	10	8.0 J	27	28	NA	21	<10 J	12	<10
Benzene	NA	3.6	4.8	NA	4.5	4.2	3.7	2.4	NA	3.1	3.3	3.9	4.3
Ethylbenzene	NA	<4.0	0.80 J	NA	0.90 J	0.80 J	0.60 J	<1.0	NA	<1.0	0.26 J	0.28 J	<1.0
Methylene Chloride	NA	<3.0	<3.0	NA	<3.0	<3.0	<3.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0
Toluene	NA	1.2 J	1.4 J	NA	1.7 J	1.5 J	1.4 J	0.80 J	NA	0.96 J	1.1	1.2	0.95 J
Trichloroethene	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	NA	1.1 J	5	NA	5.3	5.5	5.7	2.8 J	NA	3.2	5.4	4.8	4.4
Aniline	3.5	420	1300	740	480 J	130	4.5 J	150	460	390	77	620	310
N,N-Dimethylaniline	1.2	1.7 J	<10	<5.0	3.4 J	3.0	3.2	2.8	<5.0	3.1	2.6	<5.0	4.0
Methanol	NA	<500	<500	NA	NA	NA	NA	NA	NA	<500	<500	<500 J	NA

MW-4S

Date	Oct-10
Acetone	<10 [<10]
Benzene	<1.0 [<1.0]
Ethylbenzene	<1.0 [<1.0]
Methylene Chloride	<1.0 [<1.0]
Toluene	<1.0 [<1.0]
Trichloroethene	<1.0 [<1.0]
Xylenes (total)	<3.0 [<3.0]
Aniline	<5.0 [<5.0]
N,N-Dimethylaniline	<1.0 [<1.0]
Methanol	<500 J [<500 J]

MW-3S

Date	Jun-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.17 J	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.6	<5.0	<5.0	<5.0	<5.2	<5.3 J
N,N-Dimethylaniline	<1.0	<1.0	<0.50	<0.50	<0.60	<0.50	<0.50	<1.0	<1.0	<1.1 J
Methanol	<1000	<500	NA	NA	NA	NA	<500	<500	NA	NA

NYSDEC GQS

Acetone	50
Benzene	1
Ethylbenzene	5
Methylene Chloride	5
Toluene	5
Trichloroethene	5
Xylenes (total)	5
Aniline	5
N,N-dimethylaniline	1
Methanol	NS

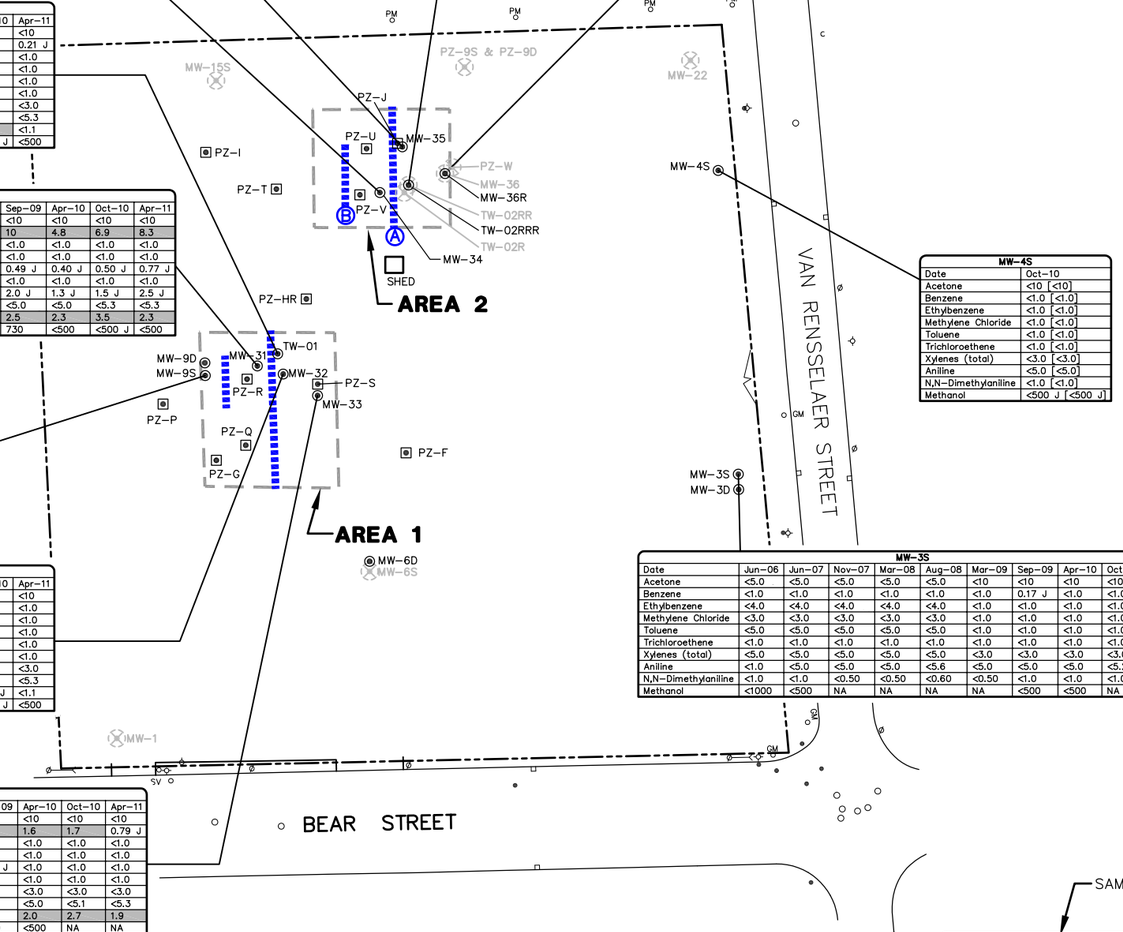
DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

SAMPLE IDENTIFICATION

MW-##

Date	Sep-06	Nov-06	Jun-07
Acetone	NA	130 J	33
Benzene	NA	3.6	4.8
Ethylbenzene	NA	<4.0	0.80 J
Methylene Chloride	NA	<3.0	<3.0
Toluene	NA	1.2 J	1.4 J
Trichloroethene	NA	<1.0	<1.0
Xylenes (total)	NA	1.1 J	5
Aniline	3.5	420	1300
N,N-Dimethylaniline	1.2	1.7 J	<10
Methanol	NA	<500	<500

CONCENTRATION (ppb)



LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER
- GAS LINE MARKER
- SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- GROUNDWATER MONITORING WELL (TW-02RRR)
- PIEZOMETER (PZ-A)
- REMOVED/DECOMMISSIONED GROUNDWATER MONITORING WELL/PIEZOMETER (TW-02R)
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR THAT HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURES 1 AND 3).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. NA = COMPOUND WAS NOT ANALYZED FOR IN THE SAMPLE.
8. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. THE 9/06, 8/07 AND 6/09 SAMPLING EVENTS WERE INTERIM SAMPLING EVENTS, ANALYZING FOR ANILINE & N,N-DIMETHYLANILINE ONLY.
11. DATA VALUES FOR ANILINE AND N,N-DIMETHYLANILINE AT TW-02RRR PRESENTED WITH THE 11/07 DATA ARE THE RESULTS OF SAMPLES COLLECTED AT TW-02RR IN 12/07. THE ORIGINAL SAMPLE COLLECTED IN 11/07 WAS DAMAGED AND HAD TO BE RESAMPLED.
12. SAMPLE DATA ARE COMPARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GROUNDWATER QUALITY STANDARDS (GQS) (TECHNICAL AND OPERATIONAL GUIDANCE SERIES 1.1.1).
13. NS – STANDARD NOT AVAILABLE.

0 100' 200'

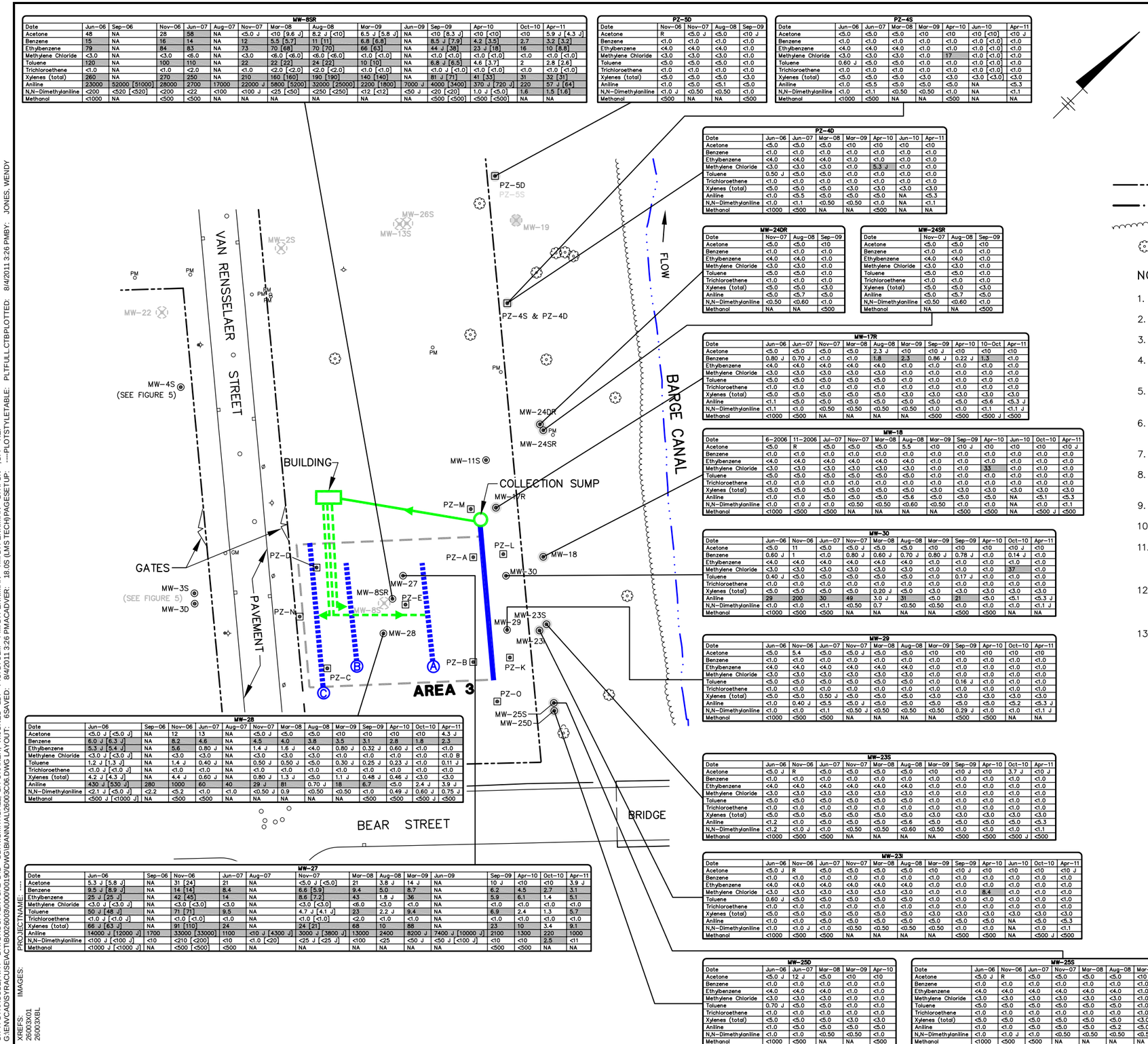
GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR SEPTEMBER 2006 - APRIL 2011 AREAS 1 & 2 (AEROBIC TREATMENT)

ARCADIS

FIGURE 5



MW-8SR

Date	Jun-06	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Jun-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	48	NA	28	58	NA	<5.0 J	<10 [9.6 J]	8.2 J [<10]	6.5 J [5.8 J]	NA	<10 [8.3 J]	<10 [<10]	<10	5.9 J [4.3 J]
Benzene	15	NA	16	14	NA	12	5.5 [5.7]	11 [11]	6.8 [6.8]	NA	8.5 J [7.9]	4.2 [3.5]	2.7	3.2 [3.2]
Ethylbenzene	79	NA	84	83	NA	73	70 [68]	70 [70]	66 [63]	NA	44 J [38]	23 J [18]	16	10 [8.8]
Methylene Chloride	<3.0	NA	<3.0	<6.0	NA	<3.0	<6.0 [<6.0]	<6.0 [<6.0]	<1.0 [<1.0]	NA	<1.0 [<1.0]	<1.0 [<1.0]	<1.0	<1.0 [<1.0]
Toluene	120	NA	100	110	NA	22	22 [22]	24 [22]	10 [10]	NA	6.8 J [6.5]	4.6 [3.7]	2	2.8 [2.6]
Trichloroethene	<1.0	NA	<1.0	<2.0	NA	<1.0	<2.0 [<2.0]	<2.0 [<2.0]	<1.0 [<1.0]	NA	<1.0 J [<1.0]	<1.0 [<1.0]	<1.0	<1.0 [<1.0]
Xylenes (total)	260	NA	270	250	NA	210	160 [160]	190 [190]	140 [140]	NA	81 J [71]	41 [33]	31	32 [31]
Aniline	23000	52000 [51000]	28000	2700	17000	22000 J	5800 [5200]	32000 [25000]	2200 [1800]	7000 J	4000 [3400]	370 J [720 J]	220	57 J [64]
N,N-Dimethylaniline	<200	<520 [<520]	<200	<22	<100	<100 J	<25 [<50]	<250 [<250]	<12 [<12]	<50 J	<20 [<20]	1.0 J [<5.0]	1.6	1.5 [1.6]
Methanol	<1000	NA	<500	<500	NA	NA	NA	NA	NA	NA	<500 [<500]	<500 [<500]	NA	NA

PZ-5D

Date	Nov-06	Nov-07	Aug-08	Sep-09
Acetone	R	<5.0 J	<5.0	<10 J
Benzene	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<1.0
Toluene	<5.0	<5.0	<5.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<3.0
Aniline	<1.0	<5.0	<5.0	<5.0
N,N-Dimethylaniline	<1.0 J	<0.50	<0.50	<1.0
Methanol	<500	NA	NA	<500

PZ-4S

Date	Jun-06	Jun-07	Mar-08	Mar-09	Apr-10	Jun-10	Apr-11
Acetone	<5.0	<5.0	<5.0	<10	<10	<10 [<10]	<10 J
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0 [<1.0]	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<1.0	17	<1.0 [<1.0]	<1.0
Toluene	0.60 J	<5.0	<5.0	<1.0	<1.0	<1.0 [<1.0]	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0 [<3.0]	<3.0
Aniline	<1.0	<5.5	<5.0	<5.0	<5.0	NA	<5.3
N,N-Dimethylaniline	<1.0	<1.1	<0.50	<0.50	<1.0	NA	<1.1
Methanol	<1000	<500	NA	NA	<500	NA	NA

PZ-4D

Date	Jun-06	Jun-07	Mar-08	Mar-09	Apr-10	Jun-10	Apr-11
Acetone	<5.0	<5.0	<5.0	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<1.0	5.3 J	<1.0	<1.0
Toluene	0.50 J	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	<5.5	<5.0	<5.0	<5.0	NA	<5.3
N,N-Dimethylaniline	<1.0	<1.1	<0.50	<0.50	<1.0	NA	<1.1
Methanol	<1000	<500	NA	NA	<500	NA	NA

MW-24DR

Date	Nov-07	Aug-08	Sep-09
Acetone	<5.0	<5.0	<10
Benzene	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<1.0
Methylene Chloride	<3.0	<3.0	<1.0
Toluene	<5.0	<5.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<3.0
Aniline	<5.0	<5.7	<5.0
N,N-Dimethylaniline	<0.50	<0.60	<1.0
Methanol	NA	NA	<500

MW-24SR

Date	Nov-07	Aug-08	Sep-09
Acetone	<5.0	<5.0	<10
Benzene	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<1.0
Methylene Chloride	<3.0	<3.0	<1.0
Toluene	<5.0	<5.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<3.0
Aniline	<5.0	<5.7	<5.0
N,N-Dimethylaniline	<0.50	<0.60	<1.0
Methanol	NA	NA	<500

MW-17R

Date	Jun-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	10-Oct	Apr-11
Acetone	<5.0	<5.0	<5.0	2.3 J	<10	<10	<10 J	<10	<10	<10
Benzene	0.80 J	0.70 J	<1.0	<1.0	1.8	2.3	0.86 J	0.22 J	1.3	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.6	<5.3 J
N,N-Dimethylaniline	<1.1	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.1	<1.1 J
Methanol	<1000	<500	NA	NA	NA	NA	<500	<500	<500 J	<500

MW-18

Date	6-2006	11-2006	Jul-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Jun-10	Oct-10	Apr-11
Acetone	<5.0	R	<5.0	<5.0	<5.0	5.5	<10	<10 J	<10	<10	<10	<10 J
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	33	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	<1.0	<5.0	<5.0	<5.0	<5.6	<5.0	<5.0	<5.0	NA	<5.1	<5.3
N,N-Dimethylaniline	<1.0	<1.0 J	<1.0	<0.50	<0.50	<0.60	<0.50	<1.0	<1.0	NA	<1.0	<1.1
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500	NA	<500 J	<500

MW-30

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0	11	<5.0	<5.0 J	<5.0	<5.0	<10	<10	<10	<10 J	<10
Benzene	0.60 J	1	<1.0	0.80 J	0.60 J	0.70 J	0.80 J	0.78 J	<1.0	0.14 J	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	37	<1.0
Toluene	0.40 J	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	0.17 J	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	0.20 J	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	29	200	30	49	3.0 J	31	<5.0	21	<5.0	<5.1	<5.3 J
N,N-Dimethylaniline	<1.0	<1.0	<1.1	<0.50	0.7	<0.50	<0.50	<1.0	<1.0	<1.0	<1.1 J
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500	NA	NA

MW-29

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0	5.4	<5.0	<5.0 J	<5.0	<5.0	<10	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	0.16 J	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	0.50 J	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	0.40 J	<5.5	<5.0 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.2	<5.3 J
N,N-Dimethylaniline	<1.0	<1.0	<1.1	<0.50 J	<0.50	<0.50	<0.50	0.29 J	<1.0	<1.0	<1.1 J
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500	NA	NA

MW-23S

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J	R	<5.0	<5.0	<5.0	<5.0	<10	<10 J	<10	3.7 J	<10 J
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.2	<1.0	<5.0	<5.0	<5.0	<5.6	<5.0	<5.0	<5.0	<5.0	<5.3
N,N-Dimethylaniline	<1.2	<1.0 J	<1.0	<0.50	<0.50	<0.60	<0.50	<1.0	<1.0	<1.0	<1.1
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500	<500 J	<500

MW-23I

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Jun-10	Oct-10	Apr-11
Acetone	<5.0 J	R	<5.0	<5.0	<5.0	<5.0	<10	<10 J	<10	<10	<10	<10 J
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	8.4	<1.0	<1.0	<1.0
Toluene	0.60 J	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	<5.0	<5.3
N,N-Dimethylaniline	<1.0	<1.0 J	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	NA	<1.0	<1.1
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500	NA	<500 J	<500

MW-25D

Date	Jun-06	Jun-07	Mar-08	Mar-09	Apr-10
Acetone	<5.0 J	12 J	<5.0	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<1.0	<1.0
Toluene	0.70 J	<5.0	<5.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<3.0	<3.0
Aniline	<1.0	<5.0	<5.0	<5.0	<5.0
N,N-Dimethylaniline	<1.0	<1.0	<0.50	<0.50	<1.0
Methanol	<1000	<500	NA	NA	<500

MW-25S

Date	Jun-06	Nov-06	Jun-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10
Acetone	<5.0 J	R	<5.0	<5.0	<5.0	<5.0	<10	<10 J	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0
Toluene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0
Aniline	<1.0	<1.0 J	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0
N,N-Dimethylaniline	<1.0	<1.0 J	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0
Methanol	<1000	<500	<500	NA	NA	NA	NA	<500	<500

MW-28

Date	Jun-06	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	<5.0 J [<5.0 J]	NA	12	13	NA	<5.0 J	<5.0	<5.0	<10	<10	<10	<10	4.3 J
Benzene	6.0 J [6.3 J]	NA	8.2	4.6	NA	4.5	4.0	3.8	3.5	3.1	2.8	1.8	2.3
Ethylbenzene	5.3 J [5.4 J]	NA	5.6	0.80 J	NA	1.4 J	1.6 J	<4.0	0.80 J	0.32 J	0.60 J	<1.0	<1.0
Methylene Chloride	<3.0 J [<3.0 J]	NA	<3.0	<3.0	NA	<3.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0 B
Toluene	1.2 J [1.3 J]	NA	1.4 J	0.40 J	NA	0.50 J	0.50 J	<5.0	0.30 J	0.25 J	0.23 J	<1.0	0.11 J
Trichloroethene	<1.0 J [<1.0 J]	NA	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	4.2 J [4.3 J]	NA	4.4 J	0.60 J	NA	0.80 J	1.3 J	<5.0	1.1 J	0.48 J	0.46 J	<3.0	<3.0
Aniline	430 J [530 J]	280	1000	60	40	29 J	81	0.70 J	18	6.7	<5.0	2.4 J	3.9 J
N,N-Dimethylaniline	<2.1 J [<5.0 J]	<2.2	<5.2	<1.0	<1.0	<0.50 J	0.9	<0.50	<0.50	<1.0	0.49 J	0.60 J	0.75 J
Methanol	<500 J [<1000 J]	NA	<500	<500	NA	NA	NA	NA	NA	<500	<500	<500 J	<500

MW-27

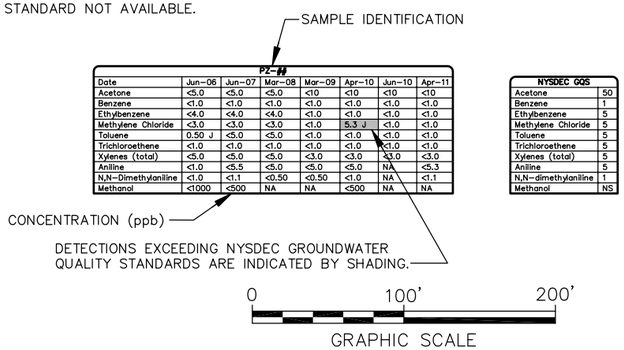
Date	Jun-06	Sep-06	Nov-06	Jun-07	Aug-07	Nov-07	Mar-08	Aug-08	Mar-09	Jun-09	Sep-09	Apr-10	Oct-10	Apr-11
Acetone	5.3 J [5.8 J]	NA	31 [24]	21	NA	<5.0 J [<5.0]	21	3.8 J	14 J	NA	10 J	<10	<10	3.9 J
Benzene	9.5 J [8.9 J]	NA	14 [14]	8.4	NA	6.6 [5.9]	9.4	5.0	8.7	NA	6.2	4.5	2.7	3.1
Ethylbenzene	25 J [25 J]	NA	42 [45]	14	NA	8.6 [7.2]	43	1.8 J	36	NA	5.9	6.1	1.4	5.1
Methylene Chloride	<3.0 J [<3.0 J]	NA	<3.0 [<3.0]	<3.0	NA	<3.0 [<3.0]	<6.0	<3.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0
Toluene	50 J [48 J]	NA	71 [71]	9.5	NA	4.7 J [4.1 J]	23	2.2 J	9.4	NA	6.9	2.4	1.3	5.7
Trichloroethene	<1.0 J [<1.0 J]	NA	<1.0 [<1.0]	<1.0	NA	<1.0 [<1.0]	<2.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	66 J [63 J]	NA	91 [110]	24	NA	24 [21]	68	10	88	NA	23	10	3.4	9.1
Aniline	14000 J [12000 J]	1700	33000 [33000]	1100	<10 J [4300 J]	3000 J [3800 J]	13000	2400	8200 J	7400 J [10000 J]	2100	1300	220	1000
N,N-Dimethylaniline	<100 J [<100 J]	<10	<210 [<200]	<10	<1.0 [<20]	<25 J [<25 J]	<100	<25	<50 J	<50 J [<100 J]	<10	<10	2.5	<11
Methanol	<1000 J [<1000 J]	NA	<500 [<500]	<500	NA	NA	NA	NA	NA	NA	<500	<500	NA	NA

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PMO PETROLEUM PIPE LINE MARKER
- GMO GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY
- LINE EDGE OF WATER
- EDGE OF TREELINE
- TREE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- OR BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- MW-8S REMOVED/DECOMMISSIONED GROUNDWATER MONITORING WELL/PIEZOMETER
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH AND IDENTIFICATION
- PIPING TO BUILDING
- PIPING FROM BUILDING

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURES 2 AND 4).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. NA = COMPOUND WAS NOT ANALYZED FOR IN THE SAMPLE.
8. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. B = COMPOUND WAS FOUND IN ASSOCIATED METHOD BLANK.
11. THE 9/06, 8/07 AND 6/09 SAMPLING EVENTS WERE INTERIM SAMPLING EVENTS, ANALYZING FOR ANILINE & N,N-DIMETHYLANILINE ONLY. THE 6/10 SAMPLING EVENT WAS AN INTERIM SAMPLING EVENT ANALYZING FOR VOLATILE ORGANIC COMPOUNDS ONLY.
12. SAMPLE DATA ARE COMPARED TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) GROUNDWATER QUALITY STANDARDS (GQS) (TECHNICAL AND OPERATIONAL GUIDANCE SERIES 1.1.1).
13. NS – STANDARD NOT AVAILABLE.



PZ-##

Date	Jun-06	Jun-07	Mar-08	Mar-09	Apr-10	Jun-10	Apr-11
Acetone	<5.0	<5.0	<5.0	<10	<10	<10	<10
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<4.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<3.0	<3.0	<3.0	<1.0	5.3 J	<1.0	<1.0
Toluene	0.50 J	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	<5.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0
Aniline	<1.0	<5.5	<5.0	<5.0	<5.0	NA	<5.3
N,N-Dimethylaniline	<1.0	<1.1	<0.50	<0.50	<1.0	NA	<1.1
Methanol	<1000	<500	NA	NA	<500	NA	NA

NYSDEC GQS

Acetone	50
Benzene	1
Ethylbenzene	5
Methylene Chloride	5
Toluene	5
Trichloroethene	5
Xylenes (total)	5
Aniline	5
N,N-dimethylaniline	1
Methanol	NS

0 100' 200'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK

PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR SEPTEMBER 2006 - APRIL 2011 AREA 3 (AEROBIC TREATMENT)

ARCADIS

FIGURE 6

CITY: SYRACUSE, N.Y. DIVGROUP: ENVCAD-141 DB: N.SMITHGALL, L. FORAKER, W.JONES LD: PIC: D. ULM PM: D. PENNIMAN TM: D. PENNIMAN
G:\ENVCAD\SYRACUSE\ACTIB\00260\03000\001\190\DWG\BIANNUAL\26003C06.DWG LAYOUT: 6SAVED: 8/4/2011 3:26 PMACADVER: 18.0S (LMS TECH) PAGESETUP: ---PLOTSTYLETABLE: PLTFULL.CTBPLOTTED: 8/4/2011 3:26 PMBY: JONES, WENDY
PROJECTNAME: ----
IMAGES:
XREFS:
26003X01
26003XBL

ARCADIS

Attachment A

Table 1. Summary of Historical Groundwater Monitoring Data

Table 2. Summary of Historical Groundwater Level Measurements

Figures 1 – 4. Groundwater Monitoring Data Summaries

Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-1	3/88	370.3	355.3	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			**0.7 JN**	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			**8 J**	<10 J	**3 J**	<10 J	**5.0 J**	<1,000	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	**10**
	9/01			<10	<10	<10	<10	<10	<1,000 J	<10	<10	<10	<10
	4/02			<12	<5.0	<5.0	<5.0	<10	**990 J**	<5	<5	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**2 J**	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	**0.2 J**	<1.0	<3.0
	11/05			<1.3 J	<0.3	<0.4	<0.5	<0.5	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0 J	<1.0 J	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	<1.0 J	<3.0 J
MW-2S	3/88	368.1	353.1	<1,000	**1,900**	**110**	**610**	**2,800**	<1,000	<10	<10	<10	<10
	1/89			<1,000	**2,000**	**65**	**330**	**1,200**	<1,000	<10	<11	<11	<10
	11/89			<1,000	**1,800**	<100	**360**	**810**	**38,000**	<100	<100	<100	<100
MW-3S	3/88	365.1	350.1	<100	<1	<1	<1	<1	<1,000	**50**	<10	<10	**110**
	1/89			<10,000	<100	**120**	<100	<100	<1,000	**1,100**	<11	**5,570**	**4,700**
	11/89			<10,000	<100	<100	<100	<100	<1,000	**100**	<52	**440**	**2,700**
	11/91			**2,900**	**10**	**10**	**4.0**	**31**	<1,000	<10	**790**	**170**	<10
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5.0	**15**	**2.0 J**	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10	**1 J**	**0.7 J**	<10	<10	<1,000	<10	**3 J**	<10	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10	<10	<10
	9/00			<10 J	**1 J**	**2 J**	<10 J	<10 J	<1,000	<10 J	**2 J**	**1 J**	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	**3 J**	**8 J**	**1 J**	**2 J**	<1,000 J	<10	**690 D (69)[B]**	**4 J**	<10
	4/02			<12	<5	<5	<5	<10	**370 J**	<5.0	**1.7 J**	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**4 J**	<5	<5
	6/04			**6.0 J**	<10	<10	<10	<20	<1,000	<10	**0.8 J**	<6	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-3S	11/04			<25	<10	<10	<10	<20	**150 J**	<10	**4 J**	<5.0	<10
(cont'd)	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	**15**	<1.0	<3.0
	11/05			<1.3 J	<0.3	<0.4	<0.5	<0.4	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-3D	8/95	343.8	339	<1,000	<25 D	<25 D	<25 D	<25 D	<1,000	<25 D	**1 J**	**5 J**	**200 D**
MW-4S	3/88	365.5	350.5	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	<11	**19**	**280**
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-5[C]	3/88	363.3	348.3	<100	<1	<1	<1	<1	<1,000	<1	**230**	**130**	<1
	1/89			<100	<1	<1	<1	<1	<1,000	<1	**34**	<11	<1
	11/89			<100	<1	<1	<1	<1	<1,000	<1	**17**	<10	<1
MW-6[D]	1/89	365.5	355.9	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
(Replaced by MW-6S)	11/89			<10	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
MW-7[D]	1/89	367	357.4	<100	<1	<1	<1	**2**	<1,000	<1	<11	<11	**100**
	11/89			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-8[D]	1/89	364.7	355.1	<1,000,000	<10,000	<10,000	<10,000	<10,000	**430,000**	<10,000	**2,900**	**24,000**	**3,200,000**
(Replaced by MW-8S)[E]	11/89			**470,000**	<10,000	<10,000	<10,000	<10,000	**300,000**	<10,000	**8,500**	**52,000**	**2,800,000**
	11/91			<1,000,000	<10,000	<10,000	<10,000	<30,000	**150,000**	<10,000	**8,000**	**33,000**	**1,600,000**
	8/95			<1,000	<250,000D	<250,000D	<250,000D	<250,000D	**22,000**	**60,000 JD**	<25,000D	**380,000 D**	**7,700,000 D**
	9/98			<10,000 J	<10,000	<10,000	<10,000	<10,000	**7,900**	**3,300 J**	**1,200 J**	**26,000 D**	**140,000**
	2/99			<20,000	<20,000	<20,000	<20,000	<20,000	**16,000JN**	**11,000 J**	**30,000 D**	**120,000 D**	**650,000 DB**
	7/99			**10 J**	**22 J**	**240 J**	**58 J**	**220 J**	**17,000**	**11,000 J**	**24,000**	**77,000**	**450,000 D**
	3/00			<100,000	<100,000	<100,000	<100,000	<100,000	**30,000 J**	<100,000	**62,000**	**270,000 D**	**1,300,000**
	9/00			<50,000 J	<50,000 J	<50,000 J	<50,000 J	<50,000 J	**14,000 J**	**9,200 J**	**42,000 J**	**59,000**	**540,000 BJ**
	3/01			<50,000	<50,000	<50,000	<50,000	<50,000	**53,000**	**11,000 J**	**90,000 D**	**120,000 D**	**990,000**
	9/01			<400	<400	**430**	**170 J**	**680**	**8,900 J**	**18,000 JD**	**21,000**	**29,000**	**440,000 BD**
	4/02			**2,100**	**50 J**	**410**	**100 J**	**400**	<1,000	**9,600 J**	**793,000 D**	**773,000 D**	**660,000 D**
	10/02			**120 J**	**23**	**310**	**73**	**267**	<1,000	**3,100**	**80,000**	**21,000 J**	**320,000**
	5/03			<12	**20 J**	**600 D**	**81**	**300**	<1,000	**6,700 D**	**79,000 D**	**29 J**	**910,000 D**
	10/03			**21**	**25**	**330 D**	**93**	**360**	**1,200 J**	**3,100 D**	**67,000 D**	**24,000 D**	**400,000 D**
	6/04			<25	**40**	**330 EJ**	**110**	**400**	<1,000	**5,900 D**	**56,000**	**51,000**	**1,200,000 D**
MW-8SR	11/04	362.7	352.7	<1,200	<500	**100 DJ**	<500	**164 DJ**	<1,000	<500	**35,000 D**	**5,300 D**	**10,000 D**
	6/05			**81 J**	**13**	**100**	**53**	**180**	<1,000	<1.0	**30,000**	<200	<3.0
	11/05			**15 J**	**13**	**130**	**66**	**260**	<1,000	<1.0	**32,000**	<260 J	<3.0
	6/06			**48**	**15**	**120**	**79**	**260**	<1,000	<1.0	**23,000**	<200	<3.0
MW-9[D]	1/89	365.6	356	**1,600**	NA	**64**	**130**	**270**	<1,000	<10	**660**	**1,200**	**1,500**
(Replaced by MW-9S)	11/89			<1,000	**48**	**25**	**60**	**60**	<1,000	<10	**670**	**150**	<10
	11/91			<100	<10	**9**	**19**	**30**	<1,000	<1.0	**95**	**18**	<1
	8/95			<1,000	**11 JD**	**26 JD**	**69 D**	**226 JD**	<1,000	<50	**50**	**28**	**110 D**
	7/99			<10	**4 J**	**2 J**	**9 J**	**18**	<1,000	<10	<10	**5.0 J**	<10

See notes on page 15.

Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-9[D]	3/00			<10	**2 J**	**2 J**	**11**	**21**	<1,000 J	<10	**2.0 J**	**9.0 J**	<10
(cont'd)	9/00			<10 J	**11 J**	**2 J**	**6.0 J**	**18 J**	<1,000	<10 J	**1.0 J**	**6.0 J**	<10 J
	3/01			<10	**1 J**	**3 J**	**17**	**61**	<1,000	<10	**2.0 J**	**11**	<10
	9/01			<10	**10**	**3 J**	**7.0 J**	**35**	<1,000 J	<10	<10	**10**	<10
	4/02			<23	**10**	**2 J**	**6**	**17 J**	**370 J**	<5	**9**	**43**	<5
	10/02			**16 J**	**38**	**40**	**2 J**	**15 J**	<1,000	<10	<5.0	**2.0 J**	<10
	5/03			<12	**11**	**<5**	**7**	**18**	<1,000	<5.0	**0.9 J**	**3.0 J**	<5
	10/03			<12	**2 J**	<5	**5**	**19**	<1,000	<5.0	**1.0 J**	<5.0	<5
	6/04			**14 J**	**6 J**	**2.0 J**	**8 J**	**19 J**	<1,000	<10	<5.0	<5.0	<10
	11/04			<25	**4 J**	**2 J**	**9 J**	**30 J**	<1,000	<10	<5.0	<5.0	<10
	6/05			**44 J**	**1.9**	**3.2 J**	**24**	**64**	<1,000	<1.0	**2.6**	**1.9**	<3.0
	11/05			<1.3 J	**3.5**	**3.8**	**11**	**33**	<1,000	<0.4	**1.4**	**6.1 J**	<0.5
	6/06			<5.0 J	**1.1 J**	**2.3 J**	**25 J**	**60 J**	<1,000 J	<1.0 J	<1.1 J	**3.8 J**	<3.0 J
MW-10[D]	1/89	355.5	345.9	<1,000,000	<10,000	<10,000	<10,000	<10,000	**210,000**	<10,000	**720**	**9,400**	**520,000**
(Replaced by MW-9D)	11/89			<100,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	**900**	**2,400**	**28,000**
	11/91			<100	<1	**3.0**	**2.0**	<3.0	<1,000	<1	**230**	<10	**41**
	8/95			<1,000	<25 UD	<25 UD	<25 UD	<25 UD	<1,000	<25 UD	<5.0	<10	**350 D**
MW-11[D]	1/89	355.1	345.5	<100	<1	<1	<1	<1	**8,400**	<1	<12	<12	**1**
(Replaced MW-6D)	11/89			<100	<1	<1	<1	<1	<1,000	<1	**230**	<52	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
MW-11S	12/94	359.9	354.9	<380	<10	<10	<10	<10	**880**	<10	<5	<10	<10
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<26
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
MW-11D	12/94	349.8	344.8	<310	<5	<5	<5	<5	**2,100**	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
MW-12D[D]	1/89	354.8	345.2	<100,000	<1,000	<1,000	<1,000	<1,000	**12,000**	<1,000	**67**	**410**	**120,000**
(Replaced MW-8D)[E]	11/89			**69,000**	<1,000	<1,000	<1,000	<1,000	**39,000**	<1,000	<1,000	**4,900**	**360,000**
	11/91			<1,000,000	<10,000	<10,000	<10,000	<30,000	<10,000	<10,000	**750**	**5,800**	**220,000**
	8/95			<1,000	**450 JD**	**430 JD**	**430 JD**	**1,250 JD**	<1,000	<1,300 D	**30 D**	**230 D**	<13,000 D
	8/96			**13**	<10	<10	<10	<10	<1,000	**2.0 J**	<5	<10	**40**
MW-13S	11/89	368.7	359.1	<100	**3**	<1	<1	<1	<1,000	<1.0	<52	<52	<1.0
	11/90			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/91			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/92			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
MW-14D[C]	1/89	359	349.4	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<10	<10	<1.0
MW-15S	1/89	370	360.25	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<52	<52	<1.0
MW-16D[C]	1/89	350.8	341.2	<100	<1	<1	<1	<1	<1,000	<1.0	<11	<11	<1.0
	11/89			<100	<1	<1	<1	<1	<1,000	<1.0	<10	<10	<1.0

See notes on page 15.

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-17[C]	11/90	365.7	356.1	<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
(Replaced by MW-17R)	11/91			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	11/92			<100	<1	<1	<1	<3	<1,000	<1.0	<10	<10	<1.0
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<11
	10/95			NA	<5	<5	<5	<5	NA	**2 J**	NA	NA	<5
	8/96			**11**	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	**1 J**	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	**8 J**	<10	<10	<10	<1,000 J	<10	<5.0	<10	<10
	9/00			<10 J	**15 J**	<10 J	<10 J	<10 J	<1,000 J	<10 J	**24 J**	**4 J**	**1 J**
	3/01			<10	**8 J**	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	**5 J**	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	**6**	<5	<5	<10	**620 J**	<5	**150** (<5)[F]	**110** (<5)[F]	<5
	10/02			<25 J	**14**	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	**8**	<5	<5	<5	<1,000	<5	<5	<5	<5
	11/03			<12	**7**	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	**5 J**	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	**200 J**	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	**0.8 J**	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
MW-18	11/89	325.15	316.15	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10

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Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-18	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
(cont'd)	4/02			<10	<10	<10	<10	<20	**720 J**	<10	**280 D** (<5)[F]	**200 D** (<5)[F]	<10
	10/02			**6 J**	<10	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	**280 J**	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**0.7 J**	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	R	R	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-19	11/89	318.45	309.45	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<12
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	**5 J**	<11
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	10/03			<11	<5	<5	<5	<10	<1,000	<5	**51 J**	**16 J**	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-20[C]	11/89	329.85	320.85	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
MW-21[C]	11/89	323.65	314.65	<100	<5	<1	<1	<1	<1,000	<1	<10	<10	<1
MW-22	11/89	368.55	359.55	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-23S	12/94	364.1	354.1	<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	**7**	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	**11**	<10	<10
	8/97			**12**	<10	<10	<10	<10	<1,000	<10	**92**	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	**56**[H]	**7 J**	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	**10**	<10 J
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	**2 J**	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	**2 J**	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	**2 J**	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<62	<25	<25	<25	<50	**380 J**	<25	<5	<5	<25
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**60**	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.2	<1.2	<3.0
MW-23I	12/94	341.2	336.2	<10	<5.0	<5	<5.0	<5.0	<200	<5.0	<5.0	<10	<5
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<11	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			**4 J**	<10	<10	<10	**2 J**	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	**2 J**
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	10/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	**1 J**	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-23I	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
(cont'd)	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	**0.6 J**	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-24S[C]	12/94	358.4	352.4	<10	<5	<5	<5	<5	<1,000	<5	<5	<10	<5
(Replaced by MW-24SR)	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	<10 J	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	3/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/02[F]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**16**	<6	<5
	6/04[J]			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
MW-24D[C]	12/94	334.4	341.2	<10	<5	<5	<5	<5	<1,000	<5	<5	<10	<5
(Replaced by MW-24DR)	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<10
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<10
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/02[F]			NS	NS	NS	NS	NS	NS	NS	ND	ND	NS
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**0.5 J**	<5	<5
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5 J	<1	<5	<4	<5	<1,000	<1	<1	<1	<3
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1 J	<3.0
MW-25S	8/95	361.2	356.2	<1,000	<5	<5	<5	<5	<1,000	<5	<5	**0.7 J**	<10
	10/95			NA	<5	<5	<5	<5	NA	<5	<5	<10	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	**130**	<10	<10 J
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	**110 J**	**21 J**	<10 J
	7/99			<10 J	<10	<10	<10	<10	<1,000	<10	**5 J**	<10	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-25S	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
(cont'd.)	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	11/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-25D	8/95	349.55	344.55	<1,000	<5	<5	<5	<5	<1,000	<5	<5	**1 J**	<5
	10/95			NA	<5	<5	<5	<5	NA	**3 J**	<5	<10	<5
	8/96			**15**	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<11	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	**5 J**	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0 J	<1.0	**0.7 J**	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-26	12/96	365	355.3	<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
MW-27	9/98	362.5	354.5	**23**	**3 J**	**4 J**	<10	**3 J**	<1,000	<10	**340 DJ**	<10	<10
	7/99			<10 J	**4 J**	**2 J**	**3 J**	**8 J**	<1,000	<10	**740 D**	<10	<10
	3/00			<10	**6 J**	<10	**8 J**	**2 J**	<1,000 J	<10	**110 D**	**1 J**	<10
	9/00			<10 J	**4 J**	<10 J	**3 J**	**1 J**	<1,000 J	<10 J	**16 J**	**2 J**	**1 J**
	3/01			<10	**5 J**	<10	**5 J**	**2 J**	<1,000	<10	**260 D**	**2 J**	<10
	9/01			<10	**5 J**	<10	**2 J**	<10	<1,000 J	<10	**26**	<10	<10
	4/02			<18	**7**	**11**	**12**	**26**	<1,000	<5	**176,000 DJ**	**19 J**	<5
	10/02			**9 J**	**3 J**	<10	<10	<20	<1,000	**4 J**	**2,700 D**	**100 J**	**60 JN**
	5/03			<12	**8**	**11**	**23**	**51**	<1,000	<5	**15,000 DJ**	**11**	**43**
	10/03			**170**	**5**	<5	<5	**3 J**	<1,000	<5	**3,700 D**	<5	**240 D**
	6/04			**23 J**	**5 J**	**4 J**	**2 J**	**6 J**	<1,000	<10	**3,700 D**	**20 J**	<10
	11/04			<120 (28)	<50 (**4 J**)	<50 (**2 J**)	<50 (<10)	<100 (<20)	<1,000	<50 (<10)	**1,100 DJ**	<5	**310 (490 D)**
	6/05			**31 J**	**6.1**	**15**	**5.8**	**15**	<1,000	<1.0	**5,200**	<23	<3.0
	11/05			**35 J (37 J)**	**11 (12)**	**77 (78)**	**26 (26)**	**86 (88)**	<1,000 (<1,000)	<1.0 (<1.0)	**37,000 (38,000)**	<270 J (<260 J)	<3.0 (<3.0)
	6/06			**5.3 J (5.8 J)**	**9.5 J (8.9 J)**	**50 J (48 J)**	**25 J (25 J)**	**66 J (63 J)**	<1,000 J (<1,000 J)	<1.0 J (<1.0 J)	**14,000 J (12,000 J)**	<100 J (<100 J)	<3.0 J (<3.0 J)

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Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-28	9/98	363.6	355.6	<5,000 J	<5,000	<5,000	<5,000	<5,000	**2,200**	<5,000	**546 D[H]**	**54**	**64,000 J**
	7/99			<500 J	<500	<500	<500	<500	<1,000	<500	**1,100 D**	**40**	**39,000 D**
	3/00			<10,000	<10,000	<10,000	<10,000	<10,000	<1,000 J	<10,000	**1,300 D**	**30**	**130,000 J**
	9/00			<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	<1,000 J	**540 DJ**	<10	**8,100 BJ**
	3/01			<400	<400	<400	<400	<400	<1,000	<400	**3,200 D**	**7 J**	**5,900 B**
	9/01			<400	<400	<400	<400	<400	<1,000 J	<400	**1,000 D**	<10	**4,700 B**
	4/02			<49	**8**	**6**	**9**	**10 J**	<1,000	<5	**33,400 D**	**57**	**4,600 D**
	10/02			**14 J**	**8 J**	**6 J**	**11**	**12 J**	<1,000	<10	**2,700 D**	R	<10
	5/03			**13**	**4 J**	**2 J**	**2 J**	**8 J**	<1,000	<5	**1,000 DJ**	**3 J**	**52**
	10/03			**24**	**11**	**6**	**12**	**13 J**	<1,000	<5	**1,900 D**	<5	<5
	6/04			**20 J**	**4 J**	**2 J**	**5 J**	**4 J**	<1,000	<10	**910 D**	<5	<10
	11/04			<120 (<25)	<50 (**4 J**)	<50 (<10)	<50 (**5 J**)	<100 (**3 J**)	**190 J**	<50 (<10)	**640 DJ**	<5	<50 (<10)
	6/05			**5.2 J**	**4.5**	**1.2 J**	**4.6**	**3.9 J**	<1,000	<1.0	**630**	<5.0	<3.0
	11/05			**6.8 J (7.8 J)**	**6.1 (5.8)**	<5.0 (<5.0)	**4.7 (4.7)**	<5.0 (<5.0)	<1,000 (<1,000)	<1.0 (<1.0)	**380 J (350 J)**	<2.2 (<2.1)	<3.0 (<3.0)
	6/06			<5.0 J (<5.0 J)	**6.0 J (6.3 J)**	**1.2 J (1.3 J)**	**5.3 J (5.4 J)**	**4.2 J (4.3 J)**	<500 J (<1,000 J)	<1.0 J (<1.0 J)	**430 J (530 J)**	<2.1 J (<5.0 J)	<3.0 J (<3.0 J)
MW-29	9/98	362.9	345.9	<10	<10	<10	<10	**2 J**	<1,000	<10	<10	**13**	<10
	2/99			**7 J**	<10	<10	<10	**1 J**	<1,000	<10	**5 J**	**4 J**	<10
	7/99			<10	<10	<10	<10	<10	<1,000	<10	**2 J**	**4 J**	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	**450 D**	**6 J**	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	**24 J**	**4 J**	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	**30**	**4 J**	<10
	9/01			<10	<10	<10	<10	<10	<1,000	<10	**7 J**	**2 J**	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	**3 J**	**9**	<6
	10/02			<25 J	<10	<10	<10	<20	<1,000	<10	**8**	R	**4 JN**
	5/03			<12	<5	<5	<5	<10	<1,000	<5	**19**	**1 J**	<3
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**2 J**	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	**3 J**	<5	<10
	11/04			<120	<50	<50	<50	<100	**420 J**	<50	<5	<5	<50
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
MW-30	9/98	363.5	355.5	<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	2/99			**7 J**	<10	<10	<10	<10	<1,000	<10	<10	**2 J**	<10
	7/99			<10	**0.7 J**	<10	<10	<10	<1,000	**0.5 J**	<10	**1 J**	<10
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	**18**	**2 J**	**4 J**
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	**9 J**	**2 J**	**2 J**
	3/01			<10	<10	<10	<10	<10	<1,000	<10	**8 J**	**2 J**	<10
	9/01			**4 J**	**2 J**	<10	<10	<10	<1,000 J	<10	**8 J**	**1 J**	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	**250**	**210**	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	R	R	<10
	5/03			<62	<25	<25	<25	<50	<1,000	<25	**18**	0.6 J	**8 J**

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Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-30	10/03			<12	<5	<5	<5	<10	<1,000	<5	**4 J**	<5	<5
(cont'd.)	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<120	<50	<50	<50	<100	<1,000	<50	<5	<5	<50
	6/05			<5.0 J	**0.3 J**	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	**0.7 J**	**0.6 J**	<4.0	**0.5 J**	<1,000	<1.0	**240**	<1.0 J	<3.0
	6/06			<5.0	**0.6 J**	**0.4 J**	<4.0	<5.0	<1,000	<1.0	**29**	<1.0	<3.0
MW-31	9/98	363.7	355.4	<10	**12**	<10	<10	<10	<1,000	<10	**34**	**4 J**	<10
	7/99			<10	**16**	<10	<10	<10	<1,000	<10	**230 D**	**3 J**	<10
	3/00			<10	**16**	<10	<10	<10	<1,000 J	<10	**3 J**	**4 J**	<10
	9/00			<10 J	**12 J**	<10 J	<10 J	<10 J	<1,000	<10 J	**10**	**6 J**	<10 J
	3/01			**21**	**11**	<10	<10	<10	<1,000	<10	<10	**5 J**	<10
	9/01			<10	**14**	<10	<10	<10	<1,000 J	<10	**91 D**	**3 J**	<10
	4/02			<14	**9**	<5	<5	<10	<1,000	<5	**804 D**	**21**	<5
	10/02			<25	**11**	<10	<10	<20	<1,000	<10	**560 D**	**1 J**	<10
	5/03			<12	**9**	<5	<5	<10	<1,000	<5	**0.9 J**	**3 J**	<5
	10/03			**1,200 D**	**13**	<5	<5	<5	<1,000	<5	**88**	<5	<5
	6/04			**15 J**	**12**	<10	<10	<20	<1,000	<10	**3 J**	<5	<10
	11/04			<25	**9 J**	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	**11**	<5.0	<4.0	**1.3 J**	<1,000	<1.0	**3.2**	**2.7**	<3.0
	11/05			<1.3 J	**6.7**	<0.4	<0.5	**0.6**	<1,000	<0.4	**16**	<1.0 J	<0.5
	6/06			<5.0 J	**11 J**	**0.6 J**	<4.0 J	**1.7 J**	<1,000 J	<1.0 J	<1.0 J	**2.4 J**	<3.0 J
MW-32	9/98	364	356	<10	**16**	**2 J**	**5 J**	**3 J**	<1,000	<10	**6,300 D**	**4 J**	<10
	7/99			**3 J**	**14**	**2 J**	**4 J**	<10	<1,000	**56**	<10	**3 J**	<10
	3/00			<10	**5 J**	<10	<10	<10	<1,000 J	<10	**800 D**	<10	<10
	9/00			<10 J	**12 J**	<10 J	<10 J	<10 J	<1,000	<10 J	**4,500 D**	<10	<10 J
	3/01			<10	**5 J**	<10	<10	<10	<1,000	<10	**1,900 D**	**2 J**	<10
	9/01			<10	**10**	<10	<10	<10	<1,000 J	<10	**1,100 D**	**2 J**	<10
	4/02			<15	**4 J**	<5	<5	<10	<1,000	<5	**4,620 D**	**11**	<5
	10/02			<25	**4 J**	<10	<10	<20	<1,000	<10	**50**	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	**0.6 J**	**0.7 J**	<5
	10/03			**20**	**2 J**	<5	<5	<10	<1,000	<5	<5	<5	<5
	6/04			**6 J**	**1 J**	<10	<10	<20	<1,000	<10	**1 J**	<5	<10
	11/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	**1.0**	<5.0	<4.0	<5.0	<1,000	<1.0	**0.4 J**	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0 J	<1.0 J	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	<1.0 J	<3.0 J
MW-33	9/98	344.1	356.1	<10	<10	<10	<10	<10	<1,000	<10	**9 J**	**6 J**	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	**120**	**6 J**	<10
	7/99			**5 J**	**2 J**	**0.7 J**	<10	<10	<1,000	<10	**150**	**8 J**	<23
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	**51**	**7 J**	**11**
	9/00			**45 J**	**4 J**	**1 J**	<10 J	<10 J	<1,000	<10 J	**540 D**	**23**	**330 DJ**

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-33	3/01			**17 J**	<20	<20	<20	<20	<1,000	<20	**1,300 D**	**16**	**370 B**
(cont'd)	9/01			**21**	**5 J**	<10	<10	<10	<1,000 J	<10	**1,900 D**	**12**	<18
	4/02			<18	**3 J**	<5	<5	<10	<1,000	<5	**2,780 D**	**21**	**19**
	10/02			**11 J**	**4 J**	<10	<10	<20	<1,000	<10	**290 D**	**3 J**	**4 J**
	5/03			**88**	**13**	<5	<5	<10	<1,000	<5	**2,000**	**35 J**	**2,800 D**
	10/03			**22**	**2 J**	<5	<5	<10	<1,000	<5	**1,900 D**	<6	<5
	6/04			**9 J**	**12 J**	<10 J	<10 J	<20 J	<1,000	<10 J	**2,700 D**	**5 J**	<10 J
	11/04			--	--	--	--	--	<1,000	--	**2,700 D**	**5 J**	--
	6/05			<5.0 J	**11**	**1.0 J**	<4.0	<5.0	<1,000	<1.0	**1,800**	<10	<3.0
	11/05			<5.0 J	**16**	**1.8 J**	<4.0	<5.0	<1,000	<1.0	**3,500**	<25 J	<3.0
	6/06			<5.0 J	**6.7 J**	**0.7 J**	<4.0 J	<5.0 J	<1,000 J	<1.0 J	**370 J**	**3.5 J**	<3.0 J
MW-34	9/98	362.7	354.7	<10	<10	<10	<10	<10	<1,000	<10	**83**	<10	<10
	7/99			**2 J**	**0.9 J**	**1 J**	<10	<10	<1,000	<10	**380 D**	**2 J**	<10
	3/00			<10 J	**1 J**	**2 J**	<10	<10	<1,000 J	<10	**200 D**	**3 J**	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	**320 D**	**4 J**	<10 J
	3/01			<10	<10	**2 J**	<10	**2 J**	<1,000	<10	**700 D**	**5 J**	<10
	9/01			**7 J**	**2 J**	**2 J**	<10	**2 J**	<1,000 J	<10	**76**	**3 J**	<10
	4/02			<32	<5	<5	<5	<10	<1,000	<5	**640 D**	**15**	<5
	10/02			**37 J**	<10	<10	<10	<20	<1,000	<10	**380 DJ**	**2 J**	<10
	5/03			**16**	<5	<5	<5	<10	<1,000	<5	**140**	**3 J**	<5
	10/03			**9 J**	<5	<5	<5	<10	<1,000	<5	**18**	<5	<5
	6/04			**24 J**	<10	<10	<10	<20	<1,000	<10	**30**	<5	<10
	11/04			<25	<10	<10	<10	<20	**180 J**	<10	**14**	<5	<10
	6/05			**5.6 J**	**0.7 J**	**0.9 J**	<4.0	**1.2 J**	<1,000	**0.4 J**	**16**	**2.5**	<3.0
	11/05			**20 J**	<0.3	**0.9**	<0.5	**1.1**	<1,000	<0.4	**12**	**2 J**	<0.5
	6/06			**6.4**	**0.6 J**	**0.5 J**	<4.0	<5.0	<1,000	<1.0	**16**	**2.3**	<3.0
MW-35	9/98	363	355	<10	<10	<10	<10	<10	<1,000	<10	**6 J**	**5 J**	<10
	7/99			<10	**0.7 J**	<10	<10	<10	<1,000	<10	**3 J**	**4 J**	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10	**2 J**	<10
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	**3 J**	<10 J
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			<10	<10	<10	<10	<10	<1,000 J	<10	<10	**2 J**	<10
	4/02			<13	<5	<5	<5	<10	<1,000	<5	**3 J**	**4 J**	<5
	10/02			<25	<10	<10	<10	<20	<1,000	<10	**2 J**	R	<10
	5/03			<12	<5	<5	<5	<10	<1,000	<5	**1,000**	<100	<5
	10/03			**5 J**	<5	<5	<5	<10	<1,000	<5	**4 J**	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	**30**	**4 J**	<10
	11/04			<25	<10	<10	<10	<20	**240 J**	<10	**82**	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
	6/06			<5.0	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	**0.4 J**	<1.0	<3.0

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Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
MW-36	9/98	363.6	355.6	<10	<10	<10	<10	<10	<1,000	<10	**290 D**	**6 J**	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	**860 D**	**4 J**	<10
	7/99			**8 J**	**0.8 J**	<10	<10	<10	<1,000	<10	**250**	<10	<10
	3/00			<10 J	<10	<10	<10	<10	<1,000 J	<10	**60**	**7 J**	<10
	9/00			**5 J**	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	**8 J**	**6 J**	<5
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	9/01			**54**	<10	<10	<10	<10	<1,000 J	<10	**350 D**	**5 J**	<10
	4/02			<20	<5	<5	<5	<10	<1,000	<5	**9**	**41**	<5
	10/02			**12 J**	<10	<10	<10	<20	<1,000	<10	**2 J**	**2 J**	<10
	5/03			**9 J**	<5	<5	<5	<10	<1,000	<5	**67**	**4 J**	<5
	10/03			**580 D**	<5	<5	<5	<10	<1,000	<5	**100**	<5	<5
	6/04			**22 J**	<10 J	<10 J	<10 J	<20 J	<1,000	<10 J	**33**	**7**	<10 J
	11/04			**13 J**	<10	<10	<10	<20	<1,000	<10	**22**	<5	<10
	6/05			**24 J**	**2.1**	<5.0	<4.0	**1.0 J**	<1,000	<1.0	**1,200**	<5.4	<3.0
	11/05			**77 J**	**3.6**	**2.0 J**	**0.6 J**	**2.8 J**	<1,000	<1.0	**1,600**	<10 J	<3.0
	6/06			**25**	**1.6**	**0.7 J**	<4.0	**1.2 J**	<1,000	<1.0	**76**	**1.9**	<3.0
TW-01	12/96	365.1	355.4	<10	**82**	**4 J**	**6 J**	**4 J**	<1,000	<10	**2,090 D**	**13**	**4 J**
	9/98			<10	**15**	<10	**4 J**	<10	<1,000	<10	**4,400 DEJ**	**4 J**	<10
	2/99			<10	**24**	**2 J**	**2 J**	**2 J**	<1,000	<10	**9,000 D**	**5 J**	<10
	7/99			<10	**16**	**1 J**	**3 J**	<10	<1,000	<10	**4,400 D**	**4 J**	<10
	3/00			<10	**16**	<10	<10	<10	<1,000 J	<10	**280 D**	**4 J**	<10
	9/00			<10 J	**11 J**	<10 J	<10 J	<10 J	<1,000	<10 J	**15**	**2 J**	<10 J
	3/01			<10	**5 J**	<10	<10	<10	<1,000	<10	<10	**3 J**	<10
	9/01			<10	**10**	<10	<10	<10	<1,000 J	<10	<10	**2 J**	<10
	4/02			<14	**3 J**	<5	<5	<10	<1,000	<5	**8**	**13**	<5
	10/02			<25	**7 J**	<10	<10	<20	<1,000	<10	<5	R	<10
	5/03			<12	**7**	<5	<5	<10	<1,000	<5	<5	**1 J**	<5
	10/03			<12	**6**	<5	<5	<10	<1,000	<5	**0.6 J**	<5	<5
	6/04			**6 J**	**3 J**	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			<25	**2 J**	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	**1.8**	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<1.3 J	**1.9**	<0.4	<0.5	<0.4	<1,000	<0.4	<1.0	<1.0 J	<0.5
	6/06			<5.0 J	**1 J**	<5.0 J	<4.0 J	<5.0 J	<1,000 J	<1.0 J	<1.0 J	**0.8 J**	<3.0 J
TW-02[C]	12/96	363.3	353.3	**53**	**10**	**77**	**16**	**65**	<1,000	**585 D**	**15,900 JD**	**3,920 D**	**42,449 D**
(Replaced by TW-02R)[E]	9/98			<500 J	<500 J	<500 J	<500 J	**53,000**	**5,000**	**300 J**	**38,000 D**	**61,000 D**	**86,000 D**
	2/99			<1,000	<1,000	**190 J**	<1,000	**150 J**	**14,000JN**	<1,000	**83,000 D**	**7,900**	**14,000 B**
	7/99			**630**	**37**	**240 J**	**31**	**150**	<1,000	**55**	**100,000 D**	**3,500 J**	**9,700 D**
	3/00			<1,000 J	<1,000	**160 J**	<1,000	**240 J**	<1,000 J	<1,000	**64,000 D**	**3,900**	**13,000**
	9/00			**190 J**	**28 J**	**95 J**	**35 J**	**160 J**	<1,000	**6 J**	**79,000**	<10,000	**390 J**
	3/01			**81**	**19**	**68**	**28**	**130**	<1,000	<10	**67,000 D**	**650 J**	**400 D**
	9/01			**57**	**25**	**70**	**31**	**140**	<1,000 J	<20	**63,000 D**	**32**	**48 B**

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
TW-02	4/02			**240**	**19**	**65**	**23**	**96**	<1,000	<5	**1,090,000 D**	<5,300	**14**
(cont'd.)	10/02			**110 J**	**15**	**19**	**23**	**65**	<1,000	<10	**80,000 D**	**10 J**	<10
	5/03			**240**	**30**	**130**	**49**	**226**	<1,000	<5	**160,000 D**	**230**	**97**
	10/03			**68**	**28**	**75 J**	<5	<10	<1,000	**2 J**	**92,000 D**	<260	**91**
	6/04			**140 J**	**19 J**	**39 J**	**31 J**	**111 J**	<1,000	<10 J	**82,000**	<5,200	**4 J**
TW-02RR	11/04	363.3	353.3	**18 J**	**4 J**	**8 J**	**4 J**	**16 J**	<1,000	<10	**7,100 D**	<5	<10
	6/05			**7.2 J**	**3.6**	**2.1 J**	**3.6 J**	**9.6**	<1,000	**0.3 J**	**8,400**	<50	<3.0
	11/05			**26 J**	**6**	**4.1**	**3.6**	**11**	<1,000	<0.4	**14,000**	<110 J	<0.5
	6/06			**16**	**4.4**	**1.3 J**	**2.7 J**	**6.7**	<1,000	<1.0	**10,000**	<100	<3.0
PZ-4D	11/89	350.8	345.9	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	**0.8 J**	<5
	10/95			NA	<5	<5	<5	<5	NA	<5	<5	<10	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<6	<12	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	4/02			<10	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5
	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0	<1.0	**0.5 J**	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
PZ-4S	11/89	362.79	357.88	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	8/95			<1,000	<5	<5	<5	<5	<1,000	<5	<5	<10	<18
	10/95			NA	<5	<5	<5	<5	NA	<5	NA	NA	<5
	8/96			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	8/97			<10	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/99			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	6/99			<10 J	<10	<10	<10	<10	<1,000 J	<10	<10 J	<10 J	<10 J
	3/00			<10	<10	<10	<10	<10	<1,000 J	<10	<5	<10	<10
	3/01			<10	<10	<10	<10	<10	<1,000	<10	<10	**3 J**	<10
	4/02			<14	<5	<5	<5	<10	<1,000	<5	**8** (<5)[F]	<5 (<5)[F]	<5
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	5/03			<12	<5	<5	<5	<5	<1,000	<5	<5	<5	<5

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Monitoring Well	Sampling Date	Screen Elev. (ft. AMSL) Top	Bottom	Acetone	Benzene	Toluene	Ethyl-benzene	Xylene[A]	Methanol	Trichloro-ethene	Aniline	N,N-Dimethyl-aniline	Methylene Chloride
NYSDEC Groundwater Quality Standards (Part 700)				50	1	5	5	5	NA	5	5	1	5
PZ-4S	6/04			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
(cont'd.)	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	6/06			<5.0	<1.0	**0.6 J**	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
PZ-5D	11/89	353.5	348.6	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<12
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	**46**	<5	<5
	6/04 [J]			<25	<10	<10	<10	<20	<1,000	<10	<5	<5	<10
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0	<3.0
	11/05			<5.0 J	<1.0	**0.7 J**	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
PZ-5S	11/89	361.42	356.52	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
	12/94			<10	<5	<5	<5	<5	<200	<5	<5	<10	<5
	2/96			<1,000	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	2/97			**5 J**	<10	<10	<10	<10	<1,000	<10	<5	<10	<10
	9/98			<10	<10	<10	<10	<10	<1,000	<10	<5[H]	<10	<12
	6/99			<10 J	<10	<10	<10	<10	<1,000	<10	<10 J	<10 J	<10 J
	7/99			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10	<10	<10 J
	9/00			<10 J	<10 J	<10 J	<10 J	<10 J	<1,000 J	<10 J	<10 J	<10	<10 J
	9/01			**7 J**	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
	10/02			<25 J	<10	<10	<10	<20 J	<1,000	<10	<5[G]	<5[G]	<10
	10/03			<12	<5	<5	<5	<10	<1,000	<5	<5	<5	<5
	11/04			--	--	--	--	--	<1,000	--	<5	<5	--
	6/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.1	<1.1	<3.0
PZ-5S	11/05			<5.0 J	<1.0	<5.0	<4.0	<5.0	<1,000	<1.0	<1.0	<1.0 J	<3.0
PZ-8S[I]	9/98	362.6	357.7	<10	<10	<10	<10	<10	<1,000	<10	<10	<10	<10
PZ-11D[D]	11/89	352.09	347.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-11S[D]	11/89	359.09	354.19	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-12D[D]	11/89	350	345.1	<100	<1	<1	<1	<1	<1,000	<1	<53	<53	<1
	11/90			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<1	**3**	<1	<10	<10	<1
	11/92			<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
PZ-12S[D]	11/89	360	355.1	<100	<1	<1	<1	<1	<1,000	<1	<10	<10	<1
	11/90			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
	11/91			<100	<1	<1	<1	<3	**6**	<1	<10	<10	**5**
	11/92			<100	<1	<1	<1	<3	<1,000	<1	<10	<10	<1
PZ-13D[C]	11/89	349.4	344.4	<100	<1	<1	<1	<1	<1,000	<1	<11	<11	<1
PZ-13S[C]	11/89	359.5	354.5	<100	<1	2	<1	**2**	<1,000	<1	<11	<11	<1

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Table 1. Summary of Historical Groundwater Monitoring Data, March 1988 through June 2006,
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General Notes:

1. Concentrations are presented in micrograms per liter, which is equivalent to parts per billion.
2. Compounds detected are indicated by bold-faced type.
3. Detections exceeding New York State Department of Environmental Conservation (NYSDEC) Groundwater Standards (Part 700) are indicated by shading.
4. Replacement wells for MW-6, MW-8, MW-9, MW-10, MW-11 and MW-12D were installed 8/95.
5. Replacement wells for MW-17, MW-24S, MW-24D and TW-02 were installed 11/97 - 12/97.
6. The laboratory analytical results for the duplicate sample collected from monitoring well MW-23S during the 7/99 sampling event indicated the presence of methanol at 5.1 milligrams per liter. Because methanol was not detected in the original sample, the duplicate results were determined, based on the results of the data validation process, to be unacceptable. Furthermore, methanol has not been previously detected in groundwater samples collected from this monitoring well. Accordingly, the detection of methanol appears to be the result of a laboratory error and not representative of actual groundwater quality in the vicinity of monitoring well MW-23S.
7. N,N-dimethylaniline data for 10/02 sampling event for MW-1, MW-3S, MW-28, MW-29, MW-32, MW-35 and TW-01 were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. Aniline and N,N-dimethylaniline data for 10/02 sampling event for MW-30 were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. These wells and piezometers are not perimeter monitoring locations and were not resampled.
8. Aniline and N,N-dimethylaniline results of nondetect for the 6/04 sampling event at MW-18 were rejected due to the deviation from a surrogate recovery that was below 10%. This well was not resampled.
9. Volatile organic compound (VOC) results for the 11/04 sampling event were inadvertently lost due to laboratory equipment failure for monitoring locations MW-1, MW-17R, MW-18, MW-23I, MW-23S, MW-24DR, MW-24SR, MW-25, MW-33, PZ-5D and PZ-5S. In addition, the initial VOC results were also irretrievable due to laboratory equipment failure for monitoring locations MW-27, MW-28, MW-29 and MW-30; however, results for subsequent dilutions of these groundwater samples were valid, but the detection limits were high. The duplicate sample VOC results for MW-27 and MW-28 have lower detection limits and are presented in parentheses. These wells were not resampled.

Superscript Notes:

[A] = Data presented is total xylenes (m- and p-xylenes and o-xylenes). For the 1995 data, the listed quantitation limit applies to the analyses conducted for m- and p-xylenes and o-xylenes.

[B] = Because aniline was detected at monitoring well MW-3S at a concentration of 690 ug/l during the September 2001 sampling event, this well was resampled for aniline on November 8, 2001. Aniline was detected in MW-3S during the November 8, 2001 resampling event at a concentration of 69 ug/l.

[C] = Wells/piezometers MW-5, MW-14D, MW-16D, MW-17, MW-20, MW-21, MW-24S, MW-24D, TW-02, PZ-13S, and PZ-13D were abandoned 11/97 - 1/98.

[D] = Wells/piezometers MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12D, PZ-11D, PZ-11S, PZ-12D, and PZ-12S were abandoned during OU No.1 soil remediation activities (1994).

[E] = Wells MW-8S, MW-8D, and TW-02R were abandoned in 8/04 and replacement wells MW-8SR and TW-02RR were installed in 8/04.

[F] = MW-17R, MW-18, and PZ-4S wells/piezometers were resampled for aniline and N,N-dimethylaniline on June 18, 2002 because N,N-dimethylaniline and/or aniline was detected during the April 2002 sampling event. The results of this additional sampling event are shown in parenthesis. MW-24SR and MW-24DR were also sampled for aniline and N,N-dimethylaniline on June 18, 2002, because N,N-dimethylaniline and/or aniline was detected at nearby perimeter monitoring locations during the April 2002 sampling event.

[G] = MW-17R, MW-18, MW-19, MW-23S, MW-23I, MW-24DR, MW-24SR, MW-25S, PZ-4S, PZ-5S and PZ-5D wells/peizometers were resampled for aniline and N,N-dimethylaniline during 1/03, because the 10/02 results were rejected due to matrix spike and matrix spike duplicate recoveries below control limits. These wells and piezometers are perimeter monitoring locations.

[H] = MW-18, MW-19, MW-23I, MW-23S, MW24DR, MW-24SR, MW-28, PZ-5S and PZ-5D wells/piezometers were resampled for aniline during 12/98, because the 9/98 results were rejected due to laboratory error.

[I] = Piezometer PZ-8S was decommissioned 8/00.

[J] = MW-24SR and PZ-5D well and piezometer were sampled during the June 2004 sampling event because N,N-dimethylaniline and/or aniline was detected at nearby perimeter monitoring locations during the October 2003 sampling event.

Abbreviations:

AMSL = Above mean sea level (NGVD of 1929).
NA = Not available.
ND = Not detected.
NS = Not sampled.

Analytical Qualifiers:

D = Indicates the presence of a compound in a secondary dilution analysis.
J = The compound was positively identified; however, the numerical value is an estimated concentration only.
E = The compound was quantitated above the calibration range.
JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
B = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
< = Compound was not detected at the listed quantitation limit.
U = Undetected.
R = The sample results were rejected.
-- = Sample results are not available. (See Note 9.)

Table 2. Summary of Historical Groundwater Level Measurements, June 1998 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	6/10/98 Static	6/22/98	7/6/98	7/20/98 Week 1	7/27/98 Week 2	8/5/98 Week 3	8/10/98 (morning) Week 4	8/10/98 (afternoon) Week 4	8/11/98 (morning) Week 4	8/11/98 (afternoon) Week 4	8/12/98 (morning) Week 4	8/12/98 (afternoon) Week 4	10/16/98 Week 13	11/17/98 Week 18
Canal	393.39*	362.91	363.37	363.72	363.08	363.08	362.94		362.78	362.94			362.84	363.27	
Collection Sump	372.81	364.33	363.08	363.68	362.50	361.31	361.83	361.89	362.14	361.00	361.71	361.95	362.31	362.01	361.48
MW-3S	376.54	365.93	366.26	367.82	366.20			365.29							365.25
MW-3D	375.56	365.63	365.87	366.16			364.97	364.85						365.08	365.00
MW-6D	377.07	365.75	366.01	366.29										365.25	365.15
MW-8D	374.68	365.51	365.74	366.05			364.80		364.67	364.79	364.88	364.87	364.87	364.93	364.83
MW-9D	376.76**	365.78					365.14	365.10						365.25	365.16
MW-11D	373.68	365.46	365.67	365.29			364.62	364.49	364.50	364.62		364.69	364.67	364.77	364.68
MW-11S	373.50	364.88	364.62	365.11	364.12	363.70	363.58	363.52	363.58	363.73		363.69	363.74	363.74	363.69
MW-18	372.57	362.64													361.90
MW-19	376.00	362.42													361.78
MW-23I	372.77	365.04	365.34	365.72			364.34		364.45	364.16			364.43	364.43	364.34
MW-23S	372.61	363.99	363.43	364.04	362.92	362.50	362.41		362.40	362.66		362.54	362.67	362.68	362.56
MW-24DR	375.14	365.41													364.63
MW-24SR	375.55	365.15	365.32	365.66	364.91	364.45	364.27		364.20				364.36	364.47	364.37
MW-25D	373.67	365.43													364.74
MW-25S	373.39	363.91	363.64	364.14	363.21	362.95	362.75		362.75			362.89	362.96	363.01	362.89
PZ-4D	376.11	365.46	365.73	366.01	365.21	364.83	364.63		364.54	364.67	364.75	364.74	364.70	364.80	364.69
PZ-5D	375.58	365.66	365.91	366.18	365.36	365.07	364.84		364.76	364.88	364.94	364.93	364.91	364.99	364.89
PZ-8D	375.83	365.90	366.11	366.35			365.25	365.13	365.83					365.35	365.27
PZ-9D	377.29	365.73					365.47	365.28						365.12	365.03
PZ-A	373.94	364.49	363.69	364.28	363.13	362.58	362.56	362.62	362.76	363.39	362.82	362.64	363.02	362.75	362.56
PZ-B	373.92	364.49	363.60	364.21	363.02	362.62	362.50	363.26	362.71	363.00	362.97	362.59	363.01	362.67	362.54
PZ-C	374.85	365.69	366.29	367.02	365.93	365.97	365.47	365.38	365.30	365.54	365.99	365.53	365.54	365.56	365.52
PZ-D	375.12	365.78	366.25	366.99	365.99	365.91	365.53	365.37	365.30	365.53	366.06	365.58	365.67	365.59	365.55
PZ-E	374.12	364.75	364.25	364.86	363.73	364.00	363.41	363.61	363.54	364.22	364.67	364.67	364.08	363.57	363.67
PZ-F	377.06	366.17					365.56	365.50						365.37	365.27
PZ-G	377.16	366.21					365.66	365.60						365.46	365.36
PZ-HR	376.99	366.16					365.54							365.44	365.34
PZ-I	375.15	366.56					365.86	365.64						365.88	365.57
PZ-J	374.89	366.15					365.53	365.40						365.53	365.39
PZ-K	373.19	364.53	363.78	364.35	363.27	362.69	362.69	362.71	362.75	362.92	362.80	362.78	362.98	362.82	362.66
PZ-L	374.62	364.25	363.59	364.18	363.04	362.42	362.48	362.44		362.88	362.63	362.57	362.84	362.65	362.40
PZ-M	374.35	364.70	364.09	364.64	363.52	362.96	362.96	362.96	363.09	363.29	363.15	363.05	363.30	363.12	362.93
PZ-N	376.94***	365.79	366.37	367.06	365.99	365.91	365.53	365.39	365.33	365.55	365.97	365.58	365.59	365.59	365.55
PZ-O	375.36	364.29	363.68	364.29	363.21	362.84	362.72	362.87	362.78	363.05	362.97	362.80	363.03	362.81	362.74
PZ-P	376.89	366.25					365.65	365.60						365.52	365.39
PZ-Q	377.61	366.23					365.64	365.57						365.45	365.35
PZ-R	377.05	366.23		366.94			365.65	365.57						365.50	365.38
PZ-S	378.13	366.19					365.57	365.52						365.43	365.35
PZ-T	376.25	366.14					365.54	365.43						365.52	365.38
PZ-U	375.35	365.99		366.81			365.50	365.33						365.37	365.30
PZ-V	375.78	366.07					365.48	365.35						365.43	365.29
PZ-W	375.78	366.07					365.46	365.31						365.41	365.28

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, June 1998 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	12/16/98 Week 22	12/22/98 Week 23	1/6/99 Week 25	1/13/99 Week 26	4/14/99 Week 39	6/3/99 Week 46	7/13/99 Week 52	3/27/00	6/1/00	9/18/00	11/14/00	3/19/01	9/24/01
Canal	393.39*	363.14	362.21	363.11			363.22	362.78	363.73	363.75	362.75^	363.24	363.01	362.96
Collection Sump	372.81	361.75	363.09	361.93	361.73	363.17	362.45	361.87	362.99	361.48	361.69	361.66	361.59	362.04
MW-3S	376.54	365.67	366.81	365.67	365.25		365.26		357.10					
MW-3D	375.56	365.04		365.04	364.91	365.41	364.92	364.57	355.64	365.57	364.81	355.16	365.40	364.54
MW-6D	377.07	365.23	365.36	365.23	365.06	365.62	365.12	364.79	365.85	365.77	364.97	365.34	365.64	364.75
MW-8D	374.68	364.86		364.88	364.74	365.22	364.77	364.35	365.42	365.36	364.62	364.94	365.18	364.34
MW-9D	376.76**	365.22	365.36	365.26	365.08	365.65	365.17	364.83	365.88	365.80	365.01	365.36	365.68	364.76
MW-11D	373.68	364.73		364.73	364.57	365.02	364.60	364.18	365.24	365.18	364.46	364.81	364.96	364.18
MW-11S	373.50	363.69	364.27	363.79	363.61	364.50	363.88	363.39	364.72	364.35	363.55	363.86	364.48	363.33
MW-18	372.57	361.93	362.05	362.05	361.84	362.18	361.79	361.38	362.43	361.77	361.71	362.08	362.17	361.50
MW-19	376.00	361.84	361.98	361.87	361.89	362.15	361.80	361.46	362.58	361.88	361.90	362.25	362.44	361.82
MW-23I	372.77	364.36		364.47	364.26	364.69	364.28	363.83	364.99	364.93	364.25	364.58	364.73	363.99
MW-23S	372.61	362.52	363.35	362.66	362.46	363.64	362.94	362.42	363.85	363.17	362.64	362.87	363.59	362.36
MW-24DR	375.14	364.67	364.81	364.69	364.54	364.96	364.49	364.09	365.19	364.60	364.39	364.77	364.91	364.16
MW-24SR	375.55	364.44	364.66	364.50	364.33	364.87	364.41	363.95	365.12	365.55	364.30	364.60	364.86	364.05
MW-25D	373.67	364.76		364.77	364.64	365.07	364.64	364.20	365.28	365.20	364.51	364.84	364.97	364.22
MW-25S	373.39	362.87	363.48	362.96	362.79	363.89	363.20	364.75	364.12	363.69	362.94	363.23	364.14	362.61
PZ-4D	376.11	364.73	364.87	364.72	364.55	365.02	364.60	364.22	365.28	365.21	364.49	364.82	365.03	364.22
PZ-5D	375.58	364.93	365.09	364.94	364.78	365.28	364.86	364.47	365.57	365.48	364.71	365.10	365.36	364.46
PZ-8D	375.83	365.33	365.48	365.33	365.19	365.78	365.08	365.00						
PZ-9D	377.29	365.08	365.24		364.94	365.50	365.04	364.68	365.70	365.72	364.87	365.16	365.55	364.60
PZ-A	373.94	362.60	364.04	362.72	362.56	363.81	363.12	362.61	363.95	363.15	362.75	362.91	363.56	362.58
PZ-B	373.92	362.51	364.27	362.62	363.45	363.91	363.19	362.67	364.08	363.32	362.79	362.94	363.94	362.55
PZ-C	374.85	365.52	365.97	365.18	365.02	365.79	365.10	364.75	366.04	366.04	365.03	365.35	366.39	364.54
PZ-D	375.12	365.53	366.06	365.25	365.12	365.79	365.18	364.89	366.09	366.10	365.10	365.46	366.36	364.65
PZ-E	374.12	363.53	366.41	363.57	363.52	364.93	364.20	363.81	365.16	365.03	363.92	364.40	365.90	363.49
PZ-F	377.06	365.52	365.73	365.62	365.27	366.36	365.53	365.11	366.89	366.72	365.27	365.70	367.06	364.93
PZ-G	377.16	365.60	365.76	365.71	365.44	366.44	365.61	365.17	366.89	366.80	365.36	365.75	367.11	364.93
PZ-HR	376.99	365.54	365.84	365.60	365.39	366.34	365.55	365.11	366.80	366.68	365.33	365.66	367.02	364.91
PZ-I	375.15	365.90	366.59	366.05	365.76	366.93	365.79	365.23	367.30	367.23	365.55	366.08	367.81	364.91
PZ-J	374.89	365.55	365.93	365.59	365.47	366.21	365.53	365.14	366.55	366.50	365.32	365.64	366.69	364.96
PZ-K	373.19	362.66	363.70	362.78	362.58	363.87	363.13	362.59	363.97	363.19	362.69	362.86	363.53	362.49
PZ-L	374.62	362.51	363.59	362.65	362.45	363.69	363.00	362.47	363.84	363.03	362.61	362.68	363.42	362.47
PZ-M	374.35	363.01	364.07	363.13	362.94	364.06	363.40	362.90	364.22	363.54	363.05	363.24	363.86	362.90
PZ-N	376.94***	365.56	366.09	365.31	365.12	365.87	365.19	364.87	366.17	366.12	NM	365.35	366.43	364.47
PZ-O	375.36	362.75	363.74	362.87	362.68	364.01	363.25	362.73	364.22	363.57	362.86	363.06	364.22	362.64
PZ-P	376.89	365.61	365.78	365.73	365.44	366.43	365.59	365.18	366.85	366.73	365.34	365.77	367.02	364.93
PZ-Q	377.61	365.59	365.70	365.71	365.42	366.44	365.60	365.16	366.93	366.78	365.26	365.76	367.21	364.89
PZ-R	377.05	365.61	365.81	365.67	365.47	366.46	365.61	365.20	366.89	366.81	365.37	365.72	367.21	364.93
PZ-S	378.13	365.57	365.94	365.65	365.40	366.39	365.56	365.15	366.84	366.73	365.32	365.71	367.12	364.90
PZ-T	376.25	365.58	365.96	365.64	365.47	366.34	365.53	365.10	366.71	366.65	365.29	375.70	366.90	364.90
PZ-U	375.35	365.49	365.91	365.55	365.40	366.17	365.46	365.08	366.55	366.49	365.22	365.60	366.75	364.85
PZ-V	375.78	365.47	365.90	365.52	365.37	366.20	365.44	365.06	366.54	366.50	365.25	365.58	366.76	364.83
PZ-W	375.78	365.44	365.78	365.53	365.33	366.15	365.41	365.02	366.49	366.41	365.20	365.59	366.63	364.85

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, June 1998 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Location	Reference Elevation (feet AMSL)	4/15/02	6/3/02	6/18/02	10/7/02	1/20/03	5/5/03	10/27/03	6/14/04	11/1/04	6/6/05	10/31/05	6/5/06
Canal	393.39*	364.59	363.64	364.17	362.19	^^	363.34	363.34	363.39	363.39	364.39^^^	363.84	363.69
Collection Sump	372.81	362.27	361.50	361.42	362.05	361.90	361.91	361.86	362.11	362.00	361.49	362.96	361.70
MW-3S	376.54	367.70	366.26	367.50	364.26	366.27	366.38	366.98	366.65	365.54	365.82	368.11	368.19
MW-3D	375.56	364.16	364.55	365.10	363.92	365.10	365.53	365.05	365.59	365.27	365.36	366.25	366.07
MW-6D	377.07	364.22	364.62	365.21	364.07	365.31	365.75	365.24	365.80	365.46	365.59	366.45	366.29
MW-8D	374.68	364.13	364.51	365.01	363.82	^^	365.30	364.83	365.39				
MW-9D	376.76**	364.05	364.47	365.10	364.00	365.31	365.79	365.26	365.85	365.51	365.64	366.47	366.34
MW-11D	373.68	364.07	364.44	364.92	363.73	364.81	365.17	364.75	365.26	364.93	364.00	365.94	365.78
MW-11S	373.50	363.57	363.89	364.33	363.09	364.15	364.38	363.89	364.34	363.98	364.12	365.06	365.04
MW-18	372.57	361.65	362.09	362.50	361.37	362.26	362.69	362.26	362.62	362.29	362.37	363.17	363.07
MW-19	376.00	361.83	362.11	362.57	361.51	362.52	361.91	362.46	362.89	362.59	362.69	363.50	363.38
MW-23I	372.77	363.99	364.34	364.80	363.62	364.60	365.01	364.56	364.99	364.67	364.77	365.66	365.47
MW-23S	372.61	363.97	363.38	363.68	362.50	362.26	363.31	362.81	363.04	362.77	362.80	364.05	363.80
MW-24DR	375.14	364.06	364.43	364.90	363.71	364.75	365.13	364.69	365.19	364.86	364.94	365.90	365.74
MW-24SR	375.55	364.00	364.40	364.86	363.64	364.69	365.03	364.62	365.12	364.78	364.88	365.81	365.66
MW-25D	373.67	364.19	364.57	365.02	363.82	364.82	365.24	364.74	365.26	364.93	365.00	364.49	365.77
MW-25S	373.39	364.39	363.83	364.21	362.74	363.61	363.67	363.19	363.49	363.08	363.14	365.63	364.13
PZ-4D	376.11	364.06	364.43	364.94	363.73	364.81	365.23	364.78	365.28	364.96	365.07	365.96	365.85
PZ-5D	375.58	364.12	364.47	365.03	363.81	365.05	365.49	365.02	365.53	365.20	365.29	365.19	365.98
PZ-8D	375.83												
PZ-9D	377.29	363.75	364.14	364.79	363.71	365.08	365.64	365.09	365.68	365.35	365.48	366.33	366.19
PZ-A	373.94	363.92	363.05	363.22	362.59	^^	363.40	363.57	363.18	362.89	362.96	364.20	364.14
PZ-B	373.92	364.44	363.24	363.40	362.65	363.39	363.47	363.89	363.21	362.92	362.92	364.32	364.32
PZ-C	374.85	365.68	365.38	366.26	364.19	365.65	365.76	365.44	366.07	365.50	365.65	366.65	366.45
PZ-D	375.12	365.58	365.41	366.21	364.21	365.65	365.84	365.53	366.11	365.62	365.75	366.75	366.57
PZ-E	374.12	366.51	364.63	364.77	363.47	364.94	365.00	366.92	364.58	364.07	364.47	365.25	366.51
PZ-F	377.06	365.50	365.51	366.29	364.29	366.25	366.41	365.46	366.65	365.75	366.13	367.59	367.16
PZ-G	377.16	365.39	365.53	366.22	364.36	366.35	366.46	365.43	366.68	365.81	366.14	367.76	366.97
PZ-HR	376.99	365.39	365.46	366.19	364.24	366.22	366.41	365.50	366.62	365.81	366.12	367.56	367.14
PZ-I	375.15	366.29	366.16	367.05	364.22	366.58	366.90	365.97	367.01	365.26	366.41	368.02	367.82
PZ-J	374.89	365.10	365.18	365.89	364.21	365.96	366.73	365.61	366.45	365.86	366.07	367.29	367.04
PZ-K	373.19	363.82	363.19	363.48	362.56	363.25	363.36	363.12	363.13	362.84	362.97	364.21	364.01
PZ-L	374.62	363.44	362.96	363.26	362.53	363.42	363.25	363.06	363.04	362.79	362.91	364.02	363.89
PZ-M	374.35	363.93	363.37	363.62	362.82	363.60	363.77	363.66	363.61	363.31	363.45	364.53	364.40
PZ-N	376.94***	366.60	365.29	366.13	364.09	365.54	365.74	364.48	365.95	365.47	365.53	366.56	366.41
PZ-O	375.36	364.47	363.63	363.98	362.75	363.61	363.53	363.36	363.43	363.04	363.13	364.36	364.26
PZ-P	376.89	365.31	365.48	366.19	364.25	366.25	366.45	365.53	366.65	365.87	366.20	367.63	367.19
PZ-Q	377.61	366.11	365.70	366.41	364.41	366.40	366.55	365.38	366.77	365.85	366.21	367.80	367.16
PZ-R	377.05	365.40	365.58	366.31	364.31	366.34	366.46	365.31	366.72	365.85	366.17	367.73	367.15
PZ-S	378.13	365.27	365.53	366.29	364.31	366.29	366.42	365.42	367.18	367.10	366.31	367.83	367.20
PZ-T	376.25	365.34	365.37	366.10	364.20	366.16	366.38	365.74	366.54	365.85	366.13	367.48	367.15
PZ-U	375.35	365.18	365.23	365.96	364.18	366.00	365.83	365.66	366.43	365.82	366.05	367.33	367.07
PZ-V	375.78	365.30	365.24	365.97	364.15	365.98	366.71	365.84	366.44	365.76	365.99	367.33	367.06
PZ-W	375.78	365.05	365.12	365.86	364.09	365.88	366.18	365.49	366.36	365.72	365.98	367.21	366.94

See notes on page 4.

Table 2. Summary of Historical Groundwater Level Measurements, June 1998 through June 2006,
2011 Periodic Review Report, McKesson Envirosystems, Former Bear Street Facility, Syracuse, New York

Notes:

1. Weeks 1, 2, 3, 4, 13, 18, 22, 23, 25, 26, 39, 46 and 52 are weeks after the initial introduction of Revised Anaerobic Mineral Media (RAMM) into the three impacted areas.
2. 8/10, 8/11, and 8/12/98 water level measurements were taken during the initial discrete RAMM injection event.
3. AMSL = above mean sea level (NGVD of 1929)
4. The groundwater level in PZ-8D was not measured on 3/27/00 and 6/1/00 because this piezometer was damaged and subsequently decommissioned on August 30, 2000.
5. ^ = The canal water-level measurement for the third quarter of the first year of the long-term process control monitoring program was obtained on September 29, 2000.
6. * = The reference elevation for canal gauging point was 363.06 feet AMSL prior to 11/16/00. The canal gauging point was re-marked and re-surveyed 11/16/00. The new reference elevation is 393.39 feet AMSL.
7. NM = The groundwater level in PZ-N was not measured on 9/18/00 because this piezometer was damaged. This piezometer was repaired and subsequently resurveyed on 11/16/00. The new reference elevation for PZ-N is 376.94 feet AMSL.
8. 376.76** = The reference elevation for MW-9D as of 9/19/01.
9. *** = The reference elevation for PZ-N was 376.02 feet AMSL prior to 11/16/00 and, as noted above, the new reference elevation is 376.94 feet AMSL.
10. ^^ = Due to frigid weather conditions, the groundwater level in PZ-A and MW-8D could not be measured on 1/20/03, because the locks were frozen. The canal water level for the 1/03 resampling event could not be measu due to strong winds and ice on the water surface.
11. Monitoring location MW-8D was decommissioned on August 3, 2004.
12. The canal water level measurement for the 2005 second quarter long-term process control monitoring program was obtained on November 1, 2005.
13. ^^^ = The water level measurement of the canal collected during the first 2005 monitoring was not measured from the correct measuring point. The spring 2005 measurement was taken approximately 3 feet higher than the surveyed measuring point. This value reflects the corrected canal water level for the spring 2005 monitoring event.

MW-35									
Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6 J	3 J	<10	<10	<10	<10	3 J	2 J	1,000
N,N-dimethylaniline	5 J	4 J	2 J	3 J	<10	2 J	4 J	R	<100
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12

MW-36									
Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	8 J	<10 J	5 J	<10	54	<20	12 J	9 J
Benzene	<10	<10	0.8 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	290 D	860 D	250	60	8 J	<10	350 D	9	2 J	67
N,N-dimethylaniline	6 J	4 J	<10	7 J	6 J	<10	5 J	41	2 J	4 J
Methylene Chloride	<10	<10	<10	<10	2 J	<10	<10	<5	<10	<5

TW-02R											
Date	12/96	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	53	<500 J	<1,000	630	<1,000 J	190 J	81	57	240	110 J	240
Benzene	10	<500 J	<1,000	37	<1,000	28 J	19	25	19	15	30
Toluene	77	<500 J	190 J	240 J	160 J	95 J	68	70	65	19	130
Ethylbenzene	16	<500 J	<1,000	31	<1,000	35 J	28	31	23	23	49
Xylene	65	140 J	150 J	150	240 J	160 J	130	140	96	65	226
Methanol	<1,000	5,000	14,000 JN	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000
Trichloroethene	585 D	300 J	<1,000	55	<1,000	6 J	<10	<20	<5	<10	<5
Aniline	15,900 JD	38,000 D	83,000 D	100,000 D	64,000 D	79,000	67,000 D	63,000 D	1,090,000 D	80,000 D	160,000 D
N,N-dimethylaniline	3,920 D	61,000 D	7,900	3,500 J	3,900	<10,000	650 J	32	<5,300	10 J	230
Methylene Chloride	42,449 D	86,000 D	14,000 B	9,700 D	13,000	390 J	400 D	48 B	14	<10	97

MW-34									
Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	2 J	<10 J	<10 J	<10	7 J	<32	37 J	16
Benzene	<10	0.9 J	1 J	<10 J	<10	2 J	<5	<10	<5
Toluene	<10	1 J	2 J	<10 J	2 J	2 J	<5	<10	<5
Xylene	<10	<10	<10	<10 J	2 J	2 J	<10	<20	<10
Aniline	83	380 D	200 D	320 D	700 D	76	640 D	380 DJ	140
N,N-dimethylaniline	<10	2 J	3 J	4 J	5 J	3 J	15	2 J	3 J

TW-01											
Date	12/96	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	82	15	24	16	16	11 J	5 J	10	3 J	7 J	7
Toluene	4 J	<10	2 J	1 J	<10	<10 J	<10	<10	<5	<10	<5
Ethylbenzene	6 J	4 J	2 J	3 J	<10	<10 J	<10	<10	<5	<10	<5
Xylene	4 J	<10	2 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Aniline	2,090 D	4,400 DEJ	9,000 D	4,400 D	280 D	15	<10	<10	8	<5	<5
N,N-dimethylaniline	13	4 J	5 J	4 J	4 J	2 J	3 J	2 J	13	R	1 J
Methylene Chloride	4 J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Acetone	<10	<10	<10	<10	<10	<10 J	<10	<10	<14	<25	<12

MW-31									
Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	<10	<10 J	21	<10	<14	<25	<12
Benzene	12	16	16	12 J	11	14	9	11	9
Aniline	34	230 D	3 J	10	<10	91 D	804 D	560 D	0.9 J
N,N-dimethylaniline	4 J	3 J	4 J	6 J	5 J	3 J	21	1 J	3 J

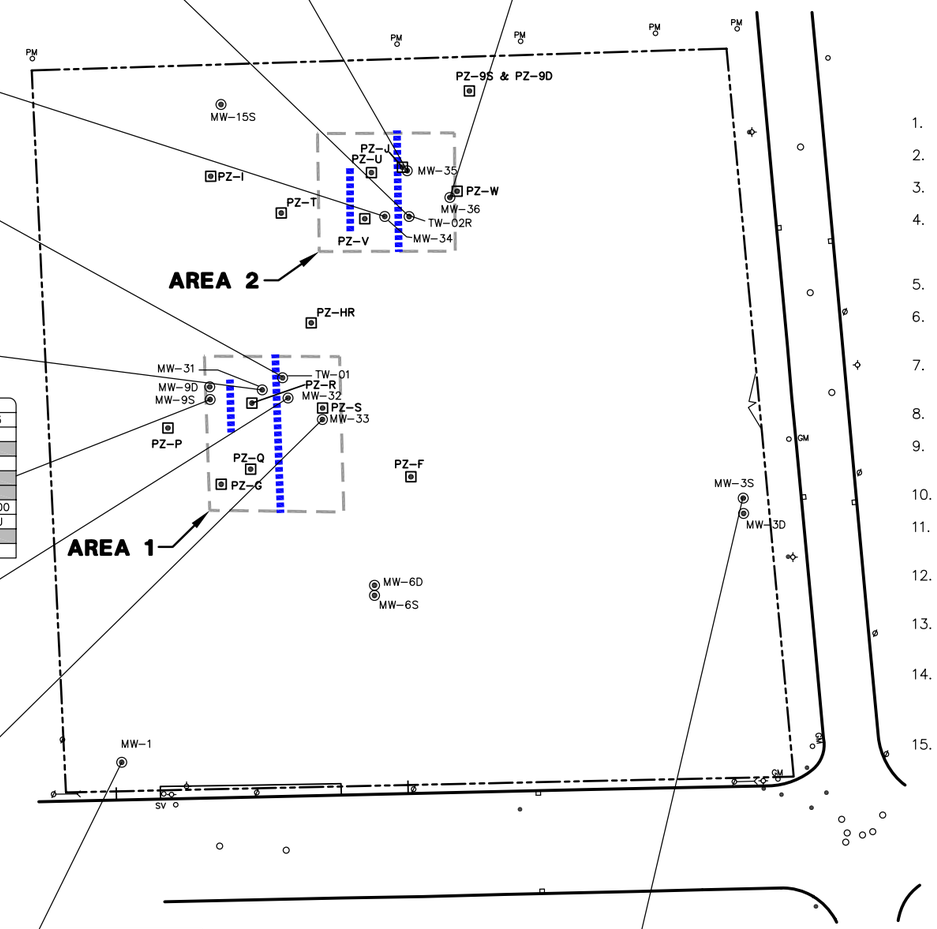
MW-9S												
Date	1/89	11/89	11/91	8/95	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	1,600	<1,000	<100	<1,000	<10	<10	<10 J	<10	<10	<23	16 J	<12
Benzene	NA	48	<10	11 JD	4 J	2 J	11 J	1 J	10	10	38	11
Toluene	64	25	9	26 JD	2 J	2 J	2 J	3 J	3 J	2 J	40	<5
Ethylbenzene	130	60	19	69 D	9 J	11	6 J	17	7 J	6	2 J	7
Xylene	270	60	30	226 JD	18	21	18 J	61	35	17 J	15 J	18
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	370 J	<1,000	<1,000
Aniline	660	670	95	50	<10	2 J	1 J	2 J	<10	9	<5	0.9 J
N,N-dimethylaniline	1,200	150	18	28	5 J	9 J	6 J	11	10	43	2 J	3 J
Methylene Chloride	1,500	<10	<1	110 D	<10	<10	<10 J	<10	<10	<5	<10	<5

MW-32									
Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	3 J	<10	<10 J	<10	<10	<15	<25	<12
Benzene	16	14	5 J	12 J	5 J	10	4 J	4 J	<5
Toluene	2 J	2 J	<10	<10 J	<10	<10	<5	<10	<5
Ethylbenzene	5 J	4 J	<10	<10 J	<10	<10	<5	<10	<5
Xylene	3 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Trichloroethene	<10	56	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6,300 D	<10	800 D	4,500 D	1,900 D	1,100 D	4,620 D	50	0.6 J
N,N-dimethylaniline	4 J	3 J	<10	<10	2 J	2 J	11	R	0.7 J

MW-33										
Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<10	5 J	<10 J	45 J	17 J	21	<18	11 J	88
Benzene	<10	<10	2 J	<10	4 J	<20	5 J	3 J	4 J	13
Toluene	<10	<10	0.7 J	<10	1 J	<20	<10	<5	<10	<5
Aniline	9 J	120	150	51	540 D	1,300 D	1,900 D	2,780 D	290 D	2,000
N,N-dimethylaniline	6 J	6 J	8 J	7 J	23	16	12	21	3 J	35 J
Methylene Chloride	<10	<10	5 J	11	330 DJ	370 B	<18	19	4 J	2,800 D

MW-1																	
Date	3/88	1/89	11/89	11/90	11/91	11/92	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<100	<100	<100	<100	<100	<1,000	<10	0.7 JN	<10	8 J	<10	<10	<12	<25	<12
Toluene	<1	<1	<1	<1	<1	<1	<5	<10	<10	<10	3 J	<10	<10	<5	<10	<5
Xylene	<1	<1	<1	<3	<3	<3	<5	<10	<10	<10	5 J	<10	<10	<10	<20	<10
Methylene Chloride	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10 J	10	<10	<5	<10	<5
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	990 J	<1,000	<1,000
Aniline	<10	<11	<10	<10	<10	<10	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

MW-3S														
Date	3/88	1/89	11/89	11/91	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<10,000	<10,000	2,900	<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12
Benzene	<1	<100	<100	10	<5	<10	1 J	<10	1 J	<10	3 J	<5	<10	<5
Toluene	<1	120	<100	10	<5	<10	0.7 J	<10	2 J	<10	8 J	<5	<10	<5
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5
Xylene	<1	<100	<100	31	<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000 J	370 J	<1,000	<1,000
Trichloroethene	50	1,100	100	<10	<5	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Aniline	<10	<11	<52	790	15	<10	9 J	<10	2 J	<10	690 D (69*)	1.7 J	<5	<5
N,N-dimethylaniline	<10	5,570	440	170	2 J	<10	<10	<10	1 J	<10	4 J	<5	R	<5
Methylene Chloride	110	4,700	2,700	<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5



LEGEND:

- ø UTILITY POLE
- CATCH BASIN
- PM PETROLEUM PIPE LINE MARKER
- GM GAS LINE MARKER
- SV SEWER VENT
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

SAMPLE IDENTIFICATION

MW-35									
Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<10	0.7 J	<10	<10 J	<10	<10	<5	<10	<5
Aniline	6 J	3 J	<10	<10	<10	<10	3 J	2 J	1,000
N,N-dimethylaniline	5 J	4 J	2 J	3 J	<10	2 J	4 J	R	<100
Acetone	<10	<10	<10 J	<10 J	<10	<10	<13	<25	<12

CONCENTRATION (ppb)

NOTES:

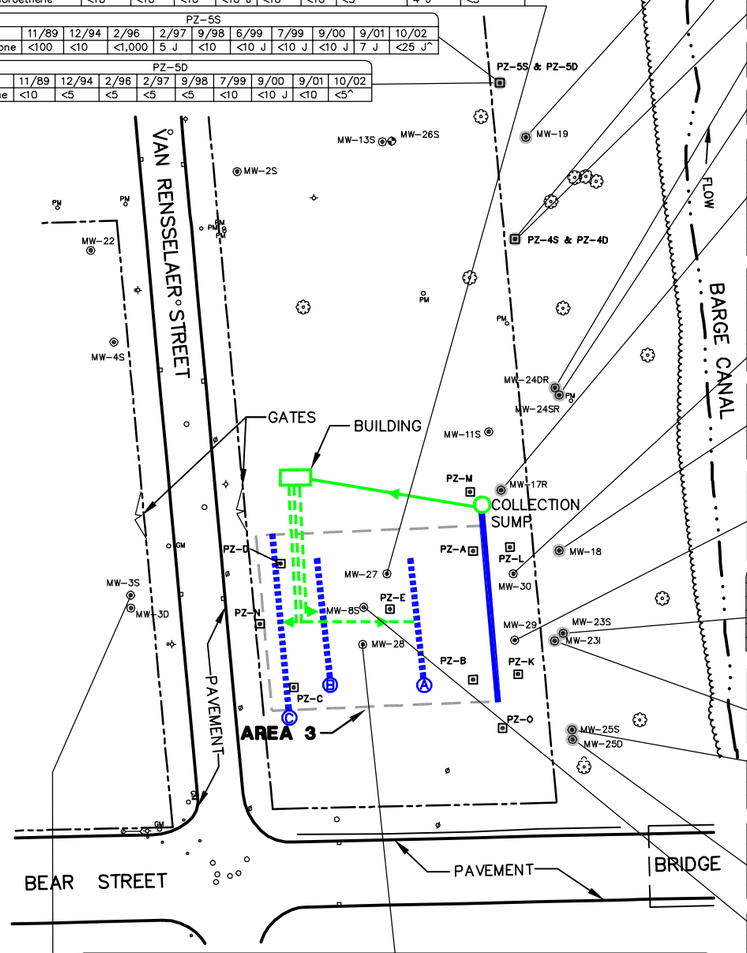
1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY DETECTED COCs ARE PRESENTED ON THIS FIGURE.
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. E = IDENTIFIES COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE INSTRUMENTS.
10. R = THE SAMPLE RESULT WAS REJECTED.
11. B = THE COMPOUND HAS BEEN FOUND IN THE SAMPLE AS WELL AS IN ITS ASSOCIATED BLANK; ITS PRESENCE IN THE SAMPLE MAY BE SUSPECT.
12. N = THIS ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE AN TENTATIVE IDENTIFICATION.
13. DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.
14. *= MW-3S WAS RESAMPLED ON 11/8/01 DUE TO ANILINE DETECTION DURING 9/2001 SAMPLING EVENT AT A CONCENTRATION OF 690 PPB. ANILINE WAS DETECTED ON 11/8/01 AT A CONCENTRATION OF 69 PPB.
15. THE 10/02 SAMPLING EVENT N,N-DIMETHYLANILINE DATA FOR MW-1, MW-3S, MW-32, MW-35, AND TW-01 WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS. THESE MONITORING WELLS WERE NOT RESAMPLED.

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR 1988 - MAY 2003 AREAS 1 & 2

ARCADIS

FIGURE 1



MW-27

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	23	<10 J	<10 J	<10 J	<10	<10	<18	9 J	<12
Benzene	3 J	4 J	6 J	4 J	5 J	5 J	7	3 J	8
Toluene	4 J	2 J	<10	<10	<10	<10	11	<10	11
Ethylbenzene	<10	3 J	8 J	3 J	5 J	2 J	12	<10	23
Xylene	3 J	8 J	2 J	1 J	2 J	<10	26	<20	51
Aniline	340 DJ	740 D	110 D	16 J	260 D	26	176,000 DJ	2,700 D	15,000 DJ
N,N-dimethylaniline	<10	<10	1 J	2 J	2 J	<10	19 J	100 J	11
Methylene Chloride	<10	<10	<10	1 J	<10	<10	<5	60 JN	43
Trichloroethene	<10	<10	<10	<10 J	<10	<10	<5	4 J	<5

PZ-5S

Date	11/89	12/94	2/96	2/97	9/98	6/99	7/99	9/00	9/01	10/02
Acetone	<100	<10	<1,000	5 J	<10	<10 J	<10 J	<10 J	7 J	<25 J^

PZ-5D

Date	11/89	12/94	2/96	2/97	9/98	7/99	9/00	9/01	10/02
Aniline	<10	<5	<5	<5	<5	<10	<10 J	<10	<5^

MW-19

Date	11/89	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10	5 J	<10	<10	<10	<10	<10	<10	<5	<5^	<5
Acetone	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	<10	<10	<25 J	<12
Aniline	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

PZ-4S

Date	11/89	11/90	11/91	11/92	8/95	8/96	8/97	2/99	6/99	3/00	3/01	4/02	10/02	5/03
Aniline	<10	<10	<10	<10	<5	<5	<6	<10	<5	<5	<10	8 (<5)**	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	3 J	<5 (<5)**	<5^	<5

PZ-4D

Date	11/89	11/90	11/91	11/92	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	4/02	5/03
N,N-dimethylaniline	<10	<10	<10	<10	0.8 J	<10	<10	<12	<10	<10	<10	<10	<5	<5

MW-24DR

Date	12/94	8/95	2/96	2/97	9/98	7/99	9/00	9/01	6/02	10/02
Aniline	<5	<5	<5	<5	<5	<10	<10 J	<10	ND**	<5^

MW-24SR

Date	12/94	8/95	2/96	2/97	9/98	6/99	7/99	3/00	9/01	6/02	10/02
Aniline	<5	<5	<5	<5	<5	<10 J	<10	<10 J	<10	ND**	<5^

MW-17R

Date	11/90	11/91	11/92	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<100	<100	<1,000	NA	11	<10	<10	<10	<10 J	<10	<10	<10	<25 J	<12
Benzene	<1	<1	<1	<5	<5	<10	<10	1 J	8 J	15 J	8 J	5 J	6	14	8
Trichloroethene	<1	<1	<1	<5	2J	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Methanol	<1,000	<1,000	<1,000	<1,000	NA	1,000	1,000	1,000	<1,000 J	<1,000 J	<1,000	<1,000	620 J	<1,000	<1,000
Aniline	<10	<10	<10	<5	NA	<5	<5	<10	<5	24 J	<10	<10	150 (<5)**	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	NA	<10	<10	<10	<10	4 J	<10	<10	110 (<5)**	<5^	<5
Methylene Chloride	<1	<1	<1	<11	<5	<10	<10	<10 J	<10	1 J	<10	<10	<5	<10	<5

MW-30

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	7 J	<10	<10	<10 J	<10	4 J	<10	<25 J	<62
Benzene	<10	<10	0.7 J	<10	<10 J	<10	2 J	<5	<10	<25
Trichloroethene	<10	<10	0.5 J	<10	<10 J	<10	<10	<5	<10	<25
Aniline	<10	<10	<10	18	9 J	8 J	8 J	250	R	18
N,N-dimethylaniline	<10	2 J	1 J	2 J	2 J	2 J	1 J	210	R	0.6 J
Methylene Chloride	<10	<10	<10	4 J	2 J	<10	<10	<5	<10	8 J

MW-18

Date	11/89	11/90	11/91	11/92	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Methanol	<1,000	<1,000	<1,000	<1,000	<200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000 J	<1,000	<1,000	720 J	<1,000	280 J
Aniline	<10	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	280 D (<5)**	<5^	<5
N,N-Dimethylaniline	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	200 D (<5)**	<5^	<5
Acetone	<100	<100	<100	<100	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	<10	<10	6 J	<12

MW-29

Date	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	7 J	<10	<10	<10 J	<10	<10	<10	<25 J	<12
Xylene	2 J	1 J	<10	<10	<10 J	<10	<10	<10	<20	<10
Aniline	<10	5 J	2 J	450 D	24 J	30	7 J	3 J	8	19
N,N-dimethylaniline	13	4 J	4 J	6 J	4 J	4 J	2 J	9	R	1 J
Methylene Chloride	<10	<10	<10	<10	<10 J	<10	<10	<6	4 JN	<3

MW-23S

Date	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	6/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<1,000	<1,000	<10	<10	12	<10	<10	<10 J	<10 J	<10	<10 J	<10	<10	<10	<25 J	<62
Aniline	<5	<5	<5	7	11	92	56	<10	<10 J	<10	<5	<10 J	<10	<10	<5	<5^	<5
N,N-dimethylaniline	<10	<10	<10	<10	<10	<10	7 J	10	2 J	<10	2 J	2 J	<10	<10	<5	<5^	<5
Methanol	<200	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000 J	<1000 J	<1,000	<1,000	<1,000	<1,000	380 J

MW-23I

Date	12/94	8/95	2/96	8/96	2/97	8/97	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<10	<1,000	<1,000	<10	<10	<10	<10	<10	<10 J	<10	<10 J	<10	4 J	<10	<25 J	<12
Xylene	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10 J	<10	2 J	<10	<20 J	<5
Methylene Chloride	<5	<10	<10	<10	<10	<10	<10	<10 J	<10	<10	<10 J	<10	<10	2 J	<10	<5
Aniline	<5	<5	<5	<5	<5	<5	<5	<10	<10	<5	<10 J	<10	<10	<5	<5	<5

MW-25S

Date	8/95	10/95	8/96	8/97	2/99	6/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Aniline	<5	<5	<5	<5	130	110 J	5 J	<5	<10 J	<10	<10	<5	<5^	<5
N,N-dimethylaniline	0.7 J	<10	<10	<10	<10	21 J	<10	<10	<10	<10	<10	<5	<5^	<5

MW-25D

Date	8/95	10/95	8/96	8/97	2/99	3/00	9/00	3/01	4/02	5/03
Acetone	<1,000	NA	15	<10	<10	<10	<10	<10	<10	<12
Trichloroethene	<5	3 J	<10	<10	<10	<10	<10	<10	<5	<5
N,N-dimethylaniline	1 J	<10	<10	<11	<10	<10	<10	<10	<5	<5
Aniline	<5	<5	<5	<5	<5	<10	<5	5 J	<5	<5

MW-8S

Date	1/89	11/89	11/91	8/95	9/98	2/99	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<1,000,000	470,000	<1,000,000	<1,000	<10,000 J	<20,000	10 J	<100,000	<50,000 J	<50,000	<400	2,100	120 J	<12
Benzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	22 J	<100,000	<50,000 J	<50,000	<400	50 J	23	20 J
Toluene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	240 J	<100,000	<50,000 J	<50,000	430	410	310	600 D
Ethylbenzene	<10,000	<10,000	<10,000	<250,000 D	<10,000	<20,000	58 J	<100,000	<50,000 J	<50,000	170 J	100 J	73	81
Xylene	<10,000	<10,000	<30,000	<250,000 D	<10,000	<20,000	220 J	<100,000	<50,000 J	<50,000	680	400	267	300
Methanol	430,000	300,000	150,000	22,000	7,900	16,000 JN	17,000	30,000 J	14,000 J	53,000	8,900 J	<1,000	<1,000	<1,000
Trichloroethene	<10,000	<10,000	<10,000	60,000 JD	3,300 J	11,000 J	11,000 J	<100,000	9,200 J	11,000 J	18,000 JD	9,600 J	3,100	6,700 D
Aniline	2,900	8,500	8,000	<25,000 D	1,200 J	30,000 D	24,000	62,000	42,000 J	90,000 D	21,000	793,000 D	80,000	79,000 D
N,N-dimethylaniline	24,000	52,000	33,000	380,000 D	26,000 D	120,000 D	77,000	270,000 D	59,000	120,000 D	29,000	773,000 D	21,000 J	29 J
Methylene Chloride	3,200,000	2,800,000	1,600,000	7,700,000 D	140,000	650,000 DB	450,000 D	1,300,000	540,000 BJ	990,000	440,000 BD	660,000 D	320,000	910,000 D

MW-28

Date	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Benzene	<5,000	<500	<10,000	<1,000 J	<400	<400	8	8 J	4 J
Toluene	<5,000	<500	<10,000	<1,000 J	<400	<400	6	6 J	2 J
Ethylbenzene	<5,000	<500	<10,000	<1,000 J	<400	<400	9	11	2 J
Xylene	<5,000	<500	<10,000	<1,000 J	<400	<400	10 J	12 J	8 J
Methanol	2,200	<1,000	<1,000 J	<1,000 J	<1,000	<1,000 J	<1,000	<1,000	<1,000
Aniline	546 D	1,100 D	1,300 D	540 DJ	3,200 D	1,000 D	33,400 D	2,700 D	1,000 DJ
N,N-dimethylaniline	54	40	30	<10	7 J	<10	57	R	3 J
Methylene Chloride	64,000 J	39,000 D	130,000 J	8,100 BJ	5,900 B	4,700 B	4,600 D	<10	52
Acetone	<5,000 J	<500 J	<10,000	<1,000 J	<400	<400	<49	14 J	13

MW-3S

Date	3/88	1/89	11/89	11/91	8/95	9/98	7/99	3/00	9/00	3/01	9/01	4/02	10/02	5/03
Acetone	<100	<10,000	<10,000	2,900	<1,000	<10	<10	<10 J	<10 J	<10	<10	<12	<25	<12
Benzene	<1	<100	<100	10	<5	<10	1 J	<10	1 J	<10	3 J	<5	<10	<5
Toluene	<1	120	<100	10	<5	<10	0.7 J	<10	2 J	<10	8 J	<5	<10	<5
Ethylbenzene	<1	<100	<100	4	<5	<10	<10	<10	<10 J	<10	1 J	<5	<10	<5
Xylene	<1	<100	<100	31	<5	<10	<10	<10	<10 J	<10	2 J	<10	<20	<10
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J	<1,000	<1,000	<1,000 J	370 J	<1,000	<1,000
Trichloroethene	50	1,100	100	<10	<5	<10	<10	<10	<10 J	<10	<10	<5	<10	<5
Aniline	<10	<11	<52	790	15	<10	9 J	<10	2 J	<10	690 D (69*)	1.7 J	<5	<5
N,N-dimethylaniline	<10	5,570	440	170	2 J	<10	<10	<10	1 J	<10	4 J	<5	R	<5
Methylene Chloride	110	4,700	2,700	<10	<10	<10	<10	<10	<10 J	<10	<10	<5	<10	<5

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PM PETROLEUM PIPE LINE MARKER
- GM GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF TREELINE
- TREE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- OR BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- GROUNDWATER INFILTRATION TRENCH
- PIPING TO BUILDING
- PIPING FROM BUILDING

SAMPLE IDENTIFICATION

MW-25

Date	8/95	10/95
Acetone	<1,000	NA
Trichloroethene	<5	3 J
N,N-dimethylaniline	1 J	<10
Aniline	<5	<5

CONCENTRATION (ppb)

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY DETECTED COCs ARE PRESENTED ON THIS FIGURE.
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. E = IDENTIFIES COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE INSTRUMENTS.
10. B = THE COMPOUND HAS BEEN FOUND IN THE SAMPLE AS WELL AS IN ITS ASSOCIATED BLANK; ITS PRESENCE IN THE SAMPLE MAY BE SUSPECT.
11. N = THIS ANALYSIS INDICATES THE PRESENCE OF A COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE AN TENTATIVE IDENTIFICATION.
12. R = THE SAMPLE RESULT WAS REJECTED.
13. DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.
14. THE ANILINE DATA FOR THE 9/98 SAMPLING EVENT FOR MW-18, MW-19, MW-23S, MW-23I, MW-24SR, MW-24DR, MW-28, PZ-5S AND PZ-5D WERE OBTAINED IN 12/98, BECAUSE THE 9/98 RESULTS WERE REJECTED DUE TO LABORATORY ERROR.
15. * = MW-3S WAS RESAMPLED ON 11/8/01 DUE TO ANILINE DETECTION DURING 9/2001 SAMPLING EVENT AT A CONCENTRATION OF 690 PPB. ANILINE WAS DETECTED ON 11/8/01 AT A CONCENTRATION OF 69 PPB.
16. ** = MONITORING WELLS MW-17R, MW-18, AND PZ-4S WERE RESAMPLED FOR ANILINE AND N,N-DIMETHYLANILINE ON JUNE 18, 2002 DUE TO N,N-DIMETHYLANILINE AND/ OR ANILINE DETECTION AT THESE PERIMETER MONITORING LOCATIONS DURING THE APRIL 2002 SAMPLING EVENT. THE RESULTS OF THIS RESAMPLING EVENT ARE SHOWN IN PARENTHESIS. MONITORING WELLS MW-24SR AND MW-24DR WERE ALSO SAMPLED ON JUNE 18, 2002 FOR ANALYSIS OF ANILINE AND N,N-DIMETHYLANILINE. THESE COMPOUNDS WERE NOT DETECTED.
17. ^ = THE ANILINE AND N,N-DIMETHYLANILINE DATA FOR THE 10/02 SAMPLING EVENT FOR MW-17R, MW-18, MW-19, MW-23S, MW-23I, MW-24SR, MW-24DR, MW-25S, PZ-4S, PZ-5S, AND PZ-5D WERE OBTAINED IN 1/03, BECAUSE THE 10/02 RESULTS WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS.
18. THE 10/02 SAMPLING EVENT N,N-DIMETHYLANILINE DATA FOR MW-3S, MW-28 AND MW-29 AND THE 10/02 SAMPLING EVENT ANILINE AND N,N-DIMETHYLANILINE DATA FOR MW-30 WERE REJECTED DUE TO MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES BELOW CONTROL LIMITS. THESE MONITORING WELLS WERE NOT RESAMPLED.

0 120' 240'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR 1988 - MAY 2003 AREA 3

ARCADIS

FIGURE 2

TW-02R		
Date	10/03	6/04
Acetone	68	140 J
Benzene	28	19 J
Toluene	75 J	39 J
Ethylbenzene	<5	31 J
Xylene	<10	111 J
Methanol	<1,000	<1,000
Trichloroethene	2 J	<10 J
Aniline	92,000 D	82,000
N,N-dimethylaniline	<260	<5,200
Methylene Chloride	91	4 J

TW-02RR				
Date	11/04	6/05	11/05	6/06
Acetone	18 J	7.2 J	26 J	16
Benzene	4 J	3.6	6	4.4
Toluene	8 J	2.1 J	4.1	1.3 J
Ethylbenzene	4 J	3.6 J	3.6	2.7 J
Xylene	16 J	9.6	11	6.7
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<10	0.3 J	<0.4	<1.0
Aniline	7,100 D	8,400	14,000	10,000
N,N-dimethylaniline	<5.0	<50	<110 J	<100
Methylene Chloride	<10	<3.0	<0.5	<3.0

MW-35						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	5 J	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1000	<1000	240 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	4 J	30	82	<1.0	<1.0	0.4 J
N,N-dimethylaniline	<5.0	4 J	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

MW-36						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	580 D	22 J	13 J	24 J	77 J	25
Benzene	<5.0	<10 J	<10	2.1	3.6	1.6
Toluene	<5.0	<10 J	<10	<5.0	2.0 J	0.7 J
Ethylbenzene	<5.0	<10 J	<10	<4.0	0.6 J	<4.0
Xylene	<10	<20 J	<20	1.0 J	2.8 J	1.2 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10 J	<10	<1.0	<1.0	<1.0
Aniline	100	33	22	1,200	1,600	76
N,N-dimethylaniline	<5.0	7	<5.0	<5.4	<10 J	1.9
Methylene Chloride	<5.0	<10 J	<10	<3.0	<3.0	<3.0

MW-34						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	9 J	24 J	<25	5.6 J	20 J	6.4
Benzene	<5.0	<10	<10	0.7 J	<0.3	0.6 J
Toluene	<5.0	<10	<10	0.9 J	0.9	0.5 J
Ethylbenzene	<5	<10	<10	<4.0	<0.5	<4.0
Xylene	<10	<20	<20	1.2 J	1.1	<5.0
Methanol	<1000	<1000	180 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	0.4 J	<0.4	<1.0
Aniline	18	30	14	16	12	16
N,N-dimethylaniline	<5.0	<5.0	<5.0	2.5	2 J	2.3
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0

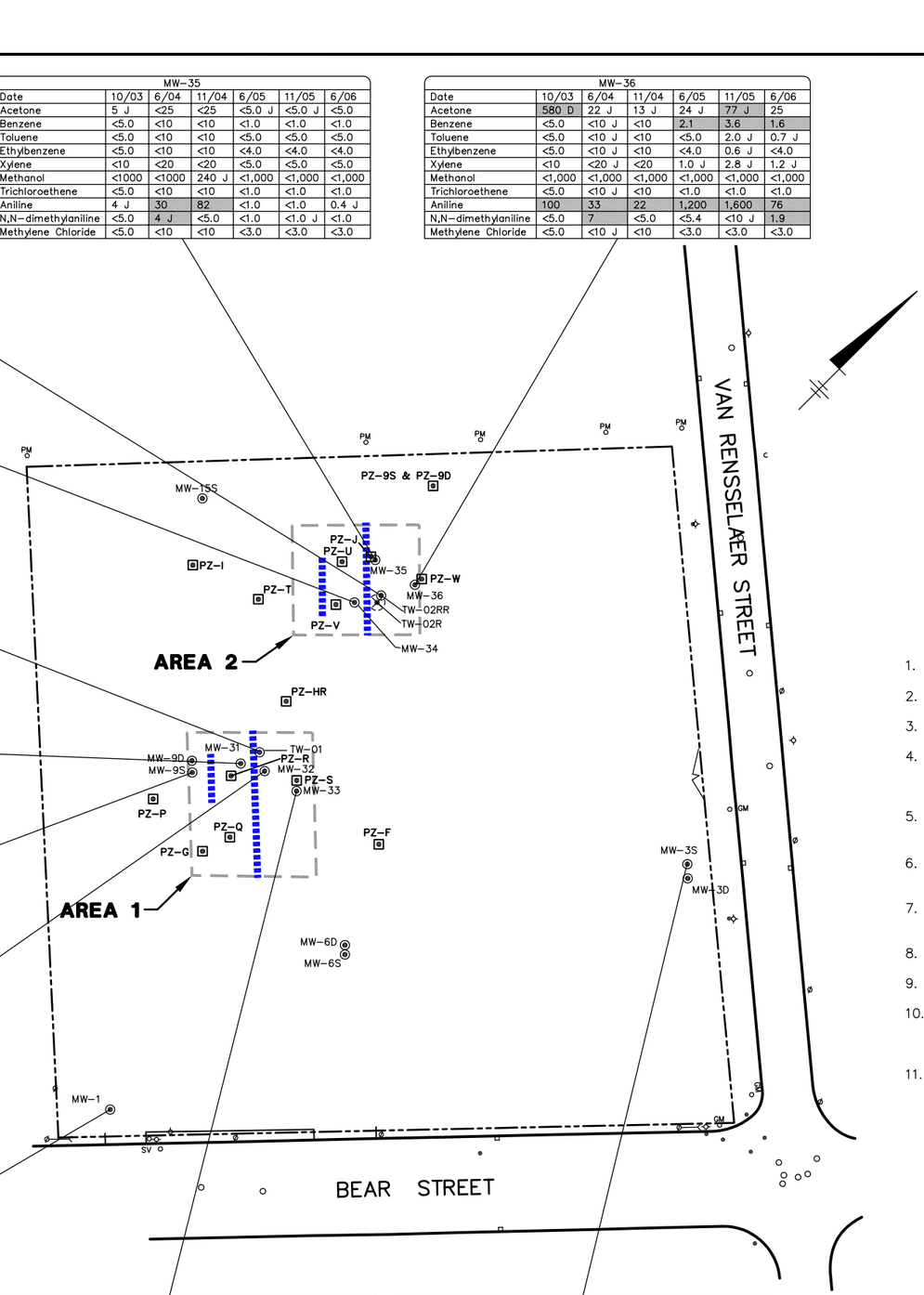
TW-01						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	6 J	<25	<5.0 J	<1.3 J	<5.0 J
Benzene	6	3 J	2 J	1.8	1.9	1 J
Toluene	<5.0	<10	<10	<5.0	<0.4	<5.0 J
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0 J
Xylene	<10	<20	<20	<5.0	<0.4	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	0.6 J	<5.0	<5.0	<1.0	<1.0	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	0.8 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0 J

MW-31						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	1,200 D	15 J	<25	<5.0 J	<1.3 J	<5.0 J
Benzene	13	12	9 J	11	6.7	11 J
Toluene	<5.0	<10	<10	<5.0	<0.4	0.6 J
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0 J
Xylene	<5.0	<20	<20	1.3 J	0.6	1.7 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	88	3 J	<5.0	3.2	16	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	2.7	<1.0 J	2.4 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	3.4

MW-9S						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	14 J	<25	44 J	<1.3 J	<5.0 J
Benzene	2 J	6 J	4 J	1.9	3.5	1.1 J
Toluene	<5	2 J	2 J	3.2 J	3.8	2.3 J
Ethylbenzene	5	8 J	9 J	24	11	25 J
Xylene	19	19 J	30 J	64	33	60 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0 J
Aniline	1 J	<5.0	<5.0	2.6	1.4	<1.1 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	1.9	6.1 J	3.8 J
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0 J

MW-32						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	20	6 J	<25	<5.0 J	<5.0 J	<5.0 J
Benzene	2 J	1 J	<10	1	<1.0	<1.0 J
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0 J
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0 J
Xylene	<10	<20	<20	<5.0	<5.0	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0 J
Aniline	<5.0	1 J	<5.0	0.4 J	<1.0	<1.0 J
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0 J
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0 J

MW-1						
Date	10/03	8/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<1.3 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<0.3	<1.0 J
Toluene	<5.0	<10	–	<5.0	<0.4	<5.0 J
Ethylbenzene	<5.0	<10	–	<4.0	<0.5	<4.0 J
Xylene	<10	<20	–	<0.5	<0.5	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10	–	<1.0	<0.4	<1.0 J
Aniline	2 J	<5.0	<5.0	0.2 J	<1.0	<1.0 J
N,N-Dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0 J
Methylene Chloride	<5.0	<10	–	<3.0	<0.5	<3.0 J



MW-33						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	22	9 J	–	<5.0 J	<5.0 J	<5.0 J
Benzene	2 J	12 J	–	11	16	6.7 J
Toluene	<5.0	<10 J	–	1.0 J	1.8 J	0.7 J
Ethylbenzene	<5.0	<10 J	–	<4.0	<4.0	<4.0 J
Xylene	<10	<20 J	–	<5.0	<5.0	<5.0 J
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000 J
Trichloroethene	<5.0	<10 J	–	<1.0	<1.0	<1.0 J
Aniline	1,900 D	2,700 D	2,700 D	1,800	3,500	370 J
N,N-dimethylaniline	<6.0	5 J	5 J	<10	<25 J	3.5 J
Methylene Chloride	<5.0	<10 J	–	<3.0	<3.0	<3.0 J

MW-3S						
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	6 J	<25	<5.0 J	<1.3 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<0.3	<1.0
Toluene	<5.0	<10	<10	<5.0	<0.4	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<0.5	<4.0
Xylene	<10	<20	<20	<5.0	<0.4	<5.0
Methanol	<1,000	<1,000	150 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<0.4	<1.0
Aniline	4 J	0.8 J	4 J	15	<1.0	<1.0
N,N-dimethylaniline	<5.0	<6.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<0.5	<3.0

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PETROLEUM PIPE LINE MARKER (PM)
- GAS LINE MARKER (GM)
- SEWER VENT (SV)
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- TW-02R REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER INFILTRATION TRENCH

SAMPLE IDENTIFICATION

MW-35					
Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	5 J	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1000	<1000	240 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	4 J	30	82	<1.0	<1.0	0.4 J
N,N-dimethylaniline	<5.0	4 J	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

CONCENTRATION (ppb)

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR THAT HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURE 1).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. DURING THE AUGUST 2004 SUPPLEMENTAL REMEDIAL ACTIVITIES, MONITORING WELL TW-02R WAS REMOVED AND TW-02RR WAS CONSTRUCTED OUTSIDE THE SOIL REMOVAL AREA IN THE VICINITY OF TW-02R.
11. THE 11/04 SAMPLING EVENT VOLATILE ORGANIC COMPOUND (VOC) DATA FOR MW-33 AND MW-1 WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.

0 100' 200'

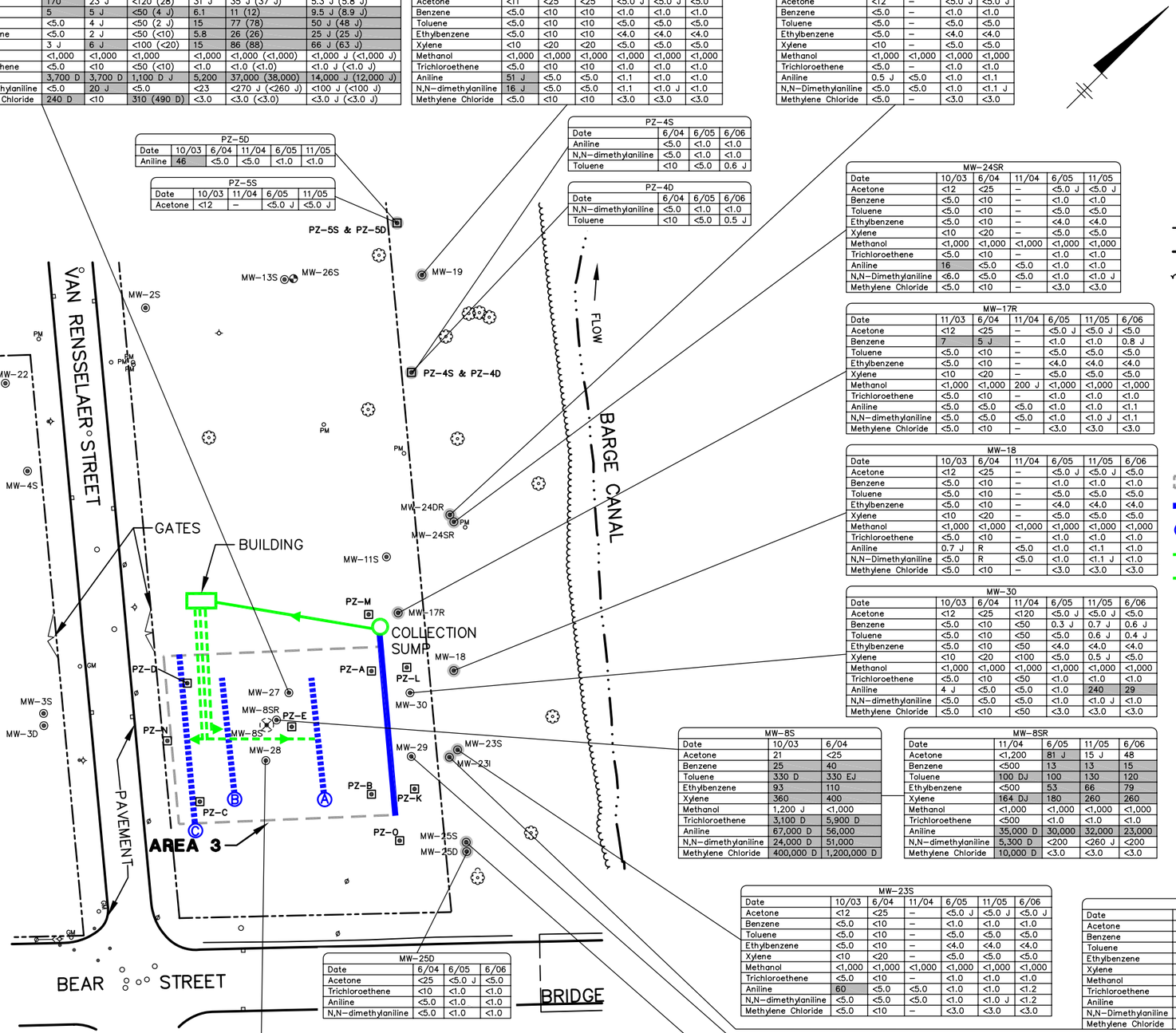
GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR OCTOBER 2003 - JUNE 2006 AREAS 1 & 2

ARCADIS

FIGURE 3



MW-27

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	170	23 J	<120 (28)	31 J	35 J (37 J)	5.3 J (5.8 J)
Benzene	5	5 J	<50 (4 J)	6.1	11 (12)	9.5 J (8.9 J)
Toluene	<5.0	4 J	<50 (2 J)	15	77 (78)	50 J (48 J)
Ethylbenzene	<5.0	2 J	<50 (<10)	5.8	26 (26)	25 J (25 J)
Xylene	3 J	6 J	<100 (<20)	15	86 (88)	66 J (63 J)
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000 (<1,000)	<1,000 J (<1,000 J)
Trichloroethene	<5.0	<10	<50 (<10)	<1.0	<1.0 (<1.0)	<1.0 J (<1.0 J)
Aniline	3,700 D	3,700 D	1,100 D J	5,200	37,000 (38,000)	14,000 J (12,000 J)
N,N-dimethylaniline	<5.0	20 J	<5.0	<23	<270 J (<260 J)	<100 J (<100 J)
Methylene Chloride	240 D	<10	310 (490 D)	<3.0	<3.0 (<3.0)	<3.0 J (<3.0 J)

MW-19

Date	10/03	6/04	11/04	6/05	11/05 J	6/06
Acetone	<11	<25	<25	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<10	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<10	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	<10	<4.0	<4.0	<4.0
Xylene	<10	<20	<20	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<10	<1.0	<1.0	<1.0
Aniline	51 J	<5.0	<5.0	<1.1	<1.0	<1.0
N,N-dimethylaniline	16 J	<5.0	<5.0	<1.1	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<10	<3.0	<3.0	<3.0

MW-24DR

Date	10/03	11/04	6/05	11/05
Acetone	<12	–	<5.0 J	<5.0 J
Benzene	<5.0	–	<1.0	<1.0
Toluene	<5.0	–	<5.0	<5.0
Ethylbenzene	<5.0	–	<4.0	<4.0
Xylene	<10	–	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	–	<1.0	<1.0
Aniline	0.5 J	<5.0	<1.0	<1.1
N,N-Dimethylaniline	<5.0	<5.0	<1.0	<1.1 J
Methylene Chloride	<5.0	–	<3.0	<3.0

PZ-5D

Date	10/03	6/04	11/04	6/05	11/05
Aniline	46	<5.0	<5.0	<1.0	<1.0

PZ-5S

Date	10/03	11/04	6/05	11/05
Acetone	<12	–	<5.0 J	<5.0 J

PZ-4S

Date	6/04	6/05	6/06
Aniline	<5.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<1.0	<1.0
Toluene	<10	<5.0	0.6 J

PZ-4D

Date	6/04	6/05	6/06
N,N-dimethylaniline	<5.0	<1.0	<1.0
Toluene	<10	<5.0	0.5 J

MW-24SR

Date	10/03	6/04	11/04	6/05	11/05
Acetone	<12	<25	–	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0
Aniline	16	<5.0	<5.0	<1.0	<1.0
N,N-Dimethylaniline	<6.0	<5.0	<5.0	<1.0	<1.0 J
Methylene Chloride	<5.0	<10	–	<3.0	<3.0

MW-17R

Date	11/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0
Benzene	7	5 J	–	<1.0	<1.0	0.8 J
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	200 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	<5.0	<5.0	<1.0	<1.0	<1.1
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.1
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-18

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	0.7 J	R	<5.0	<1.0	<1.1	<1.0
N,N-Dimethylaniline	<5.0	R	<5.0	<1.0	<1.1 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-30

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	<120	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<50	0.3 J	0.7 J	0.6 J
Toluene	<5.0	<10	<50	<5.0	0.6 J	0.4 J
Ethylbenzene	<5.0	<10	<50	<4.0	<4.0	<4.0
Xylene	<10	<20	<100	<5.0	0.5 J	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<50	<1.0	<1.0	<1.0
Aniline	4 J	<5.0	<5.0	<1.0	240	29
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<50	<3.0	<3.0	<3.0

MW-8S

Date	10/03	6/04
Acetone	21	<25
Benzene	25	40
Toluene	330 D	330 EJ
Ethylbenzene	93	110
Xylene	360	400
Methanol	1,200 J	<1,000
Trichloroethene	3,100 D	5,900 D
Aniline	67,000 D	56,000
N,N-dimethylaniline	24,000 D	51,000
Methylene Chloride	400,000 D	1,200,000 D

MW-8SR

Date	11/04	6/05	11/05	6/06
Acetone	<1,200	81 J	15 J	48
Benzene	<500	13	13	15
Toluene	100 DJ	100	130	120
Ethylbenzene	<500	53	66	79
Xylene	164 DJ	180	260	260
Methanol	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<500	<1.0	<1.0	<1.0
Aniline	35,000 D	30,000	32,000	23,000
N,N-dimethylaniline	5,300 D	<200	<260 J	<200
Methylene Chloride	10,000 D	<3.0	<3.0	<3.0

MW-23S

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.2
Aniline	60	<5.0	<5.0	<1.0	<1.0	<1.2
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.2
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-23I

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<5.0	<5.0	0.6 J
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	1 J	<5.0	<1.0	<1.0	<1.0
N,N-Dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-25D

Date	6/04	6/05	6/06
Acetone	<25	<5.0 J	<5.0
Trichloroethene	<10	<1.0	<1.0
Aniline	<5.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<1.0	<1.0

MW-25S

Date	11/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	–	<5.0 J	<5.0 J	<5.0 J
Benzene	<5.0	<10	–	<1.0	<1.0	<1.0
Toluene	<5.0	<10	–	<4.0	<5.0	<5.0
Ethylbenzene	<5.0	<10	–	<4.0	<4.0	<4.0
Xylene	<10	<20	–	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	–	<1.0	<1.0	<1.0
Aniline	<5.0	<5.0	<5	<1.1	<1.0	<1.0
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.1	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	–	<3.0	<3.0	<3.0

MW-29

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	<12	<25	<120	<5.0 J	<5.0 J	<5.0
Benzene	<5.0	<10	<50	<1.0	<1.0	<1.0
Toluene	<5.0	<10	<50	<5.0	<5.0	<5.0
Ethylbenzene	<5	<10	<50	<4.0	<4.0	<4.0
Xylene	<10	<20	<100	<5.0	<5.0	<5.0
Methanol	<1,000	<1,000	420 J	<1,000	<1,000	<1,000
Trichloroethene	<5.0	<10	<50	<1.0	<1.0	<1.0
Aniline	2 J	3 J	<5.0	<1.0	<1.0	<1.0
N,N-dimethylaniline	<5.0	<5.0	<5.0	<1.0	<1.0 J	<1.0
Methylene Chloride	<5.0	<10	<50	<3.0	<3.0	<3.0

MW-28

Date	10/03	6/04	11/04	6/05	11/05	6/06
Acetone	24	20 J	<120 (<25)	5.2 J	6.8 J (7.8 J)	<5.0J (<5.0 J)
Benzene	11	4 J	<50 (4 J)	4.5	6.1 (5.8)	6.0J (6.3 J)
Toluene	6	2 J	<50 (<10)	1.2 J	<5.0 (<5.0)	1.2 J (1.3 J)
Ethylbenzene	12	5 J	<50 (5 J)	4.6	4.7 (4.7)	5.3J (5.4 J)
Xylene	13 J	4 J	<100 (3 J)	3.9 J	<5.0 (<5.0)	4.2 J (4.3 J)
Methanol	<1,000	<1,000	190 J	<1,000	<1,000 (<1,000)	<500J(<1,000 J)
Trichloroethene	<5	<10	<50 (<10)	<1.0	<1.0 (<1.0)	<1.0J (<1.0 J)
Aniline	1,900 D	910 D	640 D J	630	380 (350)	430J (530 J)
N,N-dimethylaniline	<5.0	<5.0	<5.0	<5.0	<2.2 J (<2.1 J)	<2.1J (<5.0 J)
Methylene Chloride	<5.0	<10	<50 (<10)	<3.0	<3.0 (<3.0)	<3.0J (<3.0 J)

LEGEND:

- UTILITY POLE
- CATCH BASIN
- PMO PETROLEUM PIPE LINE MARKER
- GMO GAS LINE MARKER
- HYDRANT
- WATER VALVE
- MANHOLE
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF TREELINE
- TREE
- MW-19 GROUNDWATER MONITORING WELL
- PZ-A PIEZOMETER
- OR BIANNUAL DOWNGRADIENT PERIMETER GROUNDWATER MONITORING LOCATION
- MW-26S PUMPING WELL
- MW-8S REMOVED GROUNDWATER MONITORING WELL
- APPROXIMATE BOUNDARY OF AREA
- GROUNDWATER WITHDRAWAL TRENCH
- A GROUNDWATER INFILTRATION TRENCH
- PIPING TO BUILDING
- PIPING FROM BUILDING

SAMPLE IDENTIFICATION

CONCENTRATION (ppb)

MW-8S

Date	10/03	6/04
Acetone	21	<25
Benzene	25	40
Toluene	330 D	330 EJ
Ethylbenzene	93	110
Xylene	360	400
Methanol	1,200 J	<1,000
Trichloroethene	3,100 D	5,900 D
Aniline	67,000 D	56,000
N,N-dimethylaniline	24,000 D	51,000
Methylene Chloride	400,000 D	1,200,000 D

DETECTIONS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS ARE INDICATED BY SHADING.

NOTES:

1. REPLACED MONITORING WELLS ARE IDENTIFIED WITH AN "R" (e.g., MW-24DR).
2. TRENCH LOCATIONS ARE APPROXIMATE.
3. MONITORING LOCATIONS ARE APPROXIMATE.
4. FIGURE ONLY SHOWS COC CONCENTRATIONS AT MONITORING LOCATIONS WITHIN THE IMPACTED AREAS AND THE CHEMICAL PROCESS CONTROL MONITORING LOCATIONS.
5. ONLY COC CONCENTRATIONS DETECTED OR HAVE BEEN DETECTED ARE PRESENTED ON THIS FIGURE (SEE ATTACHMENT A FIGURE 2).
6. < = COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.
7. J = THE COMPOUND WAS POSITIVELY IDENTIFIED; HOWEVER THE ASSOCIATED NUMERICAL VALUE IS AN ESTIMATED CONCENTRATION ONLY.
8. D = CONCENTRATION IS BASED ON DILUTED SAMPLE ANALYSIS.
9. R = THE SAMPLE RESULT WAS REJECTED.
10. E = THE COMPOUND WAS QUANTITATED ABOVE THE CALIBRATION RANGE.
11. THE 6/04 SAMPLING EVENT ANILINE AND N,N-DIMETHYLANILINE DATA FOR MW-18 WERE REJECTED DUE TO THE DEVIATION FROM A SURROGATE RECOVERY BELOW 10 PERCENT. THIS MONITORING WELL WAS NOT RESAMPLED.
12. DURING THE AUGUST 2004 SUPPLEMENTAL REMEDIAL ACTIVITIES, MONITORING WELL MW-8S WAS REMOVED AND MW-8SR WAS CONSTRUCTED DOWNGRADIENT OF THE SOIL REMOVAL AREA IN THE VICINITY OF MW-8S.
13. THE 11/04 SAMPLING EVENT VOLATILE ORGANIC COMPOUND (VOC) DATA FOR MW-17R, MW-18, MW-23I, MW-23S, MW-24DR, MW-24SR, MW-25S, PZ-5D, AND PZ-5S WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. AS DETAILED IN THE BIANNUAL REPORT, THESE MONITORING WELLS WERE NOT RESAMPLED.
14. THE 11/04 SAMPLING EVENT VOC INITIAL DATA FOR MW-27, MW-28, MW-29, AND MW-30 WERE INADVERTENTLY LOST DUE TO LABORATORY EQUIPMENT FAILURE. HOWEVER, VALID DATA WAS OBTAINED FROM SUBSEQUENT DILUTIONS OF THESE SAMPLES, RESULTING IN HIGHER DETECTION LIMITS. THE VOC RESULTS OBTAINED FROM THE DUPLICATE SAMPLES COLLECTED AT MW-27 AND MW-28 HAVE LOWER DETECTION LIMITS AND ARE PRESENTED ON THIS FIGURE IN PARENTHESES.

0 100' 200'

GRAPHIC SCALE

McKESSON ENVIROSYSTEMS
FORMER BEAR STREET FACILITY
SYRACUSE, NEW YORK
PERIODIC REVIEW REPORT

GROUNDWATER MONITORING DATA SUMMARY FOR OCTOBER 2003 - JUNE 2006 AREA 3

ARCADIS

FIGURE 4

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: N.SMITHGALL L: FORAKER LD: PIC: D. ULM PM: D. PENNIMAN TM: D. PENNIMAN LYR: ON=*;OFF=*REF
G:\ENVCAD\SYRACUSE\ACTIB\0026003\0000\0019\0DWG\MARCH09\26003C02.DWG LAYOUT: 4 SAVED: 8/4/2011 2:36 PM ACADVER: 18.0S (LMS TECH)
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XREFS: 26003X01 26003XBL
PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/4/2011 2:53 PM BY: JONES, WENDY

ARCADIS

Attachment B

Validated Analytical Laboratory Reports

ARCADIS

ATTACHMENT C

IC/EC Certification Form

Enclosure 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **734020**

Site Name McKesson Envirosystems (Inland Site)

Site Address: 400 Bear Street West Zip Code: 13204
City/Town: Syracuse
County: Onondaga
Site Acreage: 8.6

Reporting Period: January 01, 1998 to July 15, 2011

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☐	☒

IF THE ANSWER TO EITHER QUESTION 6 OR 7 1S NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

A Corrective Measures Work Plan must be submitted along with this form to address these

Signature of Owner, Remedial Party or Designated Representative

Jean Mescher, Director, Environmental Services

7/29/11
Date

SITE NO. 734020 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
029-300-380	MCKESSON CORP	Monitoring Plan O&M Plan Site Management Plan Soil Management Plan
029-300-380	MCKESSON CORP	Ground Water Use Restriction Site Management Plan
029-300-390	MCKESSON CORP	Monitoring Plan O&M Plan Site Management Plan Soil Management Plan
029-300-390	MCKESSON CORP	Ground Water Use Restriction Site Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
029-300-380	Fencing/Access Control Groundwater Containment
029-300-380	Groundwater Containment
029-300-390	Fencing/Access Control Groundwater Containment
029-300-390	Groundwater Containment

Control Description for Site No. 734020

Control Description for Site No. 734020

Parcel: 029-300-380

Decision Document-OU-1 ROD was Signed March 18, 1994.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; IC/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Decision Document-OU-1 ROD was Signed March 18, 1994.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Groundwater use restriction is called out in the ROD OU-1.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; IC/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Decision Document-OU-2 ROD was Signed March 19, 1997.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Groundwater use restriction is called out in the ROD OU-1.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; IC/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Control Description for Site No. 734020

Parcel: 029-300-390

Decision Document-OU-1 ROD was Signed March 18, 1994.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Groundwater use restriction is called out in the ROD OU-1.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; IC/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Decision Document-OU-1 ROD was Signed March 18, 1994.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Groundwater use restriction is called out in the ROD OU-1.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; IC/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Decision Document-OU-1 ROD was Signed March 18, 1994.
As referenced in the ROD Soil Management Plan-needs to be in place due to the 12 inches of clean soil graded onsite.

Site Management Plan Needs to contain a Long Term Monitoring Plan to define the Ground water samples required, Laboratory analysis required, and the Period at which the sampling events occurred; 0 and M Plan to define Operations and Maintenance Required onsite through out the year; 1C/EC Plan to list IC and EC onsite and method for checking protectiveness.

Ground Water Containment-is maintained through collection trenches
Fencing/Access control-A perimeter fence is onsite to restrict access

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☐	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. 734020

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 and/or 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner or Remedial Party Rendering Certification Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____
print name print business address

am certifying as a Professional Engineer for the _____
(Owner or Remedial Party)

_____ _____ _____
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification Stamp (Required for PE) Date

Enclosure 2

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional / Engineering Controls (Boxes 3,4 and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

Where the only control is an Institutional Control on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner.

* Where the site has Institutional and Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Corrective Measures Work Plan
McKesson Envirosystems–Bear Street Site
Syracuse, New York
Site No. 07-34-020

As per the March 1994 Record of Decision of Operable Unit #1 of the McKesson Envirosystems – Bear Street Site, deed restrictions for the two parcels of the site need to be placed to prevent future use of and potential human exposure to site groundwater. The deed restrictions will serve as an institutional control. As per DER-33 (NYSDEC 2010c), a deed restriction is required (rather than an environmental easement or environmental notice) because the site is a Class 2 Site and the ROD was issued prior to October 7, 2003. As of August 15, 2011, the deed notice is not in place.

ARCADIS is currently awaiting the deed restriction paperwork from NYSDEC. Once the paperwork is received, the site Respondents will complete the deed restriction process as outlined in Section V.2.a.b.7 of DEC-33 (Institutional Controls: A Guide to Drafting and Recording Institutional Controls). ARCADIS is moving forward with satisfying the requirements of the deed restriction paperwork, including an American Land Title Association survey scheduled for early August 2011.