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CHRYSLER

Stationary Environmental Affairs

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Lindsay C. Taliaferro
UIC Manager
Division of Drinking and Ground Water
Ohio Environmental Protection Agency
Lazarus Government Center
50 W, Town St., Suite 700
Columbus, OH 43215

SUBJECT: Response to OEPA Requests for Information, May 30, 2008, and October 10, 2008

Dear Mr. Taliaferro:

Chrysler is in receipt of your October 10, 2008 letter requesting additional information related to the groundwater injection activities at the Dayton Thermal Products (DTP) Facility, located at 1600 Webster Street, Dayton, Ohio. This letter was received in response to information previously submitted to the Ohio Environmental Protection Agency (OEPA) by Chrysler on August 5, 2008, in response to your May 30, 2008 correspondence requesting additional information related to the Class V injection activities at the DTP Facility. The following information addresses the information requests contained in both the May 30, 2008, and October 10, 2008 letters, as modified per the agreement reached during our November 11, 2008 meeting; and during a telephone conversation between Chrysler and OEPA on December 23, 2008, along with supplementary information regarding investigation and remedial activities recently conducted at the site.

BACKGROUND

The soil and groundwater at the former DTP has been impacted by chlorinated volatile organic compounds (CVOCs), primarily trichloroethene (TCE). The site geology consists of sand and gravel extending to a depth of approximately 80 feet, underlain by a clay-rich glacial till, which acts as a confining unit beneath the DTP. The sand and gravel aquifer, which extends from a depth of 20 to 80 feet below ground surface, exhibits a hydraulic conductivity on the order of 0.35 centimeters per second (cm/sec.), or 992 feet per day (ft/day), based on pumping tests conducted at the site. The site is located between, and upstream of the confluence of, two major rivers, which together significantly affect the hydraulic heads in this highly transmissive aquifer, and which control the groundwater dynamics within the regional groundwater systems.

In 2000, Chrysler voluntarily implemented an aggressive remediation program to abate existing contaminant sources associated with the former manufacturing processes and remediate on-site impacted soil and groundwater. The remediation included the design, construction and operation of a soil vapor extraction (SVE) system to remediate CVOC impacted soil in the source areas and an in-situ groundwater extraction/re-injection system to remediate groundwater beneath the site.

The on-site groundwater remediation system began operation in July 2004, and has been operating since that time. As required by the Class V groundwater injection permit, monthly samples of the groundwater system injectate are collected, and the results reported to the OEPA on a monthly basis. Since initiation and implementation of the remedial actions at the DTP, significant improvement in groundwater quality

and source removal has been documented. The Class V injection permit for the groundwater remediation system also requires that injected water is captured by the extraction wells. Through water elevation mapping, flow calculations and site-wide groundwater modeling, the current system shows complete capture of the re-injected groundwater at the DTP site. Details on both the remedial approach and improvements in site conditions are included in this letter.

REQUESTED INFORMATION – October 10, 2008

Chrysler provides the following responses to the seven specific questions (in italics, as provided by the OEPA:

1. … Chrysler needs to submit an amended response with a capture zone analysis performed following the evaluation methodology recommended by US EPA…

Chrysler Response:
See the Chrysler response #1 to the May 30, 2008, request for information.

2. … As part of demonstrating that contamination is not migrating away from the Dayton-Behr facility due to the permitted injection activities, please submit:

- *a. Contamination concentration maps illustrating the data presented on Table 2 for November 2003, November 2005, and February 2008.*
- *b. Cross sections showing the vertical concentrations of the contaminants listed on Table 2.*
- *c. The average monthly discharge for the extraction wells and the average monthly injection rate for the injection wells*

Chrysler Response:
Contamination concentration maps and cross sections are presented and referred to in the Additional Information section below. Maps and cross sections have been included as Figures 26 through 130. The average monthly extraction and injection rates are included in Table 3. The content of these tables and figures is based on the following: a meeting between Chrysler and the OEPA on November 3, 2008; correspondence from Chrysler to OEPA dated November 11, 2008; and a telephone conversation between Chrysler and OEPA on December 23, 2008.

3. Many of the figures and graphs submitted with the response are illegible or poorly labeled. Due to this, Ohio EPA cannot evaluate the information presented on the figures and graphs. All figures and graphs shall be properly labeled and of a size that allows all information presented to be read.

Chrysler Response:
All figures and graphs have been sized to Architectural C (24-inches by 18-inches), and resubmitted herein. All figures are presented in a minimum scale of 1 inch equals 250 feet, as requested. Other specific requested modifications to the figures are as follows:

- a. Figure 1 has been modified to include a reference point for the y-axis.
- b. Figure 2 has been modified to include a reference point for the y-axis and units for the x-axis.
- c. Figure 3 has been modified to include the location(s) of the regional pumping centers.
- d. Figure 4 which was originally omitted from the response has been included in this revised response.
- e. Monitoring well PZ-018I has been clearly labeled on the presented maps. MW-100 through MW-109 were used historically to designate blind duplicate groundwater samples submitted for laboratory analysis. There are no wells designated MW-100 through MW-109 in the existing monitoring network.
- f. Figure 8 has been revised to include the most recent round of groundwater elevations collected in November 2008. The narrative and figure have been reconciled with the correct extraction/injection well operation.

4. … Pursuant to OAC Rule 3745-34-26 (H), Chrysler shall submit electronically all groundwater data generated at and around the Dayton Facility.

Chrysler Response:
A CD containing the electronic groundwater data has been included with this submission. The only monitoring conducted on a monthly basis is of the groundwater injectate, conducted as required by Chrysler's Class V Permit to Operate. Monthly data has been provided, and continues to be provided, on a monthly basis to the Ohio EPA. Included in the electronic data are latitude and longitude co-ordinates for each of the wells listed. In addition, boring logs and monitoring well completion logs for all monitoring wells has been included on the CD.

5. … Chrysler must submit hydrogeologic and analytical data and information demonstrating that the injected fluids are not migrating vertically into the lower aquifer…

Chrysler Response:
See the Chrysler response #1 to the May 30, 2008 request for information. Chrysler has clarified the description of the shallow aquifer and the low permeability clay rich till zone. Included in this response are regional cross sections prepared by the USGS, and site specific cross sections based on historical investigations conducted at the site.

Sampling conducted by Chrysler demonstrates that contaminants at the DTP are confined to the upper sand and gravel aquifer. The upper surface of the low permeability clay-rich till zone was observed to be laterally extensive at a depth of approximately 80-90 feet below ground surface within the investigation area. Cross-sections provided in Figures 13 though 15, illustrate the depths at which the clay-rich till zone was observed during the installation of the monitoring well network. The clay-rich till directly beneath the DTP site ranges in thickness from 15 to 20 feet as observed in boring logs from monitoring wells MWC-001, and MWC-002, as well as plant production wells #2 and #3 located near buildings 50 and 39, respectively. Groundwater sampling events conducted from November 2003 through July 2007 indicate that samples from monitoring wells MWC-001 and MWC-002, both set in the lower aquifer below the clay-rich till zone, have not contained CVOCs above the MCLs..

Potentiometric head data collected from well nests MWC-001/MW-ET-06S and MWC-002/MW-018S, each with wells set above and below the clay-rich till zone, demonstrates that the till zone serves as an effective confining layer between the upper and lower aquifers. As illustrated on Figure 18, regional influences on groundwater are evidenced by the nearly parallel plots and similar magnitude of change exhibited between the upper and lower aquifer systems across most of the hydrograph recording period. This indicates that both units are under influence of the regional hydrogeological system, and most likely controlled by head changes in the surface water river systems. However, significant drops in potentiometric head were observed in the lower aquifer that are not reflected in the upper aquifer. Observed variances in potentiometric head between the two aquifers suggest that potential localized pumping of the deep aquifer was occurring for durations of up to three days during the monitoring period, resulting in the dramatic head reductions in the deep aquifer monitoring points. The lack of response in the shallow aquifer to the influences observed in the deep aquifer indicates that the clay-rich till zone is sufficiently laterally extensive throughout the study area to hydraulically isolate the upper aquifer from local changes in the deep aquifer, and that leakage between the two aquifers is not evident.

6. … Chrysler needs to revise the response to locate and describe all pumping centers that could influence the hydraulic gradient at the Dayton-Behr Facility.

Chrysler Response:
The report has been revised to describe the other localized pumping centers. Each of the pumping centers has been identified on Figure 3 for reference.

7. … It is unclear as to which wells are active injection wells and which are monitoring wells. Please amend the response to clearly label to clearly distinguish the type of well.

Chrysler Response:
Figures 5 through 7 have been modified to include correct references to which injection wells are used for active injection, and which wells are used for monitoring purposes. Originally, injection wells IW-1 through IW-7 were installed specifically for injection purposes. During initial operations, only injection wells IW-1 through IW-4 were used. In November 2005, two of the extraction wells (originally identified as

EW-5 and EW-6) were converted to injection wells and re-named as IW-5b and IW-6b. Original injection well IW-5 has been used intermittently. Original injection wells IW-6 and IW-7 remain unused.

REQUESTED INFORMATION – May 30, 2008

Chrysler provides the following revised responses to the five specific questions (in italics, as provided by OEPA:

1. An updated, detailed, capture zone analysis for the extraction and injection wells including a simulation for each extraction and injection well combination used in the last 5 years at the facility.

Chrysler Response:

Regional Groundwater. Groundwater in the Dayton area is primarily found in permeable glacial outwash deposits (valley-train deposits) filling lower permeability bedrock valleys. These valley-train deposits range in thickness from 150 to 250 feet and consists generally of sands and gravels.

A low permeability clay-rich till unit is observed at depth throughout most of the valley-train deposits. This clay-rich till appears to be laterally continuous and ranges in thickness from 10 to 50 feet thick, occuring at depths from 30 to 80 feet below ground surface. The clay-rich till zone divides the valley-train deposits into distinct upper and lower aquifers and is a relatively effective confining unit in areas where it is more extensive, such as in the vicinity of Rohrers Island, downtown, and the northern parts of Dayton (Norris and Spieker, 1966). Both upper and lower aquifers are extensively pumped at the City of Dayton Rohrers Island and Miami River well fields where water levels are kept high by artificial recharge through the use of infiltration ponds.

Cross-section D-D'-D" (See Figures 11 and 12), developed by the United States Geological Survey (USGS) in 1955, and published in the "Ground-Water Resources of the Dayton Area, Ohio" in 1966, bisects the DTP site, and provides some representation of the geology at the site. Based on the data provided in section D-D', the underlying till appears to extend from the site south to the river. The USGS used a relatively small amount of data to develop cross-section D-D'-D". Therefore, at the direction of Chrysler, AECOM prepared cross-sections of the site based on currently availably data (See Figures 13 through 15). Cross-section D-D'-D", and the AECOM cross-sections have been included for reference, showing the continuous nature of the low permeability till beneath the site. The presence and efficacy of this layer is documented through boring logs, flow information and groundwater samples of wells in the City well fields, where no evidence of groundwater contaminants associated with the site has been noted at either the Miami River Well field or the Mad River Well field. These findings support the presence of a continuous confining unit at the site.

Site Groundwater Flow. Localized groundwater flow in the vicinity of the DTP is toward the south southwest. The groundwater flow direction and velocity of the upper aquifer is heavily influenced by the boundary conditions of the major bedrock valleys; groundwater recharge from the Miami and Mad Rivers located to the north, west, and south; the Miami River and Rohrers Island Municipal Well Fields; and the Miami River Island Park Dam. Other localized pumping centers that are known to or have potential to affect groundwater flow in the upper aquifer include: the Gem City Chemicals, Van Dyne Crotty, Commerce Park Drive, and DAP Inc. groundwater remediation systems located north and east of the plant, and; the Keowee Street dewatering system at the State Route 4 and CSX overpass to the south. Localized pumping centers are illustrated on Figure 3.

Soil and groundwater investigation activities at the DTP plant have been conducted since 1994. Groundwater elevations have fluctuated significantly over this period and correspond to the seasonal fluctuations recorded in the upper aquifer elsewhere in the Dayton area. Seasonal fluctuations, typical of the upper aquifer, are presented on Figure 1.

The groundwater elevation at the DTP site in the highly permeable upper sand and gravel aquifer responds within approximately 24 hours to Miami and Mad River stage fluctuations as shown on Figure 2. The river fluctuations can be greater than 1 foot in a 24-hour period. The Miami River gage stations are located 0.8 miles downstream of the Mad River confluence in downtown Dayton and 9.5 miles upstream from the Stillwater River confluence. The Mad River gage station is located 300 feet up stream of Hoffman Dam. The groundwater elevation data was recorded at monitoring wells TW-2, TW-3, and TW-7

located 2,500 feet west, 1200 feet southwest, and 2000 feet west of the DTP, respectively. These monitoring wells were selected because they are located outside the radius of influence of the Gem City Chemicals groundwater recovery well.

The rapid response in groundwater elevation to river stage fluctuation demonstrates the influence the river stage has on the overall groundwater elevations in the buried valley aquifer. The Miami River Island Park Dam, located 3,500 feet upstream from the confluence with the Mad River, serves as a constant hydraulic head source for groundwater recharge to the buried valley aquifer groundwater flow regime, resulting in a consistent groundwater flow direction in the western portion of the buried valley aquifer from west to east as shown on Figures 3, 4 and 8. The Mad River groundwater recharge basins associated with the Rohrers Island Well Field induce a constant hydraulic head for groundwater recharge in the northeast portion of the buried valley aquifer, which results in a consistent groundwater flow pattern in the eastern portion of the buried valley aquifer, generally from northeast to southwest. This pattern of groundwater recharge and flow toward the central portion of the buried valley aquifer establishes an aquifer-wide groundwater flow path toward the section of the Miami River downstream of the Island Park Dam at its confluence with the Mad River, where the surface water hydraulic head influence is lowest.

Due to the rapid fluctuations in groundwater elevations at the site, Chrysler installed a network of pressure transducers to accurately measure groundwater levels and to provide snapshots of the groundwater flow contours around the site. A total of 46 pressure transducers have been installed within approximately 1 mile of the site. The transducers are programmed to record water levels at the same time and each one takes elevation readings every 8 hours. Data in the transducers is downloaded quarterly, and then used to generate groundwater contour maps.

The rapid fluctuation in groundwater elevation can result in erroneous interpretation of groundwater flow direction, particularly considering the relatively flat hydraulic gradient in the vicinity of the DTP site. Groundwater elevation changes in the buried valley aquifer as great as 0.94 feet in 24-hours have been recorded by the pressure transducers deployed in the groundwater monitoring well network. Prior interpretation of groundwater elevations collected over a one to two day period lead to a variable groundwater flow direction depending on the rate of the groundwater fluctuations in the buried valley aquifer. By not recognizing and accounting for the rapid temporal groundwater level fluctuations within the buried valley aquifer, erroneous data were integrated into prior groundwater contour maps resulting in misinterpreted groundwater flow directions. Following the installation of the pressure transducers and the selection of a specific consistent time for water level measurements, the groundwater flow direction has remained consistent since 2003.

Figure 4 presents the 2003 potentiometric surface, as measured prior to the installation of the groundwater extraction system at the DTP site. In July 2007, a joint groundwater monitoring event was conducted with the City of Dayton, and OEPA. Groundwater levels were collected from wells across the buried valley aquifer. The wells included Chrysler wells, City wells, OEPA wells, and wells from other contaminant source areas. This comprehensive round of water level data was used to generate the groundwater elevations illustrated in Figure 3. As shown, a groundwater flow divide exists north of the DTP site, mainly due to influence by the City of Dayton Miami River well field and additional remedial pumping centers to the north. In November 2008, another comprehensive round of groundwater elevations was collected at the site. This data was used to generate the groundwater elevations presented in Figure 8.

As can be seen from Figures 3, 4 and 8, the potentiometric surface is consistent. Each of the maps shows a consistent and stable groundwater flow pattern. Groundwater elevation contour maps prepared prior to 2003, including the "LBG Maps dated November 2001", were based on transient time-variable data assumed to be steady-state location variable data resulting in a misinterpretation of high variability in groundwater flow directions.

Sampling conducted by Chrysler demonstrates that contaminants at the DTP are confined to the upper sand and gravel aquifer. The upper surface of the low permeability clay-rich till zone was observed to be laterally extensive at a depth of approximately 80-90 feet below ground surface within the investigation area. Cross-sections provided in Figures 13 though 15, illustrate the depths at which the clay-rich till zone was observed during the installation of the monitoring well network. The clay-rich till directly beneath the DTP site ranges in thickness from 15 to 20 feet as observed in boring logs from monitoring

wells MWC-001, and MWC-002, as well as plant production wells #2 and #3 located near buildings 50 and 39, respectively. Groundwater sampling events conducted from November 2003 through July 2007 indicate that samples from monitoring wells MWC-001 and MWC-002, both set in the lower aquifer below the clay-rich till zone, have not contained CVOCs above the MCLs..

Two cross-sectional groundwater flow diagrams are provided on Figures 16 and 17. The cross section locations correspond to the contaminant plume cross sections provided in Figures 26 through 130. Flow maps were constructed using November 2008 data with the current extraction system in place and active. The cross sections demonstrate capture of site and injected groundwater, and upward gradients from the lower clay to the aquifer.

The north-south cross section (section A-A', Figure 16) is parallel to groundwater flow. Therefore, a flow net was drawn on the cross section, which demonstrates the direction of groundwater flow along the cross section. Groundwater flows generally from right to left (north to south) along the cross section. Groundwater flow in the high permeability sand is predominantly horizontal. On the right (north) side of the drawing near MW-19, groundwater flows from right to left, following the regional trend. Between MW-ET-05 and MWA-005, groundwater injection occurs, creating a slight mound, which is depicted with the 731 foot elevation equipotential. The strong regional trend overcomes the mounded groundwater and forces flow to remain to the south (left). Farther south at EW-2, groundwater is extracted at a rate of 75 GPM. The extraction rate is enough to reverse the regional trend and create a groundwater divide, which is demonstrated by groundwater elevations measured at MW-29R. The divide is marked on Figure 16 just north (right) of MW-29R. Because flow is horizontal, the groundwater divide effectively cuts off flow from the site area to the south, creating a capture zone that extends as far as MW-29R.

Groundwater extraction at EW-2 creates inward flow toward the extraction well from all directions, including a component of upward flow from the clay aquitard into the sand and gravel aquifer. South of the MW-29R divide, groundwater returns to the regional trend, flowing to the south. The same upward groundwater flow is demonstrated in water elevations measured at the MW-33 and MW-38 well nests.

An east west cross section (section B-B') is provided on Figure 17. A flow net does not appear on this figure because the predominant direction of groundwater flow is perpendicular to the cross section. Groundwater elevations within the cross section do, however, further demonstrate that extraction at EW-2 and EW-3 captures groundwater under the DTP. The groundwater divide shown on the north-south cross section is also present to the west (left) of EW-1. Groundwater extraction reverses the regional trend and creates the divide indicated by measured water levels near EW-1.

Potentiometric head data collected from well nests MWC-001/MW-ET-06S and MWC-002/MW-018S, each with wells set above and below the clay-rich till zone, demonstrates that the till zone serves as an effective confining layer between the upper and lower aquifers. As illustrated on Figure 18, regional influences on groundwater are evidenced by the nearly parallel plots and similar magnitude of change exhibited between the upper and lower aquifer systems across most of the hydrograph recording period. This indicates that both units are under influence of the regional hydrogeological system, and most likely controlled by head changes in the surface water river systems. However, significant drops in potentiometric head are observed in the lower aquifer that are not reflected in the upper aquifer. Observed variances in potentiometric head between the two aquifers suggest that potential localized pumping of the deep aquifer was occurring for durations of up to three days during the monitoring period, resulting in the dramatic head reductions in the deep aquifer monitoring points. The lack of response in the shallow aquifer to the influences observed in the deep aquifer indicates that the clay-rich till zone is sufficiently laterally extensive throughout the study area to hydraulically isolate the upper aquifer from local changes in the deep aquifer, and that leakage between the two aquifers is not evident.

In-Situ Extraction/Re-injection System. The in-situ groundwater extraction/re-injection system design requirements were based on site investigation activities, which indicated a wide range of CVOC compounds, multiple potential CVOC source areas, and contaminants extending down to the base of the upper aquifer. Six extraction wells, each capable of pumping 100 gallons per minute (GPM), were installed to provide containment of the contaminants at the down-gradient property boundary and control the local groundwater flow regime. To promote treatment in the source area, seven injection wells were installed up-gradient of the extraction wells to return up to 400 GPM of extracted impacted groundwater augmented with sodium lactate to promote dechlorination. To maintain a net groundwater volume deficit

in the treatment area (and maintain an inward flow gradient), a portion of the extracted water is treated and discharged off-site. This water is passed through an air stripping system capable of treating up to 200 GPM and is used to treat the highest CVOC extraction well concentrations. Water treated through the air stripping system is discharged to an NPDES permitted outfall.

During startup of the system, it was determined that the injection rate needed to be reduced in order to prevent excessive pressure within the injection wells. In addition, it was determined that capture of the reinjection flow could be obtained using a minimum of two extraction wells. Therefore, following startup of the groundwater treatment system, optimal system performance included operation of the following extraction well combinations:

- EW-2, EW-3 & EW-4 – 300 GPM extraction (100 GPM, each)
- EW-2 & EW-3 – 200 GPM extraction (100 GPM, each)
- EW-3 & EW-4 – 200 GPM extraction (100 GPM, each)

For each extraction well combination, a total of approximately 100 GPM was re-injected at IW-1 through IW-4, IW-5B and IW-6B (16 GPM, each). A spreadsheet summarizing the average monthly discharge for the extraction wells and the average monthly injection rate for the injection wells is included as Table 3.

Capture Zone Analysis. Per OEPA request, a comprehensive capture zone analysis was conducted following the US EPA guidance document, *A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems.* Specifically, multiple lines of evidence have been compiled which demonstrate closed-loop capture of the injected fluids by the extraction system. Lines of evidence for capture are presented as follows: 1) Groundwater elevation data; 2) Groundwater modeling results; and 3) Groundwater chemistry data..

Groundwater Elevation Data

Using the data from the groundwater treatment system programmable logic controller (PLC), and groundwater elevation transducer readings, groundwater flow contours under each extraction well/injection well combination were generated. Figures for each combination are included as Figures 5 through 7. As shown in each figure, all three extraction well combinations result in an inward gradient being maintained at the down-gradient property line.

The November 2008 groundwater elevations were converted to plan view and cross-section view drawings to demonstrate the groundwater flow in the site area. The 2008 potentiometric surface is depicted in Figure 8. Groundwater elevations and drawings are discussed above in the section "Site Groundwater Flow."

Groundwater Modeling Results

A groundwater flow model was developed to determine the theoretical capture of the groundwater extraction system at the site. The site-specific groundwater model was constructed using GFLOW, an analytic element model (Haitjema, 2006). The model is widely used for horizontal flow system estimates and capture predictions. GFLOW was used as a screening-level model to estimate groundwater flow patterns and particle pathways under "steady state" pumping conditions.

The groundwater model flow system was created using site measurements (where measured) and literature values. The assumptions for aquifer characteristics included:

- Aquifer thickness
- Hydraulic conductivity
- River characteristics
- Confining unit characteristics

Site injection and extraction wells were placed in the model and set to pumping rates measured at the site. EW-2 pumps at a rate of 75 GPM; EW-3 is set to 125 GPM; and EW-4 is set to 100 GPM. Six active injection wells (IW-1 through IW-4, IW-5b, and IW-6b) accept groundwater from EW-2 in even amounts. Water extracted from EW-3 and EW-4 is routed to the air stripper and eventually to a storm sewer. Off-site extraction wells were placed into the model based on the known remediation or extraction systems in the area.

After calibration of the model, particles were placed in the model to represent groundwater flow within the modeled system. Each particle introduced to the GFLOW model moves from its starting point based on the direction and velocity of groundwater within the aquifer. Particles move solely by advection through the model and do not take into account chemical reactions, retardation, or dispersion. For that reason, a particle trace shows the path that a water molecule would take throughout time based solely on groundwater flow direction and velocity. The particle pathways will show the capture zone associated with the extraction wells for each combination of extraction wells.

Three particle simulations were completed based on current and historic extraction system scenarios. The simulations include;

Simulation 1: Extraction wells 2 and 3 active
Simulation 2: Extraction wells 2 and 4 active
Simulation 3: Extraction wells 2, 3 and 4 active

As shown in Figures 19 through 21, injected groundwater at the site is captured under each extraction scenario. Scenario 1, which is comparable to current system operation, shows that particles released across the DTP site width are captured by EW2 and EW-3 at current extraction rates. In addition, the model depicts groundwater capture by the system south of the DTP site. This modeled groundwater flow pattern is in agreement with the measured potentiometric surface maps provided in Figures 5 through 7, which shows a cone of depression extending south of the DTP site. It is also in agreement with the cross-sectional flow nets shown on Figures 16 and 17, which show the groundwater divide that demonstrates capture south of the site.

Groundwater Chemistry Data
The historic groundwater data for the site was reviewed, and a statistical evaluation was performed to determine the concentration trends downgradient of the extraction wells. Specific well nests reviewed included MW-11, MW-24, MW-25, MW-26, MW-28 and MW-29R. Concentration trends were reviewed for multiple contaminants at each separate interval. The statistical evaluation is included as Attachment A. As noted in the evaluation, overall groundwater concentration trends in each of the well nests evaluated shows a statistically significant decrease in concentrations during the course of groundwater extraction system operations.

Based on the groundwater elevation data, the results presented in the groundwater model and the, chemistry data, it has been demonstrated that the groundwater extraction system is successfully capturing the injected fluids at the site. In addition, the extent of groundwater capture south of the site is consistent based on each of the lines of evidence. Specifically, it has been shown that the extent of groundwater capture at the site extends at least as far south as MW-28 and MW-29R, as anticipated by the groundwater model, and verified by contaminant trends and measured elevation data.

2. An updated potentiometric map for the plant area with a table of piezometric wells and corresponding groundwater elevation data. The groundwater elevation data should be collected within a 24 hour period and be collected during 2008. The groundwater level data should not include any elevation data from any of the extraction or injection wells being utilized during the data collection period. The map should indicate which extraction and injection wells were actively being utilized during the data collection period.

<u>Chrysler Response</u>
An updated potentiometric map utilizing groundwater elevation data collected in November 2008 is included as Figure 8. During the monitoring event, the groundwater extraction and injection system was not operating. Corresponding groundwater elevation data is included in Table 1.

3. A potentiometric map for the plant area with a table of piezometric wells and corresponding ground water elevation data for a period of time prior to installation of the injection and extraction wells. Again the elevation data should have been collected within a 24 hour time period.

Chrysler Response
A potentiometric map of groundwater elevations from 2003, prior to initiation of the groundwater extraction/injection system is included as Figure 9. A table of wells and corresponding groundwater elevation data is included in Table 1.

4. A description of any groundwater flow models utilized to complete the capture zone analysis including all assumptions related to the model and all data used as inputs for the model. There should also be a description of the results of any sensitivity analysis or calibration analysis performed with the model.

Chrysler Response
This response to this comment is provided above, under "*Groundwater Modeling Results*."

5. Results of all groundwater quality analyses results generated from monitoring wells at the Dayton Thermal Products Facility over the last five years. This shall be submitted in tabular form and include a map of all relevant well locations.

Chrysler Response
As requested, a table of historical groundwater sampling results has been included in Table 2, and a map of relevant well locations is included as Figure 10.

ADDITIONAL INFORMATION

Chrysler is providing additional information that we feel is important for a thorough understanding of the remedial system and its effectiveness.

DESIGN

Understanding the inter-relationship between the contaminants identified in groundwater and the soil contamination present at the site was critical to efficient remediation of the site. The soil contamination in the unsaturated zone created a continuing source of contaminants to groundwater as a result of precipitation flushing contaminants into groundwater, and fluctuations of the groundwater table up into the contaminated soils. Therefore, source remediation was critical to a successful groundwater remediation program. The integrated approach taken for the site-wide remediation included three phases: 1) source area investigation and remediation; 2) on-site groundwater remediation; and 3) off-site plume characterization.

The SVE system was designed to address the contaminant source area (defined as the area having a high probability of soil contamination). The vapor extraction well points were designed to remove contaminants from the unsaturated zone and the upper portion of the capillary fringe. The system design was flexible enough to allow for targeted treatment in hot spot areas identified during the system startup testing.

The groundwater extraction/re-injection system was designed to contain the migration of the contaminated groundwater at the property boundaries and introduce sodium lactate into the up-gradient edge of the contaminant plume to enhance the reductive dechlorination process.

Soil vapor extraction. During the initial site history review, many potential source areas were identified within the plant. Delineation of CVOC impacts in the unsaturated zone was performed by the installation of an innovative soil vapor extraction system, rather than performing extensive soil sampling within the operating manufacturing facility. The system was designed with a pneumatically actuated valve manifold system to cycle the extraction points which allowed for targeting source area removal while remaining below regulatory discharge requirements, thereby eliminating the need for more costly air treatment.

As presented on Figure 22, the potential soil contaminant sources encompassed approximately the southern two-thirds of the facility. The strategy for SVE to remediate the primary contaminant source area was to provide coverage of the entire source area with extraction well points. The system was designed as two independent units. The north and south systems consist of independently-operated banks of up to 10 well points activated by pneumatic valves set by timers. A total of 117 soil vapor extraction well points were installed within the buildings and beneath the concrete in the truck-way. The

skid mounted building units measure 8 feet by 12 feet and 8 feet tall. The as-built layout of SVE wells, piping, and equipment buildings are shown on Figure 23.

Each bank was connected to the extraction manifold actuated automatically by use of pneumatically operated valves. The SVE wells were installed at approximately 80 foot centers. Each well point consists of 1.5-inch PVC screened from a depth of approximately 5 feet to 20 feet below ground surface.

SVE. The soil vapor analytical results shown in Figure 24 illustrate initial contaminant concentration data from 2002, and data collected in April 2004, 24 months after system operation began. Note that the concentration range at startup is from 0 to 500 ppmv, and after 2 years, the range is from 0 to 8 ppmv.

The system was operated on a full time basis through December 2005. Based on extracted air concentrations, the SVE system removed a total of 900 pounds of VOCs.

In-Situ Extraction/Re-injection System. The dechlorination concept is based on developing a biologically active zone in the path of flowing contaminated groundwater that degrades contaminants. Natural degradation of chlorinated volatile organic compounds in groundwater was constrained or prohibited at the site due to one or more limiting conditions. The most common factors resulting in little or slow degradation of contaminants in groundwater are a lack of adequate organic carbon in the site groundwater and relatively aerobic conditions. In many cases the introduction of an easily biodegradable carbon source can rapidly overcome these limitations and enhance the biologically driven attenuation processes.

To maintain the anaerobic conditions necessary for dechlorination and minimize the potential for well fouling, the re-injection system was designed and permitted for re-injection without treatment of the groundwater. Had pre-treatment of the groundwater prior to re-injection been conducted, significant aeration of the water would have occurred, which in turn would decrease the effectiveness of the anaerobic system. To accommodate this design and allow the flexibility to direct extracted groundwater to either the injection wells or the air strippers, two parallel manifolds were installed from the extraction wells to the treatment system. One manifold is piped to the re-injection system and the second manifold is piped to the air stripping system, which allows each of the individual extraction wells flow to be directed to either of the treatment systems. Each manifold was designed to handle the total 600 GPM combined extraction well flow.

The optimum conditions for contaminant reduction are maintained in the treatment zone between the extraction wells and injection wells by the continuous injection of a carbon substrate, in this case sodium lactate. The carbon stimulates the existing aerobic bacteria which use up the oxygen in the groundwater, changing the conditions to anaerobic conditions conducive to reductive dechlorination. With the oxygen depleted, the aerobic bacteria die off and become an additional food source, in addition to the sodium lactate, for other existing organisms that work together in the reductive dechlorination of the contaminants. This process treats the primary source contaminants TCE and PCE, along with other contaminants (including cis-DCE, and VC), turning them into ethene. After the first year of operation, the degrading organisms and residual food source are also recycled by extraction from the downstream portion of the plume and re-injected with substrate addition back into the upstream side of the plume. Historic data indicated that reductive dechlorination was naturally occurring at the site before installation of the treatment system, but at a much slower rate. The data also indicated that the dechlorination process had stalled before complete dechlorination had occurred. To enhance the process, a significant input of biodegradable substrate was needed, while minimizing the addition of oxygen to maintain anaerobic groundwater conditions. Treated water was not feasible in this case, as the additional oxygen introduced would have hindered the remedial process.

RESULTS

In-Situ Extraction/Re-injection System. As requested, isoconcentration maps have been presented for the November 2003, November 2005 and October 2008 groundwater sampling data. The isoconcentration maps have been prepared for 3 separate depths (680 feet MSL, 700 feet MSL and 720 feet MSL) and 2 separate cross sections (N-S and E-W). Separate isoconcentration maps have been prepared for seven separate compounds (111-TCA, 11-DCA, 11-DCE, c-DCE, TCE, PCE and VC). Iso-

concentration maps have been prepared with contour lines at the following intervals: MCL, 100 ppb, 500 ppb, 1000 ppb, 5000 ppb, and 10000 ppb, as appropriate. A basemap of the area presented, along with the cross section locations is included as Figure 25. The iso-concentration maps and iso-concentration cross sections are presented as Figures 26 through 130.

For the cross section maps, OEPA requested the following wells be presented:

- North-South cross section: MW-019, MW-ET-05, MWA-005, MW-029R, MW-033, MW-038, MW-044, MW-046 and MW-045.
- East-West cross section: MW-41, MW-30, MW-008, MW-010, MW-011, MW-026, MW-025 and TW-9.

It was agreed in the November 3, 2008, meeting as documented by the November 11, 2008 letter from Chrysler to OEPA that the North-South iso-concentration cross sections would stop at MW038 and not include wells MW044, MW045, and MW046. The cross sections are presented as straight line cross sectional cuts (as shown on Figure 39). Analyte result values shown at select monitoring well sample intervals may not correspond to the cross-sectional plume presented, based on the projection distance and orientation from monitoring points to the cross-section cut line.

The average concentration of contaminants in the reinjection stream is as follows: TCE at 750 ppb, PCE at 75 ppb, cis-DCE at 150 ppb and VC at 7 ppb. An average of 1.8 million gallons per month of untreated groundwater augmented with substrate is reinjected into the up-gradient portion with an average sodium lactate concentration of 318 mg/L. An average of 3.0 million gallons per month of extracted groundwater is treated through the on-site air strippers and discharged to the NPDES permitted outfall. The average influent concentration to the air stripper is as follows: TCE at 1,100 ppb, PCE at 68 ppb, cis-DCE at 214 ppb and VC at 9 ppb.

While the existing PCE on-site is degrading to TCE, and TCE injection concentrations have averaged approximately 750 ppb in the northern/upgradient portion of the plume, significant reduction in TCE concentrations are also evident. As shown, while TCE injection concentrations are approximately 750 ppb, monitoring indicates that concentrations adjacent to the injection wells are less than 100 ppb, highlighting the efficiency of the reductive dechlorination. Overall TCE concentrations on-site have decreased by 25%.

As shown, PCE concentrations have been reduced significantly. Based on the data collected, PCE concentrations have decreased by 61%.

The overall cis-DCE concentration has been reduced across the treatment zone. A significant build up in cis-DCE has not occurred because cis-DCE continually reduces to VC and ethane/ethane while both the PCE and TCE are reduced to cis-DCE along the degradation pathway. The average cis-DCE injection concentration is 150 ppb. Overall, cis-DCE concentrations have decreased by 51%. Note that no significant buildup of cis-DCE has occurred, even though it is common in many remedial systems for the dechlorination to stall at cis-DCE.

VC concentrations have increased significantly in the treatment zone due to the reductive dechlorination process. VC concentrations are expected to spike during the dechlorination process, as the more available chlorines are first removed from the PCE, TCE and cis-DCE. The monitoring data suggest there is no significant stalling in the VC removal, rather there is a delay in the rate of removal when compared to the other CVOC compounds. Historically, VC was limited to the areas where the highest levels of PCE and TCE concentrations had been identified. Upon system operation, the concentrations near the injection wells increased by an order of magnitude and exist throughout the treatment zone. Average VC injection concentrations are approximately 7 ppb. Based on the data shown, VC concentrations have increased by 167%. Based on the stoichiometric quantity of PCE, TCE and cis-DCE reduced, VC would be expected to increase in excess of 4500% if reductive dechlorination had stalled at VC. This indicates that significant reduction of VC has occurred.

Ethene concentrations have increased dramatically within the treatment zone as a result of the dechlorination process. Prior to system operation some breakdown products were detected, cis-DCE and

VC in particular, but no detectible ethene concentrations were present. Existing ethene concentrations are a strong indicator that the dechlorination process is complete and is not stalling at the intermediary daughter product level. Due to the nature of the ethene, detectable concentrations do not remain in the aquifer for extended periods of time. Therefore, ethene can only be used as an indicator that complete dechlorination is occurring.

CONCLUSIONS

Chrysler voluntarily implemented a program to remediate CVOC contaminated soil and groundwater associated with the former manufacturing process. The remediation strategy for the site integrated a soil vapor extraction system to address unsaturated source soil contamination and an In-Situ Extraction/Re-injection System for the remediation of groundwater. The groundwater extraction and re-injection system maintains containment of the CVOC source area by reinjection of only a portion of the extracted groundwater. To promote treatment by reductive dechlorination in the source area, injection wells deliver impacted groundwater augmented with sodium lactate. CVOC concentrations are maintained in the injection water at concentrations well below allowable permitted concentrations (typically, less than half). To maintain a net groundwater loss in the treatment area, the highest CVOC concentration groundwater is treated by air stripping and is discharged to an NPDES permitted outfall.

Groundwater elevations measured in November 2008 demonstrate that the current extraction system creates a groundwater divide along the southern site boundary. The groundwater divide defines the capture zone south of the DTP site. Based on the groundwater modeling, the November 2008 extraction/injection configuration creates a capture zone that is at least as wide as the facility, which effectively captures groundwater that flows beneath the site.

Groundwater chemistry trend analyses show that contamination levels are decreasing within the site area and the capture area. Groundwater monitoring results indicate a significant decrease in the overall PCE, TCE and cis-DCE concentrations in the treatment area. Increasing concentrations of VC have occurred, indicating that reductive dechlorination of the source CVOCs is occurring. The increased presence of ethene in the area of the injection wells indicates that the complete reduction pathway is being achieved within the In-Situ Extraction/Re-injection System. Groundwater monitoring also shows an increasingly diverse microbial community as a result of sodium lactate substrate addition and changing groundwater conditions.

The tables and figures referenced above have been included as attachments to this letter. Should you have any additional questions or comments, please contact me at your convenience. Chrysler appreciates Ohio EPA's efforts in working with us on this project.

Sincerely,

Gregory M. Rose
Director
Stationary Environmental Affairs

cc: City of Dayton
OEPA DERR

TABLE 1

GROUNDWATER ELEVATION DATA
FORMER DAYTON THERMAL PRODUCTS
DAYTON, OHIO

Well ID	X-Coordinate	Y-Coordinate	TOC	Depth to Water November 11, 2003	Water Elevation November 11, 2003	Depth to Water July 18, 2007	Water Elevation November July, 18, 2007	Depth to Water November 5, 2008	Water Elevation November 5, 2008	Depth to Water November 20, 2008	Water Elevation November 20, 2008
MW024S	1497470.3	654185.8	751.24	18.44	732.80	19.58	731.66	20.36	730.88	NM	NM
MW025S	1497396.3	653815.3	751.05	18.34	732.71	19.45	731.60	20.28	730.77	NM	NM
MW026S	1497189.0	653718.4	750.68	18.03	732.65	19.26	731.42	20.02	730.66	NM	NM
MW027S	1497371.4	653194.9	749.52	16.90	732.62	18.02	731.50	18.89	730.63	NM	NM
MW028S	1496776.4	653344.0	751.62	19.15	732.47	NM	NM	21.24	730.38	NM	NM
MW-29RS	1496313.0	653412.8	748.87	NI	NI	NI	NI	18.57	730.30	18.86	730.01
MW-29RI	1496313.0	653412.8	748.83	NI	NI	NI	NI	NM	NM	18.79	730.04
MW-29RD	1496313.0	653412.8	748.74	NI	NI	NI	NI	NM	NM	18.40	730.34
MW030S	1495742.3	653578.5	745.94	14.11	731.83	14.87	731.07	15.85	730.09	15.45	730.49
MW030I	1495742.3	653578.51	745.91	NM	NM	NM	NM	NM	NM	15.68	730.23
MW030D	1495742.3	653578.51	745.92	NM	NM	NM	NM	NM	NM	15.67	730.25
MW031S	1496747.4	652960.2	749.17	16.77	732.40	17.88	731.29	18.79	730.38	NM	NM
MW032S	1495758.1	653290.5	744.88	14.19	730.69	14.91	729.97	16.21	728.67	NM	NM
MW033S	1496014.4	653271.3	749.15	18.38	730.77	19.18	729.97	20.48	728.67	20.50	728.65
PZ033I	1496014.4	653271.31	749.51	NM	NM	NM	NM	NM	NM	19.64	729.87
PZ033D	1496014.4	653271.31	749.48	NM	NM	NM	NM	NM	NM	19.27	730.21
MW034S	1496165.4	653264.1	749.04	17.33	731.71	17.31	731.73	19.00	730.04	NM	NM
MW035S	1495857.2	653137.9	748.87	18.23	730.64	18.92	729.95	20.25	728.62	NM	NM
MW036S	1496161.5	653096.9	748.31	17.57	730.74	18.30	730.01	19.62	728.69	NM	NM
MW037S	1495696.0	653017.5	745.46	14.84	730.62	15.48	729.98	16.50	728.96	NM	NM
MW038S	1495984.5	652904.2	747.04	16.37	730.67	17.16	729.88	18.45	728.59	18.45	728.59
PZ038I	1495984.5	652904.22	747.04	NM	NM	NM	NM	NM	NM	18.45	728.59
PZ038D	1495984.5	652904.22	747.06	NM	NM	NM	NM	NM	NM	18.45	728.61
MW039S	1496508.1	653222.3	750.53	18.19	732.34	19.30	731.23	20.18	730.35	NM	NM
MW040S	1496698.0	652434.6	747.04	15.25	731.79	NM	NM	17.31	729.73	NM	NM
MW041S	1495169.0	653733.5	746.17	NI	NI	NI	NI	17.08	729.09	17.05	729.12
MW-41I	1495169.0	653733.5	746.22	NI	NI	NI	NI	NM	NM	17.13	729.09
MW-41D	1495169.0	653733.5	746.36	NI	NI	NI	NI	NM	NM	17.25	729.11
MW044S	1495969.0	652549.6	747.90	NI	NI	NI	NI	19.23	728.67	19.18	728.72
MW-44I	1495969.0	652549.6	747.82	NI	NI	NI	NI	NM	NM	19.10	728.72
MW-44D	1495969.0	652549.6	747.94	NI	NI	NI	NI	NM	NM	18.15	729.79
MW045S	1495234.0	651461.9	740.90	NI	NI	NI	NI	14.22	726.68	13.94	726.96
MW-45I	1495234.0	651461.9	740.77	NI	NI	NI	NI	NM	NM	14.00	726.77
MW-45D	1495234.0	651461.9	740.83	NI	NI	NI	NI	NM	NM	14.74	726.09
MW046S	1495707.0	651843.7	741.83	NI	NI	NI	NI	14.27	727.56	14.15	727.68
MW-46I	1495707.0	651843.7	741.85	NI	NI	NI	NI	NM	NM	14.21	727.64
MW-46D	1495707.0	651843.7	741.83	NI	NI	NI	NI	NM	NM	14.49	727.34
MW-47S	1496057.4	651750.54	739.12	NI	NI	NI	NI	11.57	727.55	NM	NM
MW-48S	1496170.5	652258.53	747.83	NI	NI	NI	NI	19.25	728.58	NM	NM
MW-10S	1496667.2	653688.1	751.32	18.84	732.48	20.13	731.19	20.84	730.48	21.29	730.03
PZ010I	1496667.2	653688.05	751.34	NM	NM	NM	NM	NM	NM	21.40	729.94
MW-11S	1496923.5	653661.5	751.50	18.96	732.54	20.38	731.12	20.99	730.51	21.66	729.84

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MWC003	1496923.5	653661.48	751.53	NM	NM	NM	NM	NM	NM	21.30	730.23
MW-15S	1495849.8	654478.5	746.35	13.69	732.66	14.64	731.71	15.34	731.01	NM	NM
MW-18S	1497094.3	654794.0	751.57	18.75	732.82	21.27	731.63	21.94	730.96	NM	NM
MW-19S	1497054.8	655264.6	747.64	15.09	732.55	16.09	731.55	NM	NM	NM	NM
PZ021I	1497054.8	655264.64	751.07	NM	NM	NM	NM	NM	NM	20.37	730.70
MWB004	1497155.0	655494.53	751.64	NM	NM	19.33	731.90	NM	NM	20.54	731.10
MW-20S	1496677.2	655263.2	748.24	15.34	732.90	16.29	731.95	16.85	731.39	NM	NM
MW-7S	1495884.3	653809.7	750.18	17.97	732.21	18.94	731.24	19.81	730.37	NM	NM
MW-8S	1496311.8	653715.2	750.25	17.92	732.33	19.00	731.25	19.83	730.42	20.22	730.03
PZ008I	1496311.8	653715.20	749.94	NM	NM	NM	NM	NM	NM	19.95	729.99
PZ008D	1496311.8	653715.20	749.84	NM	NM	NM	NM	NM	NM	19.61	730.23
MWA-001	1496702.9	654673.5	750.93	18.16	732.77	19.15	731.78	19.77	731.16	NM	NM
MWA-002	1496421.8	654511.2	748.87	16.15	732.72	17.11	731.76	17.79	731.08	NM	NM
MWA-003	1496480.7	654341.5	751.64	18.94	732.70	19.91	731.73	20.58	731.06	NM	NM
MWA-004	1496478.5	653701.1	750.67	18.27	732.40	19.31	731.36	20.21	730.46	20.74	729.93
PZ009D	1496501.7	653704.68	750.82	NM	NM	NM	NM	NM	NM	20.68	730.14
MWA-005	1496921.6	654280.3	750.70	17.95	732.75	19.04	731.66	19.72	730.98	20.16	730.54
PZ013I	1496921.6	654280.28	750.54	NM	NM	NM	NM	NM	NM	19.95	730.59
MWA-006	1497001.6	653971.4	751.13	18.44	732.69	19.59	731.54	20.35	730.78	NM	NM
MW-ET-01S	1496495.3	654193.4	751.29	NM	NM	19.41	731.88	20.02	731.27	NM	NM
MW-ET-02S	1496493.6	654141.1	751.13	NM	NM	19.36	731.77	20.01	731.12	NM	NM
MW-ET-03S	1497064.8	654242.9	751.49	21.68	729.81	19.80	731.72	20.50	731.02	NM	NM
MW-ET-05S	1497081.7	655022.1	749.53	NM	NM	17.89	731.64	18.52	731.01	19.04	730.49
MW-ET-05I	1497081.7	655022.10	NM	NM	NM	NM	NM	NM	NM	18.82	--
MW-ET-05D	1497081.7	655022.10	NM	NM	NM	NM	NM	NM	NM	19.27	NM
MW-ET-06	1496003.9	655655.2	745.08	11.78	733.30	12.73	732.35	13.24	731.84	NM	NM
TW-1	1495187.9	654418.4	748.54	17.29	731.25	17.98	730.55	19.34	729.19	NM	NM
TW-2	1493184.6	653703.6	744.82	14.10	730.72	14.20	730.62	15.95	728.87	NM	NM
TW-3	1494992.3	652858.4	744.76	14.12	730.64	14.83	729.93	14.95	727.18	NM	NM
TW-4	1493359.9	652286.9	742.13	13.19	728.94	13.36	728.77	12.55	727.39	NM	NM
TW-5	1494892.7	651985.1	739.94	10.64	729.30	11.14	728.80	12.48	725.96	NM	NM
TW-6	1495283.6	650601.8	738.44	10.61	727.83	11.53	726.91	14.88	728.13	NM	NM
TW-7	1496514.2	651733.9	743.01	12.91	730.10	13.89	729.12	14.15	726.70	NM	NM
TW-8	1494035.4	651586.6	740.85	12.39	728.46	12.67	728.18	NM	NM	NM	NM
TW-9	1498096.1	653823.1	752.47	19.59	732.88	NM	NM	DRY	--	NM	NM
TW-10	1498228.2	654735.8	753.10	19.71	733.39	21.27	731.83	23.52	732.62	NM	NM
TW-11	1499996.5	653847.6	756.14	20.09	736.05	21.67	734.47	23.81	737.21	NM	NM
TW-12	1500943.7	652827.0	761.02	21.98	739.04	22.86	738.16	25.87	732.44	NM	NM
TW-13	1500106.8	651228.5	758.51	25.45	733.06	25.76	732.55	13.11	730.62	NM	NM
TW-14	1501934.2	650783.4	743.73	11.96	731.78	12.76	730.97	14.62	726.90	NM	NM
TW-15	1497396.2	649471.8	741.52	13.31	728.21	15.55	725.97	13.03	727.11	NM	NM
TW-16	1493453.6	650554.8	743.80	21.03	722.77	21.57	725.83	15.58	728.22	NM	NM

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TW-17	1492451.9	651961.2	742.14	11.20	730.94	11.40	728.74	21.58	720.56	NM	NM
TW-20	1494612.2	655292.0	744.63	10.68	733.96	11.02	733.61	12.07	732.56	NM	NM
TW-21	1496072.5	656941.9	746.67	12.10	734.57	12.97	733.70	12.99	733.68	NM	NM
TW-22	1497027.3	656772.8	747.23	13.56	733.68	14.54	732.69	15.07	732.16	NM	NM
TW-23	1498954.7	656156.8	752.61	19.33	733.28	23.13	732.15	23.98	731.30	NM	NM
TW-24	1497970.6	655088.9	752.61	21.50	731.11	20.77	731.84	25.20	724.44	NM	NM
TW-25	1498404.9	651990.9	753.17	21.47	731.70	Dry	--	13.38	725.73	NM	NM
TW-29	1495137.0	650916.3	737.97	NM	NM	NM	NM	11.85	726.12	NM	NM
TW-30	1496313.0	650937.9	739.42	NM	NM	NM	NM	13.31	726.11	NM	NM
TW-31	1496282.0	649336.0	741.39	NM	NM	NM	NM	15.52	725.87	NM	NM
TW-34	1495705.0	649971.8	737.88	NM	NM	NM	NM	11.86	726.02	NM	NM
TW-35	1496427.0	650366.0	739.50	NM	NM	NM	NM	13.63	725.87	NM	NM
SG-2	1493640.6	656240.50	762.65	NM	NM	NM	NM	26.76	735.89	NM	NM
SG-3	1491297.8	651809.28	760.87	NM	NM	NM	NM	21.50	739.37	NM	NM
SG-4	1492670.2	651204.41	733.86	NM	NM	NM	NM	3.71	730.15	NM	NM
SG-5	1493644.8	647726.04	759.04	NM	NM	NM	NM	33.95	725.09	NM	NM
SG-6	1495289.8	648481.64	759.86	NM	NM	NM	NM	33.28	726.58	NM	NM
SG-7	1497098.9	648648.94	760.02	NM	NM	NM	NM	28.52	731.50	NM	NM
SG-8	1501917.3	650820.53	768.20	NM	NM	NM	NM	29.61	738.59	NM	NM

Notes:
Water levels measured via a water level indicator.
Water levels collected on November 11, 2003, July 18, 2007, and November 5, 2008 were used to create contour figures.
Water levels collected on November 20, 2008 were used to create cross section flow net figures.

TOC = Top of Casing Elevation
NM = Not Measured
NI = Well was installed after this date, therefore water level not measured.

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
ET01D	Nov-03	**9**	<0.8	**15**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**59**	<0.8	**6**	**68**	**1 J**	<0.8
	Apr-05	**29**	<0.8	**15**	**5 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**610**	<0.8	**14**	**70**	**170**	<0.8
	Jul-05	**13**	<0.8	**18**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**50**	<0.8	**9**	**9**	**8**	<0.8
	Nov-05	**14**	<0.8	**25**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**29**	<0.8	**6**	**22**	**17**	<0.8
	Mar-06	**13**	<0.8	**31**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**28**	<0.8	**5**	**21**	**23**	<0.8
	Oct-06	**17**	<0.8	**30**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**120**	<0.8	**7**	**13**	**48**	<0.8
	Jan-07	**24**	<0.8	**28**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**190**	<0.8	**11**	**13**	**26**	<0.8
	Jul-07	**20**	<0.8	**36**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**240**	<0.8	**11**	**10**	**97**	<0.8
	Feb-08	**47.4**	<0.49	**35.2**	**1.7**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**270**	<0.28	**14.7**	**10.6**	**164**	<0.2
	Oct-08	**18**	<0.8	**15**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**280**	<0.8	**13**	**5**	**180**	<0.8
ET01I	Nov-03	**8**	<0.8	**17**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**14**	<0.8	<0.8	**10**	**10**	<0.8
	Apr-05	**23**	<0.8	**14**	**5**	<1	<3	<6	<0.5	<1	<1	<0.8	**1100**	<0.8	**15**	**8**	**260**	<0.8
	Jul-05	**14**	<0.8	**10**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5**	<0.8	**6**	<1	**6**	<0.8
	Nov-05	**13**	<0.8	**13**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	**5**	**6**	**16**	<0.8
	Mar-06	**12**	<0.8	**17**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	<0.8	**5**	**1 J**	**2 J**	<0.8
	Oct-06	**8**	<0.8	**19**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.8 J**	<0.8	**2 J**	**1 J**	**2 J**	<0.8
	Jan-07	**8**	<0.8	**16**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	<0.8	**2 J**	**1 J**	**1 J**	<0.8
	Jul-07	**4 J**	<0.8	**17**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	**1 J**	<0.8
	Feb-08	**3.8**	<0.49	**24.9**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**4.1**	<0.28	**0.72 J**	**2.2**	**17.9**	<0.2
	Oct-08	**4 J**	<0.8	**19**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**48**	<0.8	**1 J**	**2 J**	**100**	<0.8
ET01S	Nov-03	**22**	<0.8	**13**	**3 J**	<1	**4 J**	<6	<0.5	<1	<1	<0.8	**96**	**29**	**1 J**	**19**	<1	<0.8
	Apr-05	**69**	<0.8	**12**	**5**	<1	<3	<6	<0.5	<1	<1	<0.8	**810**	**2 J**	**15**	**20**	**68**	<0.8
	Jul-05	**20**	<0.8	**7**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	**10**	<1	**1 J**	<0.8
	Nov-05	**200**	<0.8	**67**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**180**	**9**	**8**	**52**	**37**	<0.8
	Mar-06	**68**	<0.8	**53**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**79**	**6**	**7**	**23**	**7**	<0.8
	Oct-06	**26**	<0.8	**48**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	**2 J**	**4 J**	**1 J**	<0.8
	Jan-07	**25**	<0.8	**25**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5 J**	<0.8	**4 J**	**4 J**	**1 J**	<0.8
	Jul-07	**7**	<0.8	**10**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**25**	<0.8	**3 J**	**3 J**	**40**	<0.8
	Feb-08	**20.8**	<0.49	**32.9**	**3.7**	<0.29	<2.7	<2.9	<0.19	<0.14	1.3	<0.25	**276**	**2.6**	**10.9**	**22.4**	**151**	<0.2
	Oct-08	**5 J**	<0.8	**11**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**580**	**0.9 J**	**12**	**12**	**110**	<0.8
ET02D	Nov-03	**75**	<0.8	**20**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**33**	<0.8	**2 J**	**62**	**1 J**	<0.8
	Apr-05	**25**	<0.8	**15**	**10**	<1	<3	<6	<0.5	<1	<1	<0.8	**340**	<0.8	**9**	**190**	**35**	<0.8
	Jul-05	**35**	<0.8	**14**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**590**	<0.8	**13**	**190**	**63**	<0.8
	Nov-05	**37**	<0.8	**15**	**5**	<1	<3	<6	<0.5	<1	<1	<0.8	**370**	<0.8	**13**	**220**	**7**	<0.8
	Mar-06	**31**	<0.8	**16**	**6**	<1	<3	<6	<0.5	<1	<1	<0.8	**320**	<0.8	**12**	**210**	**12**	<0.8
	Oct-06	<0.8	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5**	<0.8	<0.8	**1 J**	**1 J**	<0.8
	Jan-07	**27**	<0.8	**19**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**110**	<0.8	**7**	**140**	**16**	<0.8
	Jul-07	**24**	<0.8	**36**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**95**	<0.8	**6**	**130**	**23**	<0.8
	Feb-08	**20.5**	<0.99	**22.2**	**3.6**	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**218**	<0.56	**7.6**	**84.9**	**42.8**	<0.4

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
ET02I	Nov-03	**3 J**	<0.8	**17**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**63**	<0.8	**6**	**240**	**3 J**	<0.8
	Apr-05	<0.8	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	<0.8	**3 J**	**9**	<0.8
	Jul-05	<0.8	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	<0.8	**2 J**	**6**	<0.8
	Nov-05	<0.8	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	<0.8	<0.8	**1 J**	**4 J**	<0.8
	Mar-06	<0.8	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	<0.8	<0.8	**2 J**	**2 J**	<0.8
	Oct-06	**30**	<0.8	**23**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**110**	<0.8	**7**	**160**	**45**	<0.8
	Jan-07	<0.8	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**1 J**	<1	<0.8
	Jul-07	<0.8	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**1 J**	<1	<0.8
	Feb-08	<0.3	<0.49	**1.2**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**3.3**	<0.28	**0.37 J**	**1**	**1.3**	<0.2
ET02S	Nov-03	**130**	<0.8	**27**	**25**	<1	<3	<6	<0.5	<1	<1	<0.8	**180**	**46**	**3 J**	**33**	<1	<0.8
	Apr-05	**81**	<0.8	**8**	**6**	<1	<3	<6	<0.5	<1	<1	<0.8	**760**	**40**	**14**	**64**	**110**	<0.8
	Jul-05	**19**	<0.8	**7**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5 J**	**1 J**	**9**	**3 J**	**3 J**	<0.8
	Nov-05	**2700**	<0.8	**150**	**160**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**250**	**3 J**	**8**	**550**	**55**	<0.8
	Mar-06	**120**	<0.8	**5**	**8**	<1	<3	<6	<0.5	<1	<1	**1 J**	**33**	**4 J**	**1 J**	**38**	**4 J**	**0.9 J**
	Oct-06	**15**	<0.8	**39**	<0.8	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**6**	**4 J**	**2 J**	**13**	<1	<0.8
	Jan-07	**93**	<0.8	**34**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**21**	**4 J**	**2 J**	**36**	<1	<0.8
	Jul-07	**27**	<0.8	**18**	<0.8	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**3 J**	**3 J**	**2 J**	**8**	**11**	<0.8
	Feb-08	**175**	<0.49	**19**	**10.4**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**156**	**4.2**	**12.4**	**94.1**	**8**	<0.2
ET03D	Nov-03	**320**	<0.8	**25**	**34**	<1	**35**	<6	<0.5	<1	**1 J**	<0.8	**120**	**710**	**3 J**	**240**	**8**	<0.8
	Nov-05	**54**	<0.8	**3 J**	**4 J**	<1	**14**	<6	<0.5	<1	<1	<0.8	**26**	**570**	**1 J**	**76**	**2 J**	<0.8
	Mar-06	**33**	<2	**6 J**	**4 J**	<3	<8	<15	<1	<3	**5 J**	<2	**1400**	**460**	**16**	**60**	**70**	<2
	Oct-06	**34**	<0.8	**5**	**5 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**290**	**230**	**4 J**	**110**	**22**	<0.8
	Jan-07	**33**	<0.8	**4 J**	**5 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**290**	**280**	**4 J**	**110**	**12**	<0.8
	Jul-07	**29**	<0.8	**4 J**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**93**	**290**	**2 J**	**120**	**7**	<0.8
	Feb-08	**24.3**	<0.99	**4**	**3**	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**283**	**252**	**7**	**63.6**	**14.8**	<0.4
ET03I	Nov-03	**840**	<0.8	**40**	**81**	**1 J**	**5 J**	<6	<0.5	<1	<1	**2 J**	**64**	<0.8	**2 J**	**580**	<1	<0.8
	Nov-05	**470**	<0.8	**120**	**50**	<1	<3	<6	<0.5	<1	**3 J**	<0.8	**680**	**0.9 J**	**42**	**690**	**200**	<0.8
	Mar-06	**320**	<0.8	**86**	**55**	<1	**36**	**7 J**	<0.5	<1	<1	<0.8	**450**	**1 J**	**31**	**650**	**74**	<0.8
	Oct-06	**210**	<0.8	**120**	**60**	<1	<3	<6	<0.5	<1	<1	<0.8	**280**	**13**	**26**	**420**	**9**	<0.8
	Jan-07	**170**	<0.8	**110**	**64**	**1 J**	<3	<6	<0.5	<1	<1	<0.8	**330**	**0.9 J**	**32**	**460**	**13**	<0.8
	Jul-07	**120**	<0.8	**110**	**70**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**260**	**0.9 J**	**30**	**350**	**11**	<0.8
	Feb-08	**70.4**	<0.99	**131**	**29.3**	**1.5 J**	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**156**	**0.61 J**	**28**	**313**	**18.9**	<0.4
ET03S	Nov-03	**76**	<0.8	**110**	**52**	**2 J**	**1300**	<6	<0.5	<1	<1	**0.9 J**	**170**	**3 J**	**5 J**	**97**	<1	<0.8
	Nov-05	**69**	<0.8	**23**	**11**	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**26**	**3 J**	<0.8	**88**	**16**	<0.8
	Mar-06	**44**	<0.8	**25**	**8**	<1	<3	<6	<0.5	<1	<1	<0.8	**20**	**2 J**	<0.8	**57**	**23**	<0.8
	Oct-06	**64**	<0.8	**24**	**12**	<1	<3	<6	<0.5	<1	<1	<0.8	**57**	**9**	**2 J**	**51**	**7**	<0.8
	Jan-07	**73**	<0.8	**11**	**15**	<1	<3	<6	<0.5	<1	<1	<0.8	**40**	**2 J**	<0.8	**31**	<1	<0.8
	Jul-07	**70**	<0.8	**13**	**11**	<1	<3	<6	<0.5	<1	<1	<0.8	**41**	**4 J**	**0.9 J**	**34**	<1	<0.8
	Feb-08	**51.1**	<0.49	**13.5**	**4.7**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**22.3**	**3**	**0.74 J**	**27.1**	**0.75 J**	<0.2

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
ET04D	Nov-05	**260**	<0.8	**9**	**15**	<1	<3	<6	<0.5	<1	<1	<0.8	**33**	**2 J**	**3 J**	**55**	<1	<0.8
	Mar-06	**260**	<0.8	**8**	**17**	<1	<3	<6	<0.5	<1	<1	<0.8	**34**	**2 J**	**4 J**	**64**	<1	<0.8
	Oct-06	**230**	<0.8	5	**13**	<1	<3	<6	<0.5	<1	<1	<0.8	**29**	**2 J**	**4 J**	**58**	<1	<0.8
	Jan-07	**250**	<0.8	**5 J**	**12**	<1	<3	<6	<0.5	<1	<1	<0.8	**30**	**1 J**	**3 J**	**57**	<1	<0.8
	Jul-07	**260**	<0.8	**5 J**	**13**	<1	<3	<6	<0.5	<1	<1	<0.8	**30**	**1 J**	**4 J**	**70**	**2 J**	<0.8
	Feb-08	**153**	<0.49	**2.9**	**6.9**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.25 J**	**26.7**	**0.93 J**	**3.1**	**67.1**	**2.1**	<0.2
ET04I	Nov-05	**10**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**11**	**280**	**1 J**	**34**	<1	<0.8
	Mar-06	**11**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**25**	**300**	**2 J**	**41**	**2 J**	<0.8
	Oct-06	**8**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**62**	**260**	**2 J**	**33**	**2 J**	<0.8
	Jan-07	**9**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**40**	**270**	**1 J**	**33**	**1 J**	<0.8
	Jul-07	**7**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**23**	**280**	**1 J**	**28**	**2 J**	<0.8
	Feb-08	**7.1**	<0.49	**0.97 J**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**14.8**	**175**	**1.4**	**26.7**	**1.9**	<0.2
ET04S	Nov-05	**59**	<0.8	**9**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**39**	**110**	**<0.8**	**28**	<1	<0.8
	Mar-06	**39**	<0.8	**7**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**21**	**140**	**7**	**25**	<1	<0.8
	Oct-06	**28**	<0.8	**9**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**25**	**120**	**2 J**	**19**	<1	<0.8
	Jan-07	**33**	<0.8	**10**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**18**	**110**	**2 J**	**20**	<1	<0.8
	Jul-07	**23**	<0.8	**9**	<0.8	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**27**	**110**	**2 J**	**20**	<1	<0.8
	Feb-08	**68.9**	<0.49	**16.4**	**4.8**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**67.2**	**167**	**3.7**	**41.4**	<0.22	<0.2
ET05D	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5 J**	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**2.8**	<0.28	**0.47 J**	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	<1	<1	<0.8
ET05I	Jan-07	**0.8 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**19**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**17**	<1	<0.8
	Feb-08	**0.8 J**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.78 J**	<0.28	<0.32	**27.8**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.8 J**	<0.8	<0.8	**11**	<1	<0.8
ET05S	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Feb-08	**0.34 J**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.42 J**	<0.27	<0.28	<0.32	**1.1**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
ET06S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
EW1	Jul-05	<0.8	<0.8	<1	<0.8	<1	**<3**	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	1 J	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
EW2	Jul-05	1 J	<0.8	6	1 J	<1	**<3**	**<6**	<0.5	<1	<1	<0.8	**120**	78	**15**	**1000**	**22**	<0.8
	Nov-05	<0.8	<0.8	**1 J**	<0.8	<1	**9 J**	<6	<0.5	<1	<1	<0.8	**31**	**95**	**12**	**420**	**3 J**	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**27**	**150**	**12**	**340**	**2 J**	<0.8
EW3	Jul-05	**43**	<0.8	**20**	25	<1	**<3**	<6	<0.5	<1	2 J	<0.8	**380**	<0.8	**13**	**1500**	3 J	<0.8
	Nov-05	**74**	<2	**23**	**41**	<2	<6	<12	<1	<2	<2	<2	**540**	<2	**17**	**1200**	**6 J**	<2
	Mar-06	**74**	<2	**20**	**46**	<2	<6	<12	<1	<2	<2	<2	**490**	<2	**15**	**1700**	**6 J**	<2

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
EW4	Jul-05	**310**	<0.8	**32**	**91**	<1	<3	<6	<0.5	<1	<1	0.8 J	**110**	**58**	**5**	**950**	**1 J**	<0.8
	Nov-05	**290**	<0.8	**25**	**56**	<1	<3	<6	<0.5	<1	<1	<0.8	**80**	**73**	**5 J**	**890**	**2 J**	<0.8
	Mar-06	**290**	<0.8	**27**	**60**	<1	<3	**12 J**	<0.5	<1	<1	<0.8	**89**	**52**	**5**	**930**	**3 J**	<0.8
EW5	Jul-05	**110**	<0.8	**13**	**11**	<1	<3	<6	<0.5	<1	<1	<0.8	**52**	**410**	1 J	**54**	<1	<0.8
EW6	Jul-05	**11**	<0.8	**2 J**	**<0.8**	<1	<3	<6	<0.5	<1	**<1**	<0.8	**14**	**160**	**<0.8**	**23**	**2 J**	<0.8
MW007S	Nov-03	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**75**	<1	<0.8
	Apr-05	**4 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**77**	<1	<0.8
	Jul-05	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	**10**	<1	<0.8
	Nov-05	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**17**	<1	<0.8
	Mar-06	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	**31**	<1	<0.8
	Jul-07	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**3 J**	<0.8	**8**	<1	<0.8
	Feb-08	**5.5**	<0.49	**0.79 J**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.34 J**	**0.96 J**	**8.5**	<0.32	**87.3**	<0.22	<0.2
MW008S	Nov-03	**5 J**	<0.8	**6**	<0.8	<1	**6 J**	<6	<0.5	<1	<1	**1 J**	**160**	**300**	**1 J**	**330**	<1	<0.8
	Apr-05	**4 J**	<0.8	**56**	**2 J**	<1	<3	<6	<0.5	<1	**3 J**	<0.8	**82**	**380**	**0.9 J**	**300**	**5**	<0.8
	Jul-05	**6**	<0.8	**76**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**100**	**330**	**1 J**	**230**	**5 J**	<0.8
	Nov-05	**6 J**	<2	**76**	**3 J**	<2	<6	<12	<1	<2	<2	<2	**90**	**1000**	<2	**320**	**13**	<2
	Mar-06	**4 J**	<0.8	**52**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**73**	**430**	**1 J**	**250**	**4 J**	<0.8
	Nov-06	**4 J**	<0.8	**40**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**63**	**250**	**0.9 J**	**230**	**6**	<0.8
	Jan-07	**5 J**	<0.8	**38**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**52**	**300**	**0.9 J**	**220**	**6**	<0.8
	Jul-07	**6**	<0.8	**53**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**78**	**390**	**1 J**	**180**	**4 J**	<0.8
	Feb-08	**5.3**	<1.2	**34.3**	<0.69	<0.72	<6.8	<7.3	<0.48	<0.36	<1.7	<0.64	**56.8**	**381**	<0.79	**170**	**3.7**	<0.51
	Oct-08	**8**	<0.8	**41**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**57**	**560**	**2 J**	**120**	**3 J**	<0.8
MW010S	Nov-03	**510**	<20	**340**	**140**	<25	<75	<150	<13	<25	<25	<20	**1700**	<20	**26 J**	**17000**	<25	<20
	Apr-05	**340**	<8	**79**	**92**	<10	<30	<60	<5	<10	<10	<8	**560**	<8	**9 J**	**6400**	<10	<8
	Jul-05	**370**	<8	**130**	**220**	<10	<30	<60	<5	<10	<10	<8	**1200**	<8	**22 J**	**7700**	<10	<8
	Nov-05	**540**	<16	**150**	**310**	<20	<60	<120	<10	<20	<20	<16	**1300**	<16	**23 J**	**9800**	<20	<16
	Mar-06	**480**	<16	**160**	**290**	<20	<60	<120	<10	<20	<20	<16	**1600**	<16	**28 J**	**10000**	<20	<16
	Nov-06	**1100**	<8	**97**	**410**	<10	<30	<60	<5	<10	<10	<8	**1400**	<8	**30 J**	**14000**	<10	<8
	Jan-07	**1400**	<8	**86**	**370**	<10	<30	<60	<5	<10	<10	<8	**1200**	<8	**28 J**	**15000**	<10	<8
	Jul-07	**1200**	<20	**46 J**	**220**	<25	<75	<150	<13	<25	<25	<20	**330**	<20	<20	**14000**	<25	<20
	Feb-08	**305**	<9.9	**45**	**58.4**	<5.7	<54	<58	<3.9	<2.8	<13	<5.1	**123**	<5.6	<6.3	**4290**	<4.5	<4
	Oct-08	**390**	<8	**81**	**78**	<10	<30	<60	<5	<10	<10	<8	**200**	<8	<20	**6300**	<10	<8
MW011S	Nov-03	**28**	<2	**5 J**	**2 J**	<2	<6	<12	<1	<2	<2	<2	**110**	<2	**3 J**	**1400**	<2	<2
	Apr-05	**7**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**57**	<0.8	**2 J**	**420**	**2 J**	<0.8
	Jul-05	**23**	<2	**2 J**	**3 J**	<2	<6	<12	<1	<2	<2	<2	**150**	<2	**4 J**	**1600**	<2	<2
	Nov-05	**9**	<0.8	**2 J**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**83**	<0.8	**2 J**	**440**	<1	<0.8
	Mar-06	**3 J**	<0.8	**2 J**	<0.8	<1	**3 J**	<6	<0.5	<1	<1	<0.8	**60**	<0.8	**2 J**	**230**	**1 J**	<0.8
	Nov-06	**8**	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**39**	**1 J**	**1 J**	**570**	<1	<0.8
	Jan-07	**5 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**31**	**2 J**	**1 J**	**320**	<1	<0.8
	Jul-07	**2 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**29**	**0.8 J**	**1 J**	**140**	<1	<0.8
	Feb-08	**11.6**	<0.49	**1.4**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**45.2**	**1**	**2.1**	**427**	<0.22	<0.2

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MW015S	Nov-03	**1 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**98**	<0.8	<1	<1	<0.8
	Apr-05	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**150**	<0.8	<1	<1	<0.8
	Jul-05	**3 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	**180**	<0.8	<1	<1	<0.8
	Nov-05	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	**240**	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	<0.8	**110**	<0.8	<1	<1	<0.8
	Oct-06	**6**	<0.8	**4 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**10**	<0.8	**240**	<0.8	**1 J**	<1	<0.8
	Jan-07	**5**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**5 J**	<0.8	**240**	<0.8	<1	<1	<0.8
	Jul-07	**3 J**	<0.8	**4 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	**290**	<0.8	**1 J**	<1	<0.8
	Feb-08	**3.7**	<0.49	**1.7**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**2.7**	<0.27	**357**	<0.32	**0.73 J**	<0.22	<0.2
MW018S	Nov-03	**71**	<0.8	**93**	**4 J**	<1	**8 J**	<6	<0.5	<1	32	<0.8	**240**	**500**	**8**	**51**	11	<0.8
	Apr-05	**57**	<0.8	**7**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**27**	**1000**	**1 J**	**67**	<1	<0.8
	Jul-05	**20**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**5**	**430**	<0.8	**25**	<1	<0.8
	Nov-05	**40**	<0.8	**4 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**21**	**610**	**1 J**	**63**	<1	<0.8
	Mar-06	**37**	<0.8	**9**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**660**	**250**	**4 J**	**130**	**58**	<0.8
	Oct-06	**29**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	**900**	<0.8	**52**	<1	<0.8
	Jan-07	**37**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**8**	**1200**	<0.8	**58**	<1	<0.8
	Jul-07	**27**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	**1100**	<0.8	**47**	<1	<0.8
MW019S	Nov-03	**1 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	**0.9 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Nov-05	**0.9 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW020S	Nov-03	**1 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**4 J**	<1	<0.8
	Apr-05	**0.9 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**4 J**	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**3 J**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**3 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**3 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**3 J**	<1	<0.8
MW024S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**6**	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**8**	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**4 J**	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**7**	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	<0.8	<0.8	<1	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MW025S	Nov-03	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**19**	**2 J**	<0.8	**120**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**4 J**	<0.8	**1 J**	<0.8	**24**	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	**1 J**	**1 J**	<0.8	**16**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	**2 J**	**1 J**	<0.8	**17**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	**1 J**	**1 J**	<0.8	**16**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**4 J**	<0.8	**1 J**	<0.8	**7**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**4 J**	<0.8	**1 J**	<0.8	**7**	<1	<0.8
	Feb-08	**0.38 J**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**6.2**	**0.79 J**	**1.2**	<0.32	**10**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**9**	<0.8	**1 J**	<0.8	**3 J**	<1	<0.8
MW026S	Nov-03	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**3 J**	<1	<0.8
	Jul-07	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**38**	<1	<0.8
MW027S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**1 J**	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
MW028S	Nov-03	**75**	<8	**15 J**	**27 J**	<10	<30	<60	<5	<10	<10	<8	**1100**	<8	**24 J**	**9600**	**19 J**	<8
	Nov-05	**36**	<4	<5	<4	<5	<15	<30	<3	<5	<5	<4	**71**	<4	<4	**2700**	<5	<4
	Mar-06	**46**	<4	<5	**4 J**	<5	<15	<30	<3	<5	<5	<4	**94**	<4	<4	**3900**	<5	<4
	Oct-06	**18**	<0.8	**1 J**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**38**	<0.8	**2 J**	**2100**	<1	<0.8
	Jan-07	**17**	<2	<2	**2 J**	<2	<6	<12	<1	<2	<2	<2	**49**	<2	**2 J**	**1400**	<2	<2
	Jul-07	**18 J**	<4	<5	<4	<5	<15	<30	<3	<5	<5	<4	**47**	<4	<4	**2200**	<5	<4
	Feb-08	**14**	<2.5	**2 J**	<1.4	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	**57.3**	<1.4	**2 J**	**1460**	<1.1	<1
	Oct-08	**8 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**55**	<0.8	**3 J**	**740**	<1	<0.8
MW029RD	Jan-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**0.41 J**	<0.22	<0.2
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**0.58 J**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
MW029RI	Jan-08	<0.3	<0.49	<0.2	**0.33 J**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**19.2**	<0.28	**0.58 J**	**186**	**3.2**	<0.2
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**15.5**	<0.28	**0.42 J**	**168**	**4.7**	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**33**	**4 J**	<0.8
MW029RS	Jan-08	<7.6	<12	**10.7 J**	<6.9	<7.2	<68	<73	<4.8	<3.6	<17	<6.4	**1060**	<7	**34.3**	**4750**	**8.4 J**	<5.1
	Feb-08	**1.8 J**	**3.5 J**	**10.2**	**14.3**	<1.4	<14	<15	**1.3 J**	<0.71	<3.4	<1.3	**1170**	<1.4	**59.1**	**6350**	**10.5**	<1
	Oct-08	<16	<16	<20	**9 J**	<20	<60	<120	<10	<20	<20	<16	**850**	<16	**19 J**	**7900**	<10	<16
MW029S	Nov-03	<16	<16	<20	<16	<20	<60	<120	<10	<20	<20	<16	**3800**	<16	**29 J**	**16000**	**730**	<16
MW030S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MW031S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	**0.78 J**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
MW032S	Nov-03	**6**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**0.8 J**	**7**	**0.9 J**	<0.8	**250**	<1	<0.8
	Jul-07	**15**	<0.8	**4 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	**16**	<0.8	**100**	<1	<0.8
MW033S	Nov-03	**14**	<2	**39**	**2 J**	<2	<6	<12	<1	<2	<2	<2	**310**	<2	**17**	**1900**	**23**	<2
	Nov-05	**15**	<0.8	**42**	**5**	<1	<3	<6	<0.5	<1	<1	<0.8	**700**	**2 J**	**21**	**4000**	**44**	<0.8
	Mar-06	**18 J**	<4	**48**	**4 J**	<5	<15	<30	<3	<5	<5	<4	**690**	<4	**19 J**	**3800**	**36**	<4
	Oct-06	**17**	<2	**38**	**6 J**	<3	<8	<15	<1	<3	<3	<2	**690**	**3 J**	**17**	**3900**	**31**	<2
	Jan-07	**16 J**	<4	**34**	**6 J**	<5	<15	<30	<3	<5	<5	<4	**630**	<4	**16 J**	**3200**	**36**	<4
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	**19.3 J**	<12	**46.4**	<6.9	<7.2	<86	<73	<4.8	<3.6	<17	<6.4	**734**	<7	**22 J**	**4790**	**60.8**	<5.1
MW034S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**16**	**1 J**	**0.9 J**	**220**	**10**	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	**32**	**9**	<0.8
MW035S	Nov-03	**9**	<0.8	**16**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**62**	**3 J**	**5 J**	**220**	<1	<0.8
	Jul-07	**16**	<0.8	**20**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**80**	**5 J**	**2 J**	**340**	**6**	<0.8
MW036S	Nov-03	**2 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**120**	<0.8	**3 J**	**720**	<1	<0.8
MW037S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**42**	<1	<0.8
	Nov-05	**3 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	**2 J**	<0.8	**130**	<1	<0.8
	Mar-06	**3 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	**2 J**	<0.8	**120**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Jul-07	**3 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	**2 J**	<0.8	**22**	<1	<0.8
	Feb-08	**2.2**	<0.49	**0.32 J**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.78 J**	**1.4**	<0.32	**18.3**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW038S	Nov-03	**7**	<0.8	**8**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**130**	<0.8	**6**	**670**	<1	<0.8
	Apr-05	**10**	<0.8	**20**	**5**	<1	<3	<6	<0.5	<1	<1	<0.8	**680**	<0.8	**16**	**2800**	<1	<0.8
	Nov-05	**14**	<0.8	**36**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**550**	<0.8	**16**	**3300**	**2 J**	<0.8
	Mar-06	**12 J**	<4	**33**	<4	<5	<15	<30	<3	<5	<5	<4	**810**	<4	**19 J**	**3900**	**18 J**	<4
	Oct-06	**15 J**	<3	**25**	**6 J**	<4	<12	<24	<2	<4	<4	<3	**650**	<3	**13 J**	**3100**	<4	<3
	Jan-07	**14**	<2	**24**	**9 J**	<3	<8	<15	<1	<3	<3	<2	**720**	<2	**13**	**3100**	<3	<2
	Jul-07	**24 J**	<8	**26 J**	**20 J**	<10	<30	<60	<5	<10	<10	<8	**720**	<8	**12 J**	**3800**	<10	<8
	Feb-08	**22**	<4.9	**33.3**	**7.8 J**	<2.9	<27	<29	<1.9	<1.4	<6.7	<2.5	**1200**	<2.8	**50.2**	**4710**	**9.6 J**	<2
	Oct-08	**23 J**	<2	**20 J**	**15 J**	<3	<8	<15	<1	<3	<3	<2	**560**	<2	**11 J**	**3600**	<3	<2
MW039S	Nov-03	**4 J**	<0.8	**3 J**	**1 J**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**150**	<0.8	**8**	**400**	**3 J**	<0.8
	Nov-05	**6**	<0.8	**9**	**6**	**3 J**	<3	<6	<0.5	<1	<1	<0.8	**190**	<0.8	**10**	**310**	**3 J**	<0.8
	Oct-06	**25**	<0.8	**9**	**8**	**3 J**	<3	<6	<0.5	<1	<1	<0.8	**200**	<0.8	**10**	**360**	**1 J**	<0.8
	Jan-07	**30**	<0.8	**10**	**9**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**260**	<0.8	**12**	**430**	**1 J**	<0.8
	Jul-07	**34**	<0.8	**10**	**9**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**240**	<0.8	**10**	**610**	**1 J**	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MW040S	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW-41D	Feb-08	**3.9**	<0.49	**2.7**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**2.6**	**5.1**	**2.1**	**651**	**0.59 J**	<0.2
MW-41I	Feb-08	**2.5**	<1.2	**2.1 J**	<0.69	<0.72	<6.8	<7.3	<0.48	<0.36	<1.7	<0.64	**2.6**	**8.3**	<0.79	**441**	<0.56	<0.51
MW-41S	Feb-08	**1.3 J**	<1.2	**1.7 J**	<0.69	<0.72	<6.8	<7.3	<0.48	<0.36	<1.7	<0.64	**3.9**	**4.3**	**1.4 J**	**436**	<0.56	<0.51
MW-44D	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW-44I	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.71 J**	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW-44S	Feb-08	**4.1**	<0.49	**4.6**	**1.1**	**1.3**	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**81.3**	**0.87 J**	**4.1**	**156**	<0.22	<0.2
	Oct-08	**3 J**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	**35**	**0.9 J**	**2 J**	**270**	<1	<0.8
MW-45D	Feb-08	**<0.3**	<0.49	**0.34 J**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**1.4**	<0.28	<0.32	**79.1**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**4 J**	<1	<0.8
MW-45I	Feb-08	**4.6**	<0.49	**6**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.4 J**	**34.4**	**1.1**	**1.6**	**567**	<0.22	<0.2
	Oct-08	**6**	<0.8	**5 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**32**	**2 J**	**1 J**	**620**	<1	<0.8
MW-45S	Feb-08	**5.6**	<2.5	**5.2**	<1.4	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	**28.1**	**8**	**2.1 J**	**1130**	<1.1	<1
	Oct-08	**6 J**	<0.8	**5 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**37**	**10 J**	<0.8	**890**	<1	<0.8
MW-46D	Feb-08	<3	<4.9	**11.6**	<2.8	<2.9	<27	<29	<1.9	<1.4	<6.7	<2.5	**101**	**4.2 J**	**3.2 J**	**1490**	**3.3 J**	<2
	Oct-08	<0.8	<0.8	**13**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**370**	<0.8	**77**	**1200**	<1	<0.8
MW-46I	Feb-08	<3	<4.9	**6.4 J**	<2.8	<2.9	<27	<29	<1.9	<1.4	<6.7	<2.5	**79.8**	**76.6**	**5.4 J**	**1120**	<2.2	<2
	Oct-08	**6 J**	<0.8	**10 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**180**	**92**	**5 J**	**1000**	<1	<0.8
MW-46S	Feb-08	<1.5	<2.5	**4.5 J**	<1.4	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	**87.7**	**646**	**3.6 J**	**366**	<1.1	<1
	Oct-08	**3 J**	<0.8	**6**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**150**	**1500**	**4 J**	**470**	<1	<0.8
MW-47D	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW-47I	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MW-47S	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**2.1**	<0.27	**0.64 J**	<0.32	**1.6**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**6**	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
MW-48D	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
MW-48I	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	**0.25 J**	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
MW-48S	Feb-08	**16.2**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
MWA001	Nov-03	**590**	<0.8	**170**	**23**	<1	<3	<6	**1 J**	<1	<1	<0.8	**2300**	**440**	**28**	**120**	<1	<0.8
	Apr-05	**220**	<0.8	**10**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**200**	**320**	**4 J**	**82**	**1 J**	<0.8
	Jul-05	**250**	<0.8	**10**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**260**	**350**	**6**	**100**	**32**	<0.8
	Nov-05	**260**	<0.8	**11**	**5 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**220**	**280**	**6**	**86**	**7**	<0.8
	Mar-06	**3 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**1 J**	**1 J**	**61**	<0.8	**13**	<1	<0.8
	Oct-06	**67**	<0.8	**2 J**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**38**	**270**	**2 J**	**43**	<1	<0.8
	Jan-07	**96**	<0.8	**4 J**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**78**	**220**	**3 J**	**52**	**4 J**	<0.8
	Jul-07	**130**	<0.8	**5**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**92**	**230**	**4 J**	**68**	**4 J**	<0.8
	Feb-08	**88.5**	<0.49	**5.3**	**0.75 J**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**32.3**	**324**	**0.97 J**	**63.5**	**1.5**	<0.2
	Oct-08	**67**	<0.8	**10**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**94**	**250**	**2 J**	**53**	**22**	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichlor o ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MWA002	Nov-03	**100**	<2	**17**	**3 J**	<2	<6	<12	<1	<2	<2	<2	**300**	**870**	**3 J**	**48**	**6 J**	<2
	Apr-05	**1300**	<2	**18**	**47**	<2	<6	<12	<1	<2	<2	<2	**57**	**470**	<2	**52**	<2	<2
	Jul-05	**1700**	<0.8	**85**	**46**	<1	<3	<6	<0.5	<1	<1	<0.8	**400**	**900**	**5**	**130**	**47**	<0.8
	Nov-05	**880**	<2	**21**	**20**	<3	<8	<15	<1	<3	<3	<2	**140**	**600**	<2	**57**	<3	<2
	Mar-06	**580**	<0.8	**7**	**12**	<1	<3	<6	<0.5	<1	<1	<0.8	**35**	**340**	<0.8	**46**	<1	<0.8
	Oct-06	**820**	<0.8	**14**	**14**	<1	<3	<6	<0.5	<1	<1	<0.8	**11**	**310**	<0.8	**40**	<1	<0.8
MWA003	Nov-03	**990**	<0.8	**81**	**81**	<1	11	<6	<0.5	<1	<1	**1 J**	**290**	**680**	**11**	**370**	**9**	<0.8
	Apr-05	**540**	<0.8	**20**	**43**	<1	<3	<6	<0.5	<1	<1	<0.8	**620**	**540**	**10**	**480**	**43**	<0.8
	Jul-05	**600**	<0.8	**12**	**27**	<1	<3	<6	<0.5	<1	<1	<0.8	**1100**	**820**	**12**	**510**	**25**	<0.8
	Nov-05	**300**	<0.8	**38**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**320**	**32**	**12**	**100**	**96**	<0.8
	Mar-06	**72**	<0.8	**150**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**280**	**150**	**14**	**100**	**41**	<0.8
	Oct-06	**88**	<0.8	**120**	**4 J**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**500**	**49**	**17**	**99**	**230**	<0.8
	Jan-07	**74**	<0.8	**100**	**2 J**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**350**	**23**	**17**	**85**	**140**	<0.8
	Jul-07	**150**	<0.8	**100**	**10**	<1	<3	<6	<0.5	<1	**8**	<0.8	**790**	**340**	**17**	**240**	**160**	<0.8
	Feb-08	**260**	<0.99	**91.1**	**31.3**	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**1160**	**164**	**20**	**284**	**165**	<0.4
MWA004	Nov-03	**45 J**	<8	**59**	**24 J**	<10	<30	<60	<5	<10	<10	<8	**2700**	<8	**39 J**	**20000**	**420**	<8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**13**	<0.8	**8**	**390**	**2 J**	<0.8
MWA005	Nov-03	**1700**	<2	**120**	**340**	**5 J**	<6	<12	<1	<2	<2	**2 J**	**160**	**20**	**6 J**	**1700**	<2	<2
	Apr-05	**1100**	<8	**62**	**320**	<10	<30	<60	<5	<10	<10	<8	**120**	**120**	<8	**1100**	<10	<8
	Jul-05	**1100**	**1 J**	**40**	**230**	<1	<3	<6	<0.5	<1	<1	**3 J**	**87**	**240**	**4 J**	**930**	<1	<0.8
	Nov-05	**1700**	<4	**50**	**250**	<5	<15	<30	<3	<5	<5	<4	**79**	**110**	<4	**1400**	<5	<4
	Mar-06	**1300**	<2	**40**	**190**	<2	<6	<12	<1	<2	<2	**4 J**	**66**	**120**	**3 J**	**1100**	<2	<2
	Oct-06	**920**	<0.8	**30**	**170**	<1	<3	<6	<0.5	<1	<1	**3 J**	**53**	**100**	**3 J**	**950**	<1	<0.8
	Jan-07	**1300**	<2	**30**	**150**	<2	<6	<12	<1	<2	<2	**4 J**	**58**	**89**	**3 J**	**1200**	<2	<2
	Jul-07	**870**	<0.8	**33**	**160**	<1	<3	<6	<0.5	<1	**2 J**	**5 J**	**53**	**140**	**3 J**	**930**	<1	<0.8
	Feb-08	**1170**	<0.49	**50.2**	**150**	**0.79 J**	<2.7	<2.9	<0.19	<0.14	**2.3**	**5.2**	**69.5**	**112**	**3.7**	**1310**	**1.1**	<0.2
MWA006	Nov-03	**3 J**	<0.8	<1	**1 J**	<1	<3	**7 J**	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**31**	<1	<0.8
	Apr-05	**230**	**3 J**	**130**	**280**	**1 J**	<3	<6	**0.5 J**	<1	<1	**4 J**	**2000**	<0.8	**52**	**1700**	<1	<0.8
	Jul-05	**220**	**3 J**	**84**	**230**	<1	<3	<6	<0.5	<1	<1	**3 J**	**1100**	<0.8	**33**	**1300**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Mar-06	**520**	<4	**150**	**430**	<5	<15	<30	<3	<5	<5	**5 J**	**1900**	<4	**46**	**4700**	<5	<4
	Oct-06	**380**	<4	**67**	**210**	<5	<15	<30	<3	<5	<5	<4	**680**	<4	**18 J**	**2700**	<5	<4
	Jan-07	**540**	**3 J**	**120**	**350**	<2	<6	<12	<1	<2	<2	**4 J**	**1200**	<2	**33**	**4700**	<2	<2
	Jul-07	**640**	<4	**110**	**370**	<5	<15	<30	<3	<5	<5	**5 J**	**1200**	<4	**29**	**5600**	<5	<4
	Jul-07	**570**	<8	**98**	**350**	<10	<30	<60	<5	<10	<10	<8	**1100**	<8	**27 J**	**5800**	<10	<8
	Feb-08	**395**	**3.1**	**35.3**	**143**	<0.29	<2.7	<2.9	**0.4 J**	<0.14	<0.67	**1.4**	**259**	**0.32 J**	**8.9**	**2820**	<0.22	<0.2
MWB001	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MWB002	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**2 J**	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**2 J**	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**2 J**	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**0.8 J**	<0.8	<1	**2 J**	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**4 J**	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichlor o ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
MWB003	Nov-03	**320**	<4	**65**	**76**	**65**	<15	<30	**3 J**	<5	<5	**13 J**	**1900**	<4	**59**	**4800**	**16 J**	<4
	Apr-05	**89**	<4	**20 J**	**19 J**	<5	<15	<30	<3	<5	<5	<4	**970**	<4	**28**	**3100**	**12 J**	<4
	Jul-05	**69**	<2	**21**	**20**	<2	<6	<12	**1 J**	<2	<2	<2	**1000**	<2	**34**	**2800**	**15**	<2
	Nov-05	**74**	<4	**18 J**	**21 J**	<5	<15	<30	<3	<5	<5	<4	**900**	<4	**27**	**2900**	**13 J**	<4
	Mar-06	**46**	<4	**15 J**	**18 J**	<5	<15	<30	<3	<5	<5	<4	**720**	<4	**21 J**	**2800**	**10 J**	<4
	Oct-06	**35**	<2	**15**	**11**	**3 J**	<6	<12	<1	<2	<2	<2	**560**	<2	**16**	**1900**	**9 J**	<2
	Jan-07	**30**	<2	**13**	**10 J**	**3 J**	<6	<12	<1	<2	<2	<2	**530**	<2	**16**	**2400**	**5 J**	<2
	Jul-07	**27**	<2	**11 J**	**11 J**	**3 J**	<8	<15	<1	<3	<3	<2	**460**	<2	**16**	**1900**	**4 J**	<2
	Feb-08	**27.2**	<9.9	**19 J**	**16.9 J**	<5.7	<54	<58	<3.9	<2.8	<13	<5.1	**752**	<5.6	**24.2**	**2610**	<4.5	<4
MWB004	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**7**	<1	<0.8
	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**7**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**2.9**	<0.22	<0.2
MWB005	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MWB006	Nov-03	**1000**	<0.8	**290**	**120**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**180**	<0.8	**15**	**850**	**17**	<0.8
	Apr-05	**1800**	<4	**230**	**190**	<5	<15	<30	<3	<5	<5	<4	**390**	<4	**13 J**	**890**	**11 J**	<4
	Jul-05	**1500**	<2	**190**	**160**	<2	<6	<12	<1	<2	<2	<2	**390**	<2	**13**	**770**	**32**	<2
	Jan-07	**250**	<0.8	**48**	**9**	<1	<3	<6	<0.5	<1	<1	<0.8	**91**	<0.8	**2 J**	**140**	**8**	<0.8
MWC001	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**1 J**	<0.8	**2 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MWC002	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
MWC003	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	**0.96 J**	**0.89 J**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**10.5**	<0.28	**0.73 J**	<0.26	**0.62 J**	<0.2

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ007I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**7**	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**8**	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**8**	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**7**	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**7**	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**7.1**	<0.28	**0.35 J**	<0.26	<0.22	<0.2
PZ008D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**1 J**	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	**0.96 J**	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ008I	Nov-03	**76**	<8	**43 J**	**8 J**	<10	<30	<60	<5	<10	<10	<8	**280**	**9900**	**9 J**	**7700**	**68**	<8
	Apr-05	**17 J**	<8	**46 J**	**11 J**	<10	<30	<60	<5	<10	<10	<8	**720**	**8700**	**64**	**10000**	**33 J**	<8
	Jul-05	**19 J**	<8	**36 J**	**11 J**	<10	<30	<60	<5	<10	<10	<8	**640**	**7200**	**71**	**10000**	**32 J**	<8
	Nov-05	<16	**59 J**	**31 J**	<16	<20	<60	<120	<10	<20	<20	<16	**630**	**8500**	**80 J**	**11000**	**23 J**	<16
	Nov-06	**9 J**	<8	**34 J**	**11 J**	<10	<30	<60	<5	<10	<10	<8	**620**	**7500**	**79**	**11000**	**51**	<8
	Jan-07	**8 J**	<8	**22 J**	**8 J**	<10	<30	<60	<5	<10	<10	<8	**560**	**7200**	**83**	**11000**	**37 J**	<8
	Jul-07	<16	<16	**61 J**	<16	<20	<60	<120	<10	<20	<20	<16	**820**	**5700**	**64 J**	**11000**	**64 J**	<16
	Feb-08	<15	<25	**45.3 J**	**20 J**	<14	<140	<150	<9.7	<7.1	<34	<13	**682**	**4100**	**65.2**	**8330**	**56.1**	<10
	Oct-08	<16	<16	**62 J**	<16	<20	<60	<120	<10	<20	<20	<16	**1500**	**3600**	**41 J**	**6300**	<20	<16
PZ009D	Nov-03	<0.8	<0.8	<1	**0.9 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**33**	<0.8	**13**	**810**	**2 J**	<0.8
PZ010I	Nov-03	<8	<8	<10	**11 J**	<10	<30	<60	<5	<10	<10	<8	**2400**	<8	**69**	**8300**	<10	<8
	Apr-05	**24 J**	**6 J**	**9 J**	**11 J**	<5	<15	<30	<3	<5	<5	<4	**1800**	<4	**73**	**3000**	**59**	<4
	Jul-05	**23**	**5 J**	**31**	**31**	<2	<6	<12	**1 J**	<2	<2	**3 J**	**4100**	<2	**150**	**2900**	**52**	<2
	Nov-05	**26 J**	<8	**55**	**64**	<10	<30	<60	<5	<10	<10	<8	**8200**	**26 J**	**260**	**3700**	**43 J**	<8
	Mar-06	**10 J**	**8 J**	**57**	**130**	<10	<30	<60	**6 J**	<10	<10	<8	**7800**	<8	**260**	**2400**	**23 J**	<8
	Nov-06	**45**	**12 J**	**33**	**180**	<5	<15	<30	**9 J**	<5	<5	<4	**3800**	<4	**190**	**1700**	**52**	<4
	Jan-07	**110**	**6 J**	**30**	**120**	**4 J**	<8	<15	**5 J**	<3	<3	**2 J**	**2500**	<2	**130**	**2100**	**24**	<2
	Jul-07	**140**	<16	**33 J**	**100**	<20	<60	<120	<10	<20	<20	<16	**3600**	<16	**140**	**11000**	**44 J**	<16
	Feb-08	**120**	<20	**36.7 J**	**124**	<11	<110	<120	<7.7	<5.7	<27	<10	**1490**	<11	**75.1**	**5340**	**77.5**	<8.1
	Oct-08	**190**	<16	**65 J**	**110**	<20	<60	<120	<10	<20	<20	<16	**1600**	<16	**80 J**	**8600**	**180**	<16
PZ012D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Nov-05	**650**	<4	**140**	**360**	<5	<15	<30	<3	<5	<5	**5 J**	**1700**	<4	**45**	**4000**	<5	<4
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**1.4**	<0.22	<0.2

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ012I	Nov-03	**3 J**	<0.8	**3 J**	**5 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**380**	<0.8	**20**	**190**	**1 J**	<0.8
	Apr-05	**270**	<0.8	**29**	**51**	<1	<3	<6	<0.5	<1	**1 J**	**0.8 J**	**240**	**1 J**	**7**	**1200**	**3 J**	<0.8
	Jul-05	**270**	<0.8	**35**	**57**	<1	<3	<6	<0.5	<1	<1	**1 J**	**260**	**1 J**	**8**	**1200**	**5**	<0.8
	Nov-05	**290**	<2	**27**	**42**	<2	<6	<12	<1	<2	<2	<2	**200**	<2	**6 J**	**1300**	**5 J**	<2
	Mar-06	**250**	<2	**27**	**37**	<2	<6	<12	<1	<2	<2	<2	**210**	<2	**6 J**	**1300**	**3 J**	<2
	Oct-06	**250**	<2	**21**	**35**	<2	<6	<12	<1	<2	<2	<2	**480**	**10**	**6 J**	**890**	**15**	<2
	Jan-07	**270**	<0.8	**20**	**40**	<1	<3	<6	<0.5	<1	<1	<0.8	**560**	**6**	**7**	**1000**	**15**	<0.8
	Jul-07	**230**	<2	**22**	**41**	<2	<6	<12	<1	<2	<2	<2	**370**	**2 J**	**6 J**	**990**	**9 J**	<2
	Feb-08	**228**	<0.49	**23**	**34.1**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.53 J**	**282**	**131**	**7.2**	**871**	**3.8**	<0.2
PZ013I	Nov-03	**320**	<2	**16**	**21**	<2	<6	<12	<1	<2	<2	<2	**63**	**1200**	**2 J**	**170**	<2	<2
	Apr-05	**97**	<0.8	**8**	**9**	<1	<3	<6	<0.5	<1	<1	<0.8	**32**	**1400**	**1 J**	**79**	<1	<0.8
	Jul-05	**71**	<0.8	**8**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**41**	**1100**	**2 J**	**67**	<1	<0.8
	Nov-05	**240**	<0.8	**31**	**44**	<1	<3	<6	<0.5	<1	**6**	<0.8	**140**	**1000**	**3 J**	**89**	**5**	<0.8
	Mar-06	**120**	<0.8	**20**	**21**	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**1600**	**490**	**12**	**75**	**4 J**	<0.8
	Oct-06	**23**	<0.8	**17**	**2 J**	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**70**	**260**	**3 J**	**47**	**5 J**	<0.8
	Jan-07	**38**	<0.8	**18**	**1 J**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**67**	**290**	**3 J**	**67**	**11**	<0.8
	Jul-07	**25**	<0.8	**15**	**5 J**	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**120**	**270**	**3 J**	**65**	**11**	<0.8
	Feb-08	**53.3**	<0.99	**15.3**	**9**	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**162**	**259**	**4.8**	**81.5**	**26.5**	<0.4
PZ014I	Apr-05	**17**	<0.8	**15**	**6**	<1	<3	<6	<0.5	<1	<1	<0.8	**74**	**4 J**	**6**	**280**	**2 J**	<0.8
	Jul-05	**20**	<0.8	**15**	**6**	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**72**	**4 J**	**6**	**270**	**17**	<0.8
	Nov-05	**26**	<0.8	**15**	**7**	<1	<3	<6	<0.5	<1	<1	<0.8	**110**	**4 J**	**7**	**300**	**110**	<0.8
	Mar-06	**30**	<0.8	**18**	**8**	<1	<3	<6	<0.5	<1	**4 J**	<0.8	**230**	**3 J**	**8**	**260**	**160**	<0.8
	Oct-06	**38**	<0.8	**18**	**6**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**470**	**2 J**	**10**	**230**	**120**	<0.8
	Jan-07	**43**	<0.8	**16**	**6**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**530**	**2 J**	**11**	**280**	**77**	<0.8
	Jul-07	**34**	<0.8	**15**	**3 J**	<1	<3	<6	<0.5	<1	**2 J**	<0.8	**350**	**2 J**	**9**	**240**	**56**	<0.8
	Feb-08	**33.1**	<0.49	**15.4**	**2**	<0.29	<2.7	<2.9	<0.19	<0.14	**1.7**	<0.25	**156**	**1.1**	**6.8**	**161**	**56**	<0.2
PZ015I	Nov-03	**16**	<0.8	**7**	**1 J**	**4 J**	<3	<6	<0.5	<1	<1	<0.8	**27**	**49**	**3 J**	**2 J**	<1	<0.8
	Apr-05	**17**	<0.8	**9**	**1 J**	**4 J**	<3	<6	<0.5	<1	<1	<0.8	**22**	**42**	**3 J**	**2 J**	<1	<0.8
	Jul-05	**18**	<0.8	**10**	**0.9 J**	**3 J**	<3	<6	<0.5	<1	<1	<0.8	**21**	**39**	**2 J**	**8**	<1	<0.8
	Nov-05	**20**	<0.8	**13**	<0.8	**3 J**	<3	<6	<0.5	<1	<1	<0.8	**14**	**35**	**2 J**	**4 J**	<1	<0.8
	Mar-06	**25**	<0.8	**10**	**0.9 J**	**<1**	<3	<6	<0.5	<1	<1	<0.8	**10**	**38**	**1 J**	**2 J**	<1	<0.8
	Oct-06	**28**	<0.8	**10**	**1 J**	**<1**	<3	<6	<0.5	<1	<1	<0.8	**10**	**37**	**1 J**	**2 J**	<1	<0.8
	Jan-07	**22**	<0.8	**9**	**0.9 J**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**11**	**37**	**1 J**	**2 J**	<1	<0.8
	Jul-07	**21**	<0.8	**9**	**1 J**	**2 J**	<3	<6	<0.5	<1	<1	<0.8	**10**	**38**	**1 J**	**4 J**	<1	<0.8
	Feb-08	**16.6**	<0.49	**8**	**1.1**	**0.96 J**	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**10.9**	**40.4**	**1.6**	**2**	<0.22	<0.2
PZ016D	Nov-03	**6**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	**170**	<0.8	**13**	**11**	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**180**	<0.8	**7**	**7**	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	**170**	<0.8	**9**	**9**	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**150**	<0.8	**4 J**	**9**	<0.8
	Oct-06	**0.9 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**150**	<0.8	**2 J**	**7**	<0.8
PZ016I	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**170**	<0.8	**6**	**9**	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ017D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	**14**	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	**6**	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	<0.8	<0.8	<1	**12**	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	**9**	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	**10**	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	<1	**8**	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**10**	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	<0.8	<0.8	<1	**8**	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.65 J**	<0.28	<0.32	<0.26	**7.3**	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	<1	**6**	<0.8
PZ017I	Nov-03	**16**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**50**	**950**	**5 J**	**64**	**2 J**	<0.8
	Apr-05	**4 J**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**110**	**300**	**6**	**180**	**8**	<0.8
	Jul-05	**6**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**61**	**460**	**7**	**64**	**5 J**	<0.8
	Nov-05	**12**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	**1 J**	<0.8	**55**	**450**	**5 J**	**74**	**7**	<0.8
	Mar-06	**5**	<0.8	<1	<0.8	<1	<3	**6 J**	<0.5	<1	<1	<0.8	**15**	**300**	**1 J**	**37**	<1	<0.8
	Oct-06	**7**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**26**	**330**	**3 J**	**41**	<1	<0.8
	Jan-07	**12**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**36**	**410**	**4 J**	**60**	**3 J**	<0.8
	Jul-07	**10**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**47**	**280**	**6**	**60**	**1 J**	<0.8
	Feb-08	**8.4**	<0.49	**0.69 J**	**0.5 J**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**62.5**	**309**	**6.3**	**65.6**	**8.9**	<0.2
	Oct-08	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**52**	**150**	**6**	**48**	**4 J**	<0.8
PZ018I	Mar-06	<8	<8	**19 J**	**10 J**	<10	<30	<60	<5	<10	<10	<8	**520**	**7200**	**88**	**9100**	**24 J**	<8
PZ019I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**16**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**30**	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**26**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**27**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**27**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**21**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**22**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	**24**	<1	<0.8
PZ020D	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**2 J**	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**3 J**	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	**2 J**	<0.8
PZ021I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**7**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.8 J**	<0.28	<0.32	**4.3**	<0.22	<0.2
PZ022I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**11**	<1	<0.8
	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**11**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**5 J**	<1	<0.8
PZ024D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ024I	Nov-03	**260**	**1 J**	**26**	**66**	**1 J**	<3	<6	<0.5	<1	**2 J**	**1 J**	**350**	**9**	**17**	**1300**	12	<0.8
	Nov-05	**220**	<0.8	**10**	**14**	<1	<3	<6	<0.5	<1	<1	<0.8	**72**	**68**	**2 J**	**500**	<1	<0.8
	Mar-06	**220**	<0.8	**11**	**14**	<1	<3	<6	<0.5	<1	<1	<0.8	**76**	**78**	**2 J**	**580**	<1	<0.8
	Oct-06	**190**	<0.8	**7**	**12**	<1	<3	<6	<0.5	<1	<1	<0.8	**48**	**200**	**2 J**	**370**	<1	<0.8
	Jan-07	**140**	<0.8	**5**	**9**	<1	<3	<6	<0.5	<1	<1	<0.8	**34**	**160**	**1 J**	**260**	<1	<0.8
	Jul-07	**140**	<0.8	**6**	**10**	<1	<3	<6	<0.5	<1	<1	<0.8	**33**	**240**	**1 J**	**290**	<1	<0.8
	Feb-08	**125**	<0.99	**4.6**	**8.1**	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	<0.51	**19**	**329**	**0.83 J**	**263**	<0.45	<0.4
	Oct-08	**130**	<0.8	**7**	**15**	<1	<3	<6	<0.5	<1	<1	**0.9 J**	**63**	**250**	**2 J**	**280**	<1	<0.8
PZ025D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	**2 J**	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ025I	Nov-03	**11**	<0.8	**27**	**14**	**8**	<3	<6	**0.6 J**	<1	<1	<0.8	**850**	<0.8	**51**	**120**	**4 J**	<0.8
	Apr-05	**9 J**	<2	**22**	**10**	**7 J**	<6	<12	<1	<2	<2	<2	**880**	<2	**41**	**64**	**2 J**	<2
	Jul-05	**8**	<0.8	**21**	**13**	**5 J**	<3	<6	**0.5 J**	<1	<1	<0.8	**800**	<0.8	**43**	**72**	**2 J**	<0.8
	Nov-05	**9**	<0.8	**22**	**12**	**6**	<3	<6	**0.5 J**	<1	<1	<0.8	**760**	<0.8	**42**	**73**	**2 J**	<0.8
	Mar-06	**8 J**	<2	**20**	**9 J**	**5 J**	<6	<12	<1	<2	<2	<2	**840**	<2	**38**	**62**	<2	<2
	Oct-06	**11**	<0.8	**21**	**11**	<1	<3	<6	<0.5	<1	<1	<0.8	**760**	<0.8	**46**	**98**	**2 J**	<0.8
	Feb-08	**9**	<2.5	**15**	**6**	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	**548**	<1.4	**30**	**96.5**	<1.1	<1
	Oct-08	**10**	<0.8	**18**	**8**	**4 J**	<3	<6	<0.5	<1	<1	<0.8	**500**	<0.8	**37**	**140**	<1	<0.8
PZ026D	Nov-03	<0.8	<0.8	**2 J**	<0.8	**4 J**	<3	<6	<0.5	<1	<1	<0.8	**70**	<0.8	**3 J**	<1	**1 J**	<0.8
PZ026I	Nov-03	**230**	**3 J**	**17**	**31**	**6**	<3	<6	**2 J**	<1	<1	**4 J**	**930**	<0.8	**34**	**2900**	**17**	<0.8
PZ027D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
PZ027I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
PZ028D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	<0.8	<0.8	**42**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**1 J**	<0.8	<0.8	**19**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**17**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**14**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**12**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**8**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**8.4**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**6**	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichlor o ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ028I	Nov-03	**38**	<0.8	**17**	**9**	**6**	<3	<6	**0.5 J**	<1	<1	**1 J**	**250**	<0.8	**13**	**820**	**4 J**	<0.8
	Nov-05	**33**	<0.8	**13**	**5**	**11**	<3	<6	<0.5	<1	<1	**0.9 J**	**140**	<0.8	**17**	**590**	**2 J**	<0.8
	Mar-06	**37**	<0.8	**16**	**6**	**9**	<3	<6	<0.5	<1	<1	**1 J**	**190**	<0.8	**17**	**720**	**3 J**	<0.8
	Oct-06	**31**	<0.8	**12**	**5**	**9**	<3	<6	<0.5	<1	<1	**0.8 J**	**160**	<0.8	**19**	**530**	**1 J**	<0.8
	Jan-07	**39**	<0.8	**14**	**11**	**4 J**	<3	<6	<0.5	<1	<1	**0.9 J**	**240**	<0.8	**19**	**580**	**2 J**	<0.8
	Jul-07	**49**	<0.8	**16**	**13**	**5 J**	<3	<6	**0.5 J**	<1	<1	**1 J**	**280**	<0.8	**19**	**690**	**2 J**	<0.8
	Feb-08	**50.5**	<2.5	**12**	**12.4**	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	**269**	<1.4	**14.3**	**734**	<1.1	<1
	Oct-08	**56**	<0.8	**13**	**15**	**3 J**	<3	<6	**0.5 J**	<1	<1	<0.8	**270**	<0.8	**16**	**570**	**1 J**	<0.8
PZ029D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ029I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**150**	<0.8	**11**	**2 J**	**35**	<0.8
PZ030D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ030I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ031D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	**5**	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
PZ031I	Nov-03	**50**	<0.8	**7**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	<0.8	<0.8	**140**	<1	<0.8
	Apr-05	**75**	<0.8	**9**	**4 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**70**	<0.8	**3 J**	**210**	**2 J**	<0.8
	Jul-05	**69**	<0.8	**7**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**71**	<0.8	**4 J**	**190**	**1 J**	<0.8
	Nov-05	**71**	<0.8	**7**	**3 J**	<1	**3 J**	<6	<0.5	<1	<1	<0.8	**74**	<0.8	**3 J**	**190**	**2 J**	<0.8
	Mar-06	**80**	<0.8	**8**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**72**	<0.8	**4 J**	**200**	**1 J**	<0.8
	Oct-06	**83**	<0.8	**7**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**67**	<0.8	**4 J**	**210**	<1	<0.8
	Jan-07	**67**	<0.8	**7**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**68**	<0.8	**4 J**	**190**	<1	<0.8
	Jul-07	**79**	<0.8	**7**	**3 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**66**	<0.8	**4 J**	**230**	<1	<0.8
	Feb-08	**86**	<0.49	**6.8**	**2.4**	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**69.4**	<0.28	**3.8**	**173**	**0.84 J**	<0.2
PZ032D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**0.9 J**	<0.8	<0.8	**77**	<1	<0.8
PZ032I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**20**	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichlor o ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ033D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**2 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**0.43 J**	<0.22	<0.2
PZ033I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**4 J**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**4 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	**3 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**2 J**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**1 J**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**1.5**	<0.28	<0.32	**1.3**	<0.22	<0.2
PZ034D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ034I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ035D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ035I	Nov-03	**13**	<0.8	**9**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**13**	**1 J**	**2 J**	**79**	<1	<0.8
PZ036D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**11**	<1	<0.8
PZ036I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ037D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**7**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	**0.56 J**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ037I	Nov-03	**21**	<2	**7 J**	**3 J**	<3	<8	<15	<1	<3	<3	<2	**10 J**	<2	<2	**3100**	<3	<2
	Nov-05	**19**	<0.8	**3 J**	**2 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**9**	<0.8	**1 J**	**3100**	<1	<0.8
	Mar-06	**14 J**	<4	<5	<4	<5	<15	<30	<3	<5	<5	<4	**9 J**	<4	<4	**3500**	<5	<4
	Oct-06	**13 J**	<3	<4	<3	<4	<12	<24	<2	<4	<4	<3	**8 J**	<3	<3	**2100**	<4	<3
	Jan-07	**13**	<2	**3 J**	<2	<2	<6	<12	<1	<2	<2	<2	**9 J**	<2	<2	**2100**	<2	<2
	Jul-07	**13 J**	<4	<5	<4	<5	<15	<30	<3	<5	<5	<4	**7 J**	<4	<4	**2900**	<5	<4
	Feb-08	**14.6**	<4.9	<2	<2.8	<2.9	<27	<29	<1.9	<1.4	<6.7	<2.5	**7.4 J**	<2.8	<3.2	**3050**	<2.2	<2
	Oct-08	**12**	<0.8	**3 J**	**1 J**	<1	<3	<6	<0.5	<1	<1	<0.8	**10**	<0.8	**1 J**	**2200**	<1	<0.8
PZ037S	Jan-07	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	**19**	<1	<0.8
PZ038D	Nov-03	<0.8	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**12**	<0.8	**0.8 J**	**240**	<1	<0.8
	Apr-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**13**	<0.8	<0.8	**110**	<1	<0.8
	Jul-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**16**	<0.8	<0.8	**86**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**20**	<0.8	<0.8	**77**	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**29**	<0.8	<0.8	**76**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**35**	<0.8	<0.8	**60**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**46**	<0.8	<0.8	**58**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**27**	<0.8	<0.8	**36**	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**34.7**	<0.28	<0.32	**29.8**	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**13**	<0.8	<0.8	**23**	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
PZ038I	Nov-03	**5**	<0.8	**6**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**86**	<0.8	**4 J**	**1900**	<1	<0.8
	Apr-05	**6 J**	<2	**10 J**	<2	<2	<6	<12	<1	<2	<2	<2	**450**	<2	**11**	**1600**	<2	<2
	Jul-05	**5 J**	<4	**14 J**	<4	<5	**34 J**	<30	<3	<5	<5	<4	**810**	<4	**13 J**	**1800**	<5	<4
	Nov-05	**7**	**0.8 J**	**22**	**6**	<1	<3	<6	<0.5	<1	<1	<0.8	**910**	<0.8	**19**	**2200**	<1	<0.8
	Mar-06	**7 J**	<2	**20**	**6 J**	<3	<8	<15	<1	<3	<3	<2	**940**	<2	**15**	**2700**	<3	<2
	Oct-06	**14 J**	<4	**17 J**	**8 J**	<5	<15	<30	<3	<5	<5	<4	**780**	<4	**15 J**	**4000**	<5	<4
	Jan-07	**15 J**	<4	**17 J**	**8 J**	<5	<15	<30	<3	<5	<5	<4	**830**	<4	**16 J**	**3500**	<5	<4
	Jul-07	**20 J**	<4	**23 J**	**12 J**	<5	<15	<30	<3	<5	<5	<4	**830**	<4	**17 J**	**5600**	<5	<4
	Feb-08	**32.6 J**	<25	**38.7 J**	**17.1 J**	<14	<140	<150	<9.7	<7.1	<34	<13	**829**	<14	**29 J**	**6370**	<11	<10
	Oct-08	**35 J**	<4	**11 J**	**9 J**	<5	<15	<30	<3	<5	<5	<4	**430**	<4	**11 J**	**5200**	<5	<4
PZ038S	Jul-05	**9 J**	<4	**18 J**	<4	<5	<15	<30	<3	<5	<5	<4	**610**	<4	**11 J**	**2600**	<5	<4
PZ039D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**6**	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	**2 J**	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jan-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ039I	Nov-03	**2 J**	<0.8	**4 J**	<0.8	**3 J**	<3	<6	<0.5	<1	<1	<0.8	**30**	<0.8	**2 J**	**260**	<1	<0.8
	Nov-05	**9**	<0.8	**10**	**3 J**	**8**	<3	<6	<0.5	<1	<1	<0.8	**88**	<0.8	**7**	**390**	**3 J**	<0.8
	Oct-06	**15**	<0.8	**10**	**4 J**	**9**	<3	<6	<0.5	<1	<1	<0.8	**110**	<0.8	**9**	**470**	**2 J**	<0.8
	Jan-07	**11**	<0.8	**10**	**4 J**	**6**	<3	<6	<0.5	<1	<1	<0.8	**120**	<0.8	**8**	**380**	**2 J**	<0.8
	Jul-07	**11**	<0.8	**11**	**4 J**	**8**	<3	<6	<0.5	<1	<1	<0.8	**120**	<0.8	**8**	**370**	**2 J**	<0.8
PZ040D	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
PZ040I	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
	Oct-08	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW01	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**4 J**	<0.8	<0.8	<1	<1	<0.8
	Nov-05	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	<0.8	<0.8	<1	<1	<0.8
	Mar-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	<1	<0.8
	Oct-06	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**2 J**	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**0.57 J**	<0.28	<0.32	<0.26	<0.22	<0.2
TW02	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**23**	<0.8	**4 J**	<1	<0.8
TW03	Nov-03	**7**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	**11**	<0.8	**660**	<1	<0.8
	Nov-05	**7**	<0.8	**4 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	**11**	**2 J**	**950**	<1	<0.8
	Mar-06	**6**	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**7**	**14**	**2 J**	**810**	<1	<0.8
	Oct-06	**8**	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**6**	**14**	**2 J**	**880**	<1	<0.8
	Jul-07	**6 J**	<2	**3 J**	<2	<2	<6	<12	<1	<2	<2	<2	**3 J**	**11**	**2 J**	**830**	<2	<2
	Feb-08	**4.6 J**	<2.5	<1	<1.4	<1.4	<14	<15	<0.97	<0.71	<3.4	<1.3	<1.4	**12.4**	<1.6	**804**	<1.1	<1
TW04	Nov-03	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	**1 J**	**40**	<0.8	**13**	<1	<0.8
	Jul-07	**1 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**6**	<0.8	**22**	<0.8	**8**	<1	<0.8
TW05	Nov-03	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**5 J**	**0.9 J**	**0.9 J**	<0.8	**250**	<1	<0.8
	Jul-07	**4 J**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**25**	**2 J**	<0.8	**530**	<1	<0.8
	Feb-08	**4**	<0.49	**2.1**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**0.44 J**	**18.5**	**2.5**	1.2	**534**	**0.63 J**	<0.2
	Oct-08	**5 J**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**7**	**3 J**	**1 J**	**550**	<1	<0.8

TABLE 2

VOCs DETECTED IN GROUNDWATER (µg/L)
DAYTON THERMAL PRODUCTS PLANT

Location	Date Sampled	Trichloro ethane	1,1,2-Trichloro ethane	1,1-Dichloro ethane	1,1-Dichloro ethene	1,2-Dichloro ethane	2-Butanone	Acetone	Benzene	Carbon Disulfide	Chloro ethane	Chloro form	cis-1,2-Dichloro ethene	Tetra chloro ethene	1,2-Dichloro ethene	Trichloro ethene	Vinyl Chloride	Xylene (Total)
TW06	Nov-03	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**3 J**	**35**	<0.8	**200**	<1	<0.8
	Jul-07	**3 J**	<0.8	**5**	<0.8	<1	<3	<6	<0.5	<1	<1	**1 J**	**95**	**26**	**2 J**	**490**	<1	<0.8
	Feb-08	**1.7 J**	<0.99	**1.4 J**	<0.55	<0.57	<5.4	<5.8	<0.39	<0.28	<1.3	**7.1**	**11**	**13.8**	<0.63	**331**	<0.45	<0.4
	Oct-08	**4 J**	<0.8	**8**	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**20**	**29**	**4 J**	**560**	<1	<0.8
TW07	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Jul-07	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
TW08	Nov-03	**7**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**2 J**	**6**	<0.8	**210**	<1	<0.8
	Jul-07	**3 J**	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**3 J**	**7**	<0.8	**130**	<1	<0.8
TW09	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW10	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW11	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW12	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	<0.8	<0.8	<0.8	<1	<1	<0.8
TW13	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**0.8 J**	<0.8	<0.8	<0.8	**1 J**	<1	<0.8
TW14	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	**1 J**	<0.8	<1	<1	<0.8
TW15	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW16	Nov-03	**8**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**4 J**	**1 J**	<0.8	**160**	<1	<0.8
	Jul-07	**4 J**	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**2 J**	**2 J**	**1 J**	<0.8	**130**	<1	<0.8
TW17	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW20	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW21	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW22	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW23	Nov-03	<0.8	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8
TW24	Nov-03	**10**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**3 J**	<0.8	**1 J**	<0.8	**16**	<1	<0.8
	Nov-05	**4 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**4 J**	<0.8	**1 J**	<0.8	**9**	<1	<0.8
	Mar-06	**4 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**5 J**	<0.8	**2 J**	<0.8	**10**	<1	<0.8
	Oct-06	**3 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	**6**	<0.8	**3 J**	<0.8	**8**	<1	<0.8
TW-27	Feb-08	**0.7 J**	<0.49	**1.4**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**3.4**	**3.8**	<0.32	**11.5**	<0.22	<0.2
	Oct-08	<0.8	<0.8	**1 J**	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**3 J**	**3 J**	<0.8	**5**	<1	<0.8
TW-28	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**10.8**	<0.27	**8.4**	<0.32	**9.7**	<0.22	<0.2
TW-29	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**6.3**	**2.3**	**0.89 J**	<0.32	**101**	<0.22	<0.2
	Oct-08	**3 J**	<0.8	**3 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**1 J**	**15**	**2 J**	**1 J**	**370**	<1	<0.8
TW-30	Feb-08	<0.3	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**2**	<0.27	<0.28	<0.32	<0.26	<0.22	<0.2
TW-31	Feb-08	**1.1**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	<0.25	**1.4**	**7.1**	<0.32	**35.8**	<0.22	<0.2
	Oct-08	**2 J**	<0.8	<1	<0.8	<1	<3	<6	<0.5	<1	<1	<0.8	**8**	**9**	<0.8	**42**	<1	<0.8
TW-34	Feb-08	**1.9**	<0.49	**2.2**	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**7.2**	**20.1**	**5.4**	**1**	**163**	<0.22	<0.2
	Oct-08	**2 J**	<0.8	**2 J**	<0.8	<1	<3	<6	<0.5	<1	<1	**6**	**24**	**6**	**0.9 J**	**190**	<1	<0.8
TW-35	Feb-08	**0.43 J**	<0.49	<0.2	<0.28	<0.29	<2.7	<2.9	<0.19	<0.14	<0.67	**13.6**	<0.27	**1**	<0.32	**14.3**	<0.22	<0.2

TABLE 3
SUMMARY OF MONTHLY OPERATIONAL DATA
DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DATE	WELLS RUNNING		APPROXIMATE RE-INJECTION FLOW (GALLONS PER MINUTE)	APPROXIMATE NPDES FLOW (GALLONS PER MINUTE)	APPROXIMATE TOTAL FLOW (GALLONS PER MINUTE)	APPROXIMATE LACTATE USAGE (GALLONS DELIVERED IN MONTH)
	TO INJECTION	TO AIR STRIPPER				
June-04	EW-1, EW-2, EW-5, EW-6	EW-3, EW-4	400	200	600	500
July-04	EW-1, EW-2, EW-5, EW-6	EW-3, EW-4	400	200	600	500
August-04	--	--	0	0	0	0
September-04	EW-1, EW-2, EW-5, EW-6	EW-3, EW-4	400	200	600	500
October-04	EW-1, EW-2, EW-5, EW-6	EW-3, EW-4	400	200	600	500
November-04	EW-1, EW-2	EW-3, EW-4	200	200	400	350
December-04	EW-2	EW-3, EW-4	100	200	300	250
January-05	EW-2	EW-3, EW-4	100	200	300	250
February-05	EW-1, EW-2	EW-3, EW-4	200	200	400	350
March-05	EW-2	EW-3, EW-4	100	200	300	250
April-05	EW-1, EW-2	EW-3, EW-4	200	200	400	350
May-05	--	EW-3, EW-4	0	200	200	0
June-05	EW-2	EW-3	100	100	200	200
July-05	EW-2	EW-3	100	100	200	200
August-05	EW-2	EW-3	100	100	200	500
September-05	EW-2	EW-3	100	100	200	500
October-05	EW-2	EW-3	100	100	200	500
November-05	EW-2	EW-3	100	100	200	500
December-05	EW-2	EW-3	100	100	200	500
January-06	EW-2	EW-3	100	100	200	500
February-06	EW-2	EW-3	100	100	200	500
March-06	EW-2	EW-3	100	100	200	500
April-06	EW-2	EW-3	100	100	200	250
May-06	EW-2	EW-4	100	100	200	250
June-06	--	--	0	0	0	0
July-06	--	--	0	0	0	0
August-06	--	--	0	0	0	0
September-06	--	--	0	0	0	0
October-06	--	--	0	0	0	0
November-06	--	--	0	0	0	0
December-06	--	--	0	0	0	0
January-07	EW-3	EW-4	100	100	200	250
February-07	--	--	0	0	0	0
March-07	EW-3	EW-4	100	100	200	250
April-07	EW-3	EW-4	100	100	200	250
May-07	EW-3	EW-4	100	100	200	250
June-07	EW-3	EW-4	100	100	200	250
July-07	EW-3	EW-4	100	100	200	250
August-07	EW-3	EW-4	100	100	200	250
September-07	EW-4	EW-3	100	100	200	250
October-07	EW-4	EW-3	100	100	200	250
November-07	EW-4	EW-3	100	100	200	100
December-07	EW-3	EW-4	100	100	200	100
January-08	EW-3	EW-4	100	100	200	100
February-08	EW-3	EW-4	100	100	200	100
March-08	EW-2	EW-3	100	100	200	100
April-08	EW-2	EW-3	100	100	200	100
May-08	EW-2	EW-3	100	100	200	100
June-08	EW-2	EW-3	100	100	200	100
July-08	EW-2	EW-3	100	100	200	100
August-08	EW-2	EW-3	100	100	200	0
September-08	EW-2	EW-3	100	100	200	0
October-08	EW-2	EW-3	100	100	200	0
November-08	EW-2	EW-3	100	100	200	0
December-08	EW-2	EW-3	100	100	200	0
January-09	EW-2	EW-3	100	100	200	0

Note: During the first four months of operation, the system was run intermittently for evaluation purposes. For test periods of no longer than four days, groundwater was extracted from six extraction wells at a rate of approximately 100 gallons per minute (gpm) per extraction well.

Figures 1 through 25

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009

Figure 1
Groundwater Level Fluctuations
Dayton Thermal Products
Dayton, Ohio

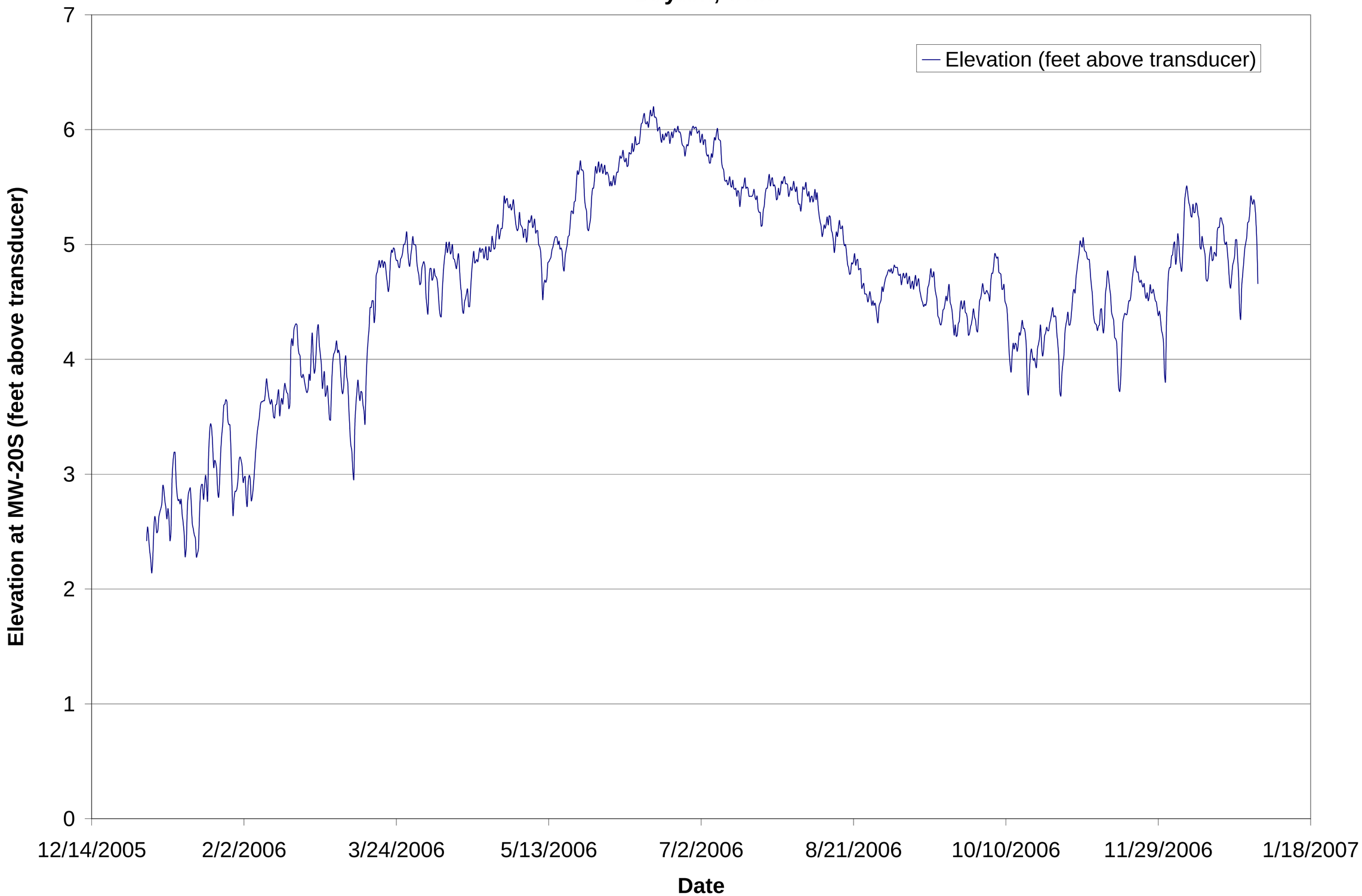
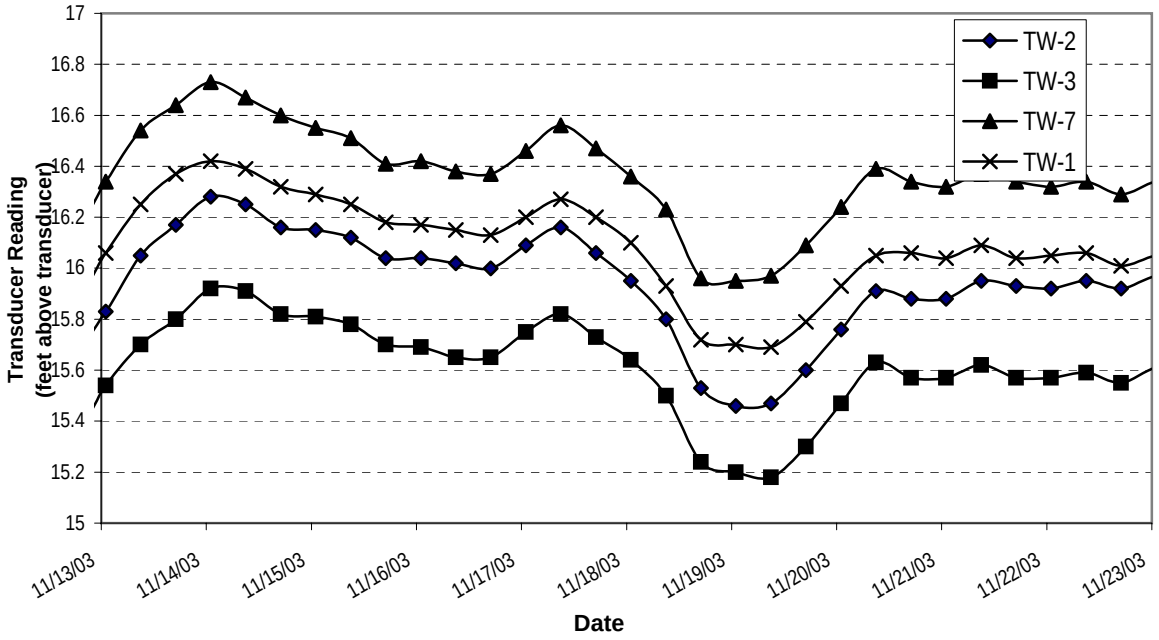
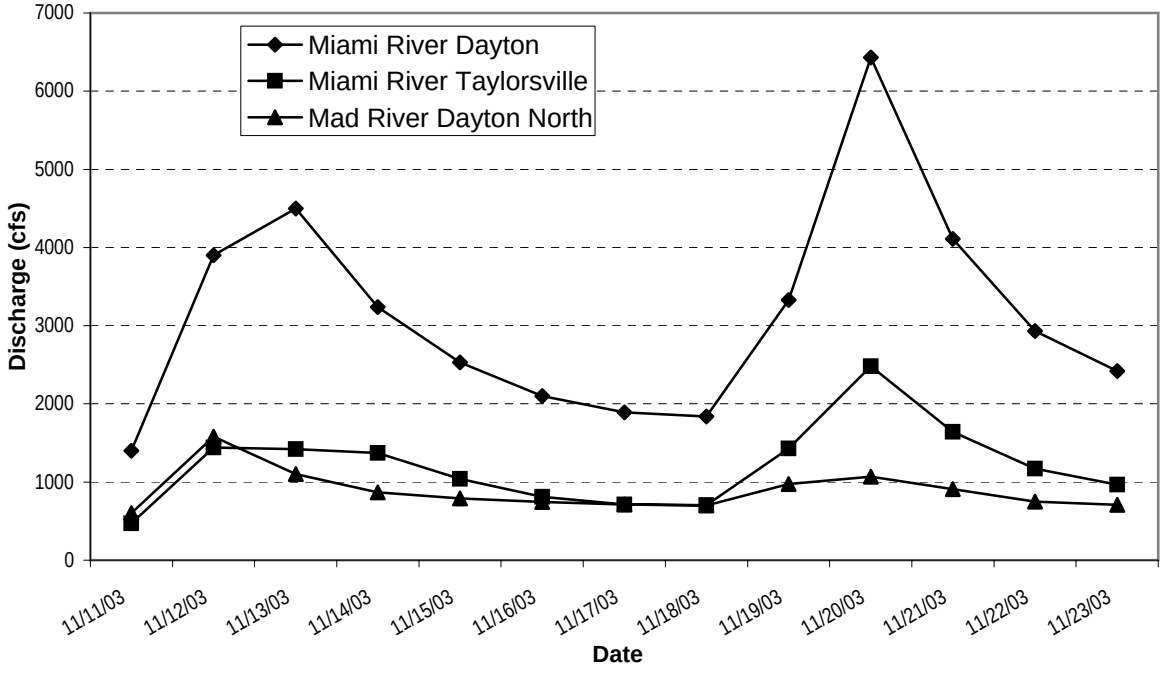


Figure 2
Groundwater and River Fluctuations
Dayton Thermal Products Plant
Dayton, Ohio

Groundwater Elevations- November 2003



River Discharge- November 2003



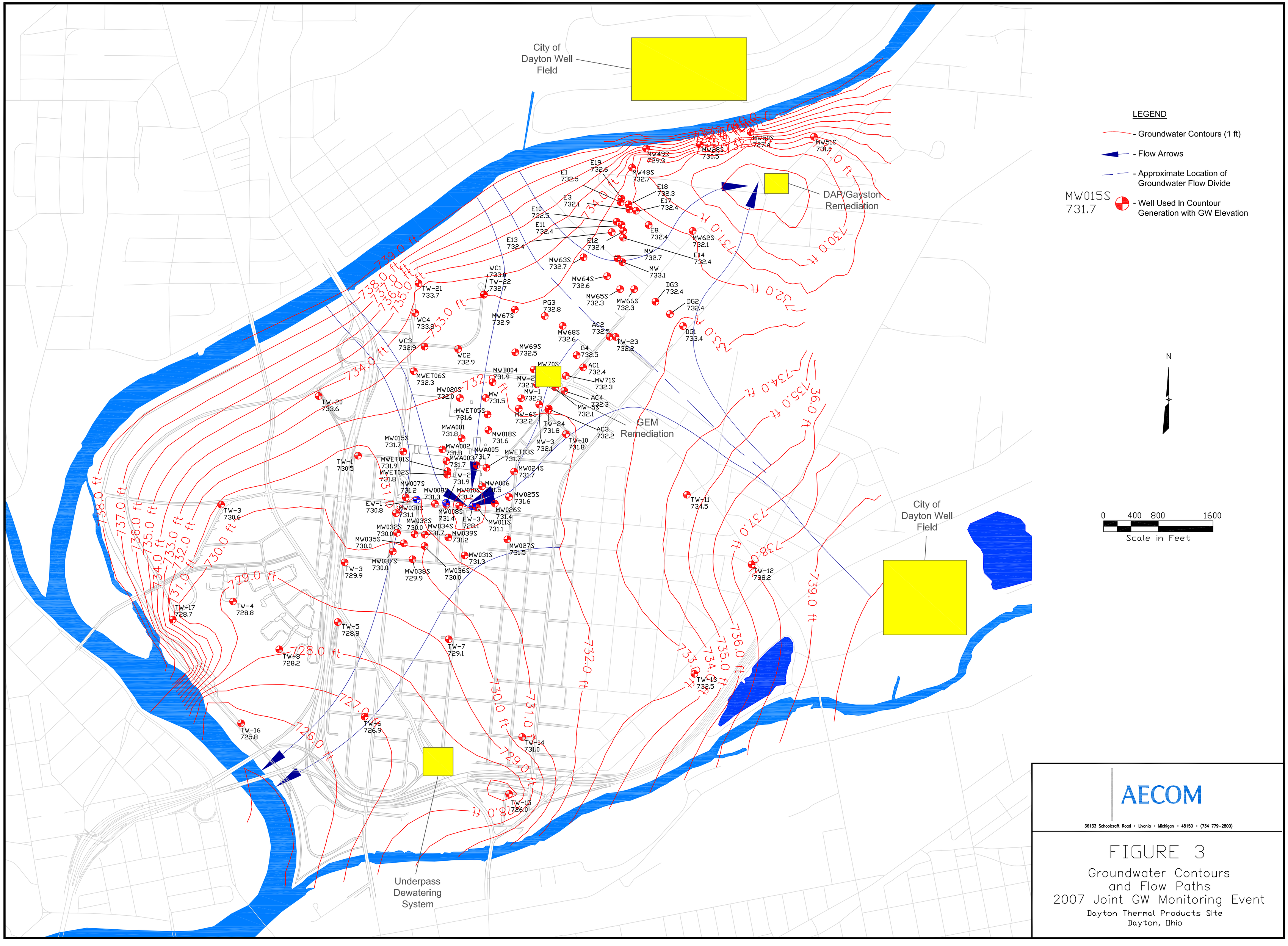
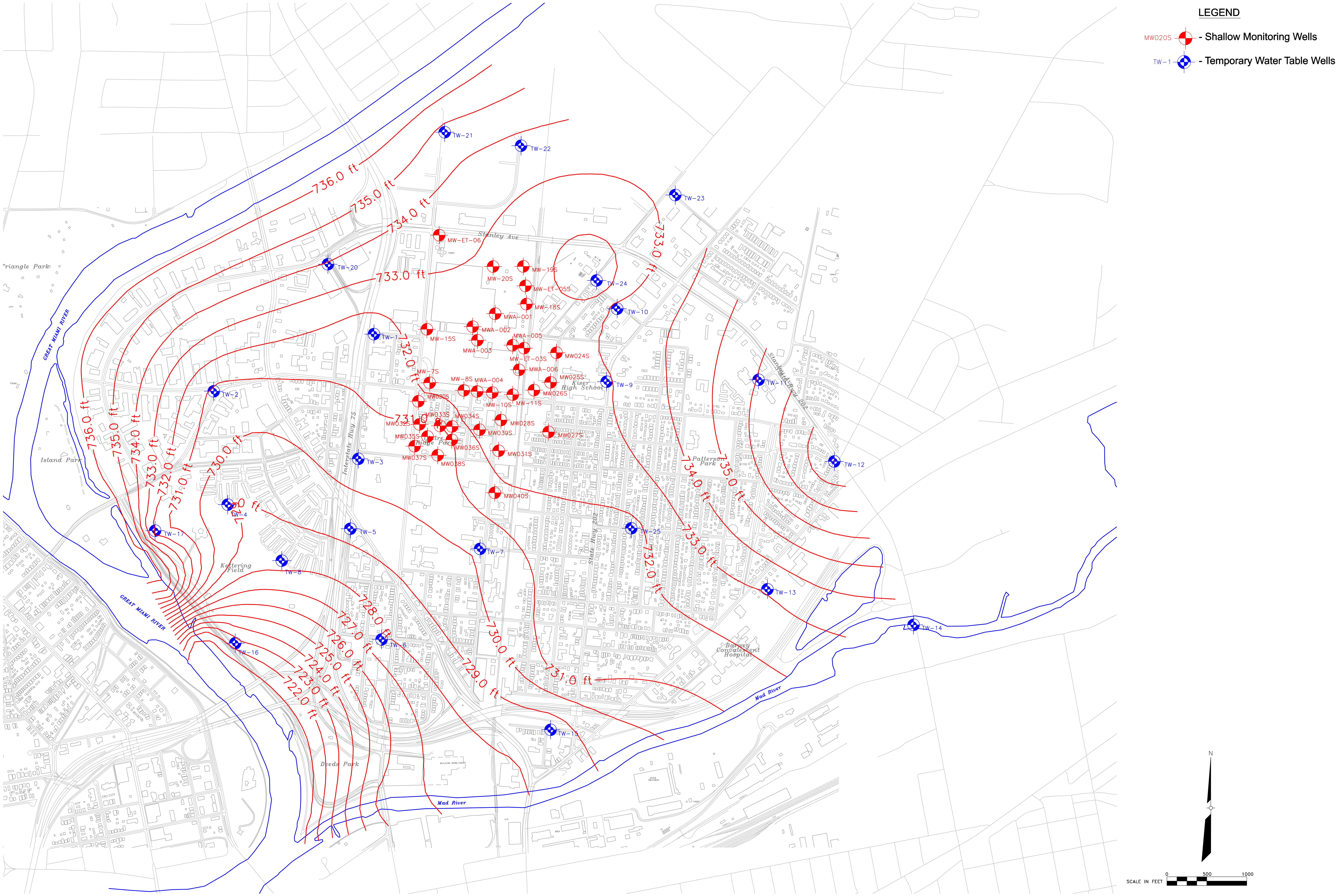


FIGURE 3

Groundwater Contours and Flow Paths 2007 Joint GW Monitoring Event

Dayton Thermal Products Site
Dayton, Ohio



AECOM

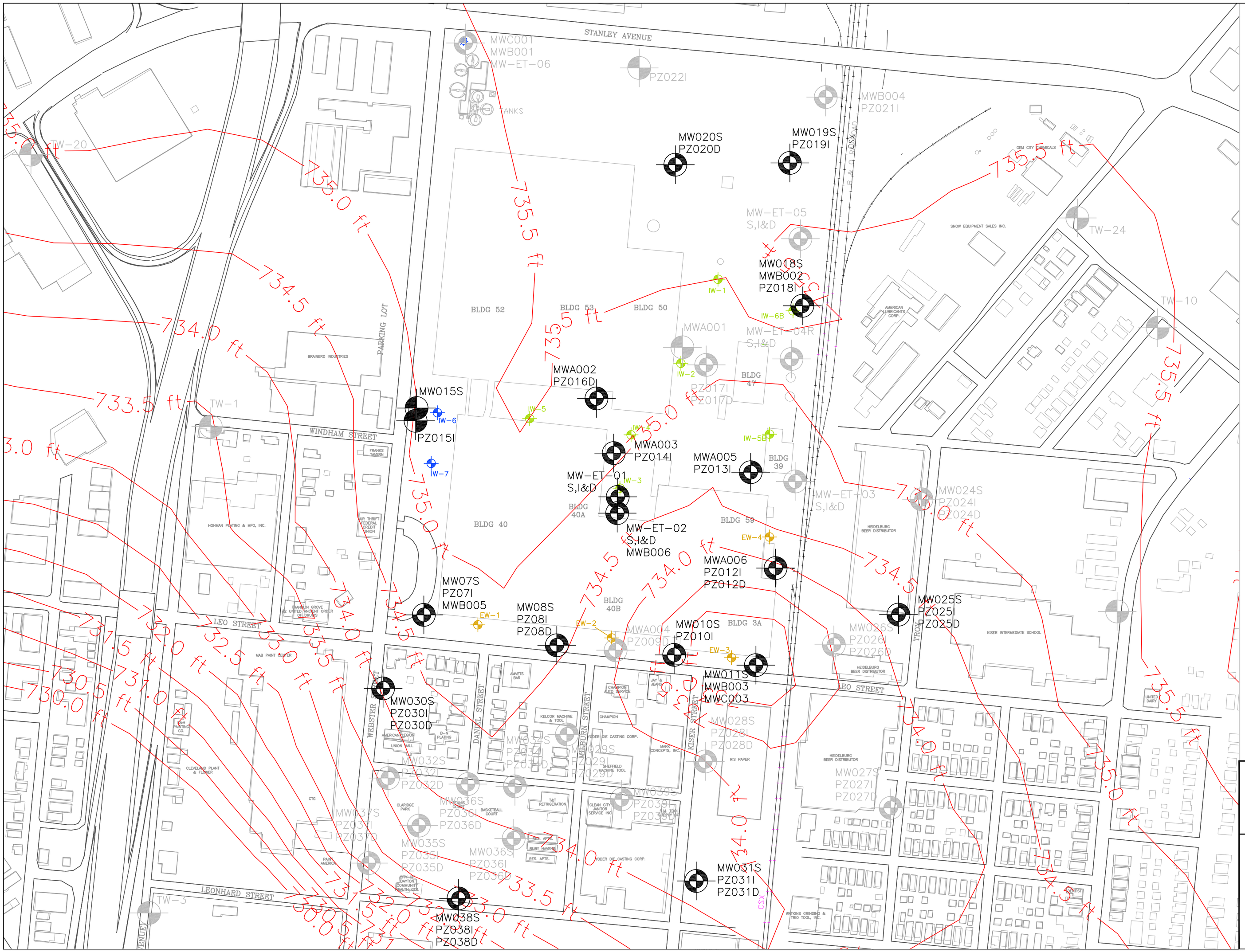
FIGURE 4
2003 GROUNDWATER
FLOW MAP

REVISED JUNE 19, 2007
FORMER DAYTON THERMAL PRODUCTS
DAYTON, OHIO

APRIL 2007

98809

$DATE$ $TIME$
Pentable = $PENTBLS$
Server = USSHBS01
$FILEL$



LEGEND

- Well Nest Not Included
- Well Nest Included
- Well Not Included
- Well Included
- Injection Well Used
- Injection Well Monitoring Only
- Extraction Well

N

0 150 300 600

Scale in Feet

AECOM

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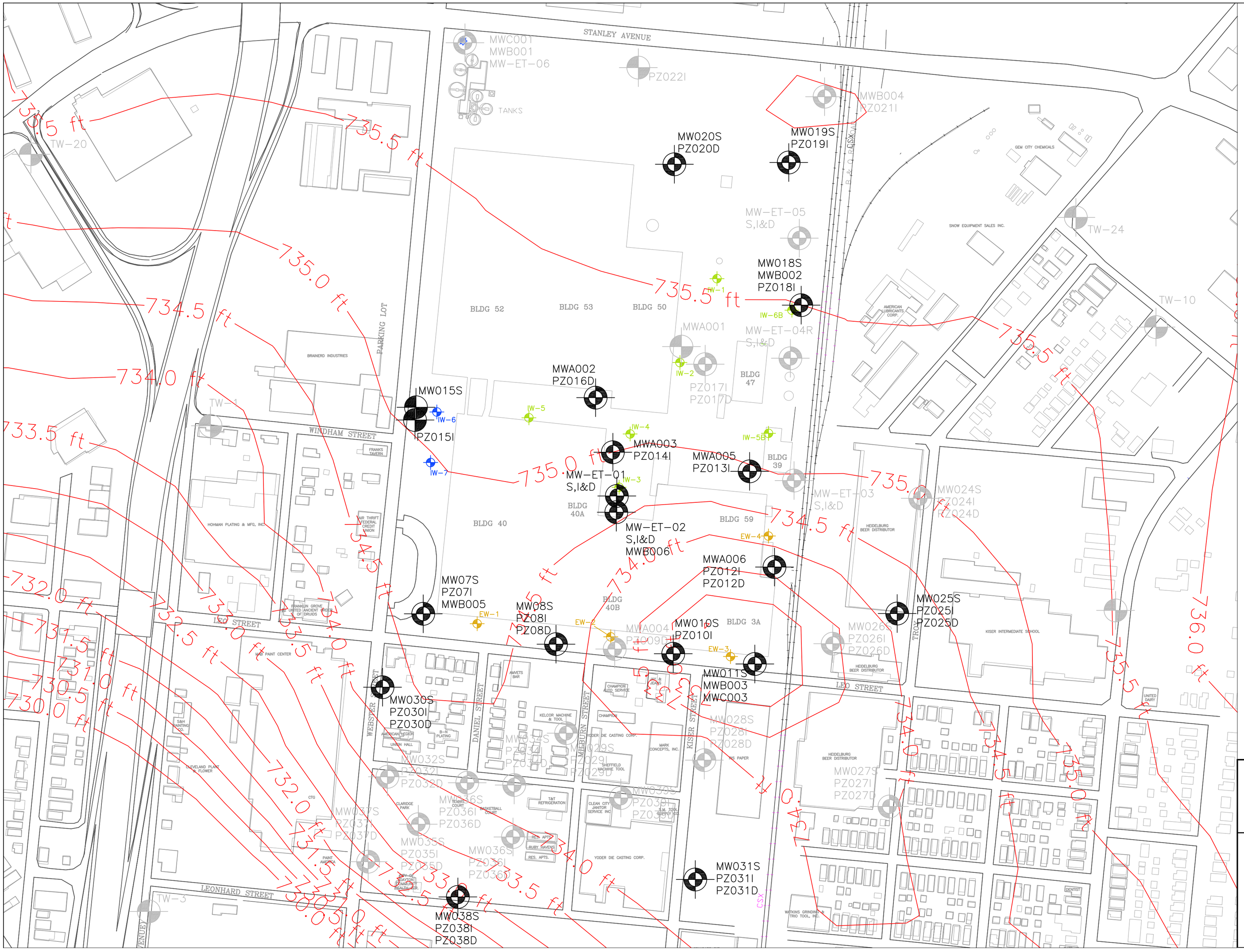
FIGURE 5

Ground Water Contours
EW-2, 3, & 4 Running

Dayton Thermal Products Site
Dayton, Ohio



LEGEND

- Well Nest Not Included
- Well Nest Included
- Well Not Included
- Well Included
- Injection Well Used
- Injection Well Monitoring Only
- Extraction Well

N

0 150 300 600

Scale in Feet

AECOM

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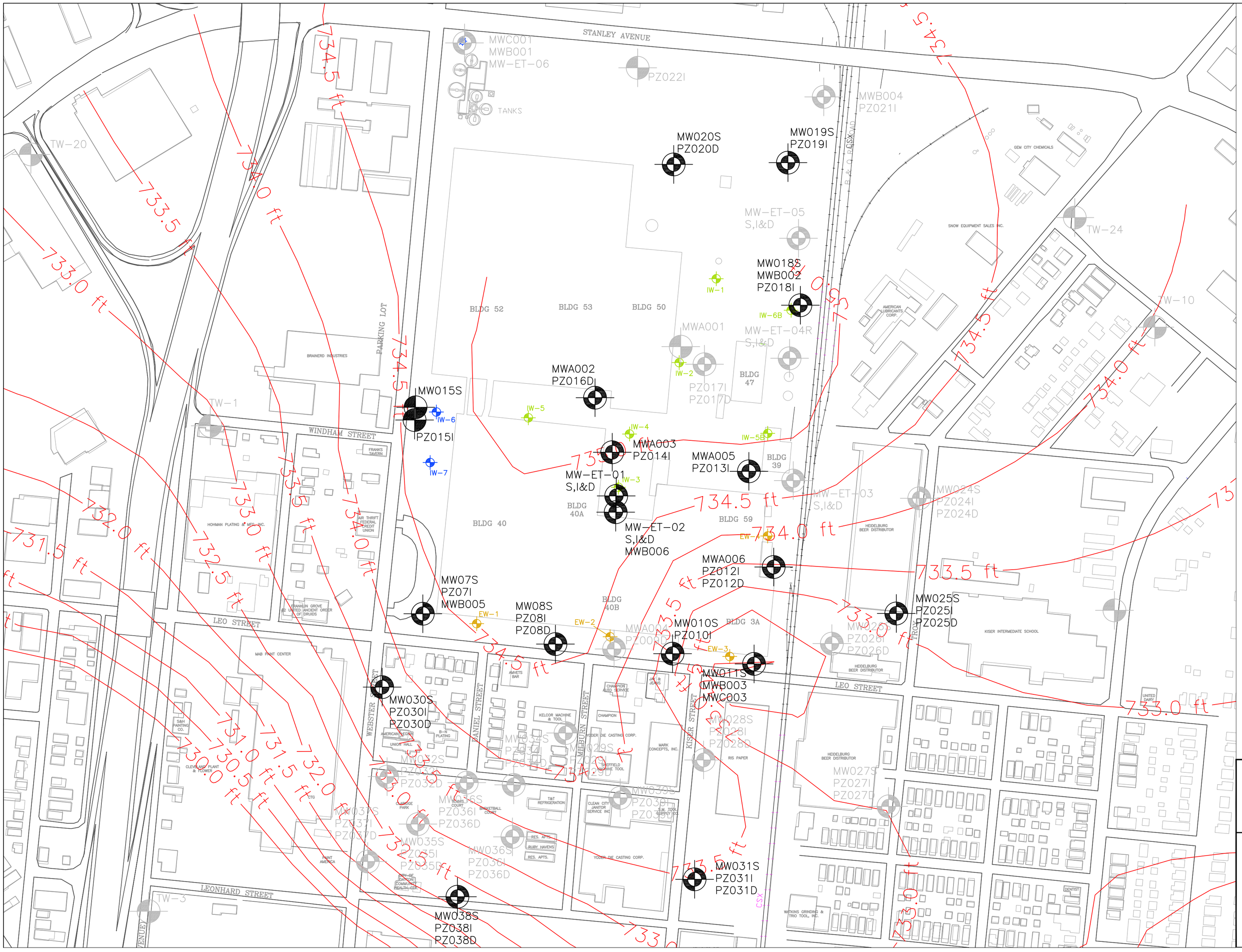
FIGURE 6

Groundwater Contours
EW2 & 3 Running

Dayton Thermal Products Site
Dayton, Ohio



LEGEND

- Well Nest Not Included
- Well Nest Included
- Well Not Included
- Well Included
- Injection Well Used
- Injection Well Monitoring Only
- Extraction Well

N

0 150 300 600

Scale in Feet

AECOM

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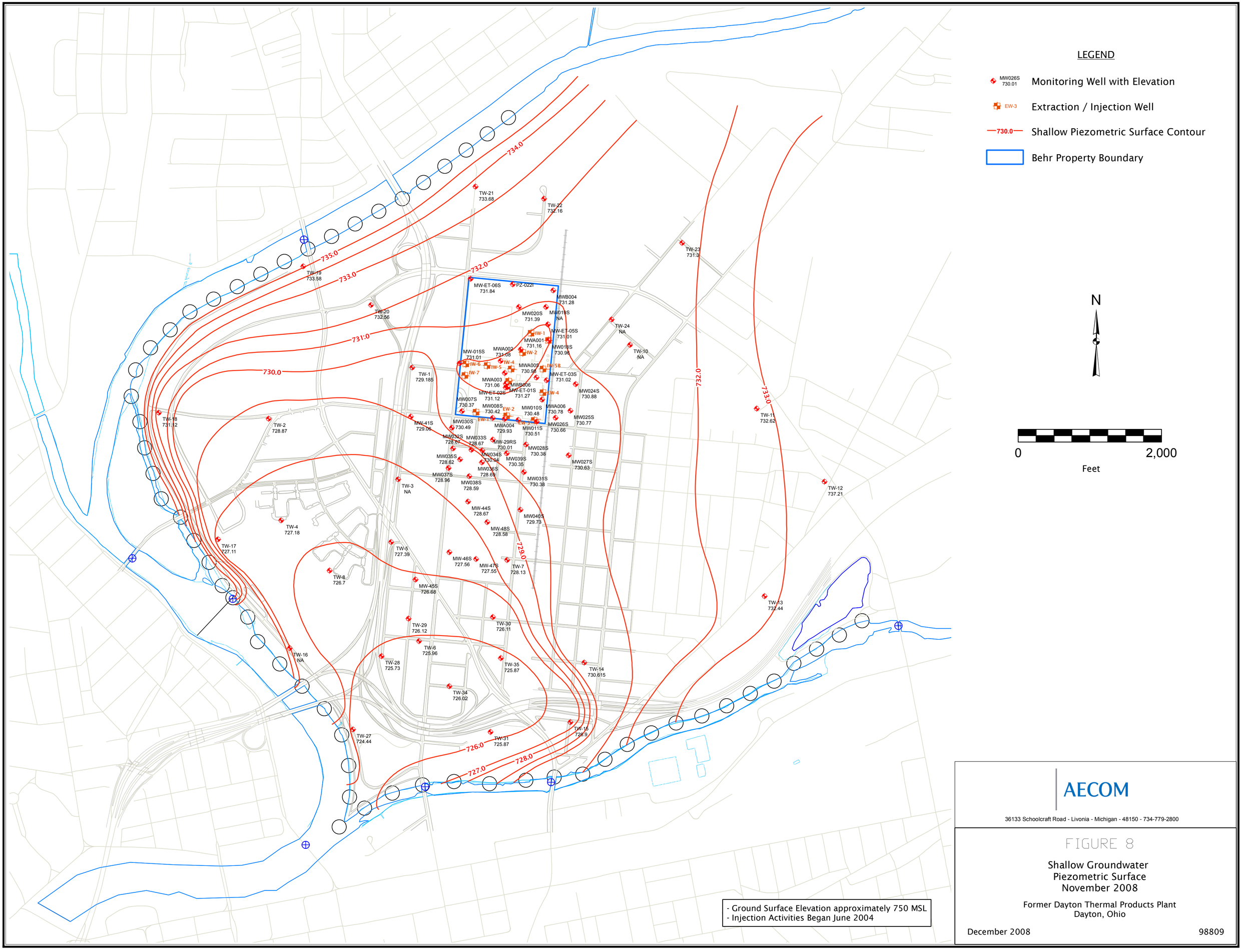
FIGURE 7

Groundwater Contours
EW-3 & 4 Running

Dayton Thermal Products Site
Dayton, Ohio



AECOM

36133 Schoolcraft Road - Livonia - Michigan - 48150 - 734-779-2800

FIGURE 8

Shallow Groundwater
Piezometric Surface
November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

December 2008

98809

LEGEND

- Well Nest Not Included
- Well Nest Included
- Well Not Included
- Well Included
- Injection Well Used
- Injection Well Monitoring Only
- Extraction Well

Note: Groundwater elevations were collected prior to installation of extraction and injection wells.

N

0 200 400 800

Scale in Feet

AECOM

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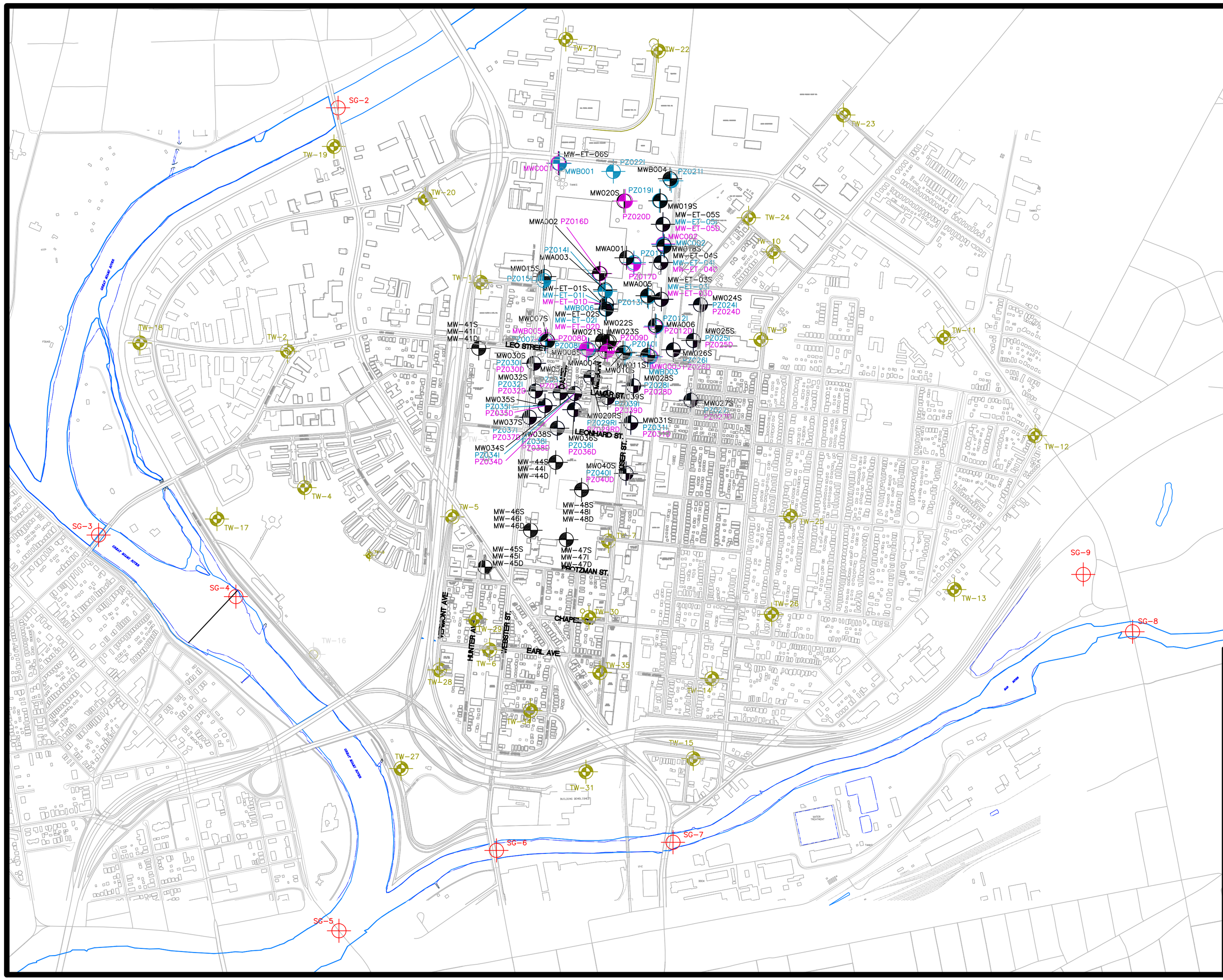
FIGURE 9

Ground Water Contours
November 2003

Dayton Thermal Products Site
Dayton, Ohio



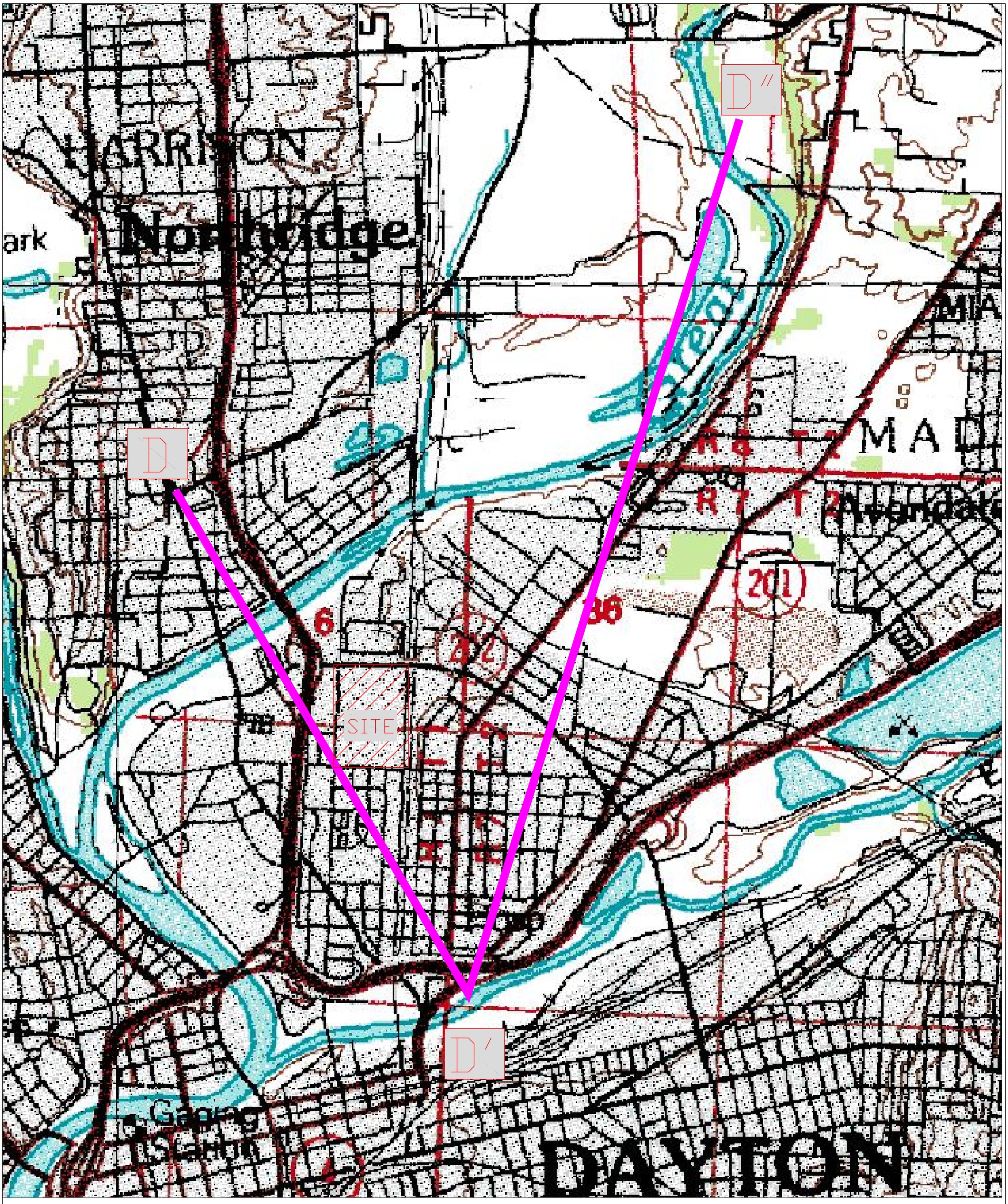
DRAWN BY: VM	DATE: October 2008
CHECKED BY: AE	EDITED BY:
FILE NAME: L:\work\63787\Projmgnt\Misc\August 2007/wells2.dwg	

FIGURE 10

MONITORING WELL LOCATIONS

DAYTON, OHIO

PROJECT NUMBER 100584	SCALE: 1" = 750'



NORTH

0′ 1/2 MILE

SCALE

SOURCE: USGS DAYTON, OHIO, UNITED STATES 01 JULY 1984

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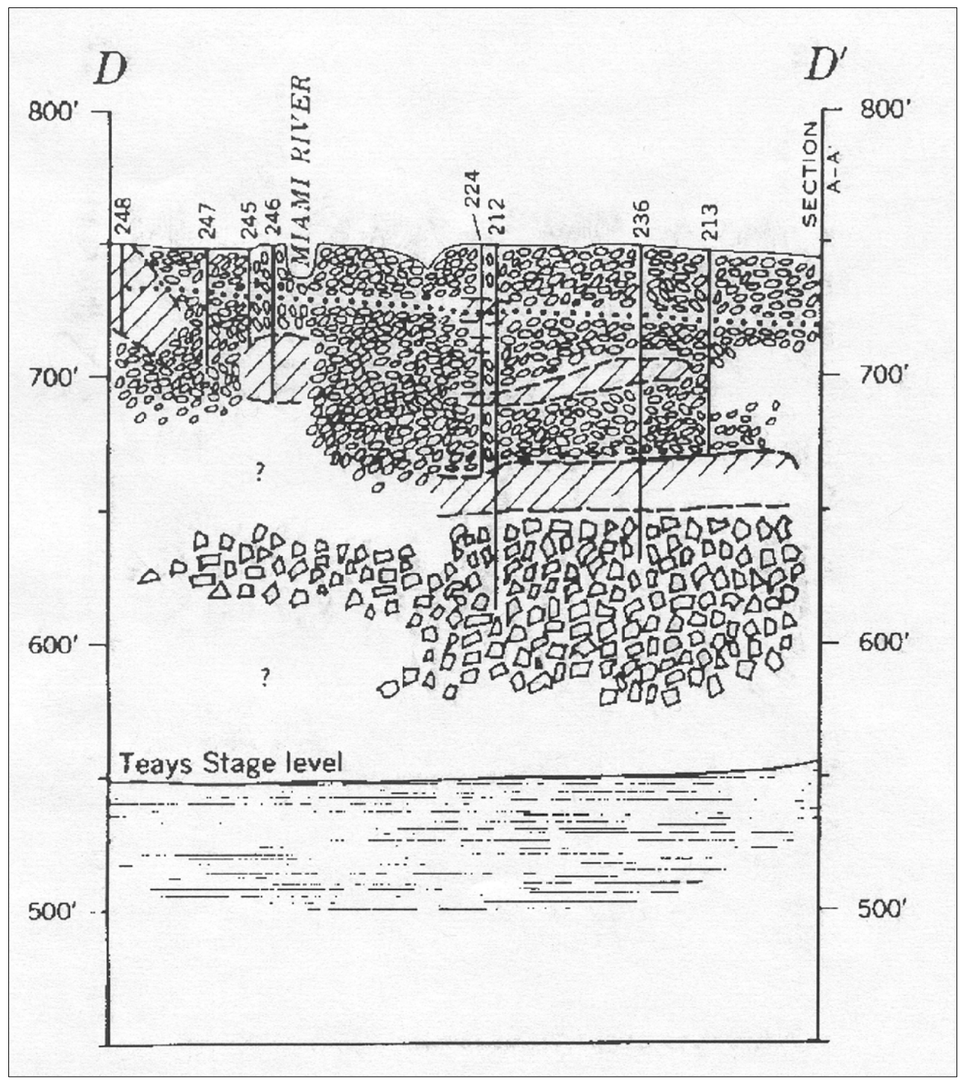
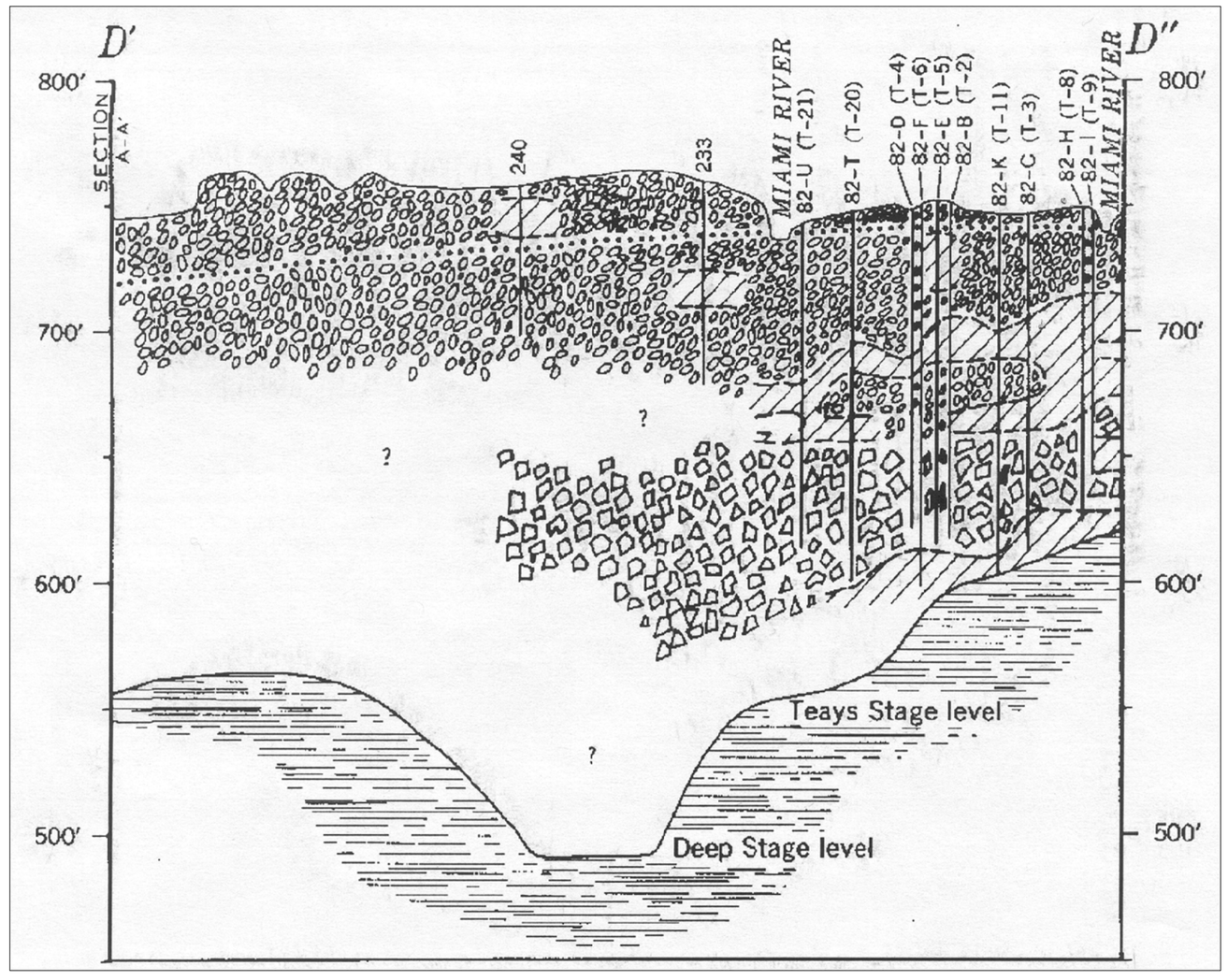
FIGURE 11

USGS GEOLOGICAL CROSS-SECTION LOCATOR MAP

DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 98809	FILE NAME: USGS X-LOCATOR
CHECKED BY: JK	DATE: October 2008	SCALE: 2″ = 1 MILE	





EXPLANATION

Upper aquifer

Sand and gravel deposits occurring at or near the surface; generally overlies the till-rich zone

Till-rich zone

Fairly widespread sheets, lenses, and masses of till; contains pockets and lenses of sand and gravel; occurs as a layer of low permeability and generally separates the sand and gravel deposits into an upper and a lower aquifer

Lower aquifer

Sand and gravel deposits generally occurring between the till-rich zone and bedrock; contains interbedded lenses and masses of till and clay, especially near the bedrock surface

Shale of Ordovician age with thin interbedded limestone layers

Geologic contact

Dashed where approximate

Piezometric surface in lower aquifer

Based on water-level measurements made in October 1959; represents the water table where the till-rich zone is absent. Datum is mean sea level

250

Well

Number refers to well listed in the section "Records of Wells in the Dayton Area"

0 1 MILE

SCALE

SOURCE: GROUND-WATER RESOURCES OF THE DAYTON AREA, OHIO (USGS DOCUMENT)

AECOM

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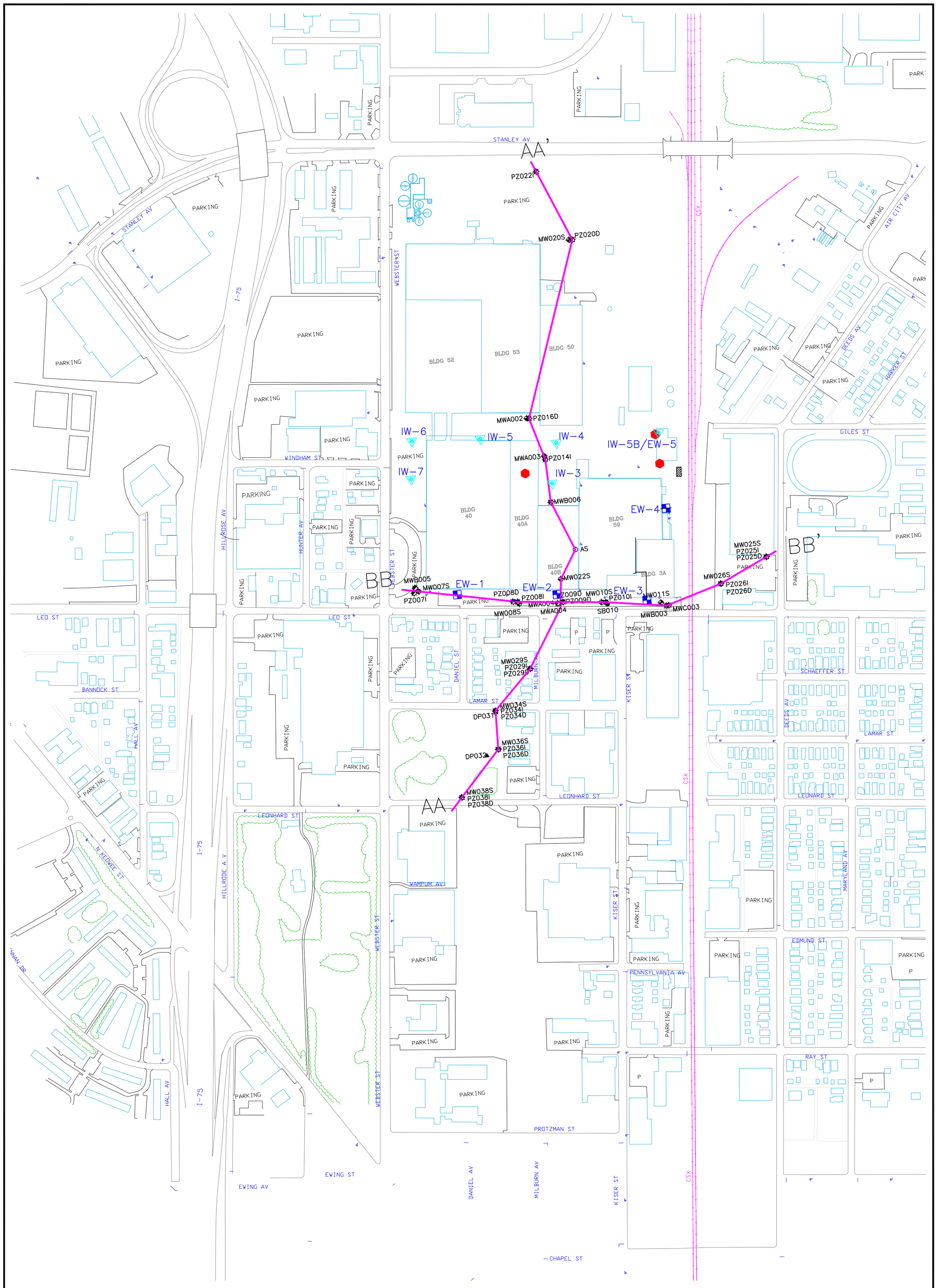
FIGURE 12
USGS GEOLOGICAL CROSS-SECTIONS

DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 55465	FILE NAME:
CHECKED BY: RS	DATE: March 11, 2003	SCALE: ------	USGS Cross Sections



NORTH

0' 400'

SCALE

SOURCE: LBG DRAWING 3CHDA14I, 3CHDA14K AND STANELY & 75

AECOM

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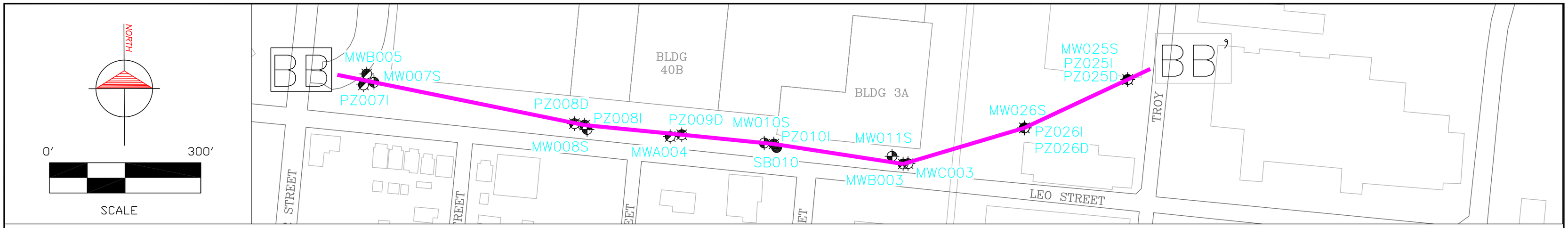
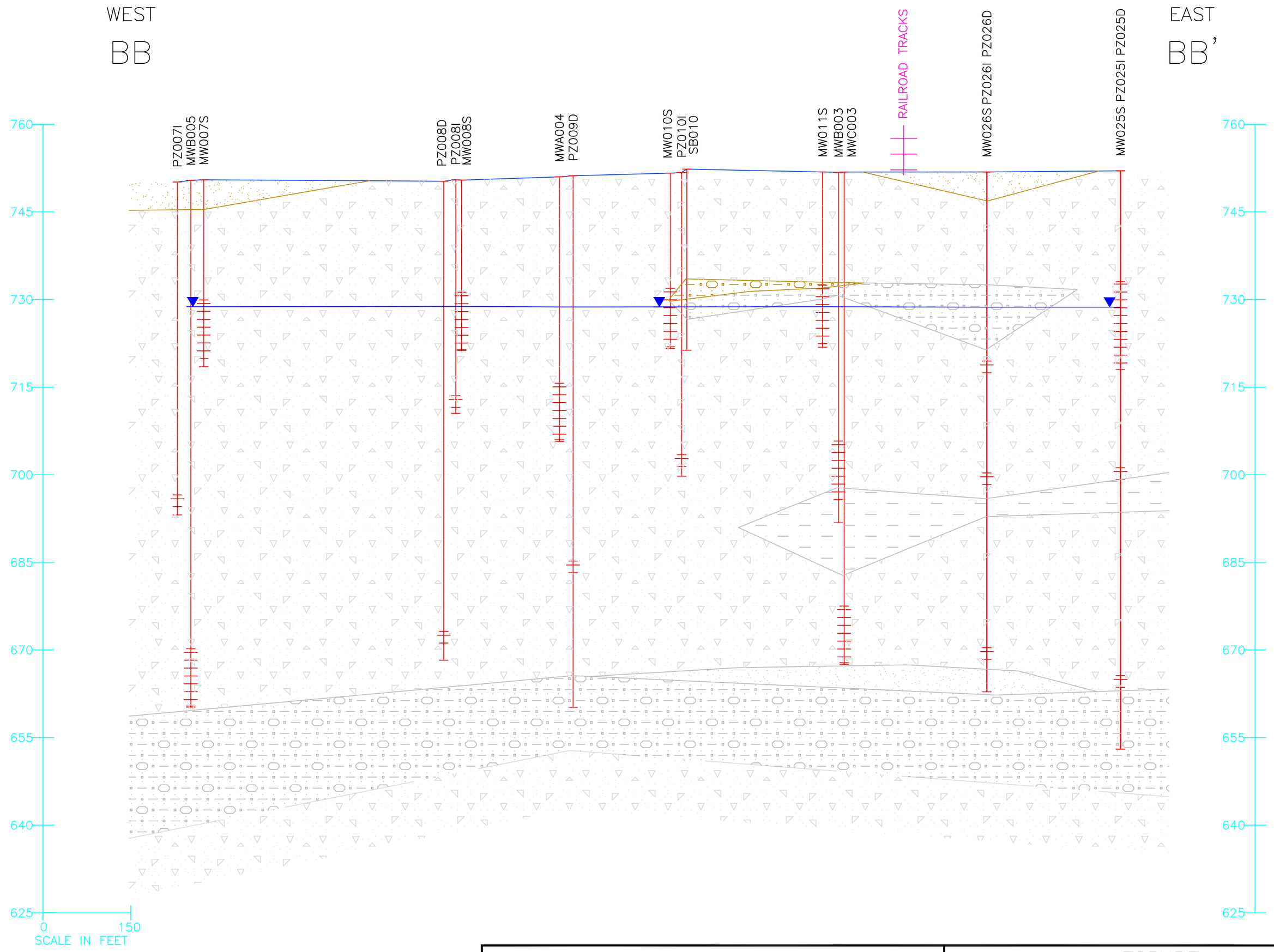
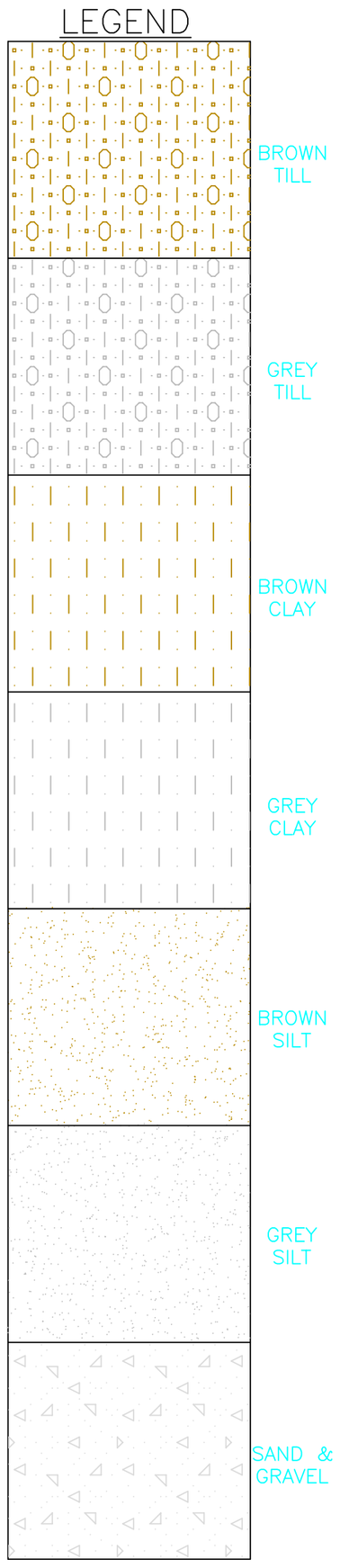
FIGURE 13
SITE SPECIFIC
GEOLOGICAL CROSS-SECTION
LOCATOR MAP

DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 98809	FILE NAME:
CHECKED BY: MA	DATE: October 2008	SCALE: ------	CROSS SECTION LOCATOR







SOURCE: LBG DRAWING 3CHDA14I AND 3CHDA14K

AECOM

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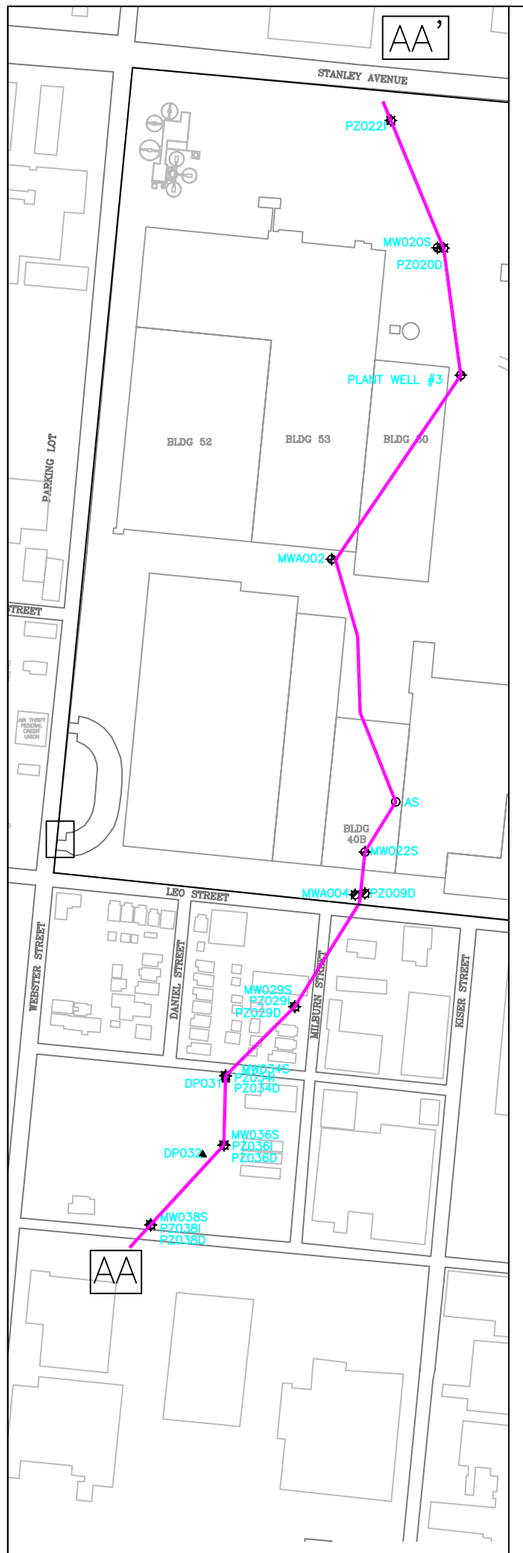
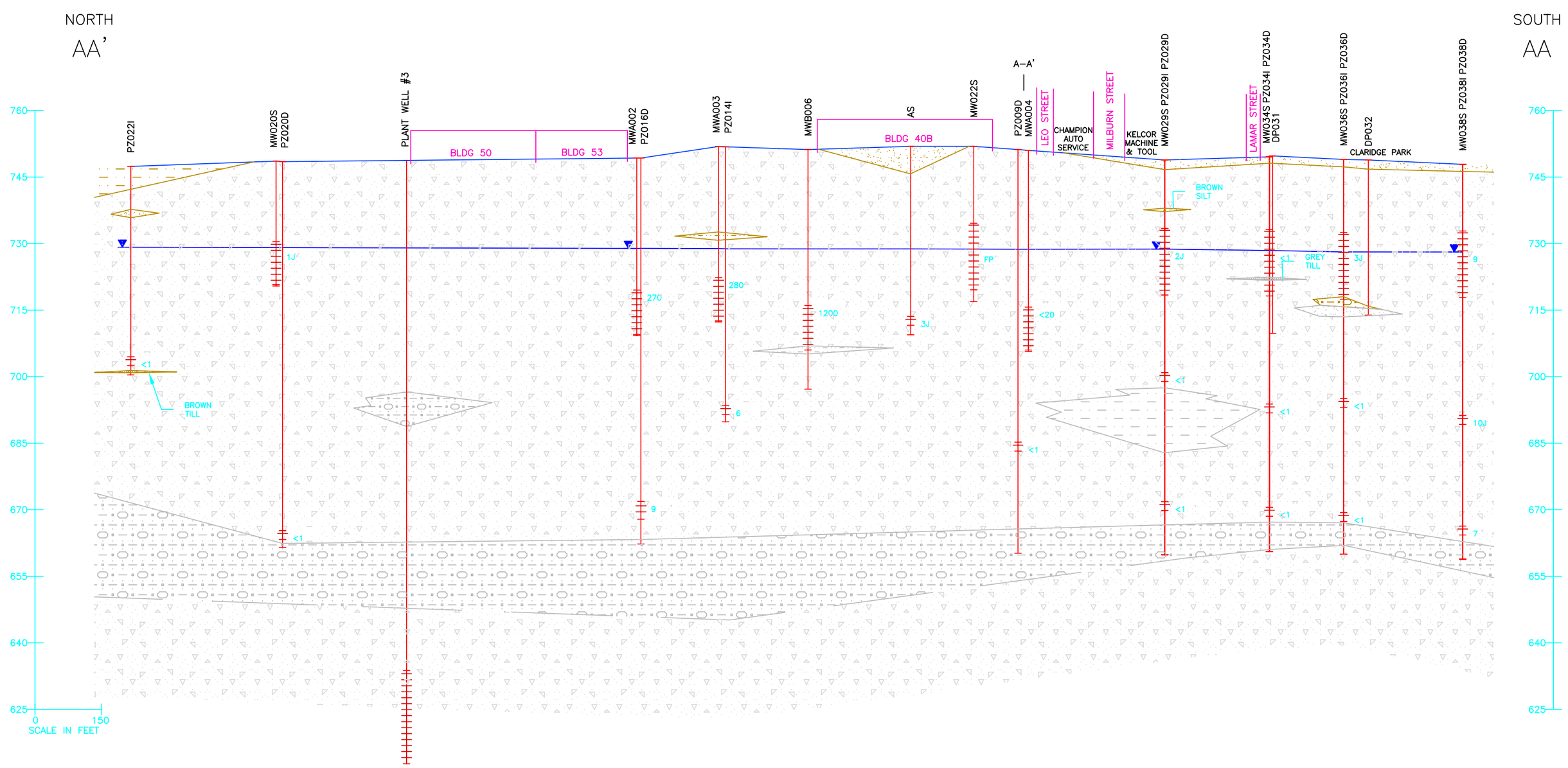
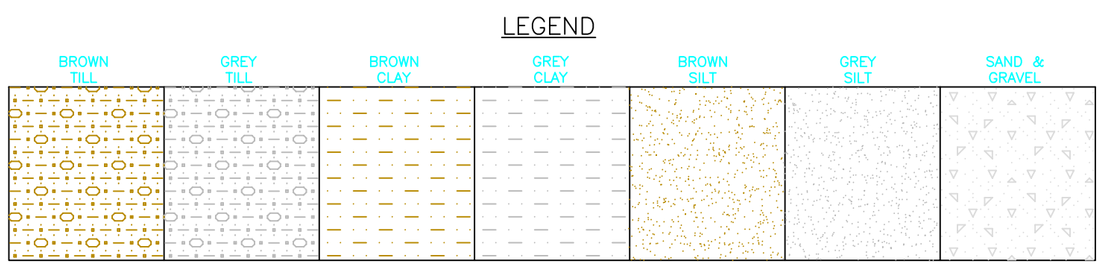
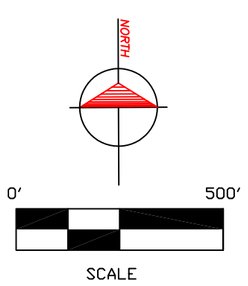
FIGURE 14
SITE SPECIFIC
WEST-EAST GEOLOGICAL
CROSS-SECTION
DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 98809	FILE NAME:
CHECKED BY: MA	DATE: OCTOBER 2008	SCALE: ------	CROSS EW









SOURCE: LBG DRAWING 3CHDA14I AND 3CHDA14K

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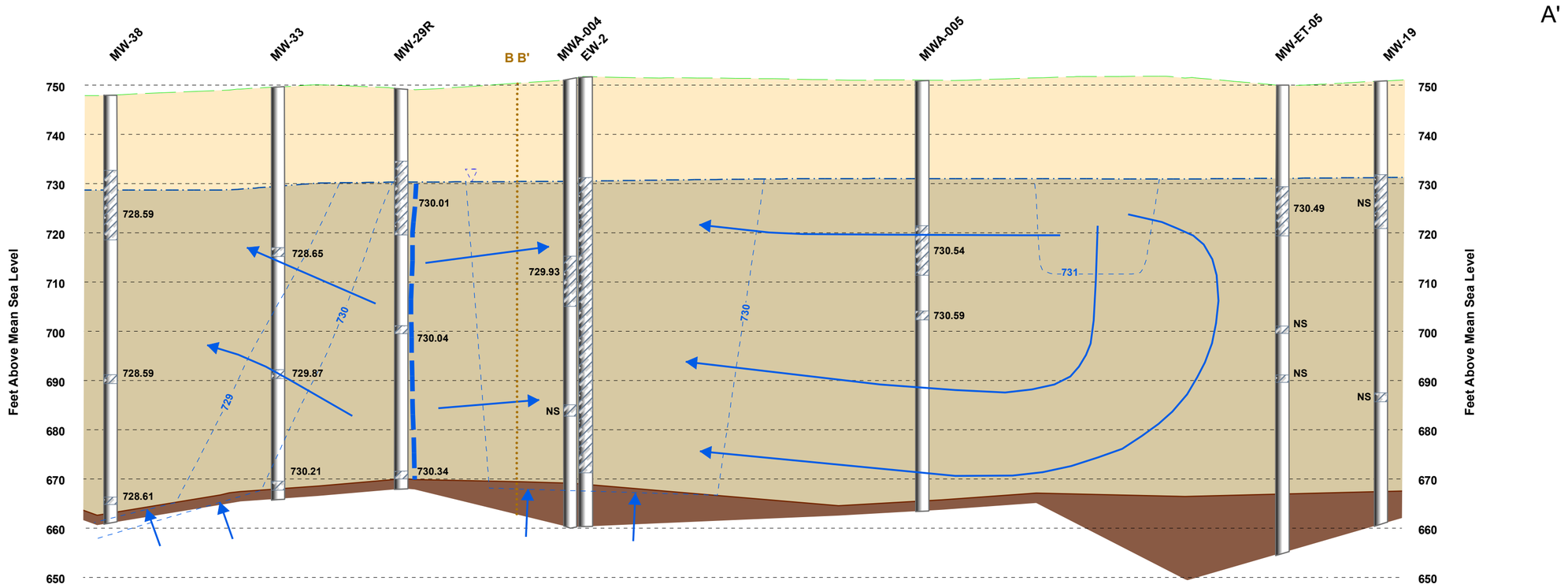
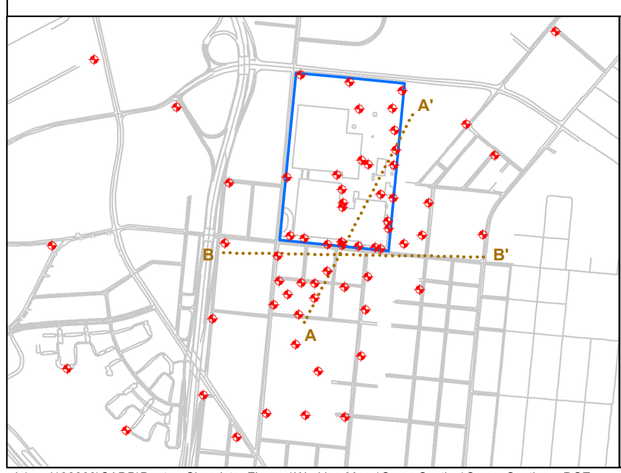
FIGURE 15
SITE SPECIFIC
NORTH-SOUTH GEOLOGICAL
CROSS-SECTION
DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

DRAWN BY: JRD	EDITED BY: JRD	PROJECT NUMBER: 98809	FILE NAME:
CHECKED BY: MA	DATE: OCTOBER 2008	SCALE: ------	CROSS NS





Groundwater Divide

Groundwater Equipotential

B B' Cross Section Location

Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

Notes:

1. NS = Not Sampled

North - South Cross Section Flow Net

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

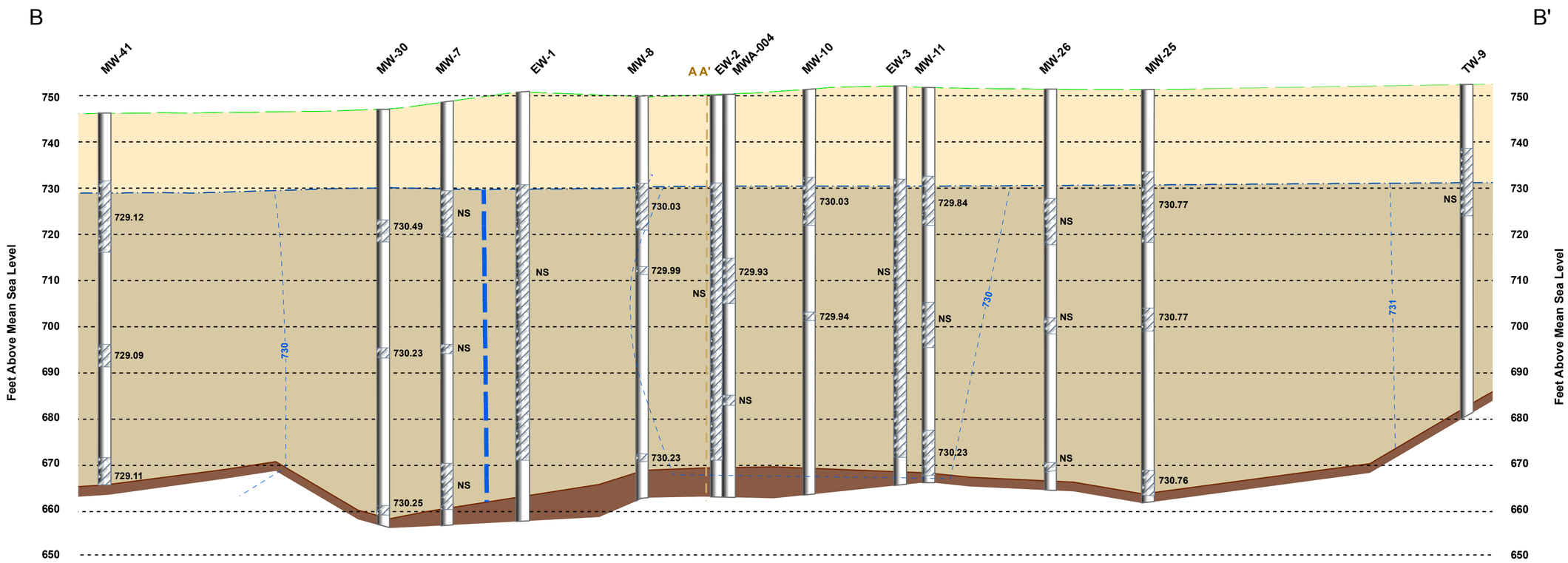
January 2009 98809

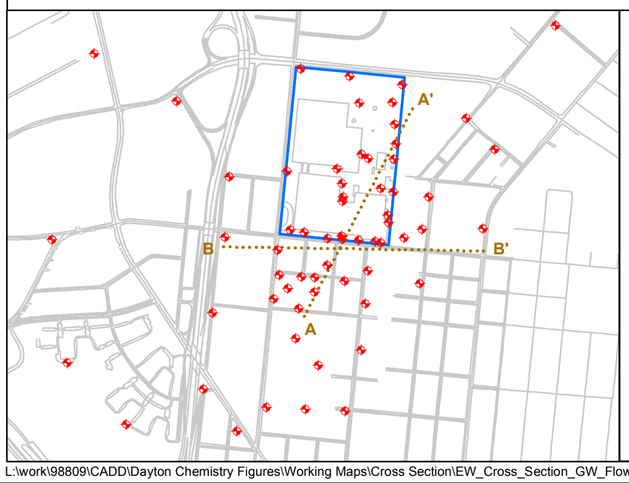
Figure 16

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_cDCE





Groundwater Divide

Groundwater Equipotential

A ..... A' Cross Section Location

Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

Notes:

1. NS = Not Sampled

West - East Cross Section Groundwater Equipotentials

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

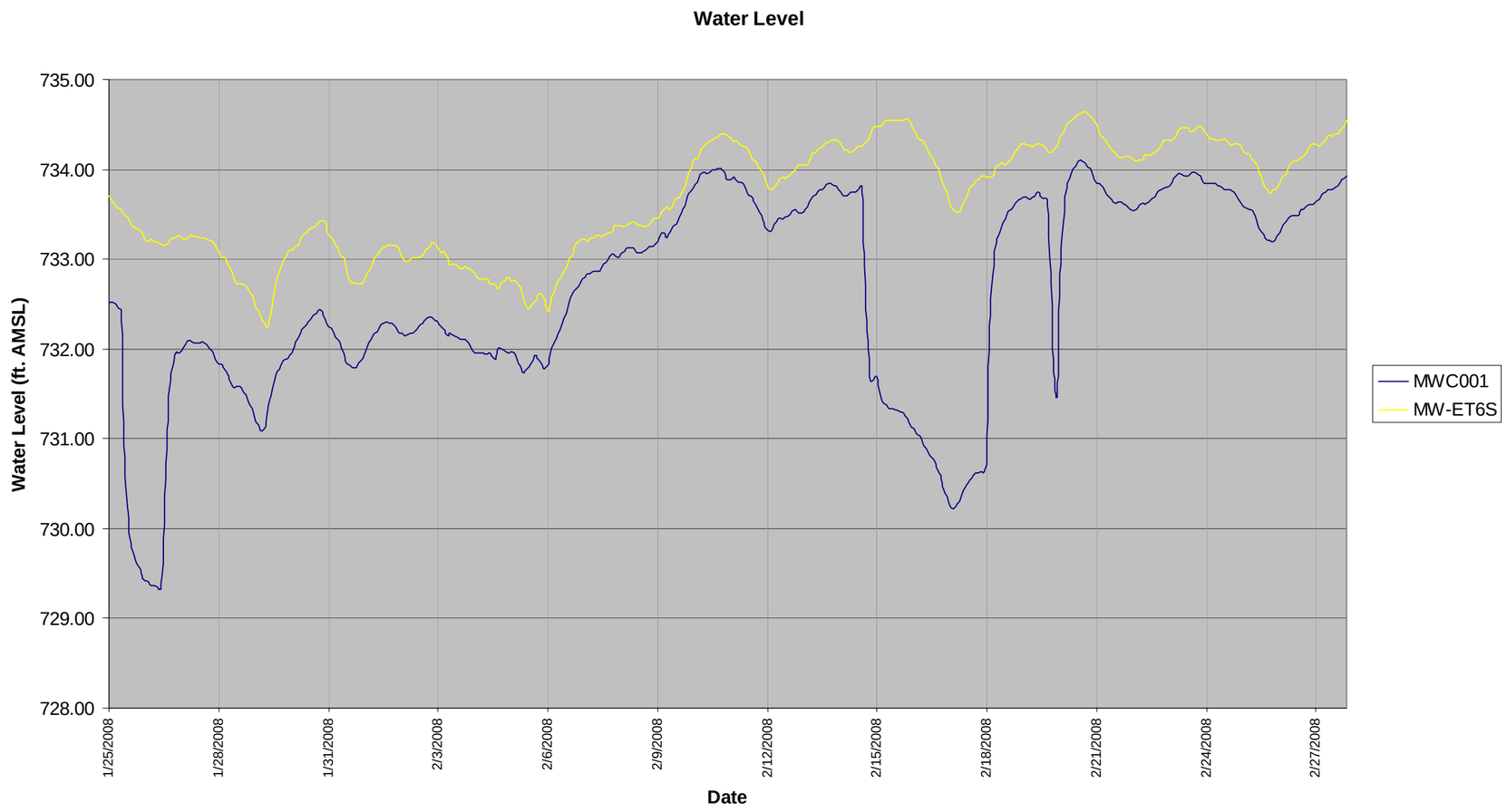
January 2009 98809

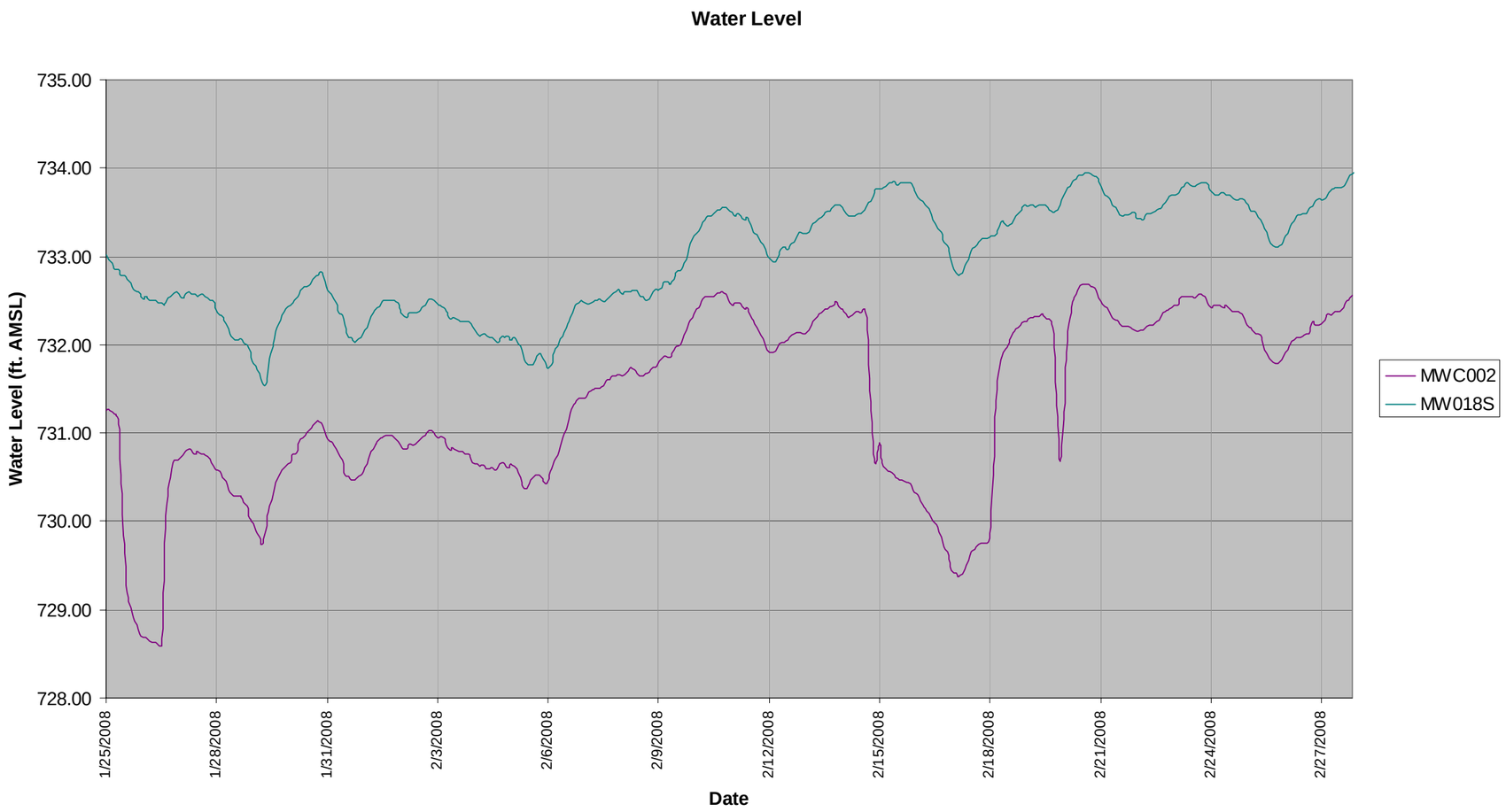
Figure 17

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\EW_Cross_Section_GW_Flow_Net





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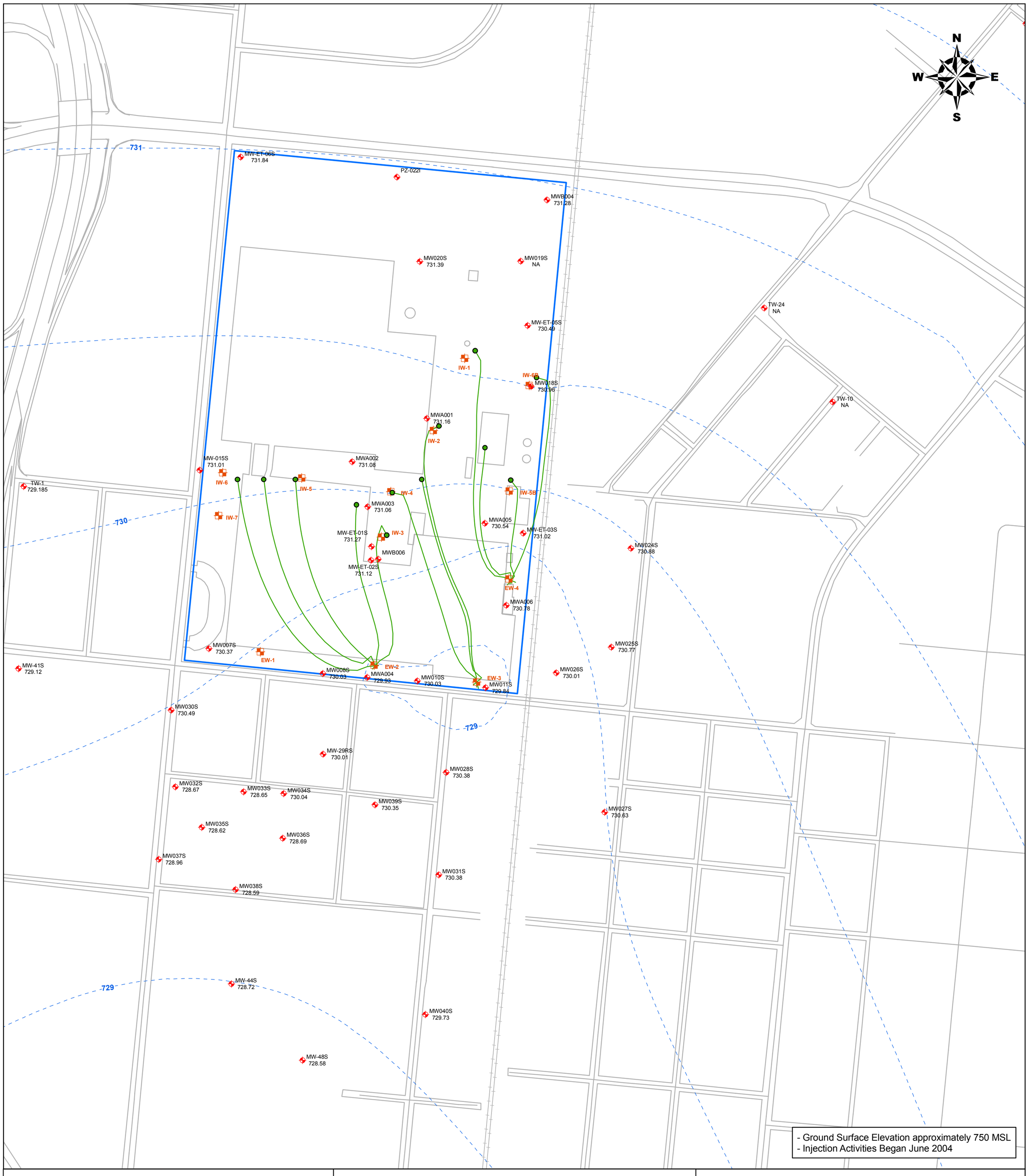
DRAWN BY: JRD	DATE: OCT. 17, 2003
CHECKED BY: SC	EDITED BY: JRD
FILE NAME: SVE FINAL AB	

FIGURE 18

SHALLOW/DEEP HYDROGRAPHS

DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

PROJECT NUMBER 63393



Monitoring Well

Extraction / Injection Well

Particle

Particle Path

730 Predicted Groundwater Contour

Behr Property Boundary

Predicted Groundwater Table and Particle Track - Extraction Wells 2, 3, and 4 Active

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

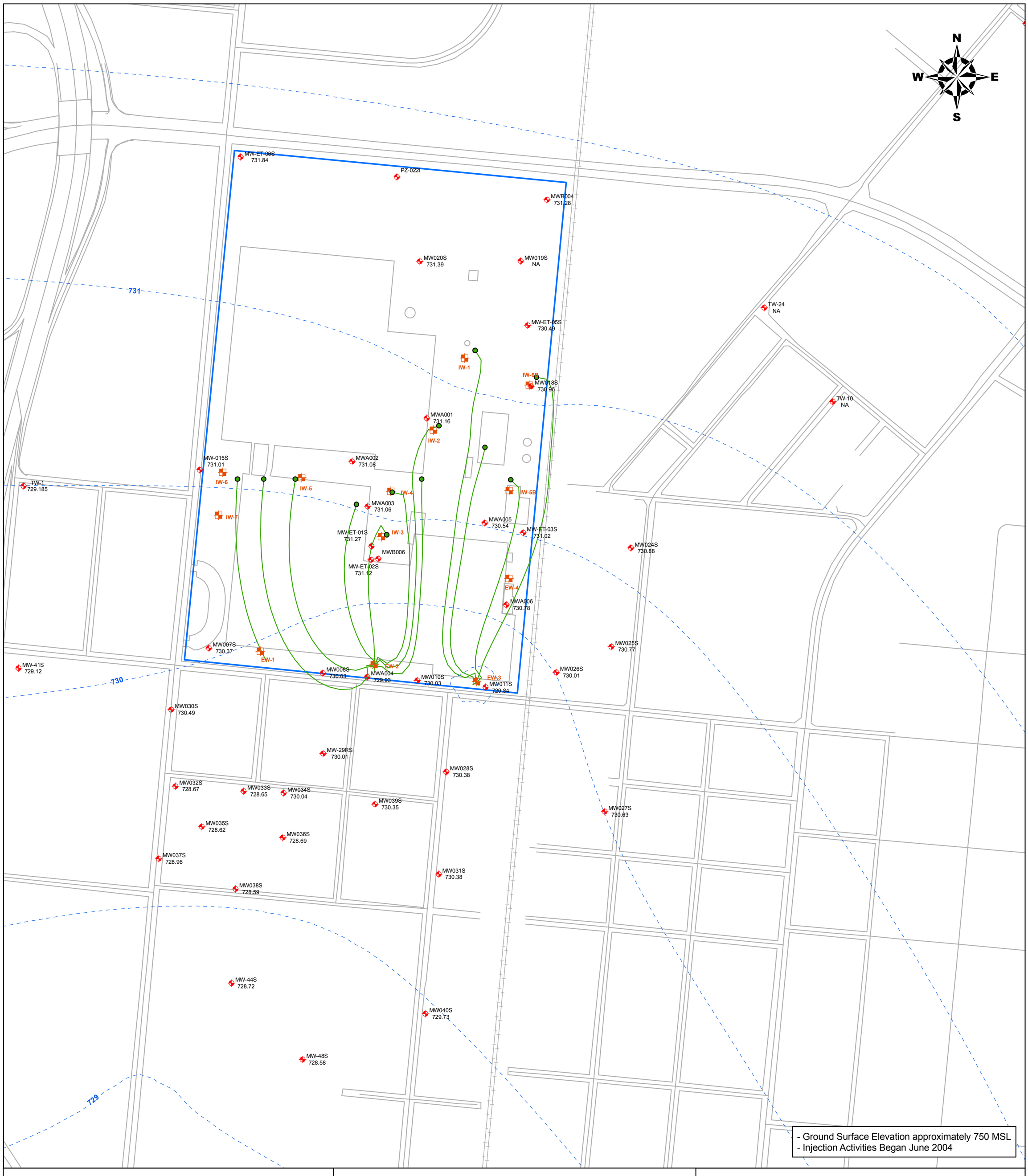
January 2009 98809

Figure 19

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Contours_SMJ\Plan View\Hydro_Particle_Captures.mxd



Monitoring Well

Extraction / Injection Well

Particle

Particle Path

730 Predicted Groundwater Contour

Behr Property Boundary

Predicted Groundwater Table and Particle Track - Extraction Wells 2 and 3 Active

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

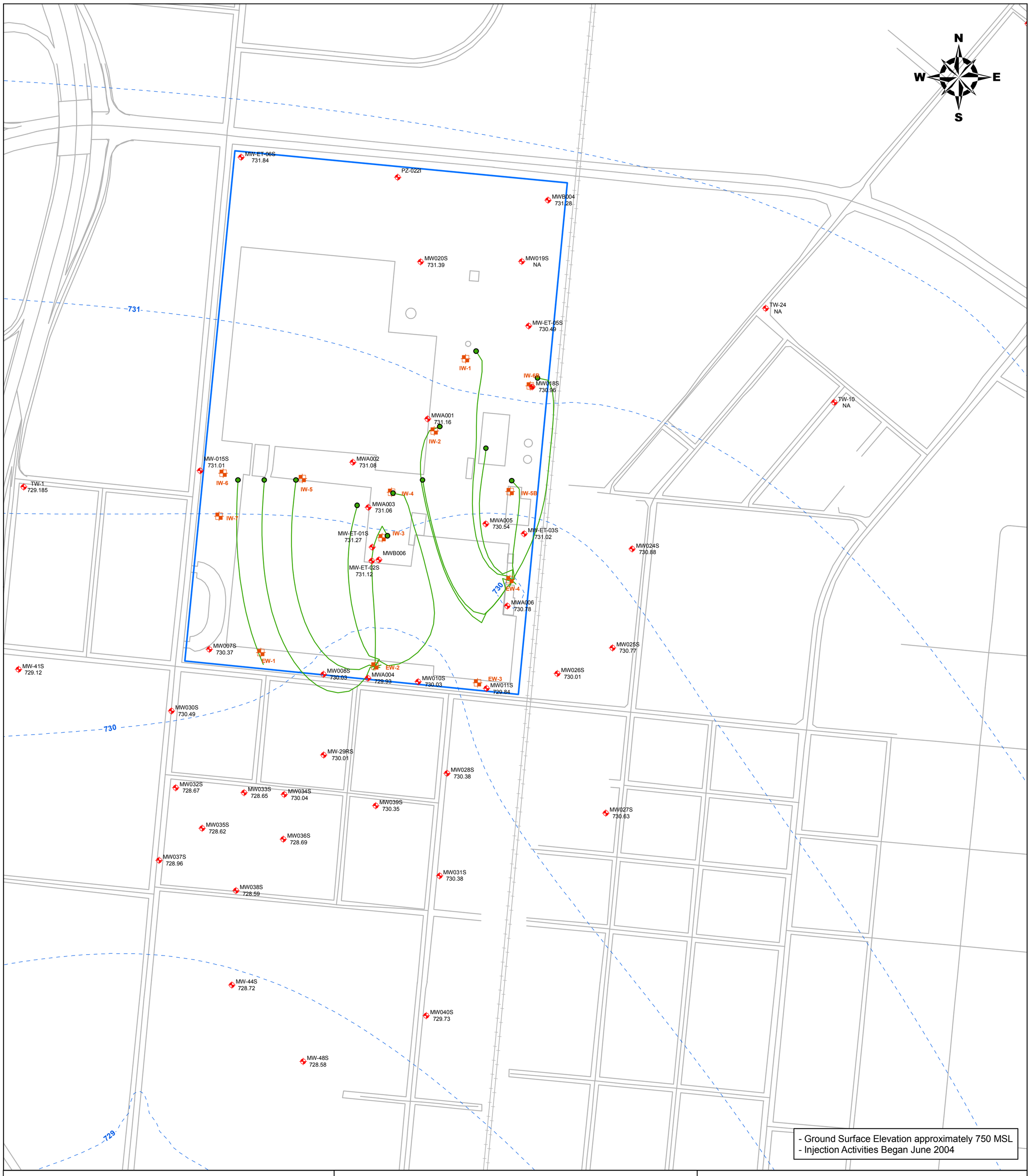
January 2009 98809

Figure 20

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Contours_SMJ\Plan View\Hydro_Particle_Captures.mxd



Monitoring Well

Extraction / Injection Well

Particle

Particle Path

730 Predicted Groundwater Contour

Behr Property Boundary

Predicted Groundwater Table and Particle Track - Extraction Wells 2 and 4 Active

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

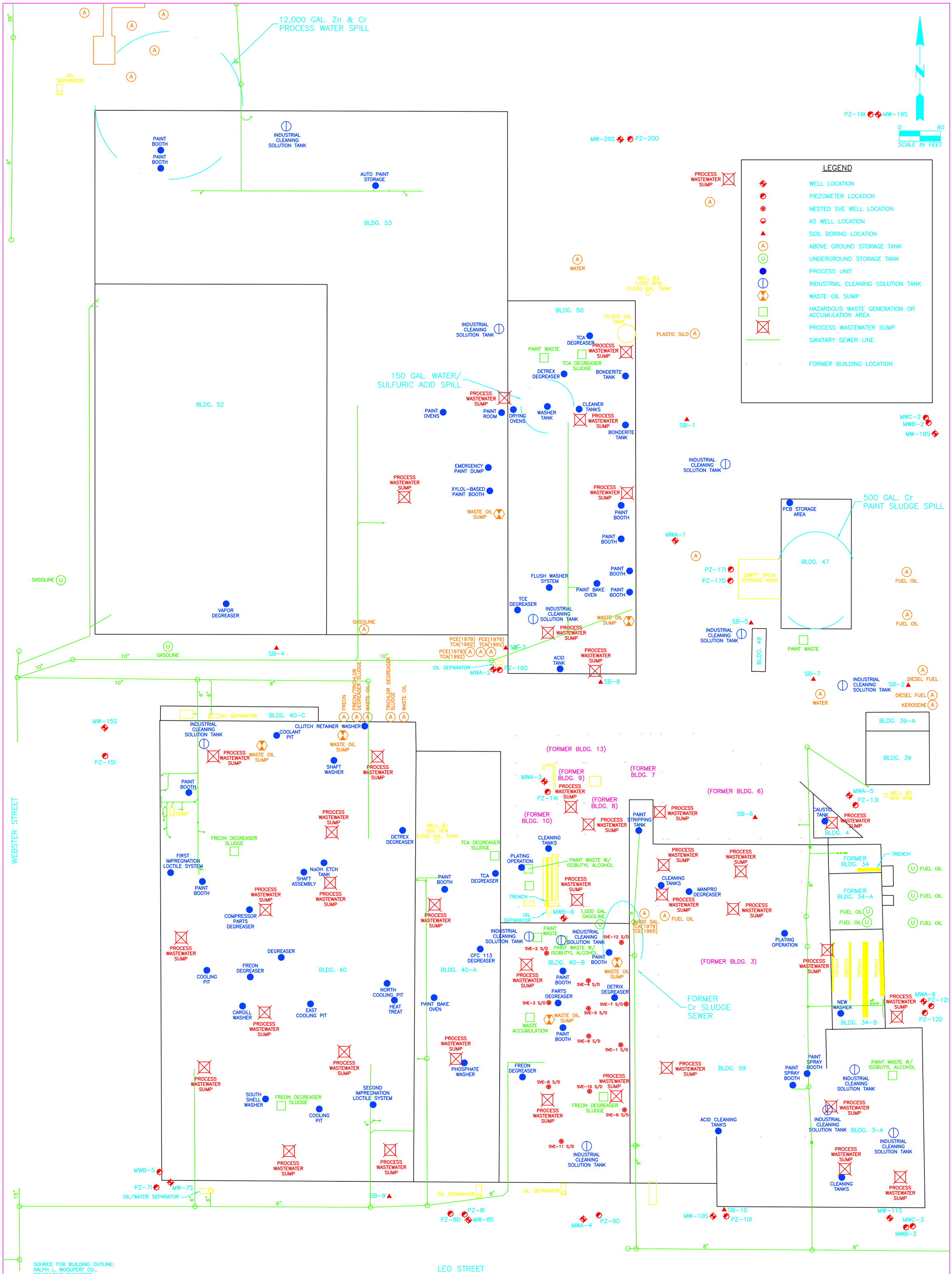
January 2009 98809

Figure 21

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Contours_SMJ\Plan View\Hydro_Particle_Captures.mxd



DATE	REVISED

AECOM

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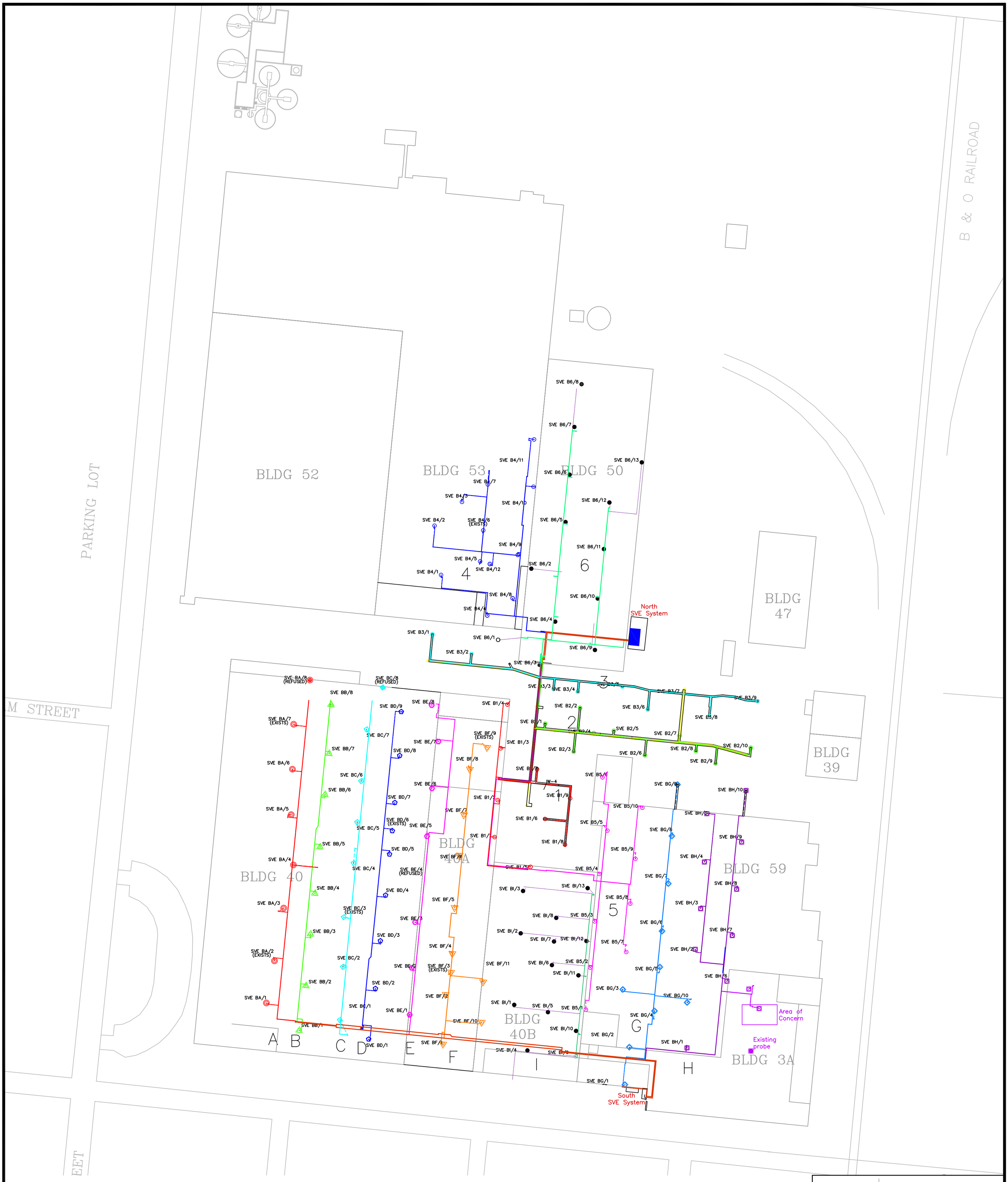
DAYTON THERMAL PRODUCTS PLANT

DAYTON, OHIO

FIGURE 22 HISTORICAL SOURCE AREA MAP



LEGEND

SVE Piping (Colored by Bank)

SVE Wells (typ)

Manifold Piping

AECOM

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DRAWN BY: JRD	DATE: OCT. 17, 2003
CHECKED BY: SC	EDITED BY: JRD
FILE NAME: SVE FINAL AB	

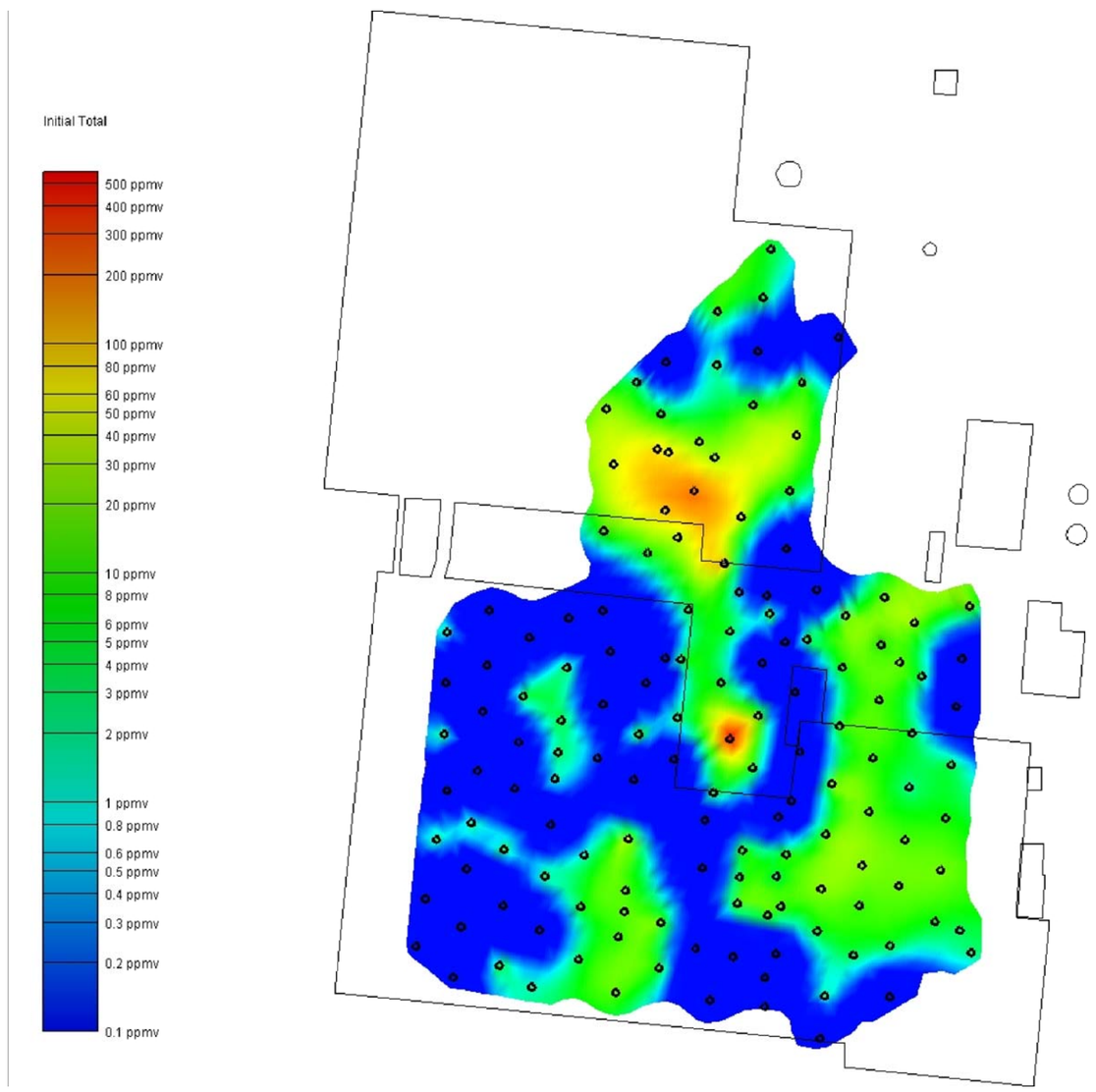
FIGURE 23

AS-BUILT SVE SYSTEM

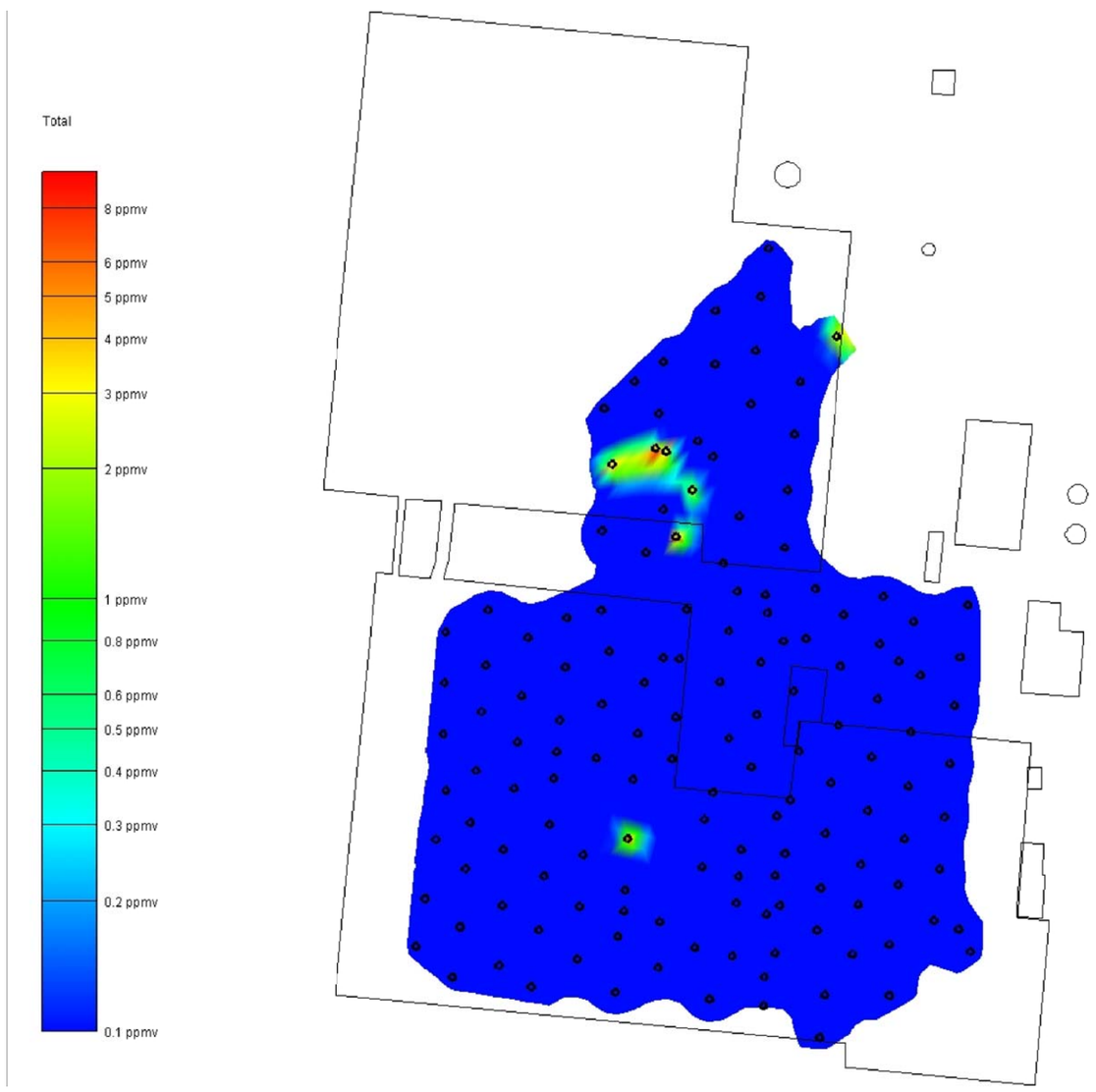
DAYTON THERMAL PRODUCTS SITE
DAYTON, OHIO

PROJECT NUMBER 63393

Initial Startup - Total VOCs



2-Years After Startup - Total VOCs



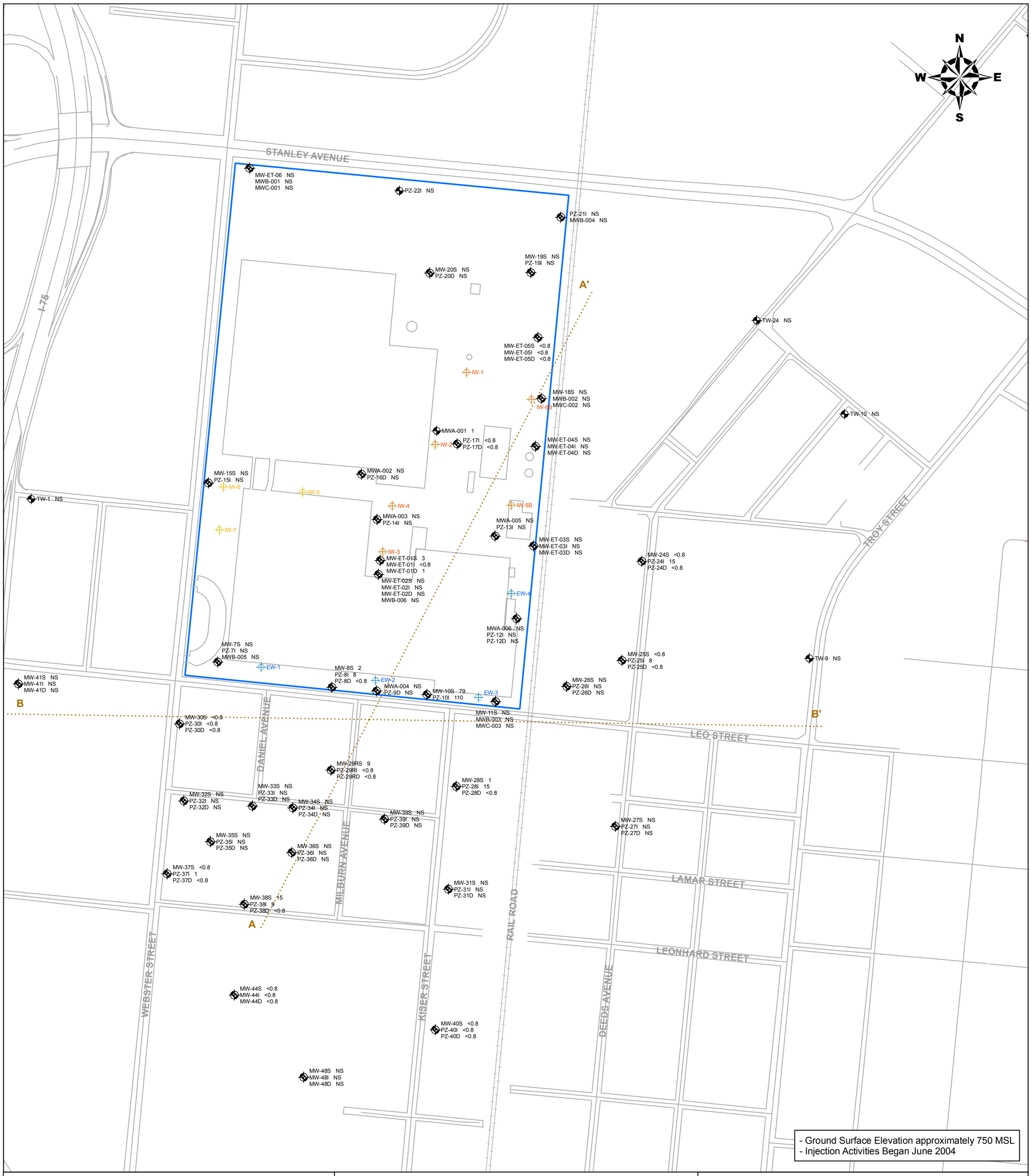
N

AECOM

36133 Schoolcraft Road • Livonia • Michigan • 48150 • (734 779-2800)

FIGURE 24
SVE Analytical Results

Dayton Thermal Products Site
Dayton, Ohio



Extraction Well

Injection Well

Injection Well (Not Used)

Monitoring Well

Well Nest

A.....A' Cross Section Location

Behr Property Boundary

Isoconcentration Base Map

November 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 25

0 Feet 1,000

AECOM

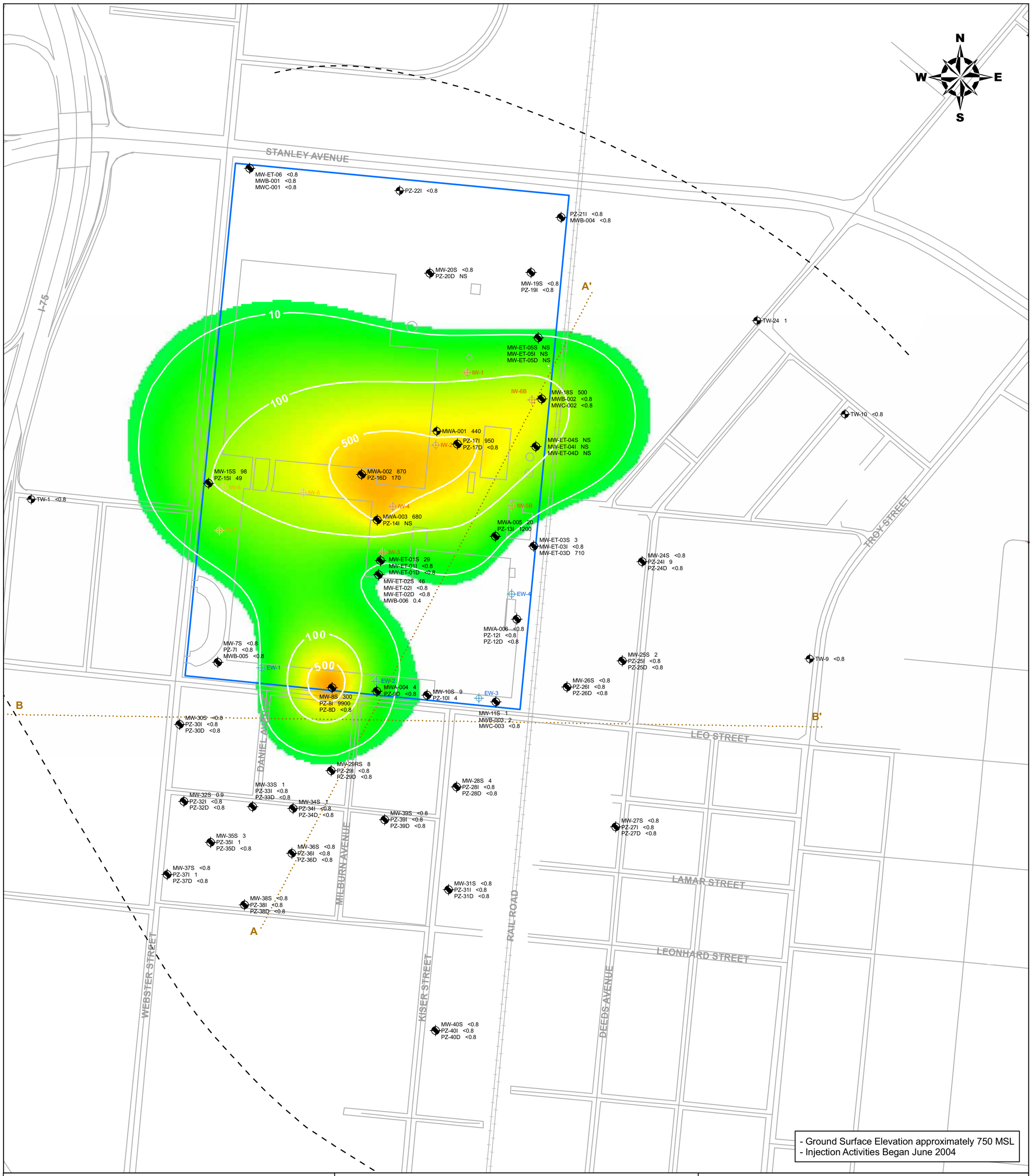
L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Plume_Base_Map.mxd

Figures 26 through 40

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

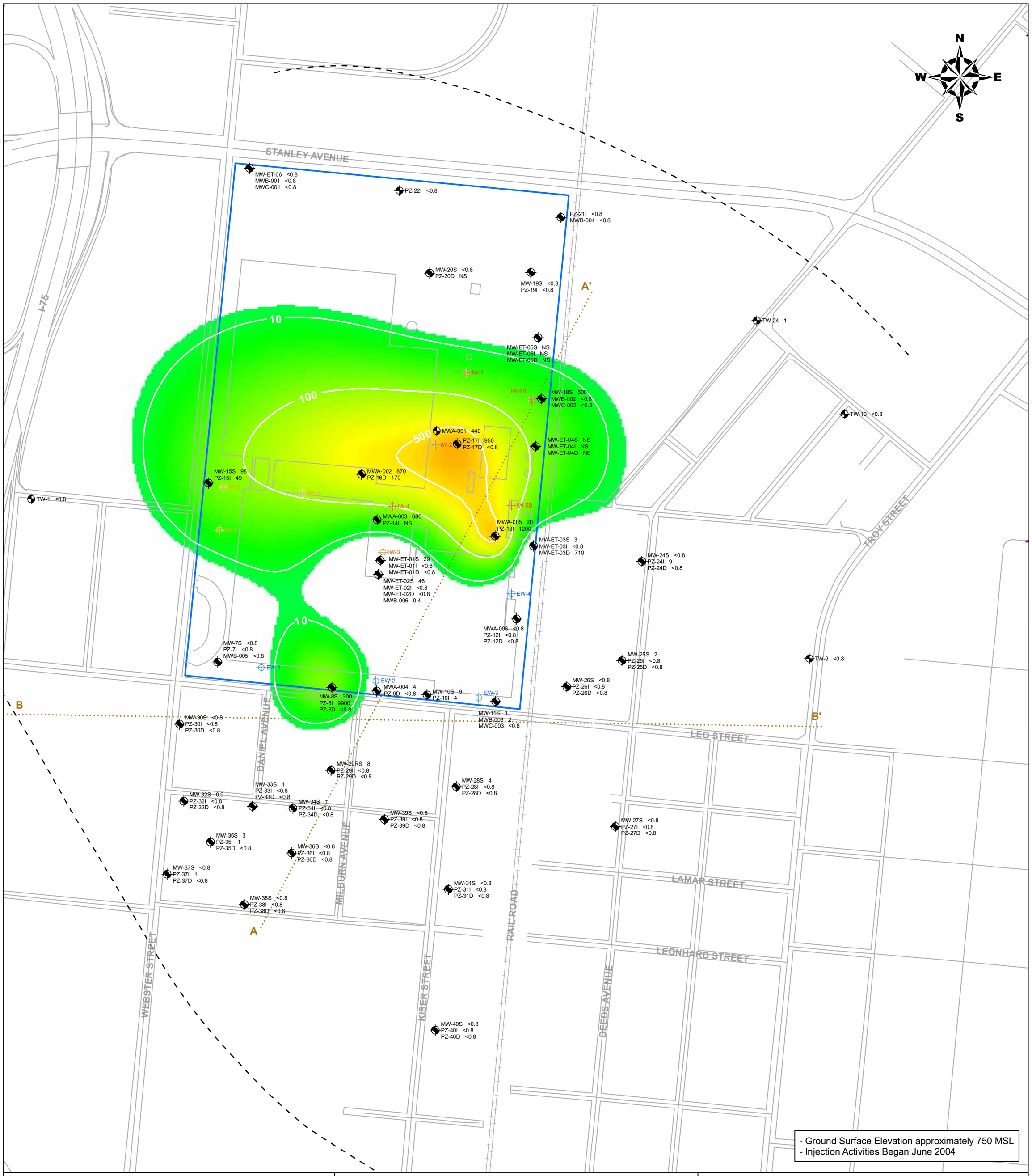
January 2009 98809

Figure 26

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

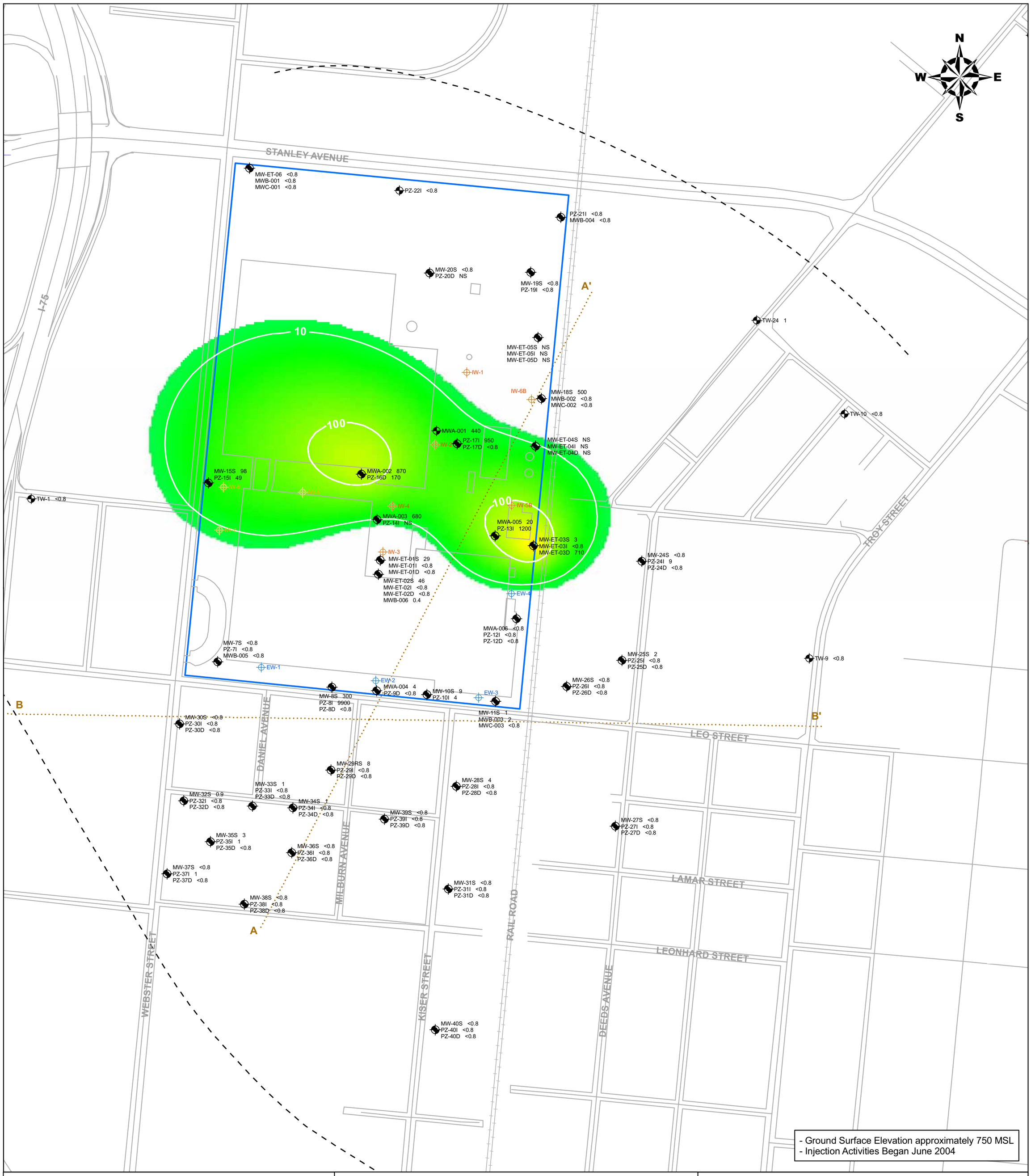
January 2009 98809

Figure 27

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

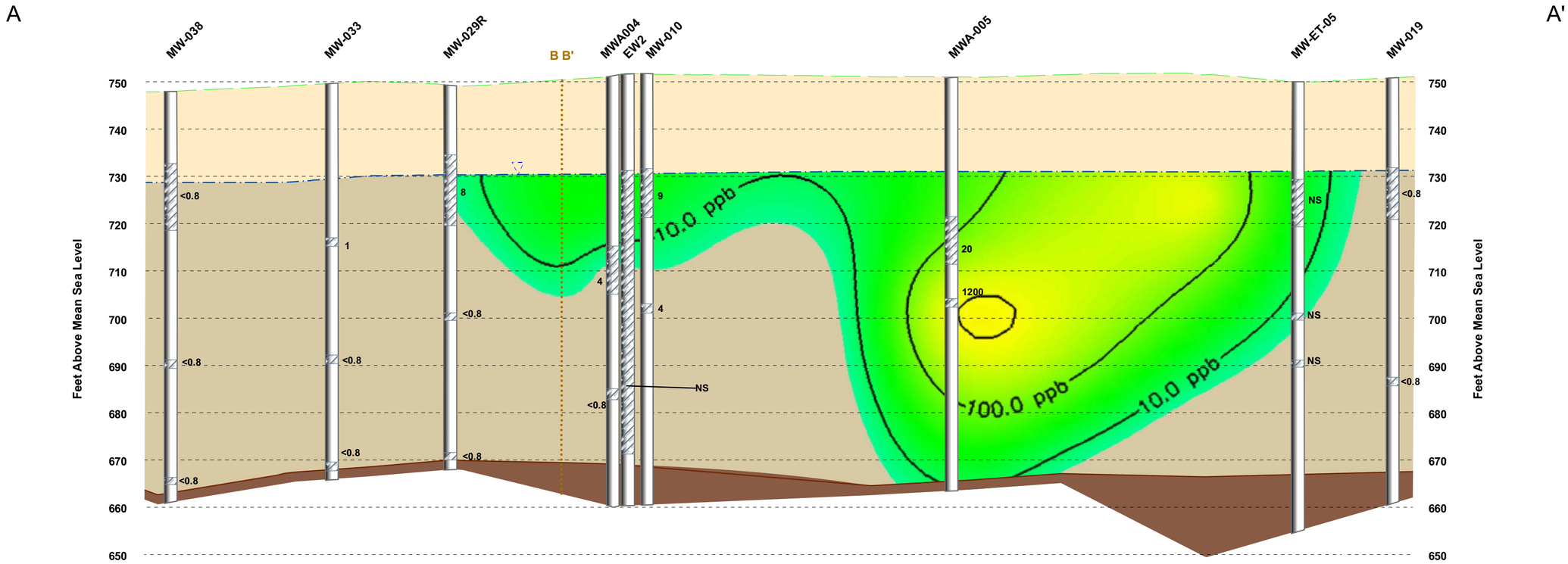
January 2009 98809

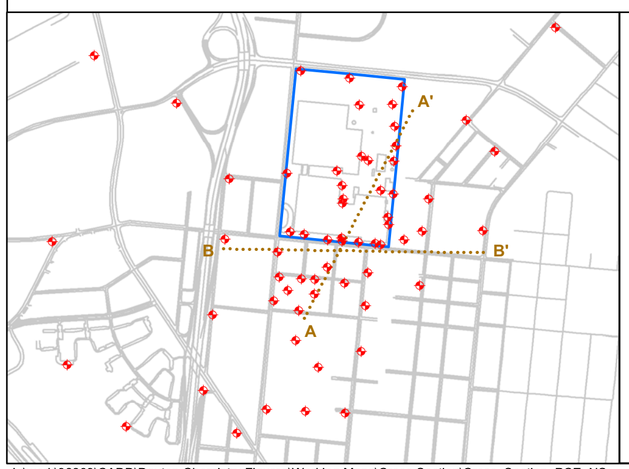
Figure 28

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5
9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

PCE in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

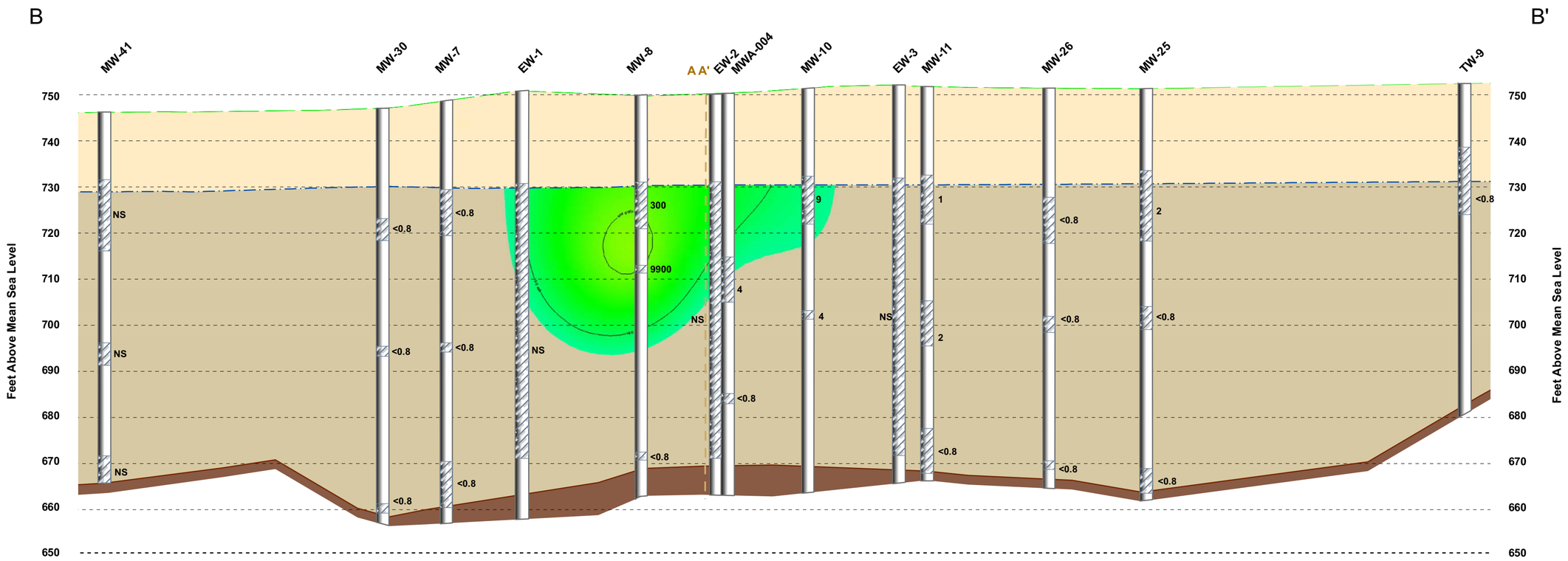
January 2009 98809

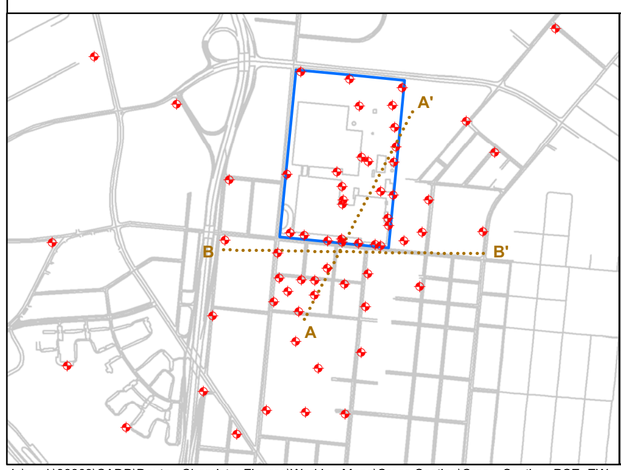
Figure 29

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

PCE in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

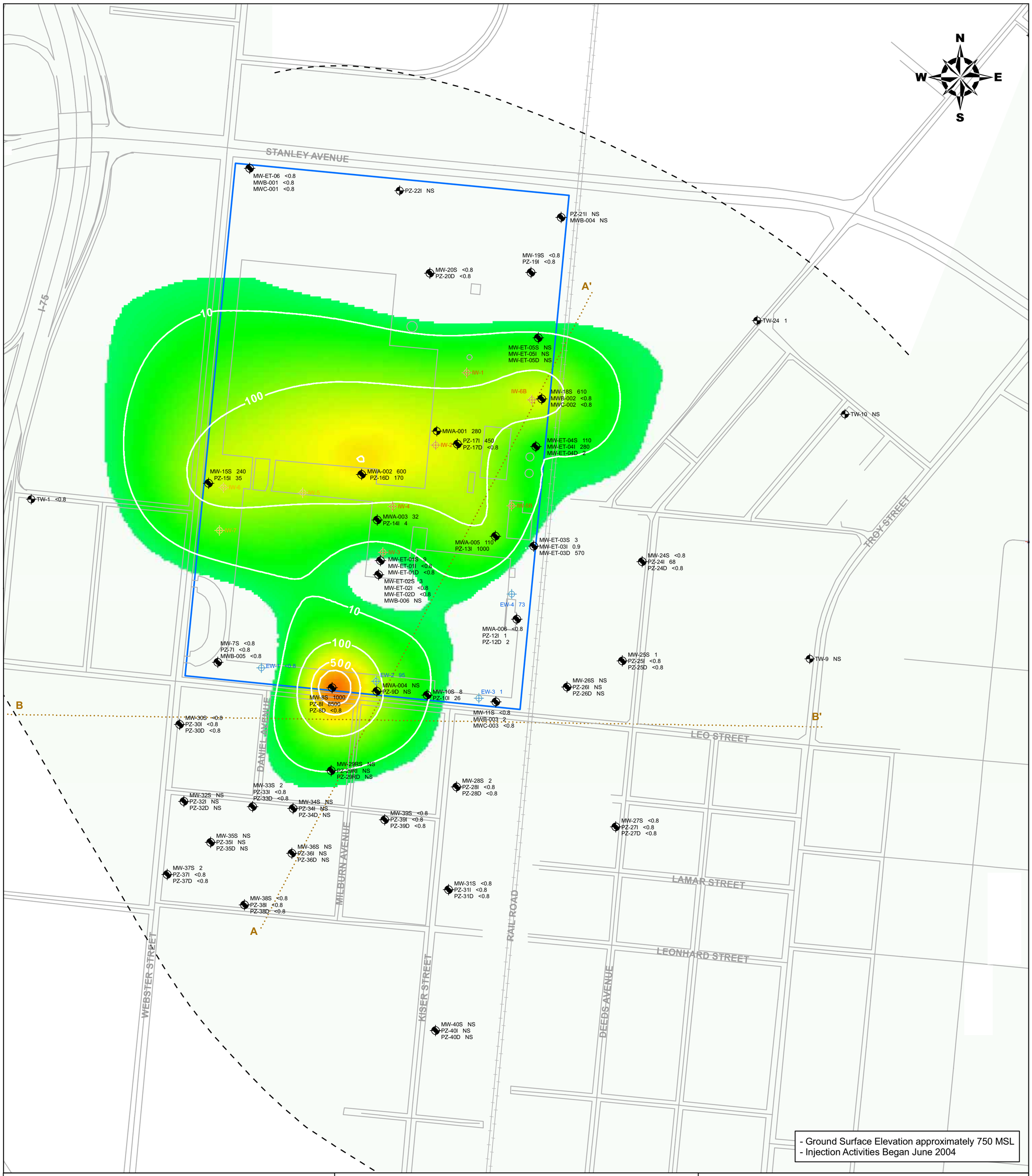
January 2009 98809

Figure 30

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 31

0 Feet 1,000

AECOM

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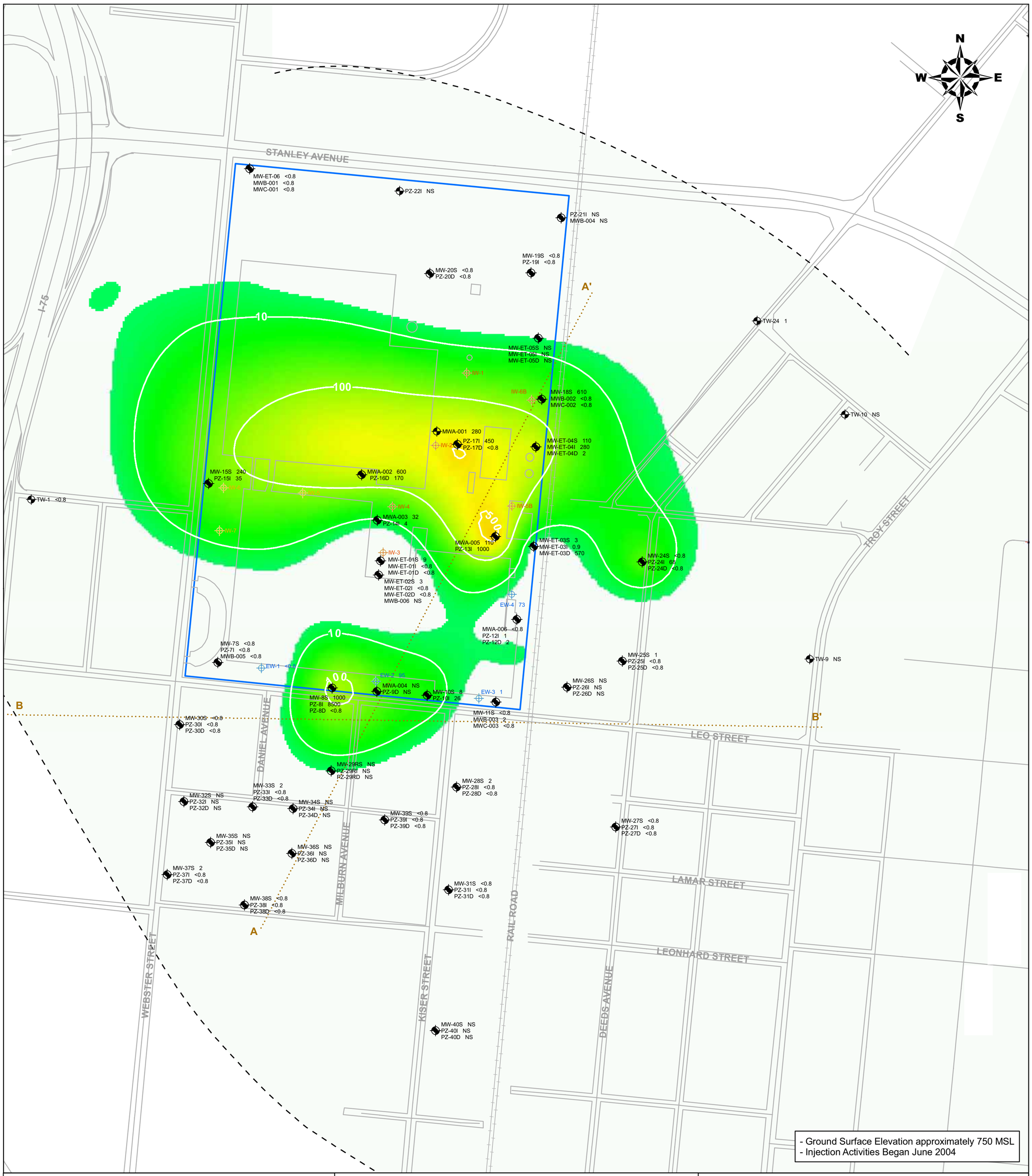


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

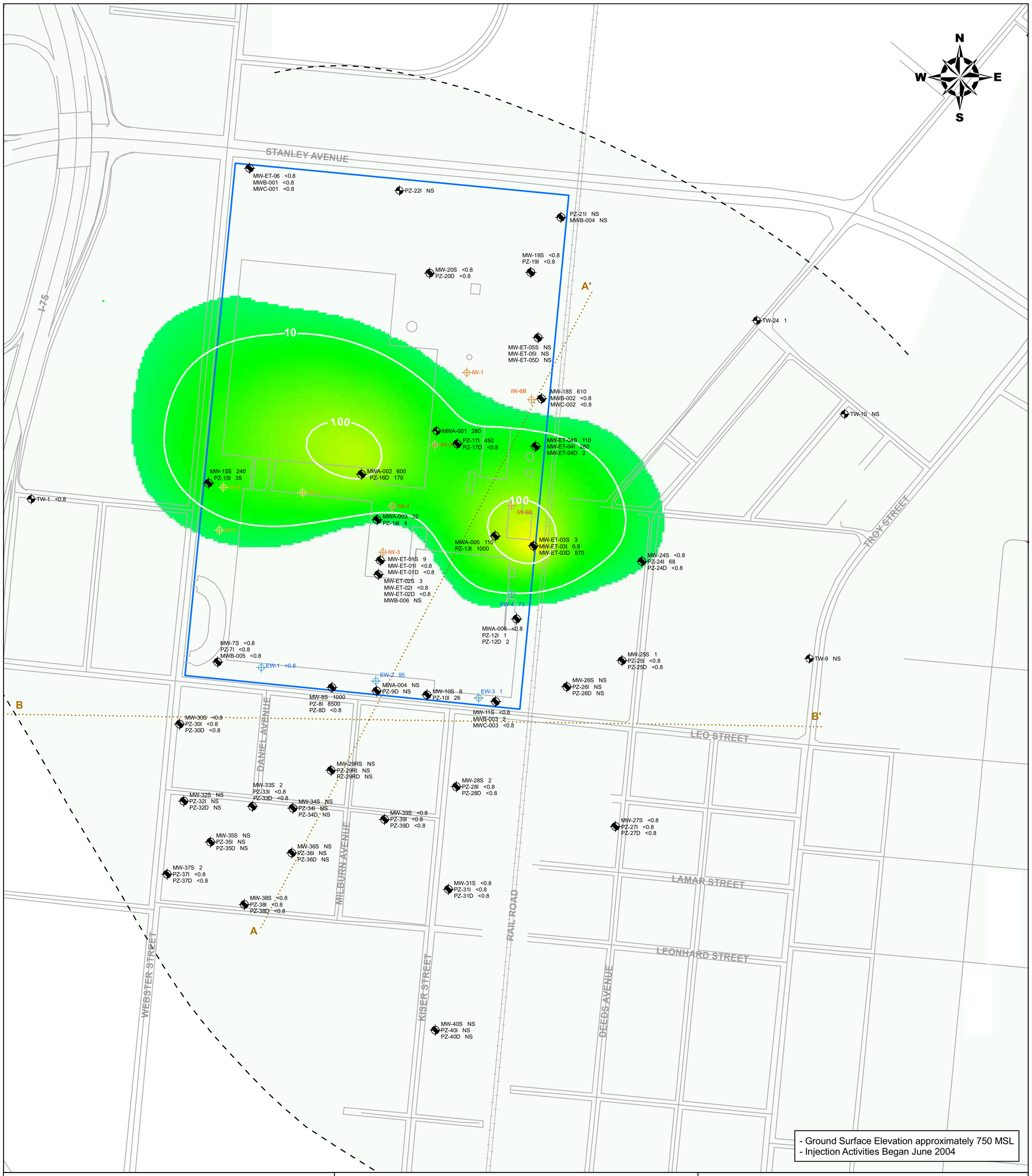
January 2009 98809

Figure 32

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

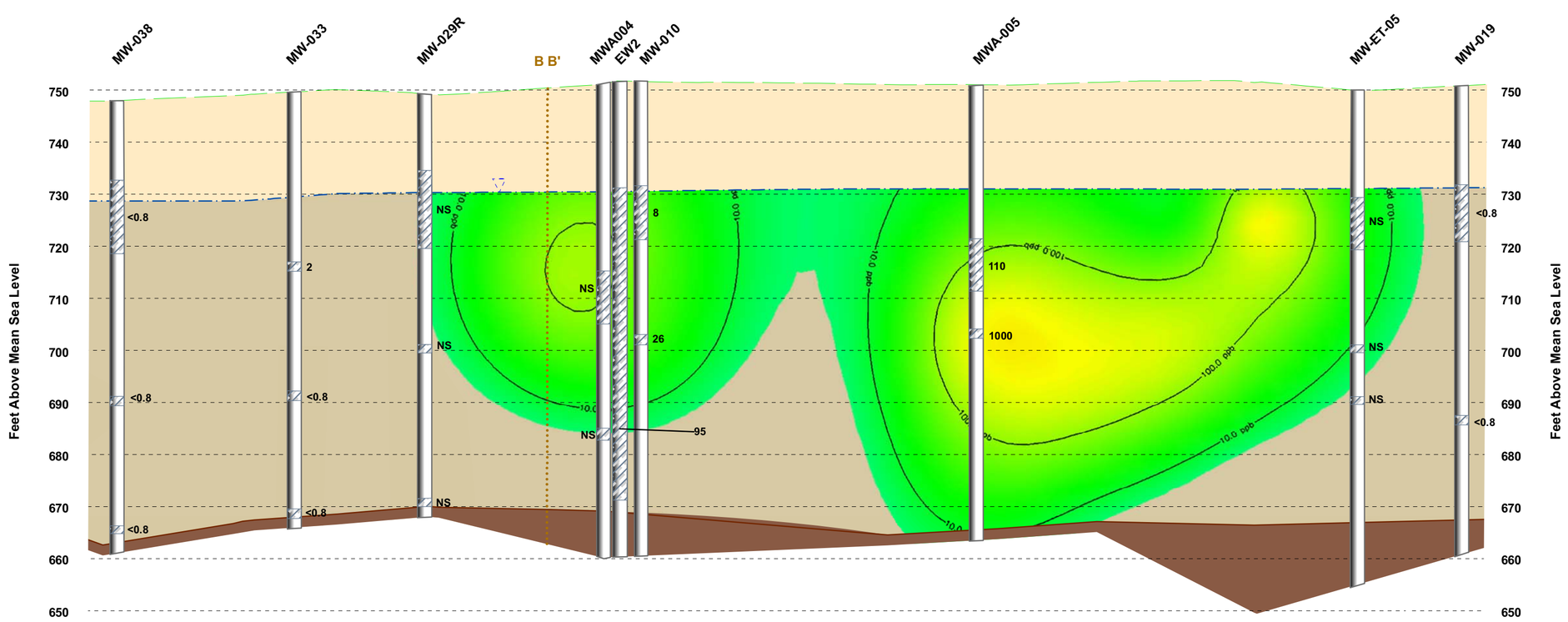
January 2009 98809

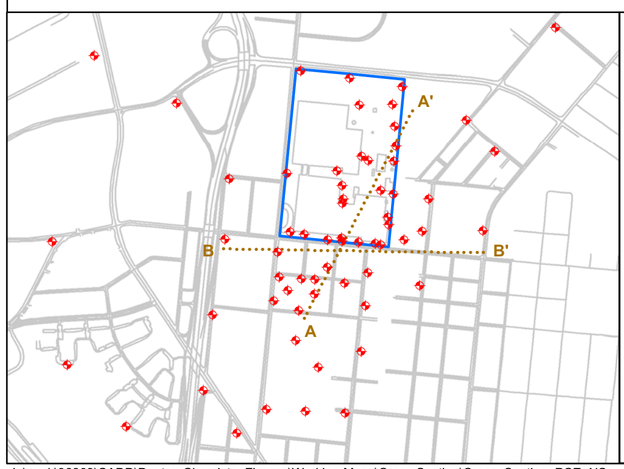
Figure 33

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd





Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

B ..... B' Cross Section Location

Plume Concentration (ppb)

5 — 9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

PCE in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009

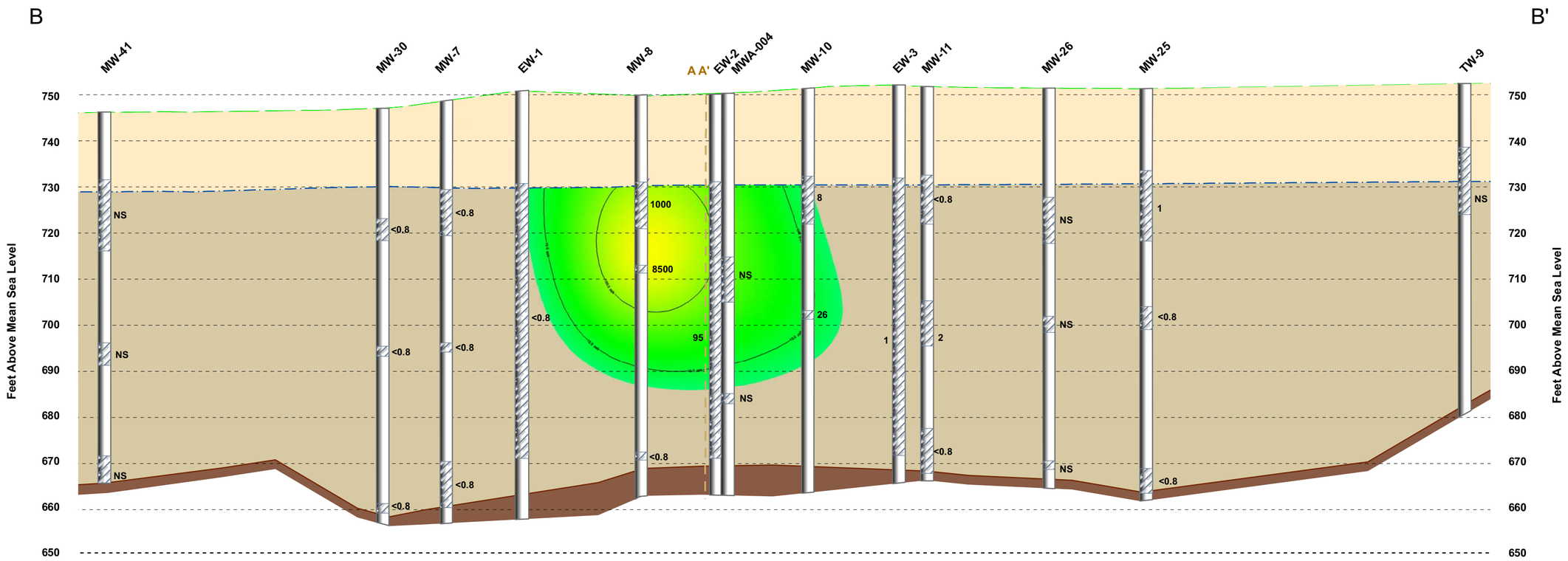
98809

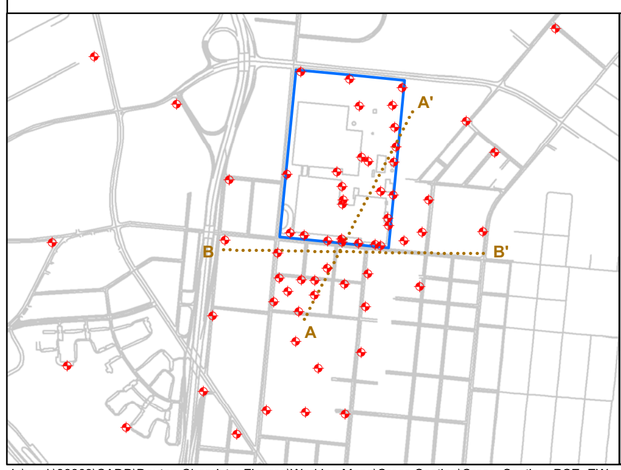
Figure 34

0 — 500 Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

PCE in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 35

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_EW

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 36

0 Feet 1,000

AECOM

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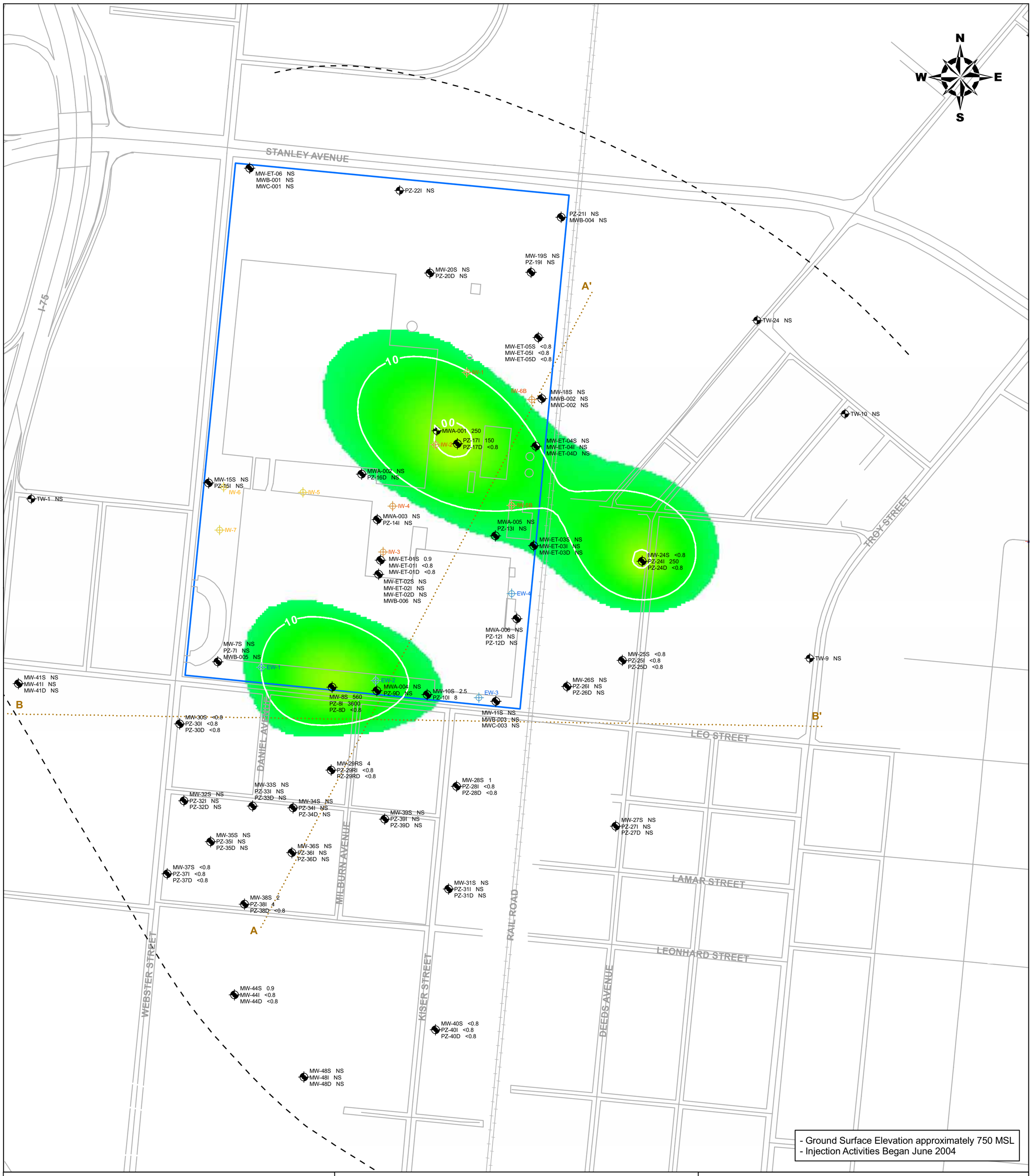


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

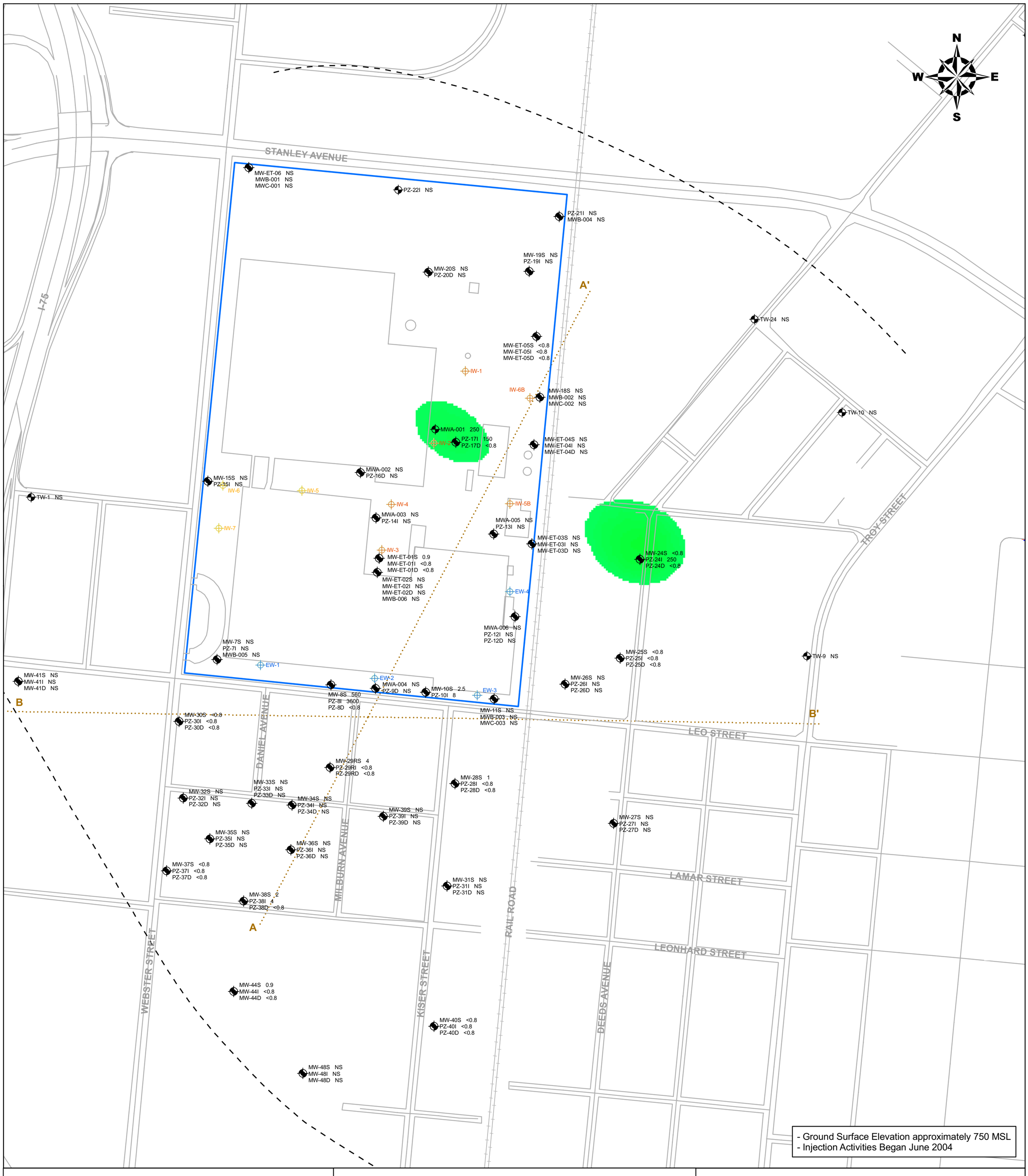
January 2009 98809

Figure 37

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 9,900

PCE in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

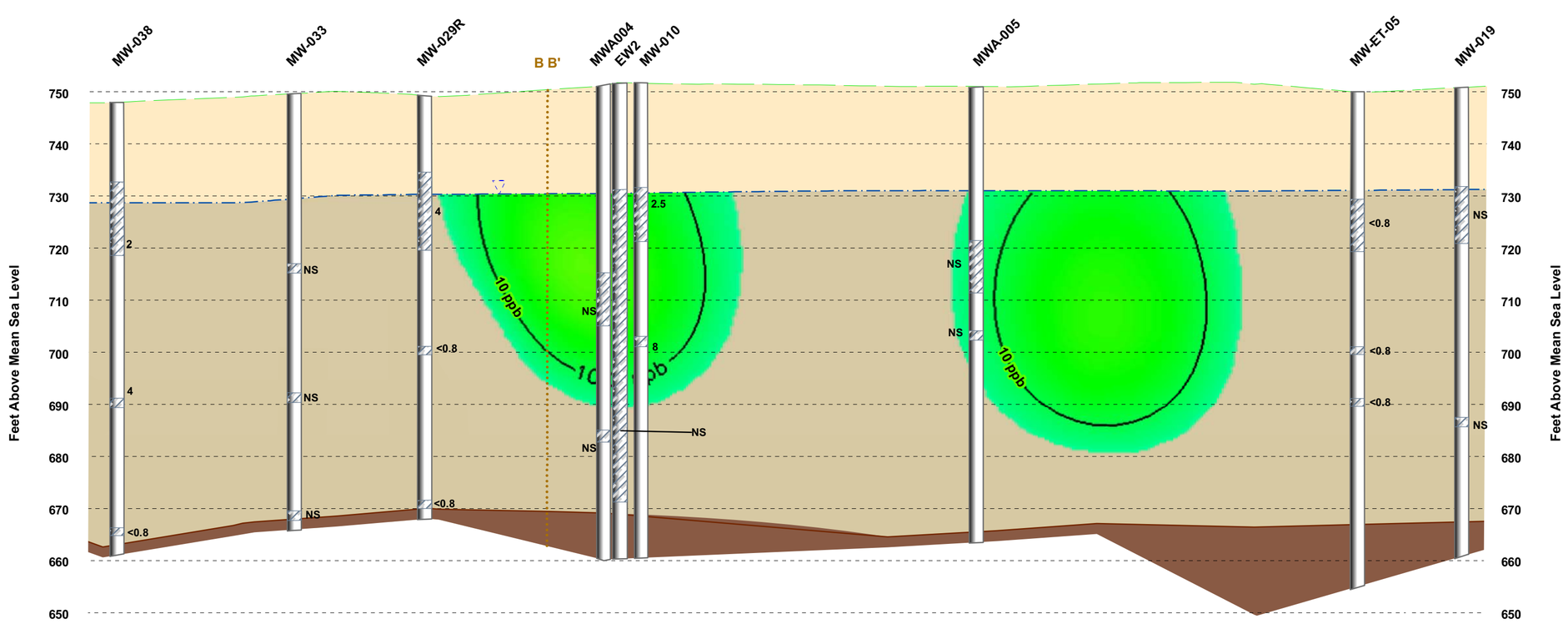
January 2009 98809

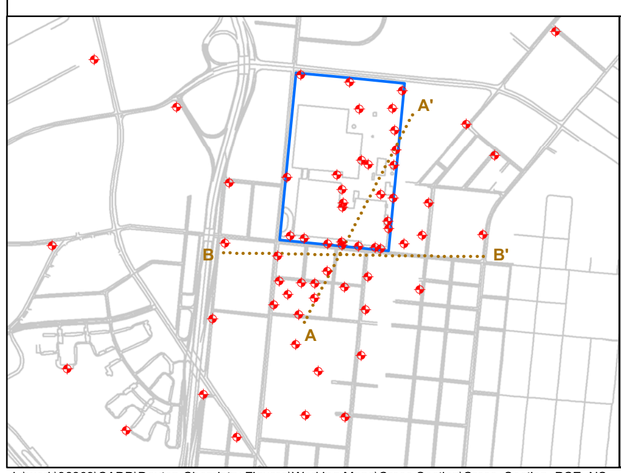
Figure 38

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_PCE.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5
9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

PCE in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009

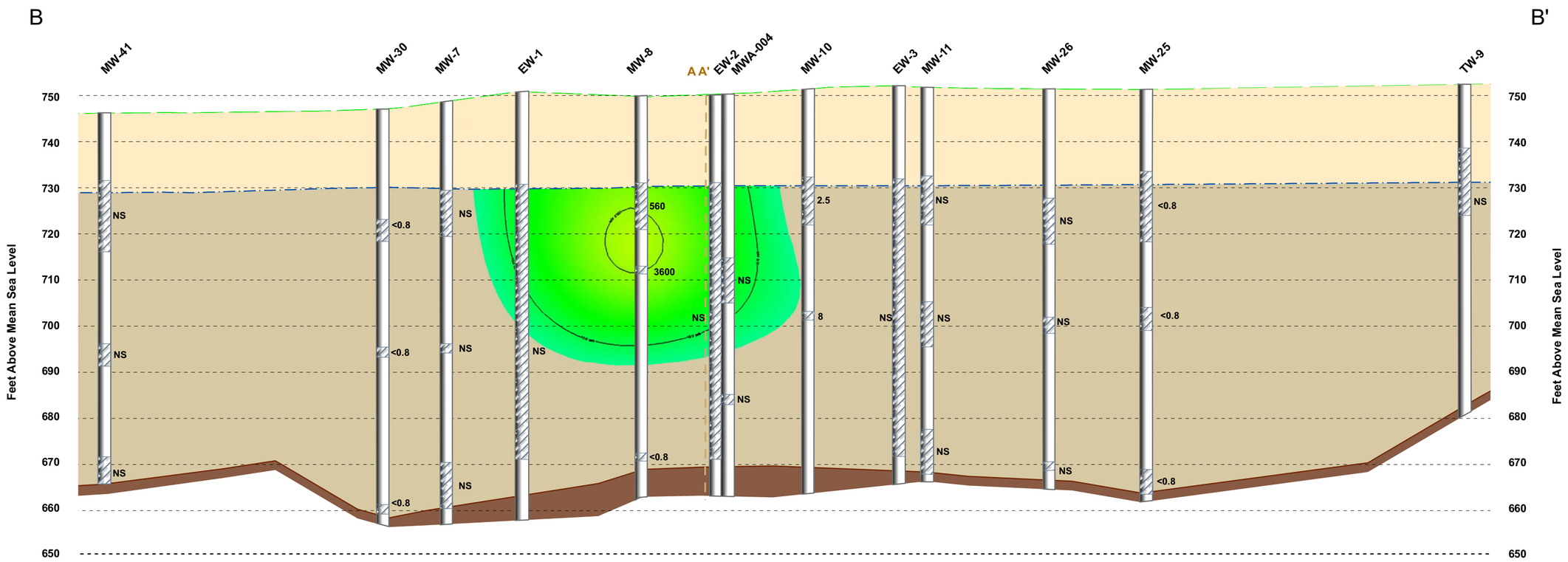
98809

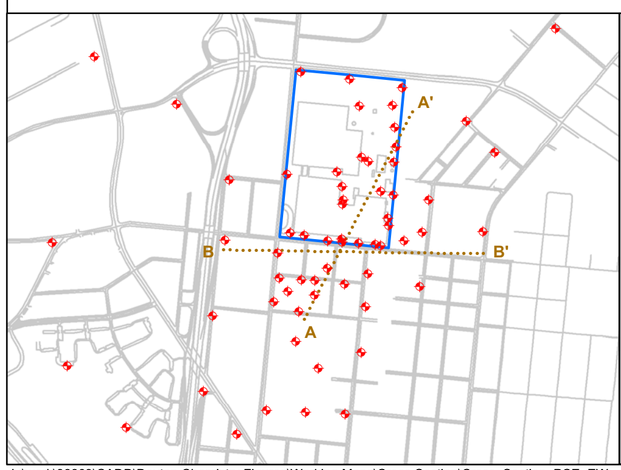
Figure 39

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 9,900

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

PCE in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 40

0 500
Feet

AECOM

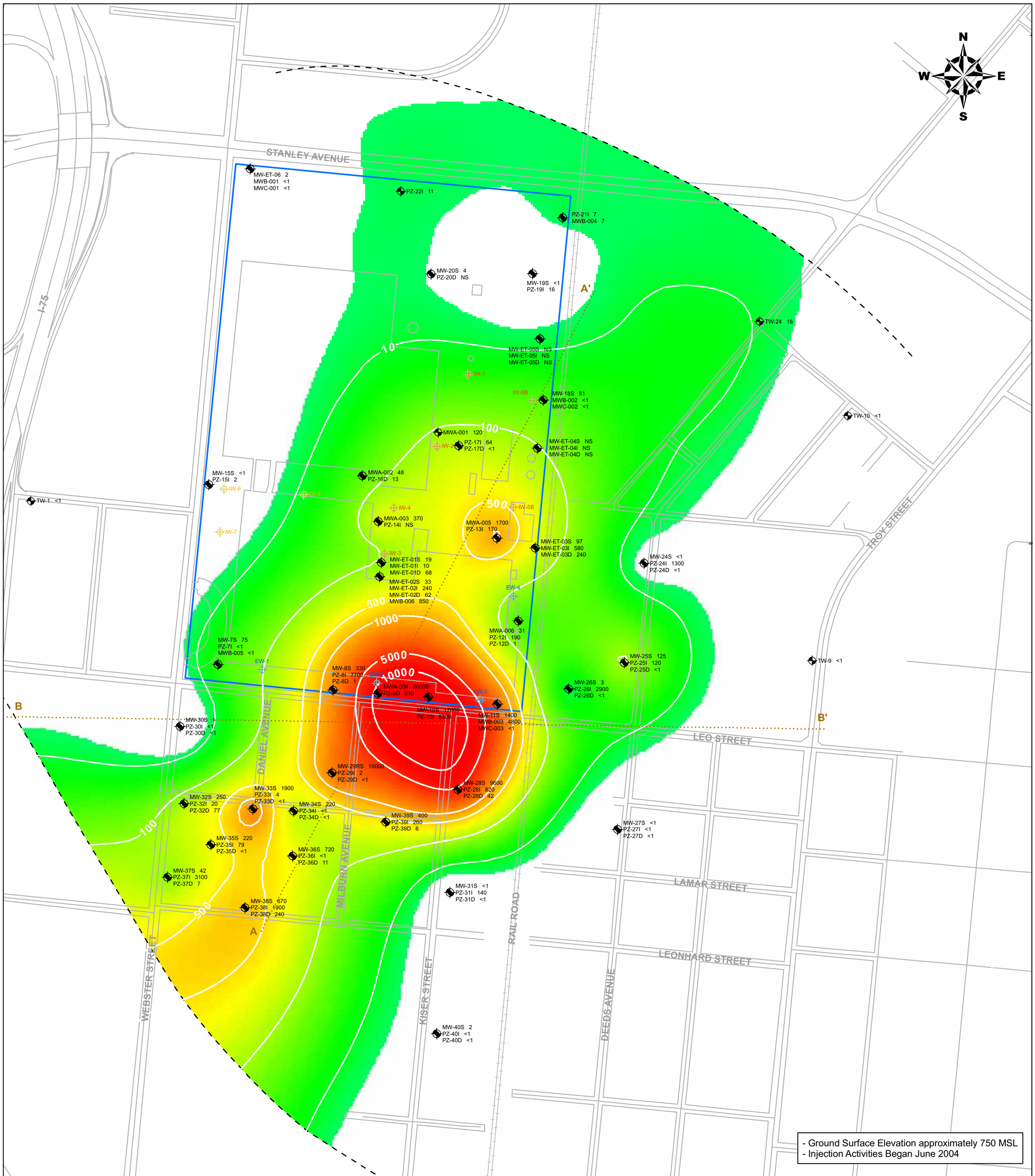
L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_PCE_EW

Figures 41 through 55

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 41

0 Feet 1,000

AECOM

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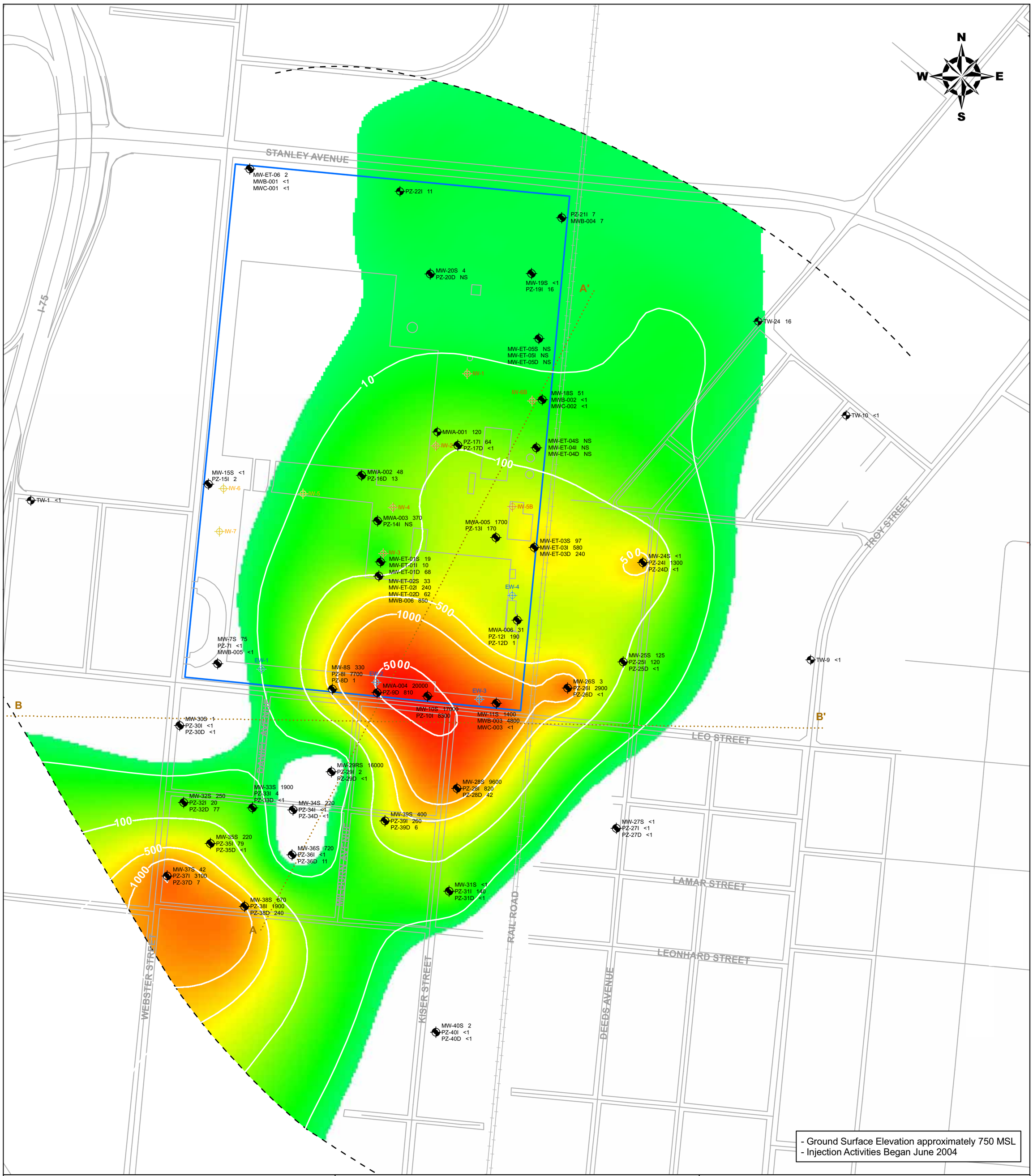


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 42

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCE.mxd

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

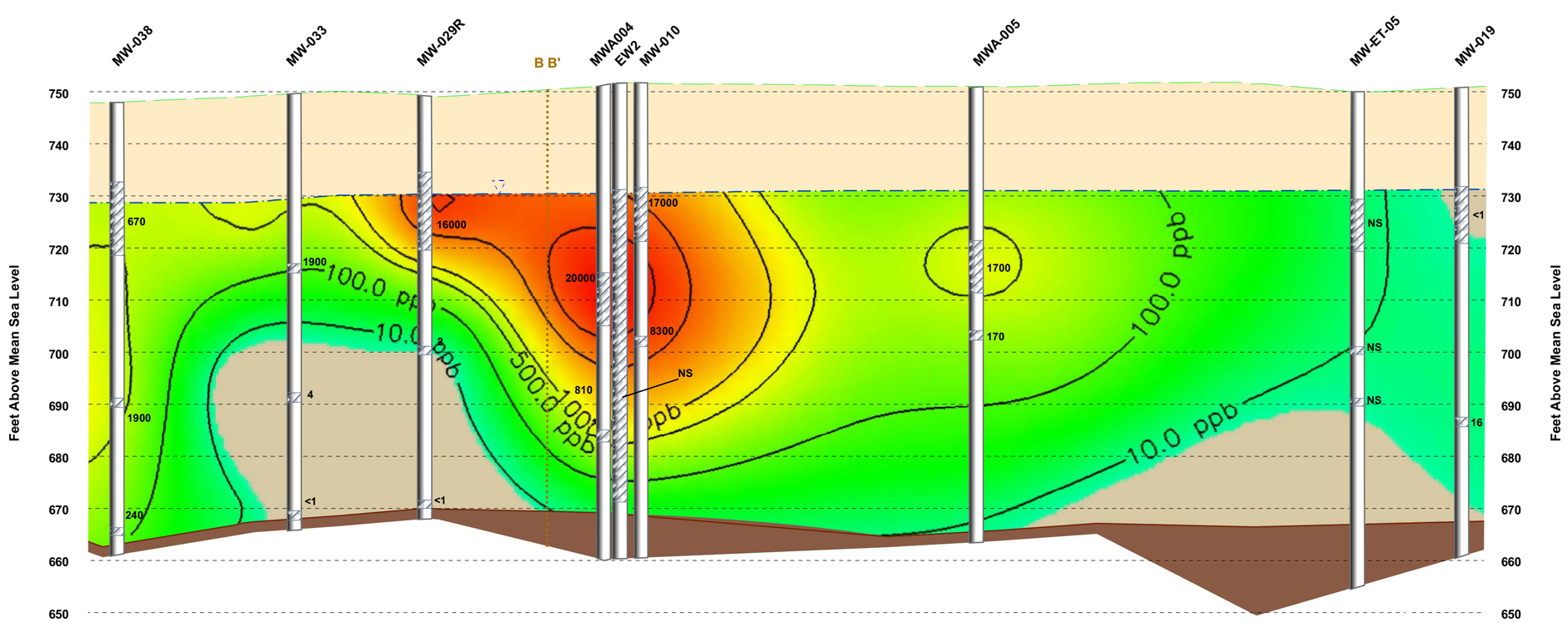
January 2009 98809

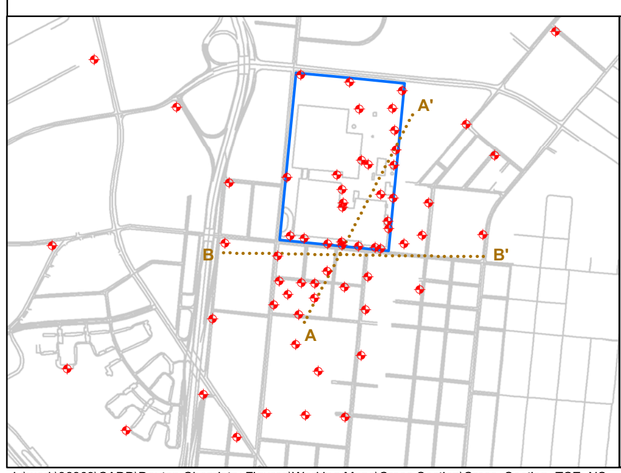
Figure 43

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCE.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5 20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

TCE in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

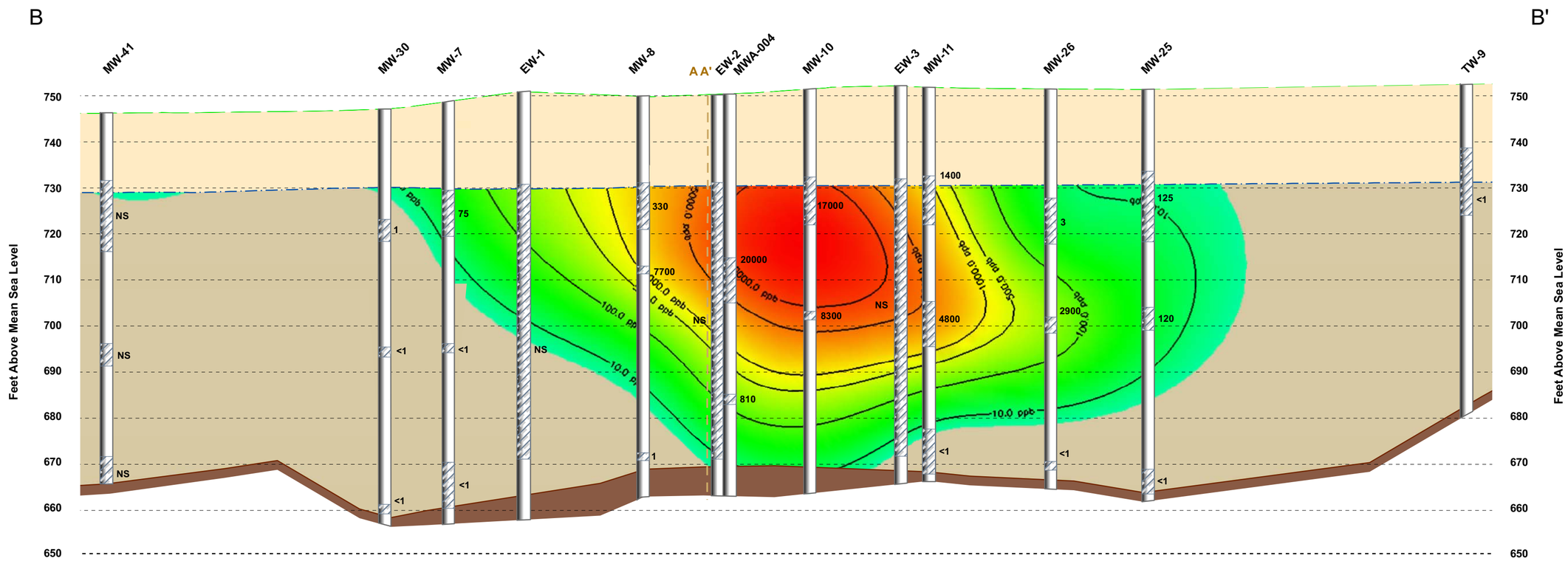
January 2009 98809

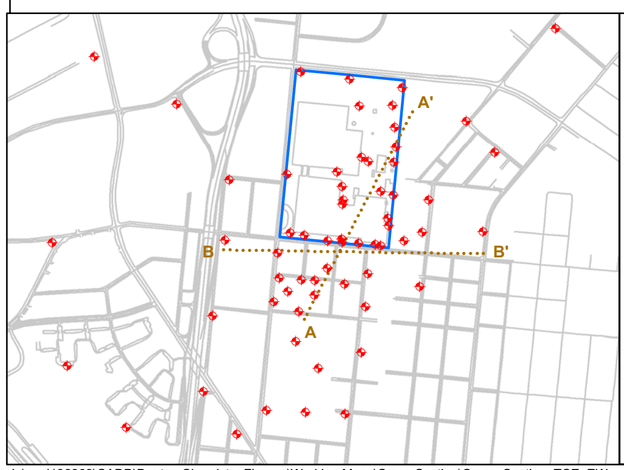
Figure 44

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCE in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

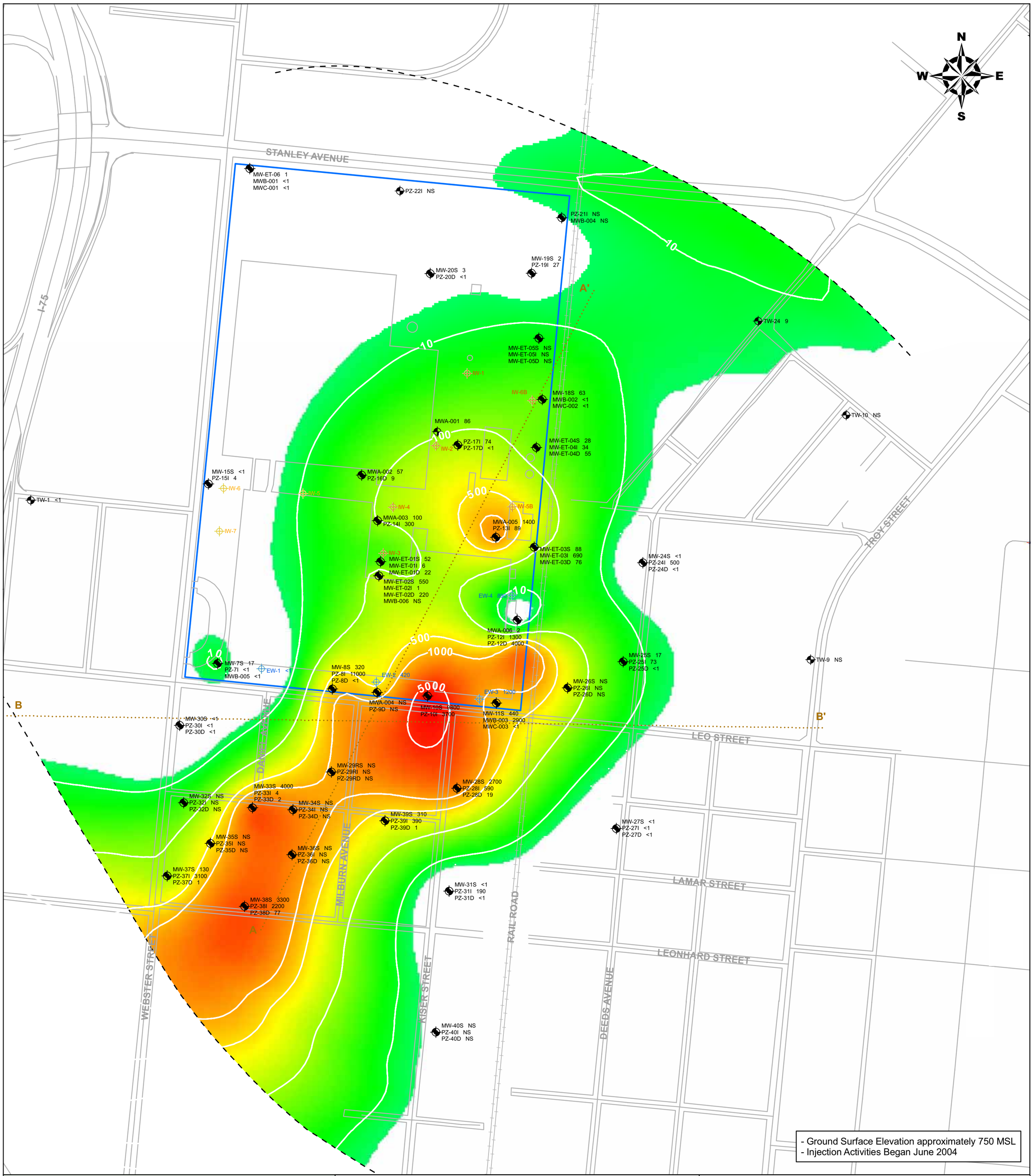
January 2009 98809

Figure 45

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCE_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

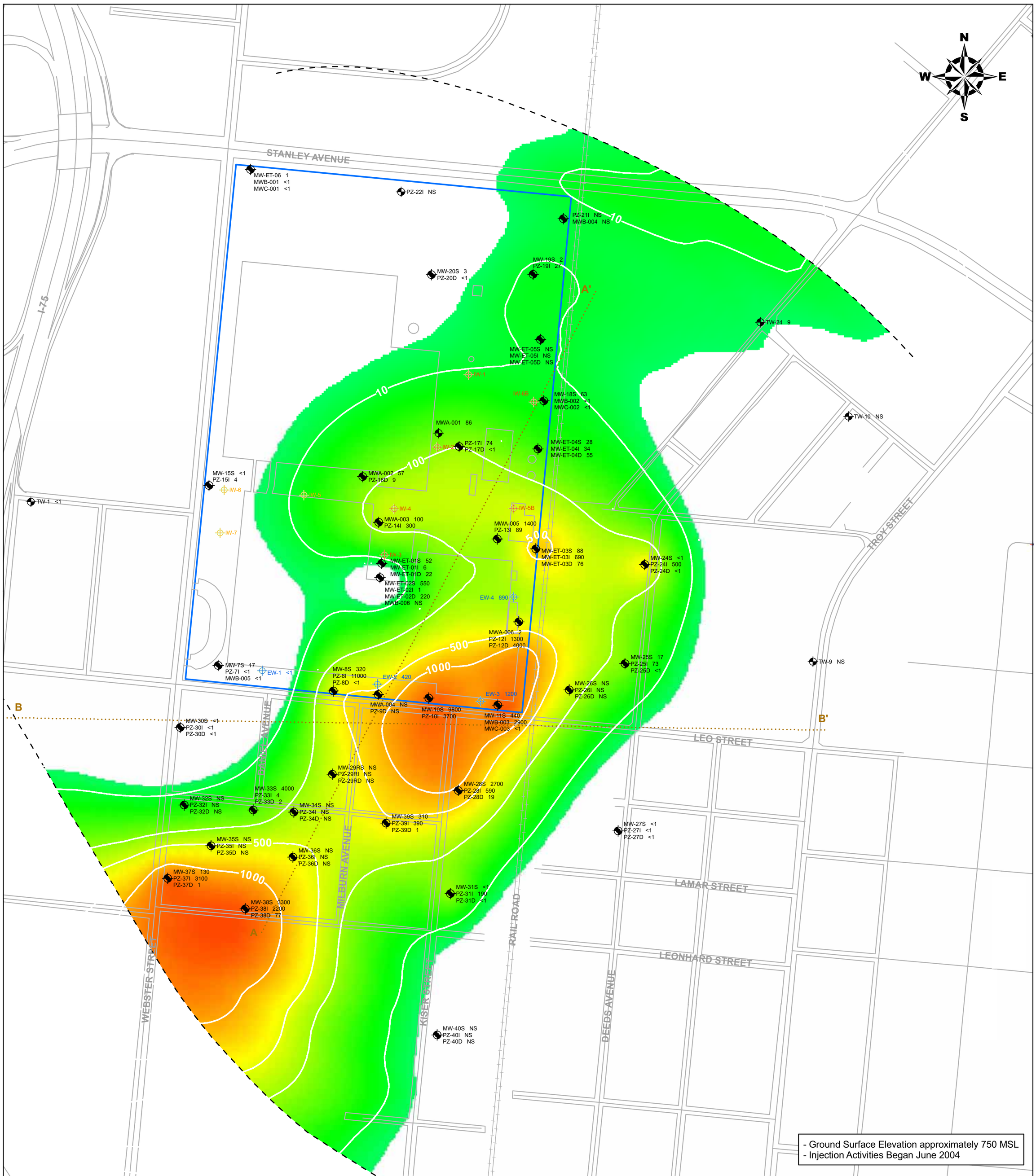
January 2009 98809

Figure 46

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

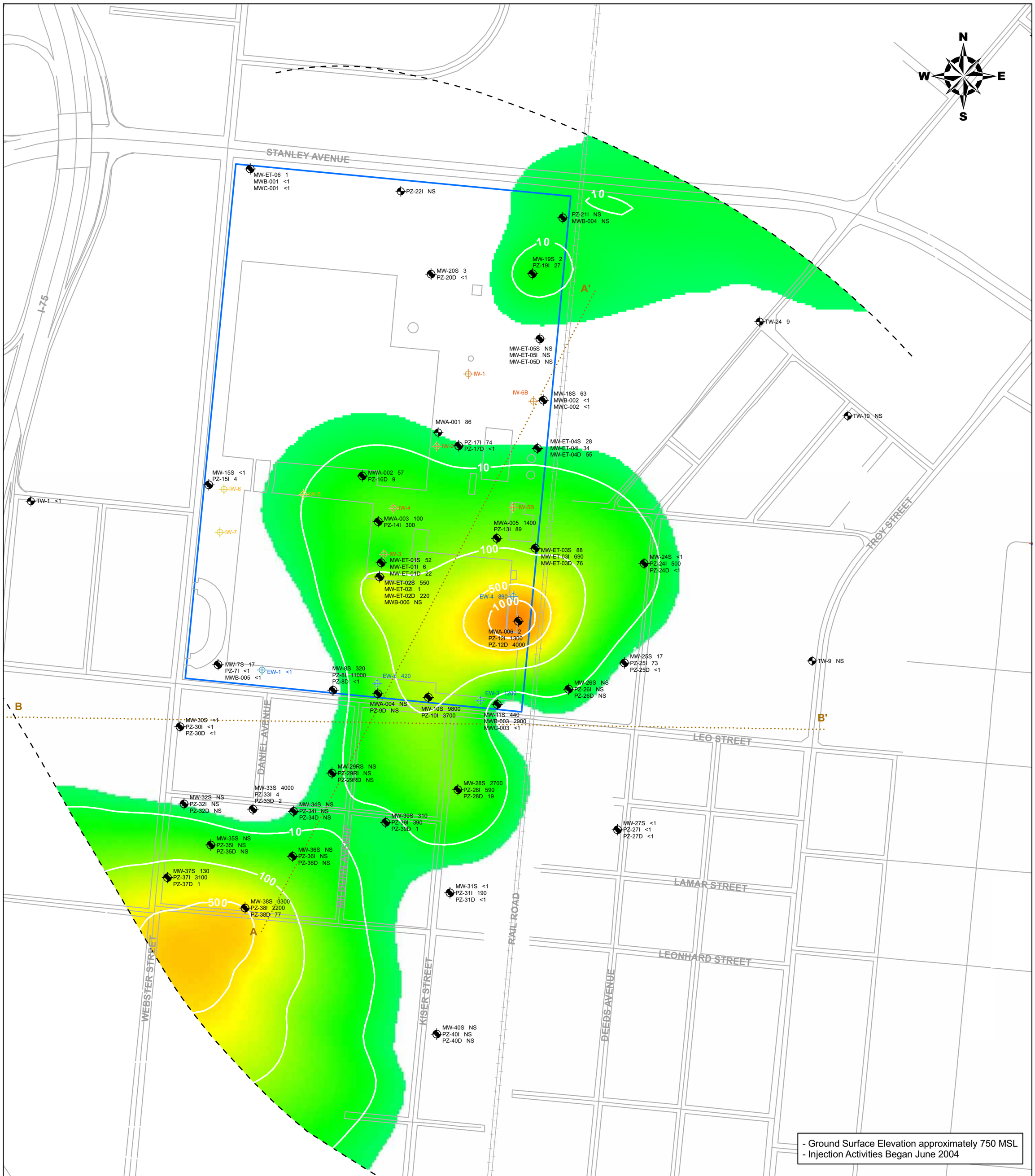
January 2009 — 98809

Figure 47

0 — Feet — 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 48

0 Feet 1,000

AECOM

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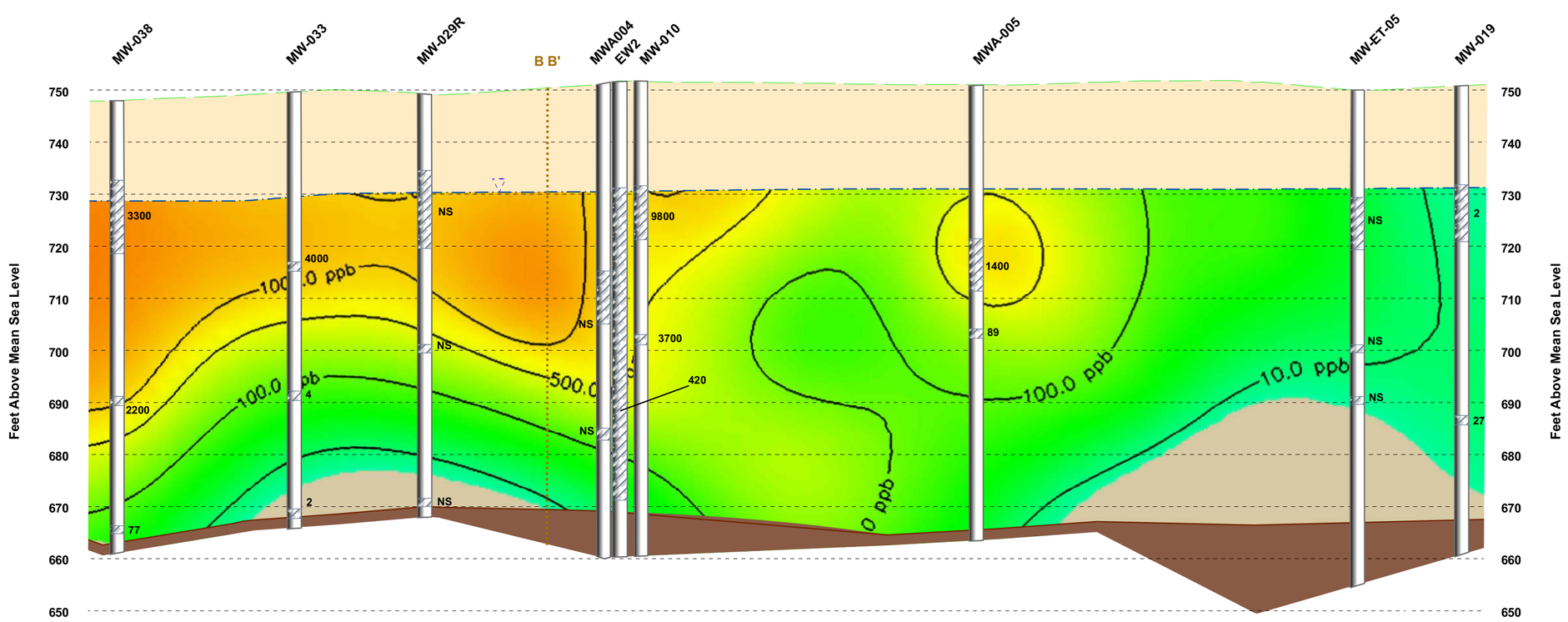

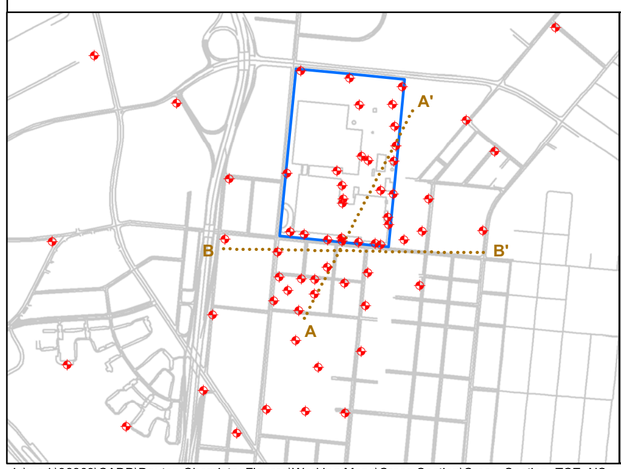

Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCE in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 49

0 500
Feet

AECOM

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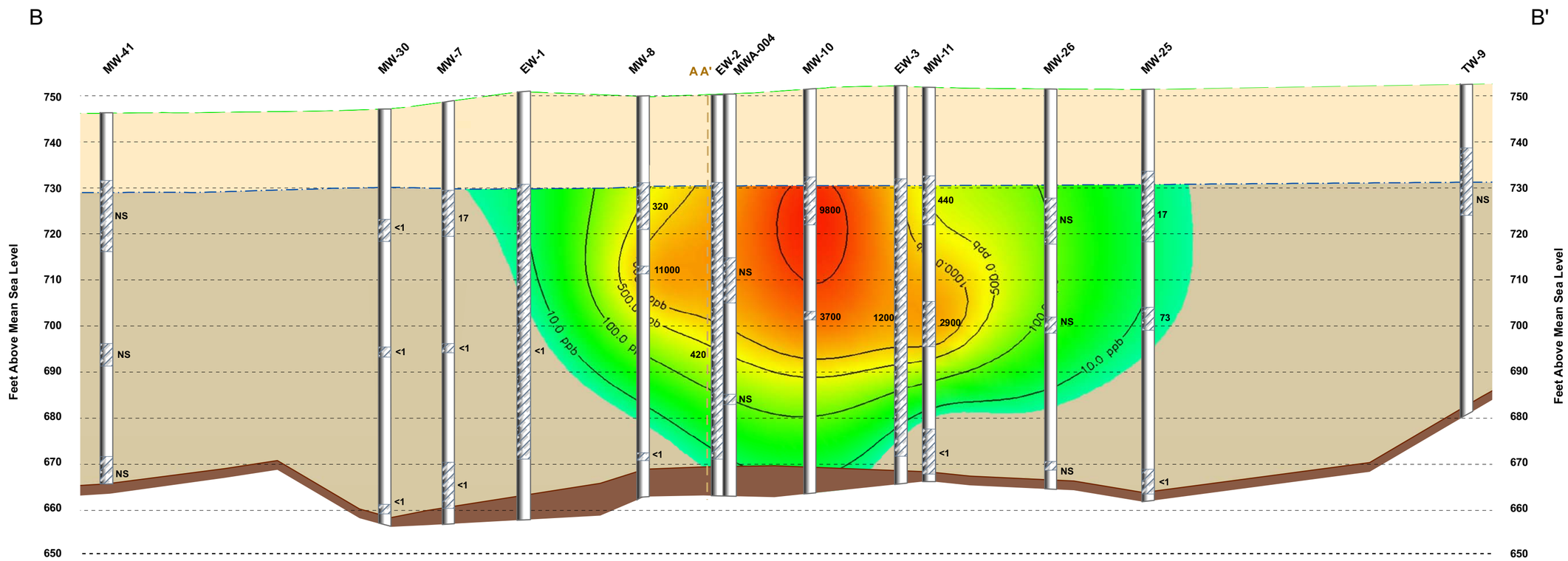

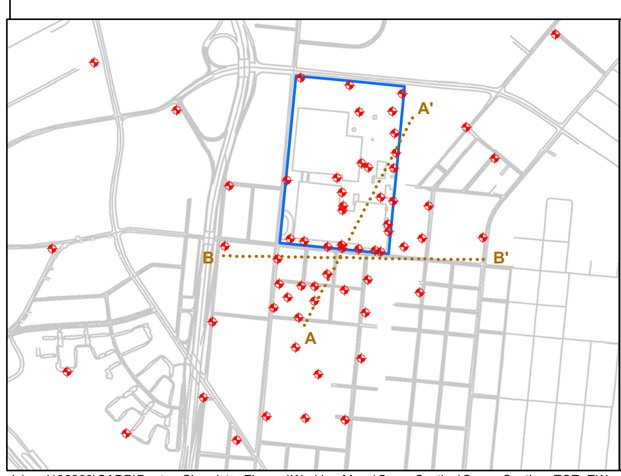

Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCE in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 50

0 500
Feet

AECOM

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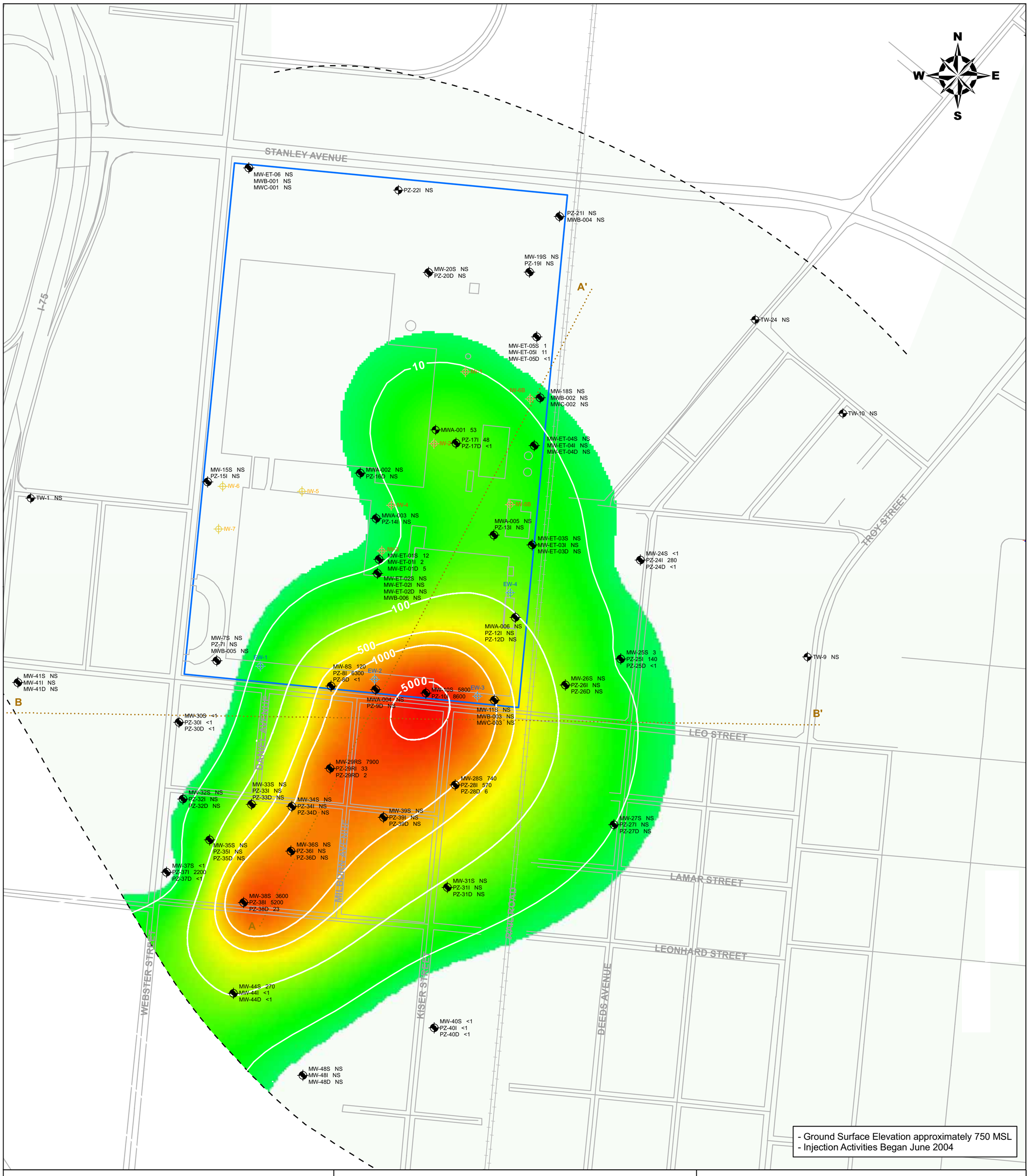

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 51

0 Feet 1,000

AECOM

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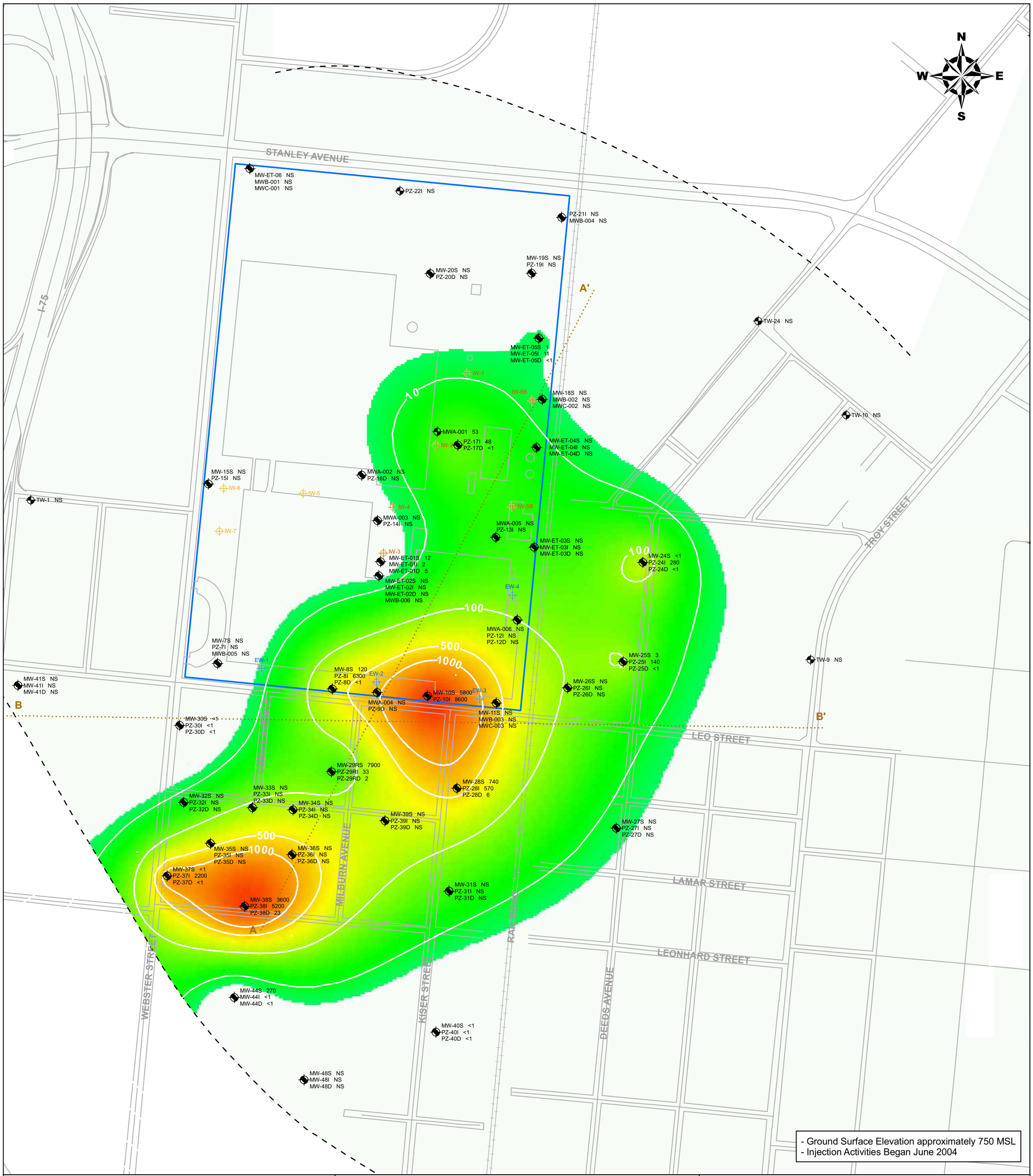

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 52

0 Feet 1,000

AECOM

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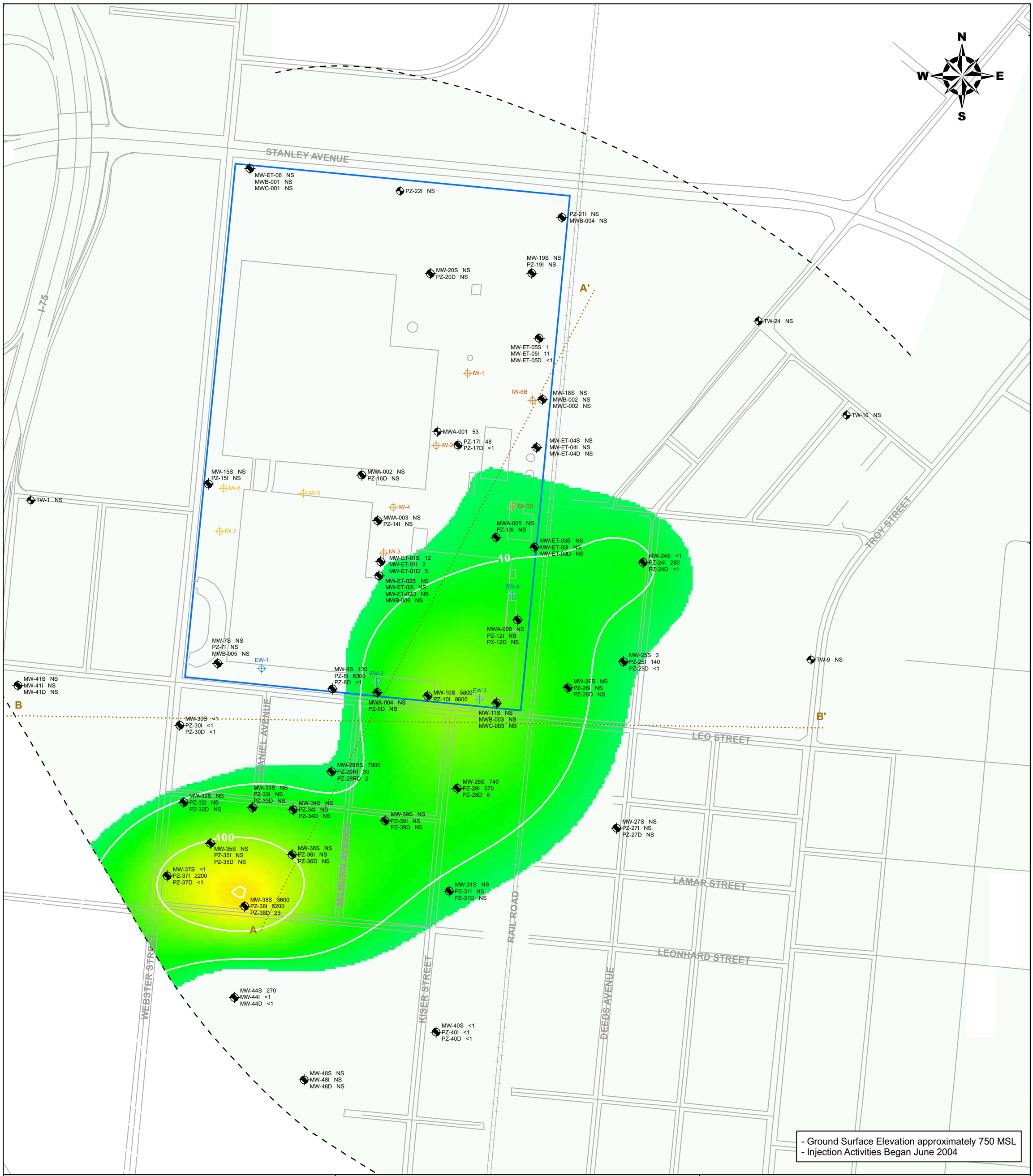

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 — 20,000

TCE in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 53

0 Feet 1,000

AECOM

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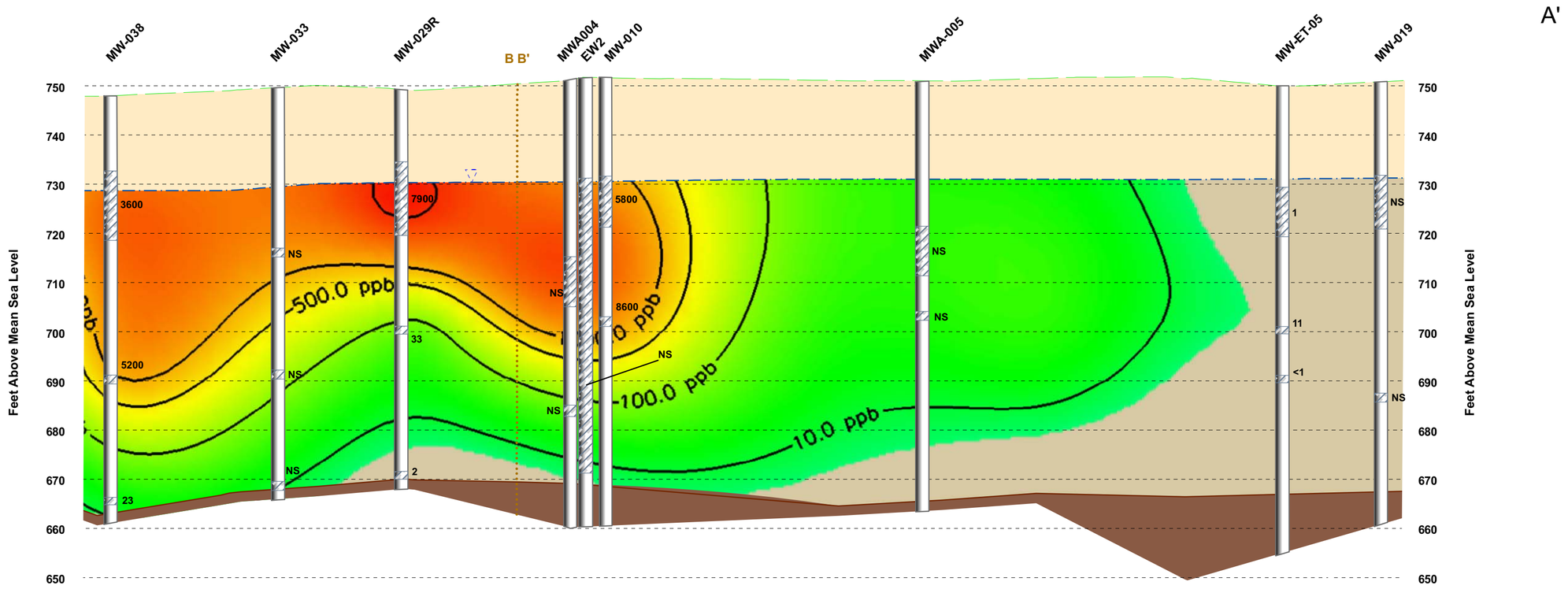


Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
5
20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

TCE in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

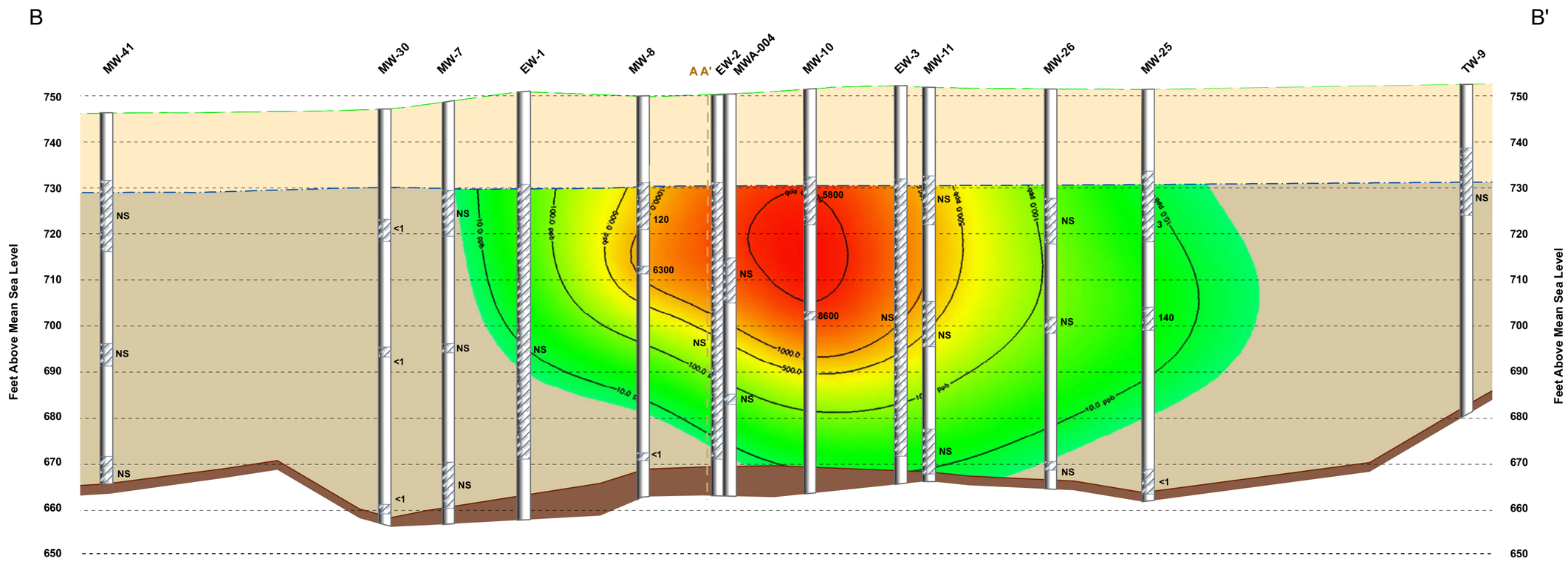
January 2009 98809

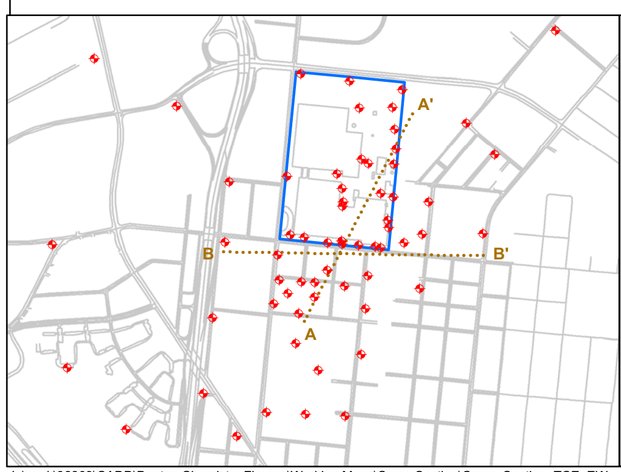
Figure 54

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5
20,000

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCE in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 55

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCE_EW

Figures 56 through 70

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 56

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_cDCE.mxd

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 57

0 Feet 1,000

AECOM

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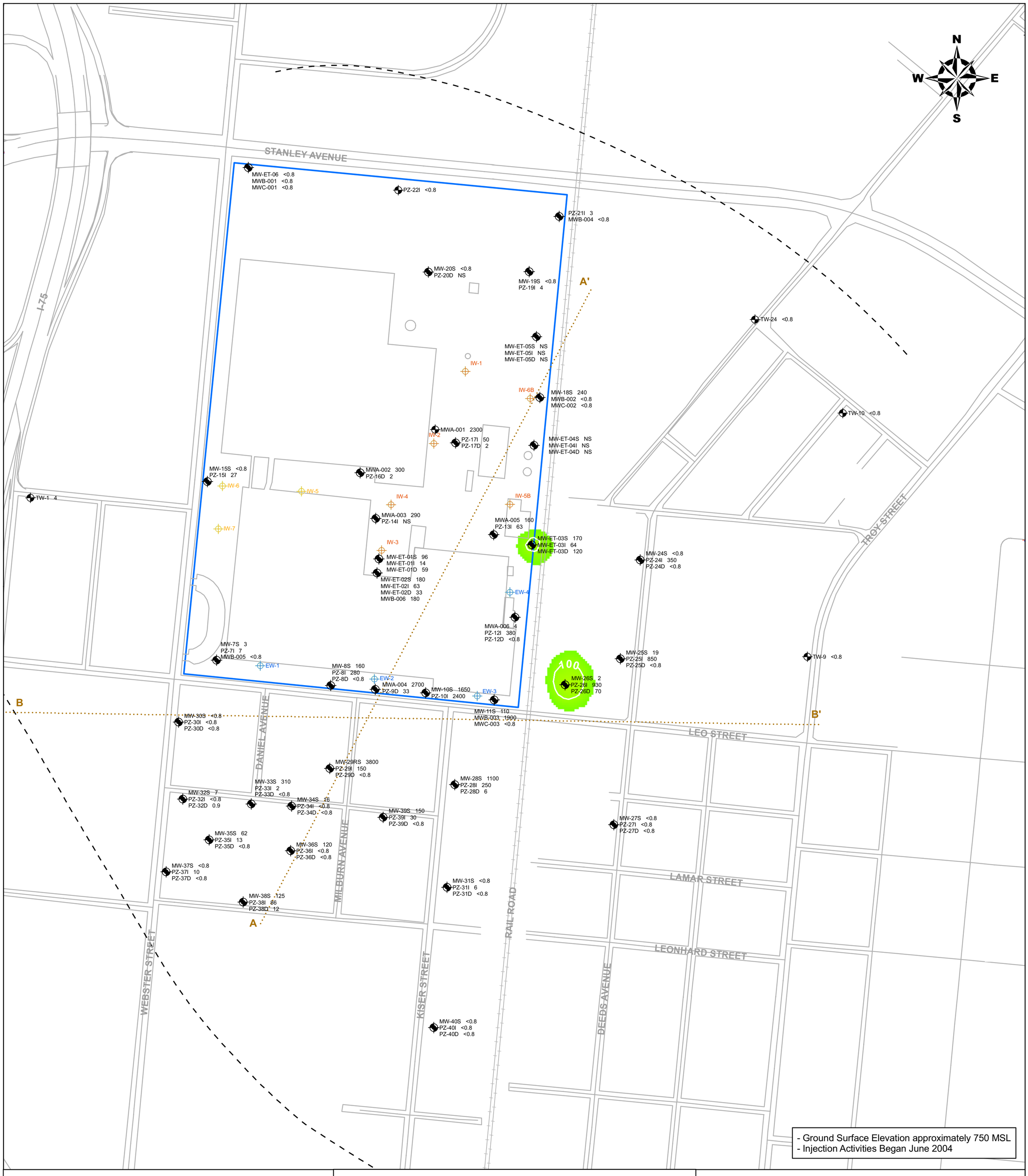

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 58

0 Feet 1,000

AECOM

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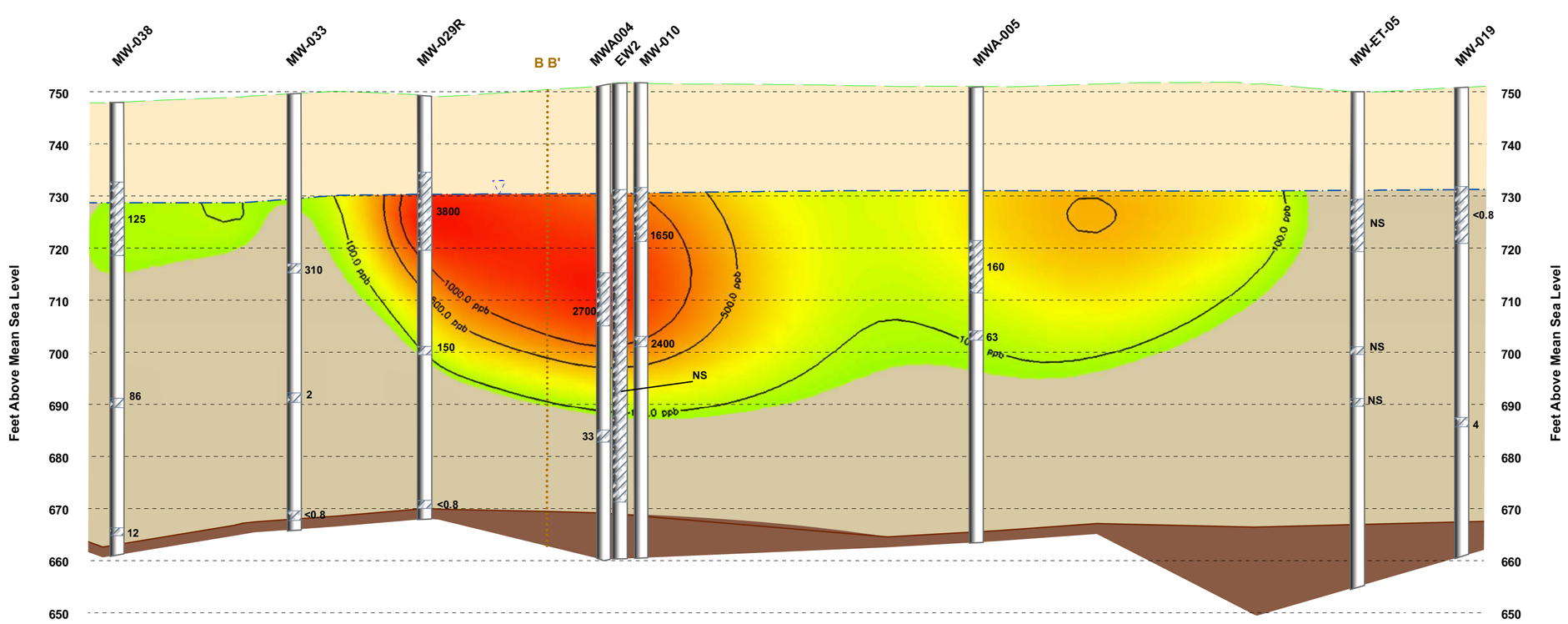

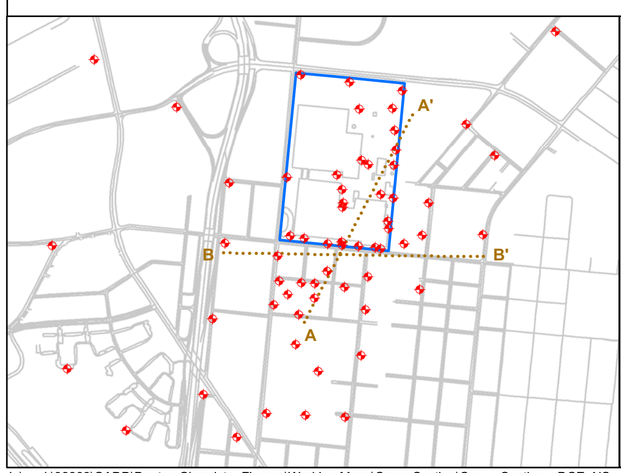

Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
70 8,200

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

cDCE in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 59

0 500
Feet

AECOM

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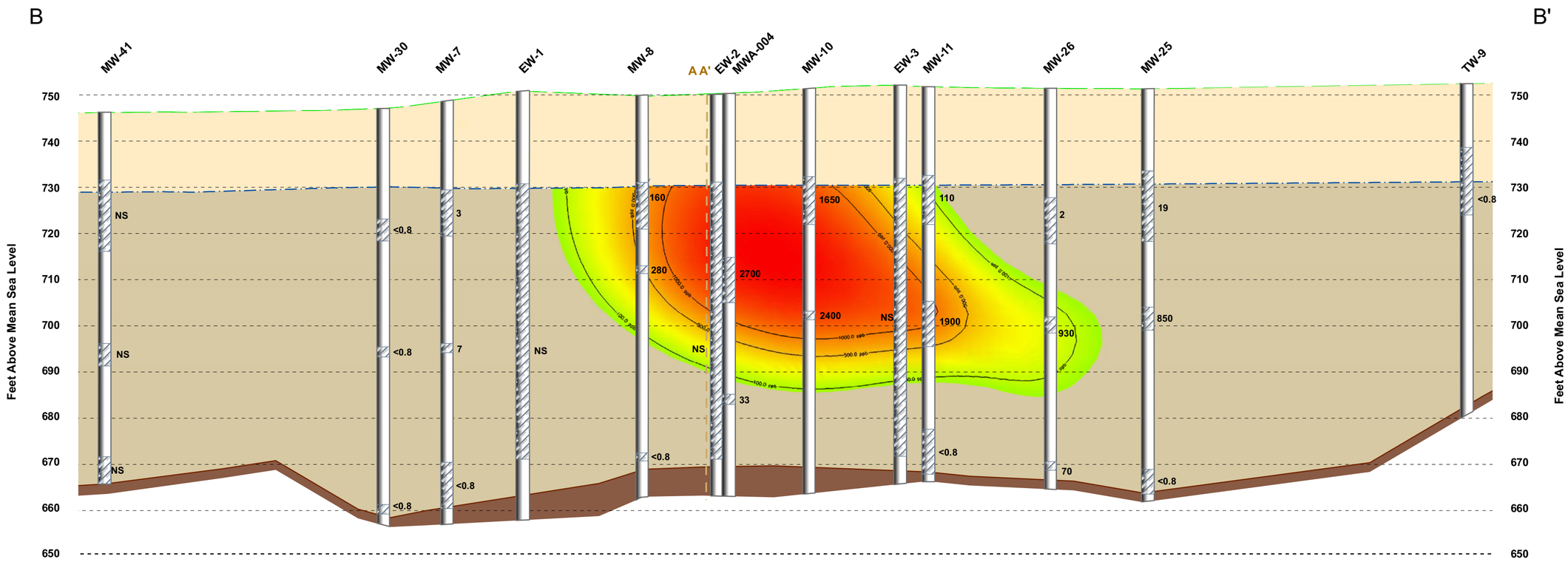

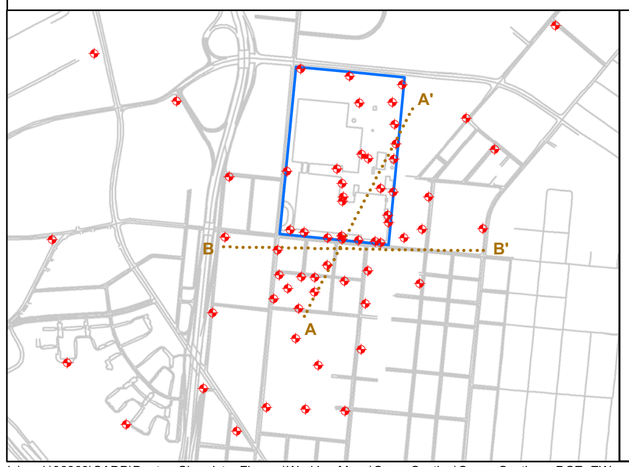

Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

A ..... A' Cross Section Location

Plume Concentration (ppb)

70 8,200

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

cDCE in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 60

0 500
Feet

AECOM

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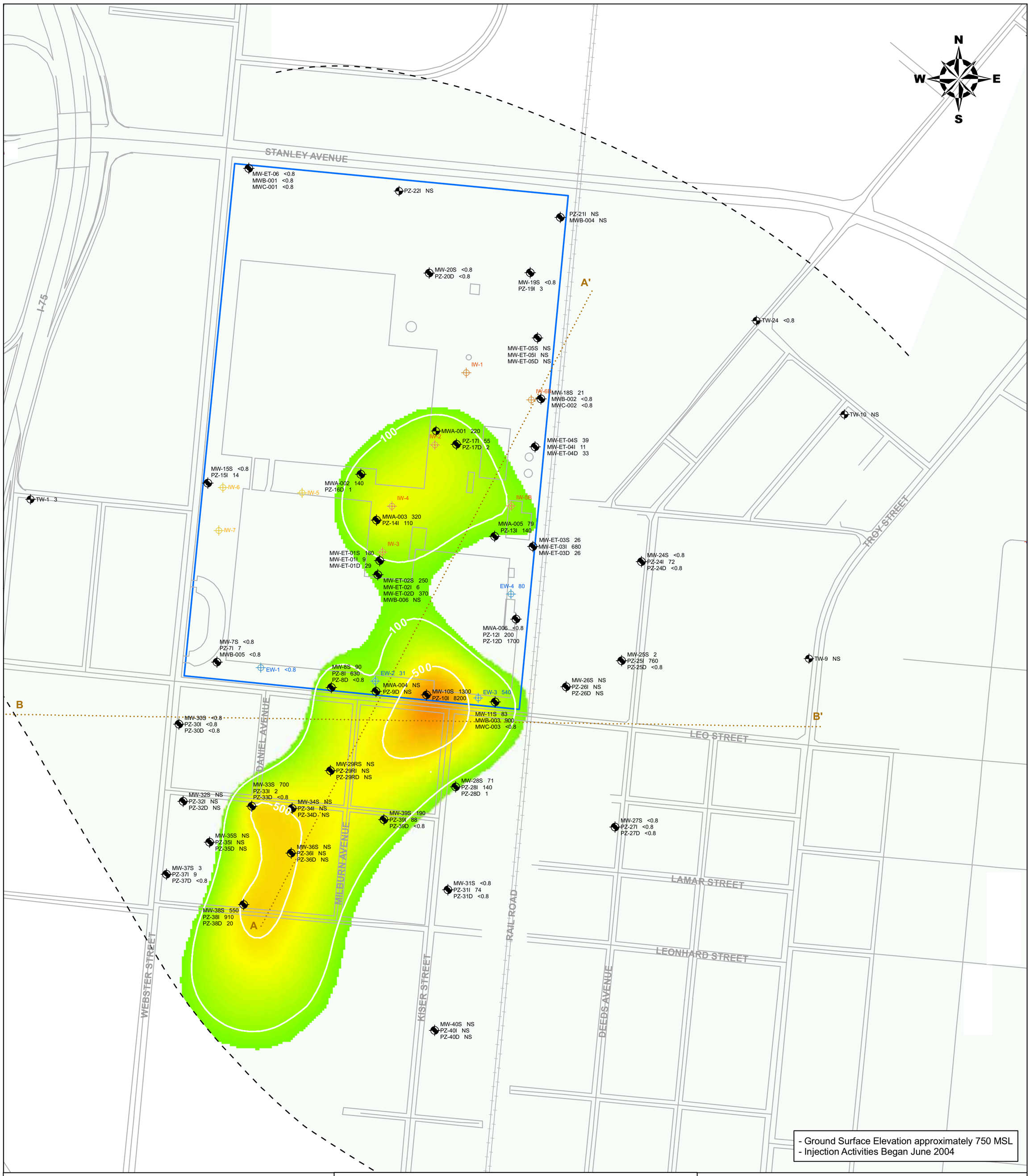

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 61

0 Feet 1,000

AECOM

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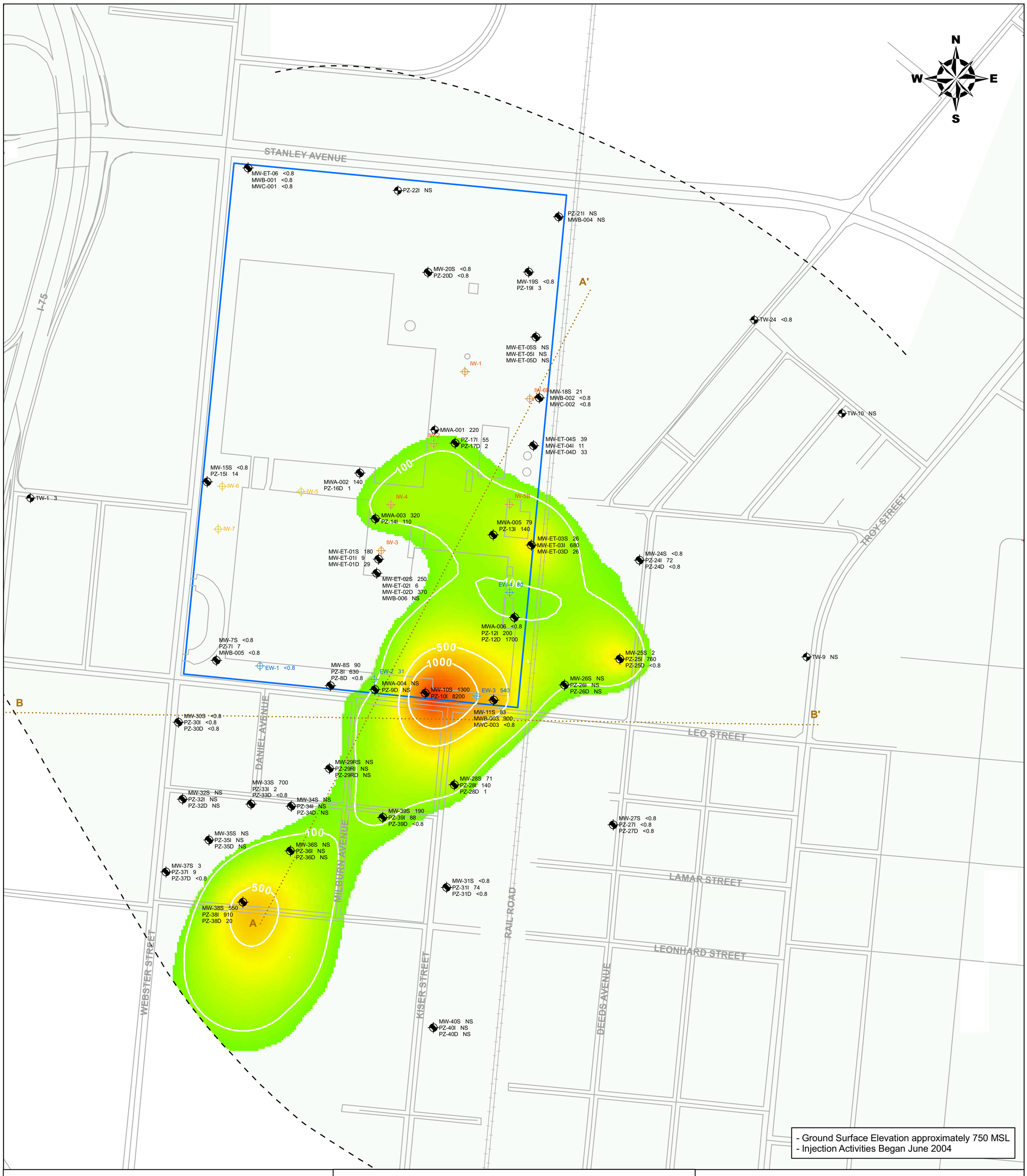


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 62

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_cDCE.mxd

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

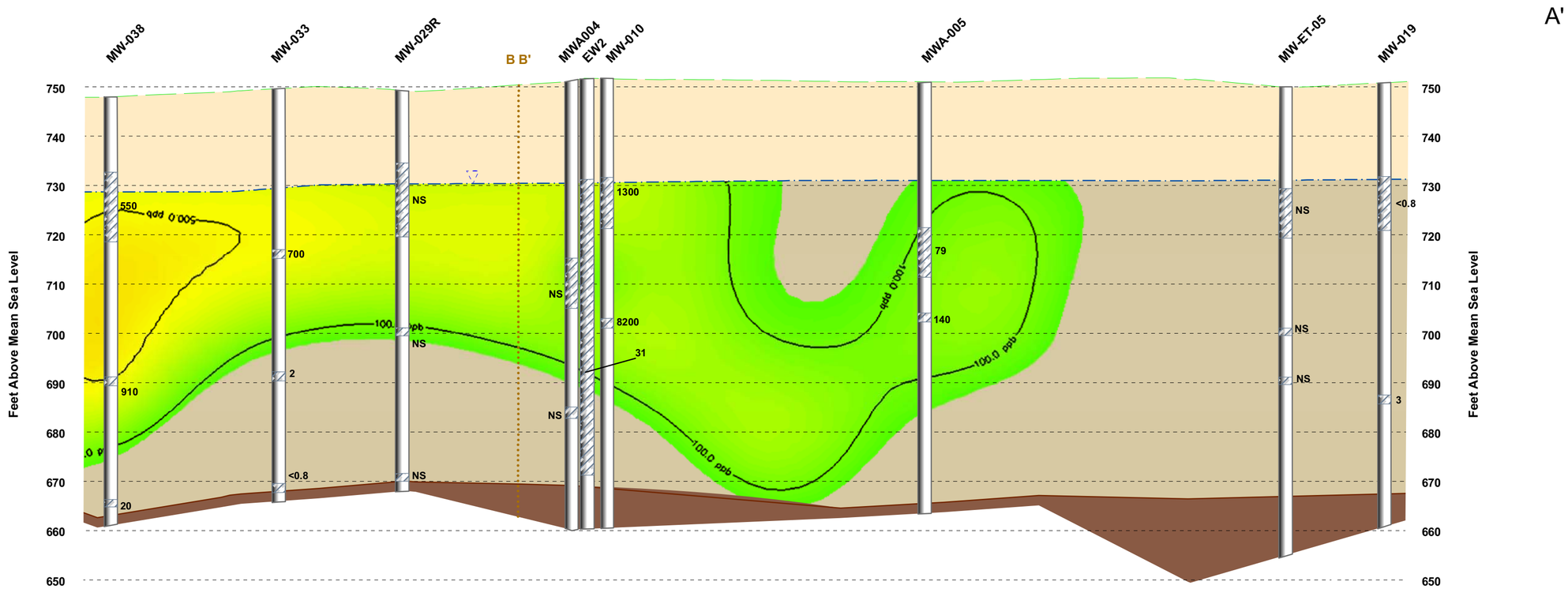
January 2009 98809

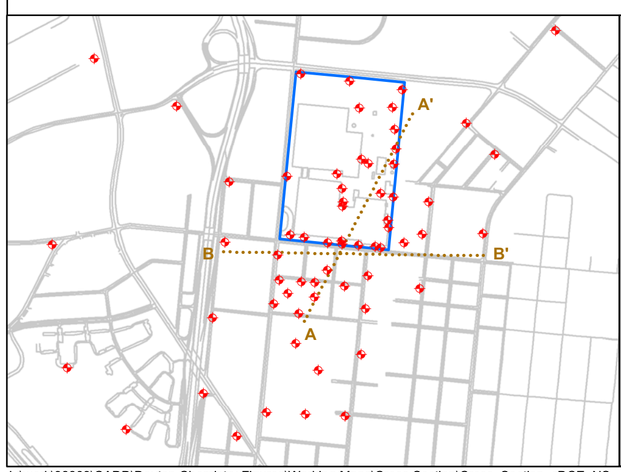
Figure 63

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_cDCE.mxd





Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

B ..... B' Cross Section Location

70 — 8,200 Plume Concentration (ppb)

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

cDCE in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 64

0 500 Feet

AECOM

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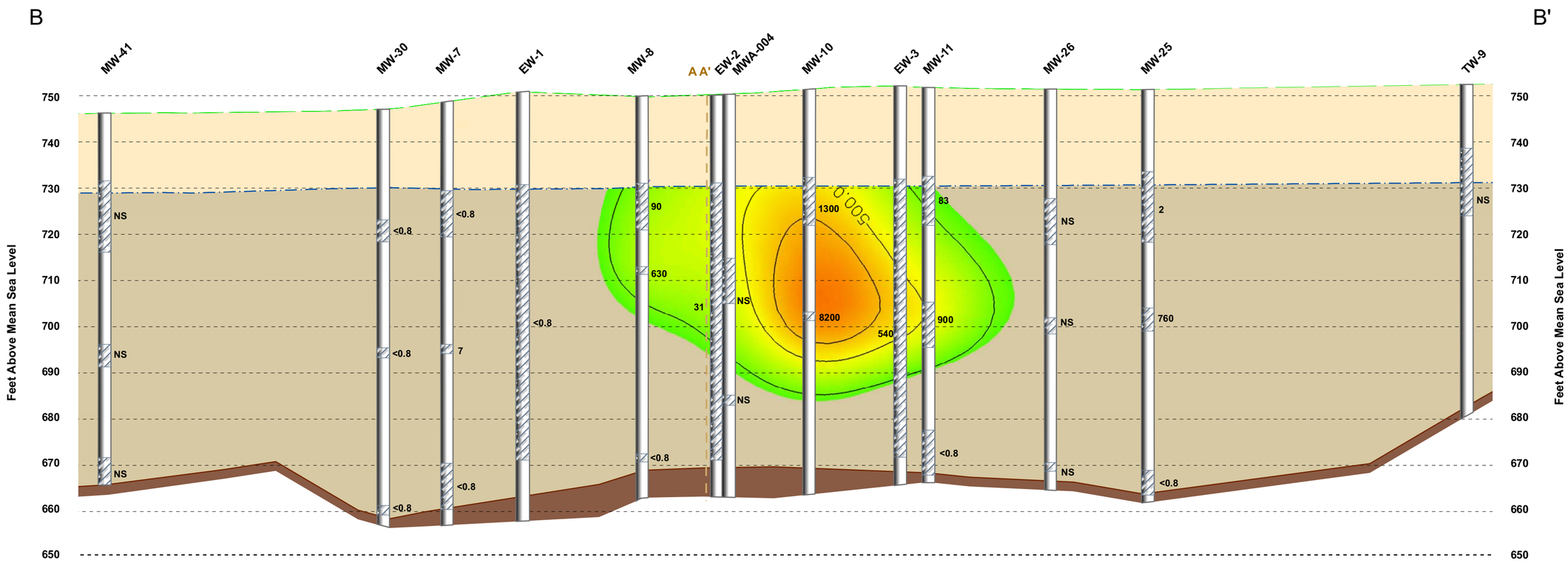

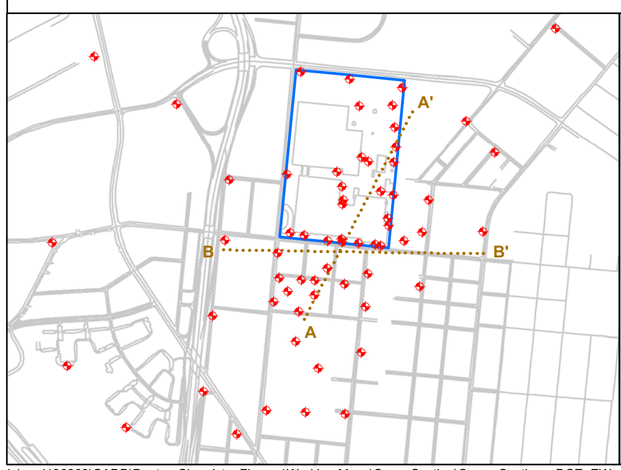

Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
70
8,200

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

cDCE in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 65

0 500
Feet

AECOM

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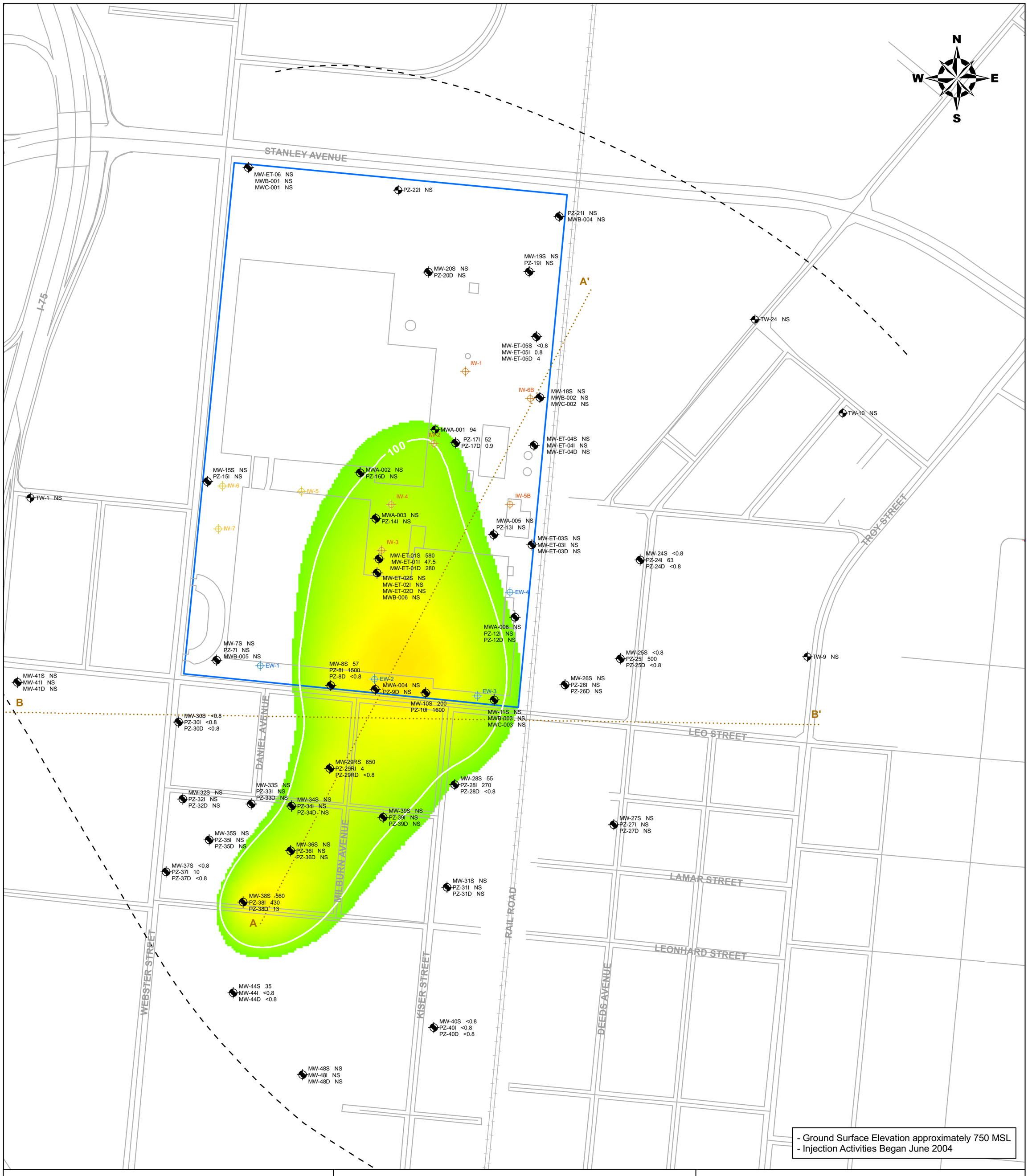

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 66

0 Feet 1,000

AECOM

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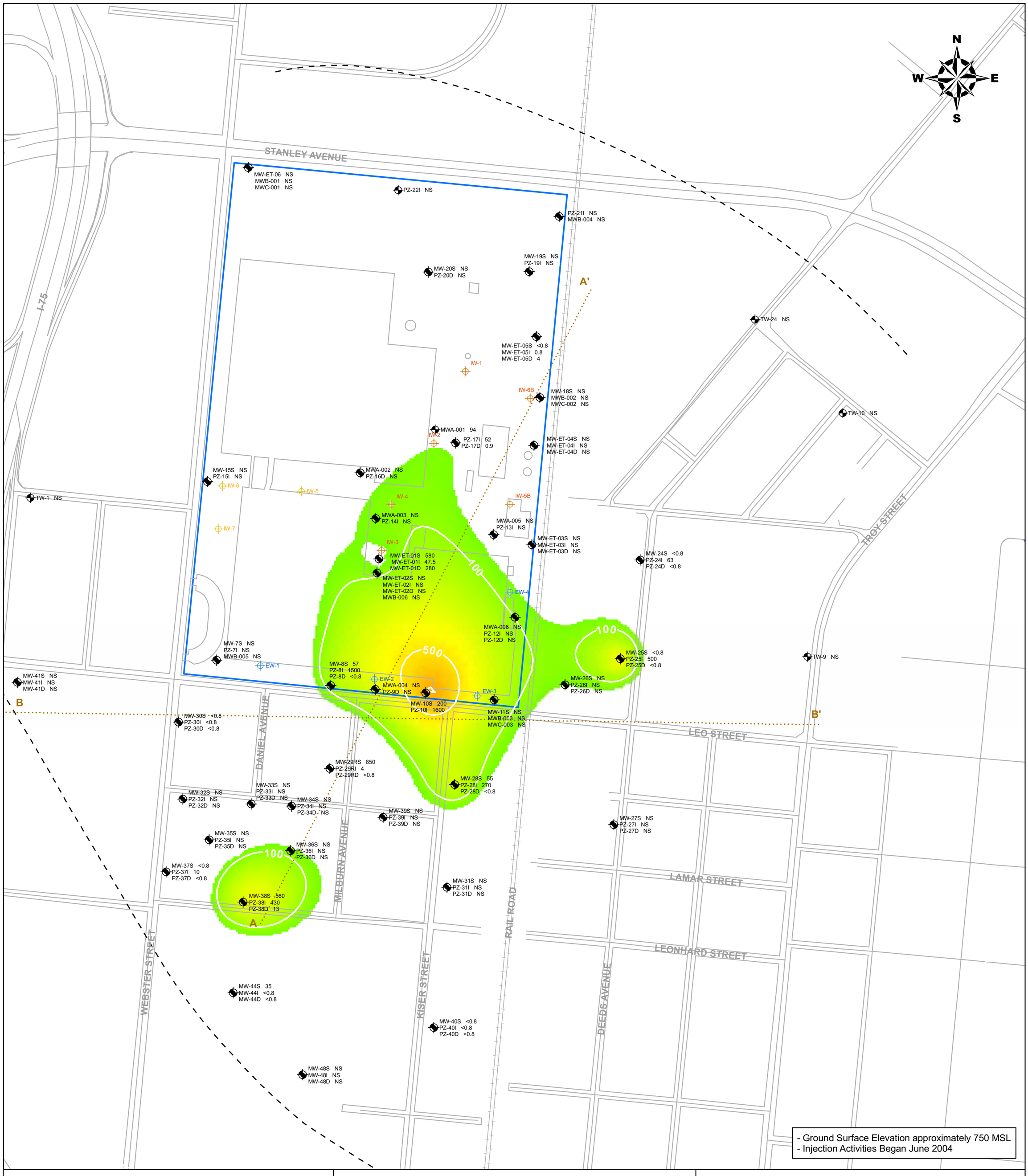

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 67

0 Feet 1,000

AECOM

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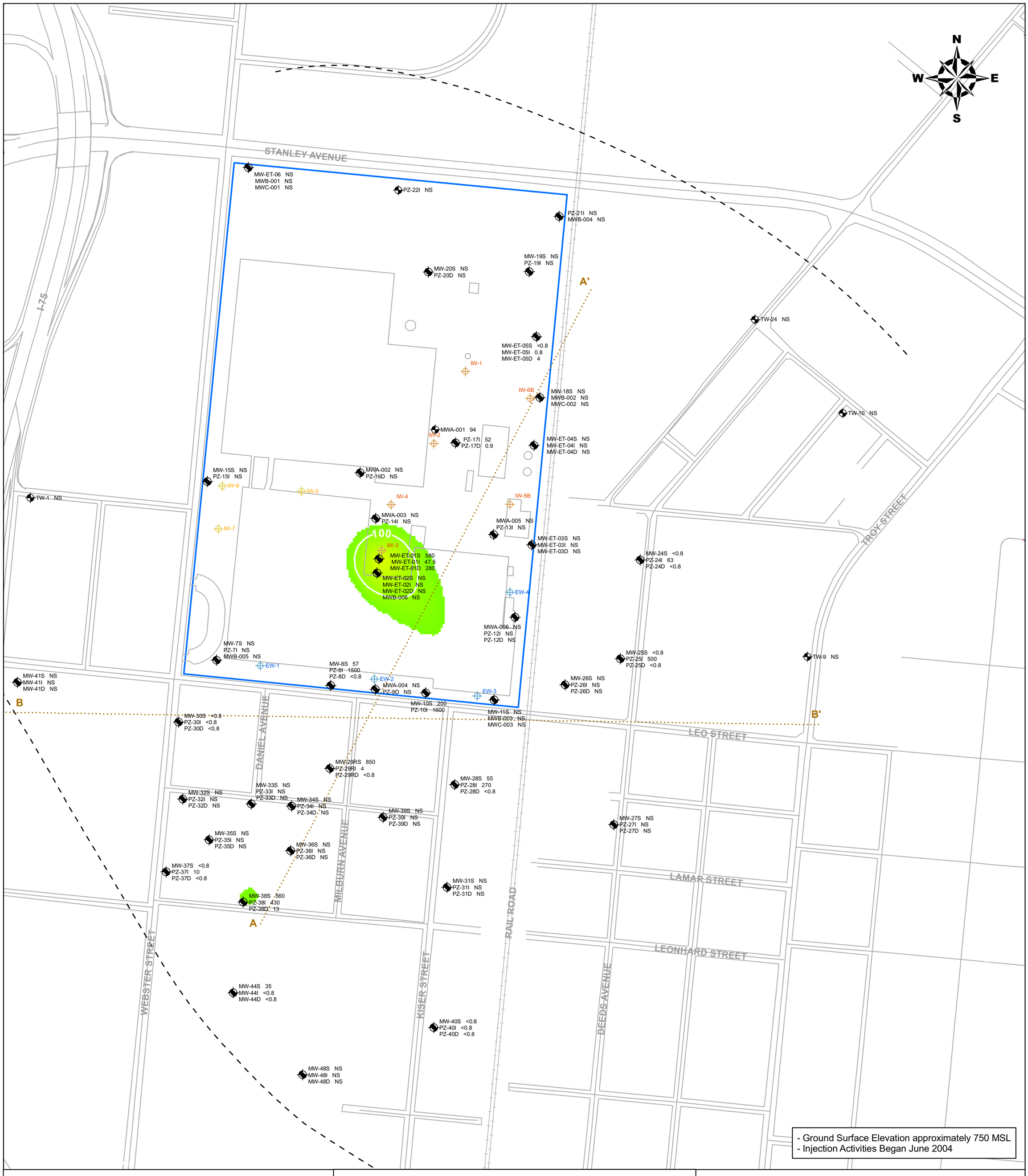


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
70 8,200

cDCE in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

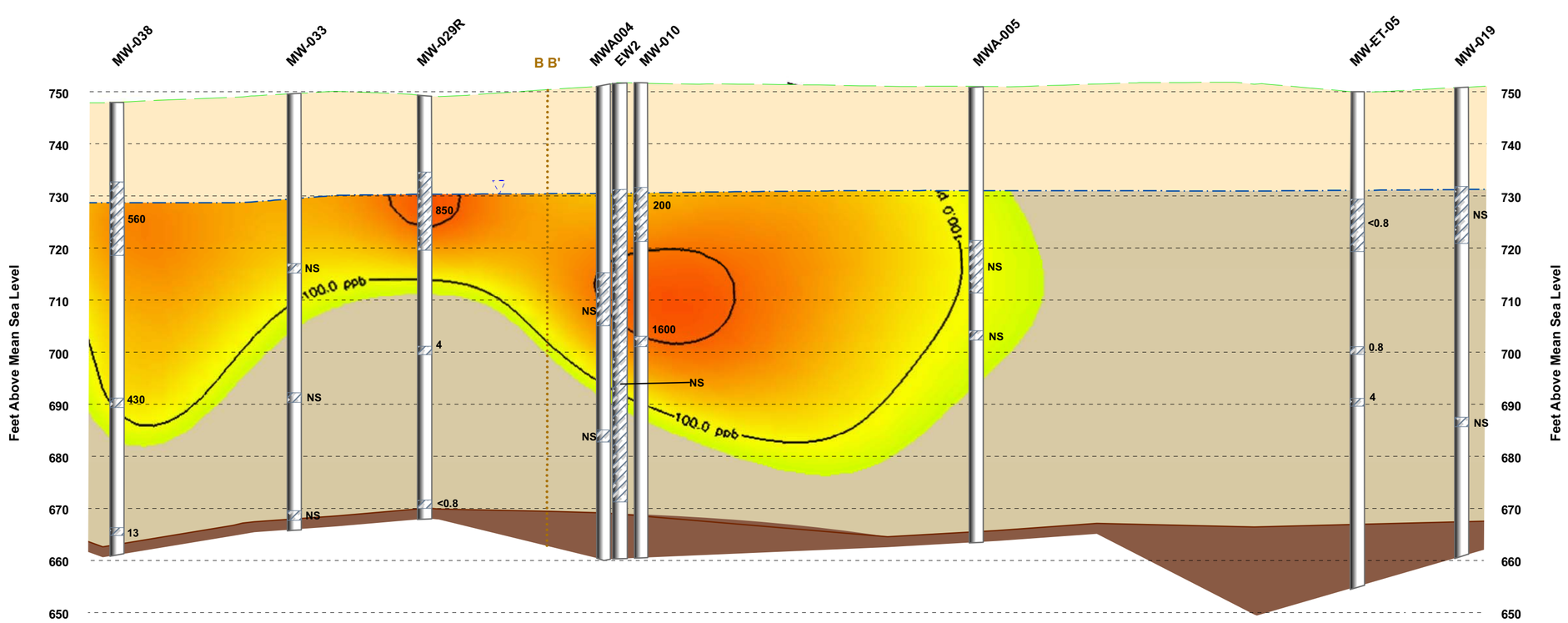
January 2009 98809

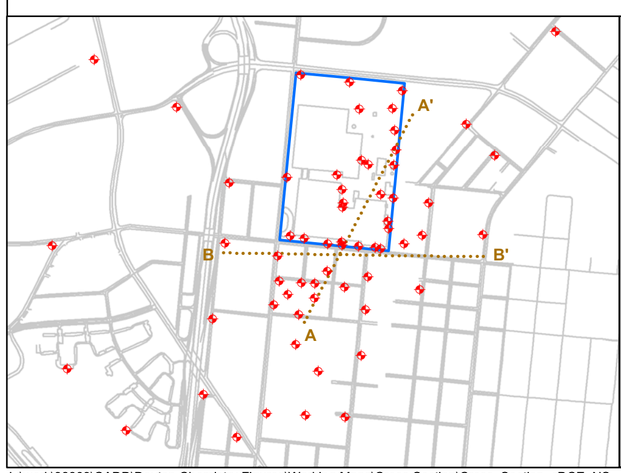
Figure 68

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_cDCE.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
70
8,200

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

cDCE in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009

98809

Figure 69

0 500
Feet

AECOM

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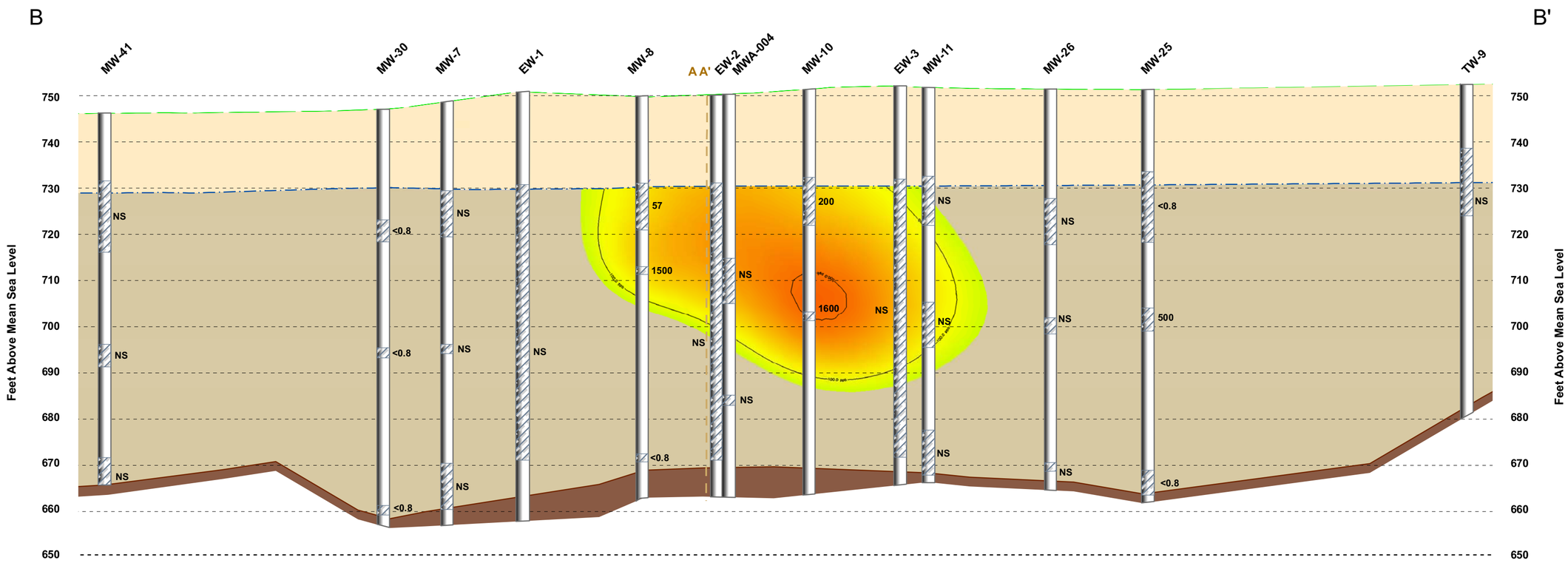
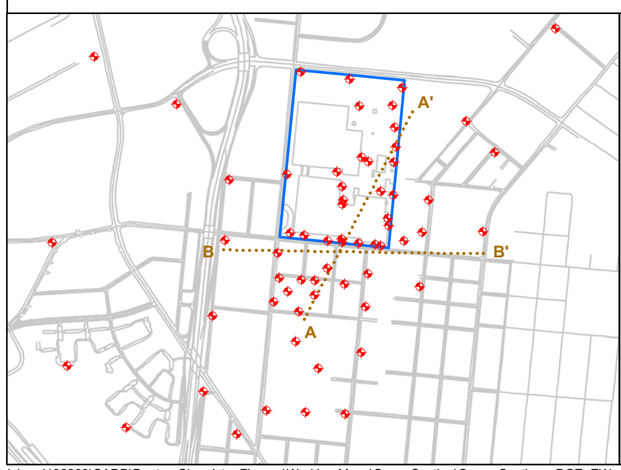




Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
70
8,200

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

cDCE in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 70

0 500
Feet

AECOM

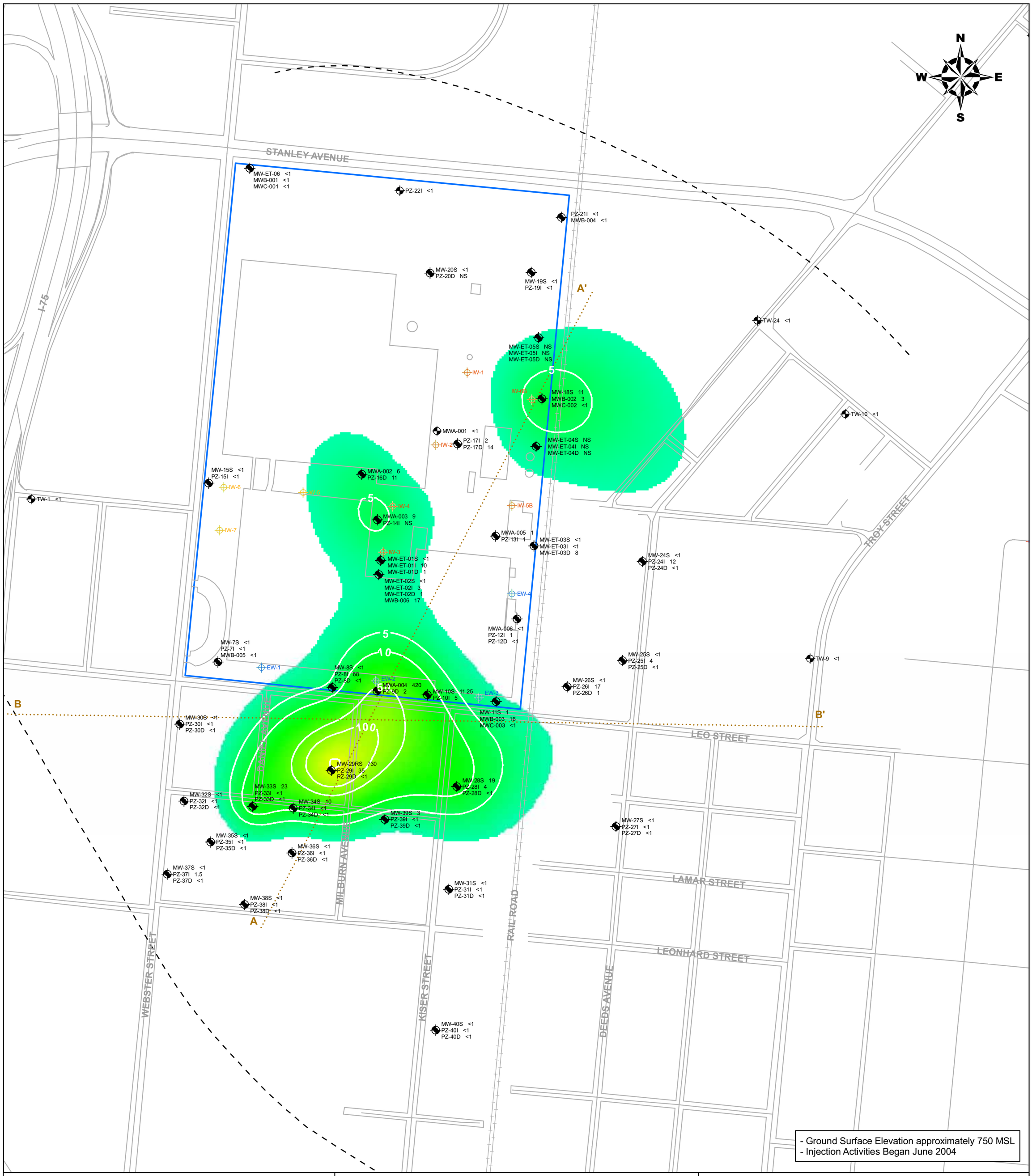
L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_cDCE_EW

Figures 71 through 85

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

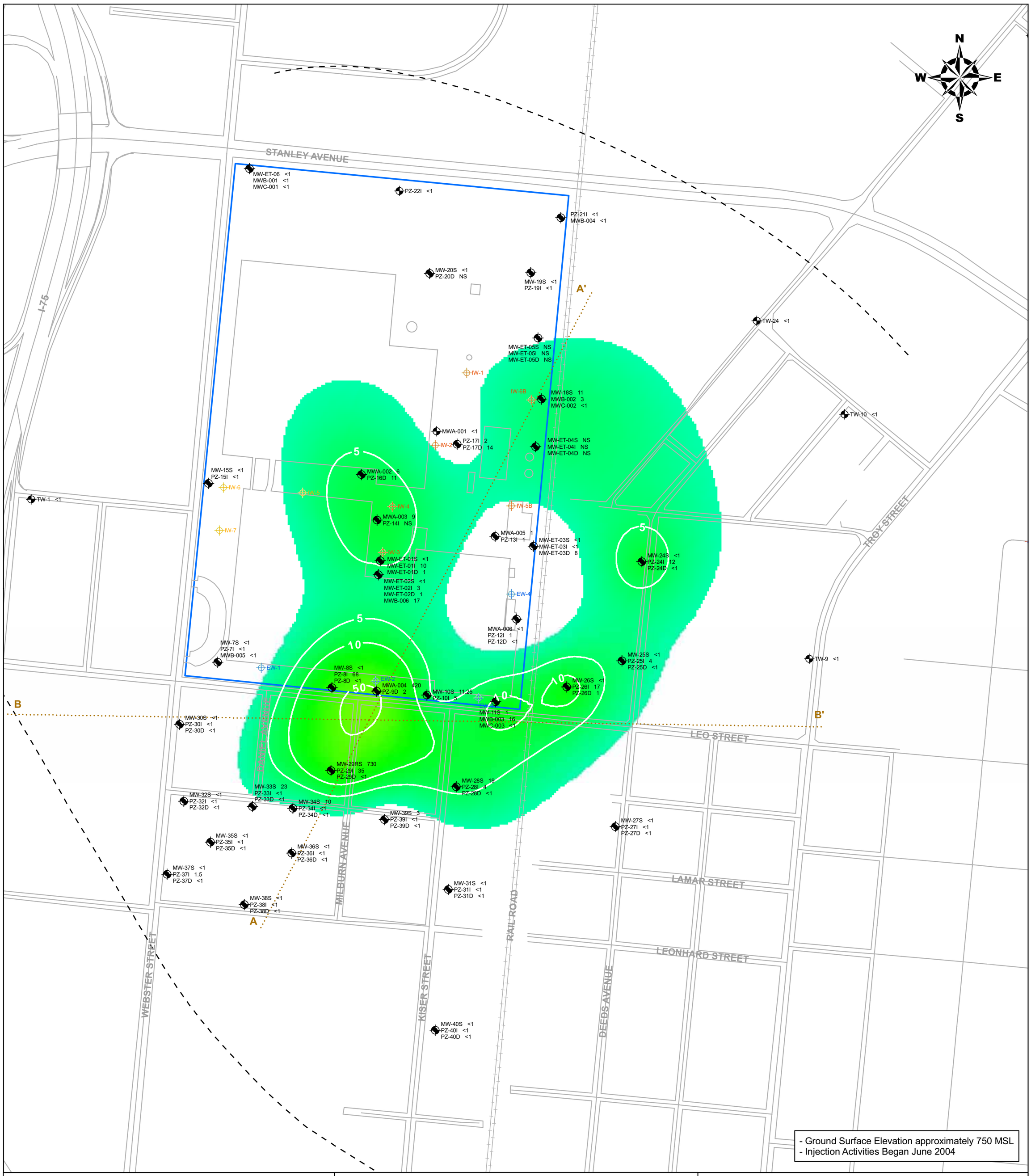
January 2009 98809

Figure 71

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 72

0 Feet 1,000

AECOM

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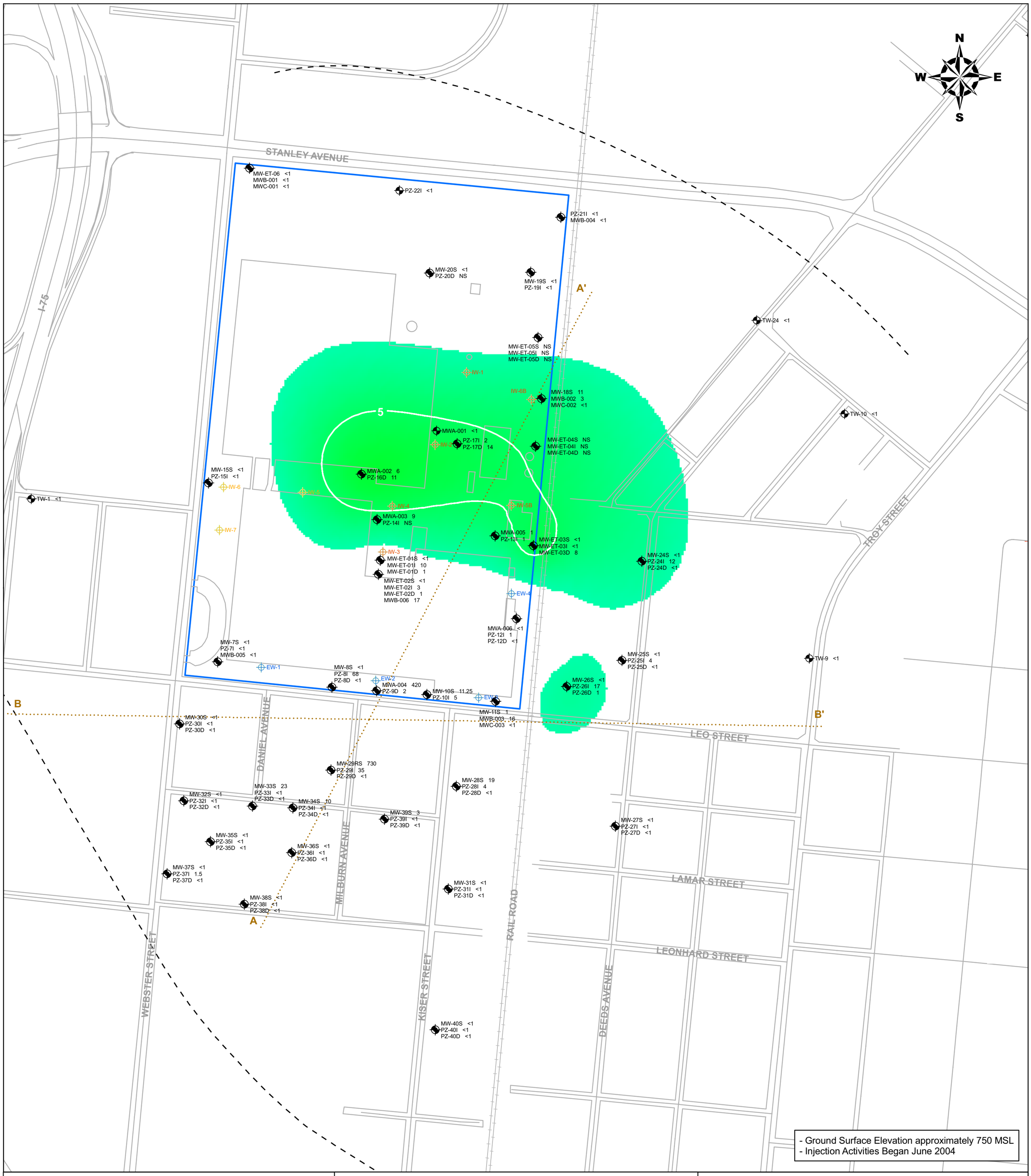


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

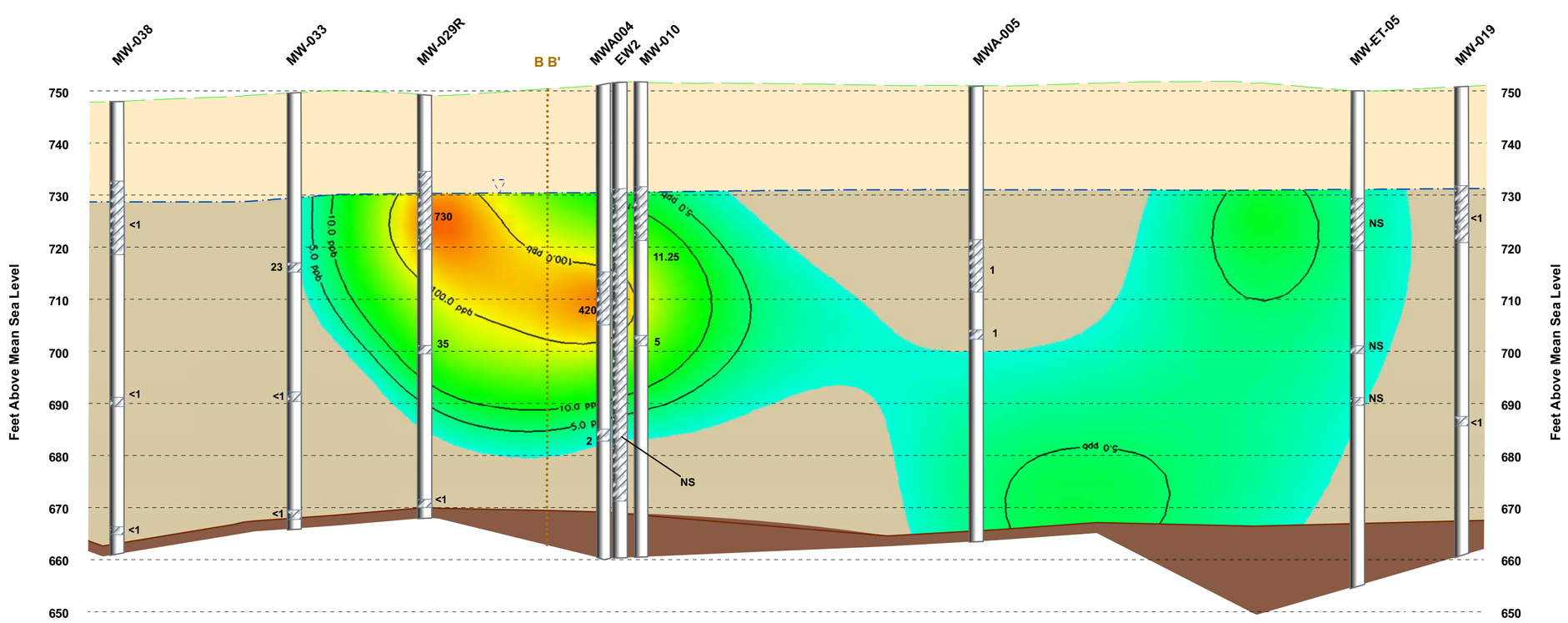
January 2009 98809

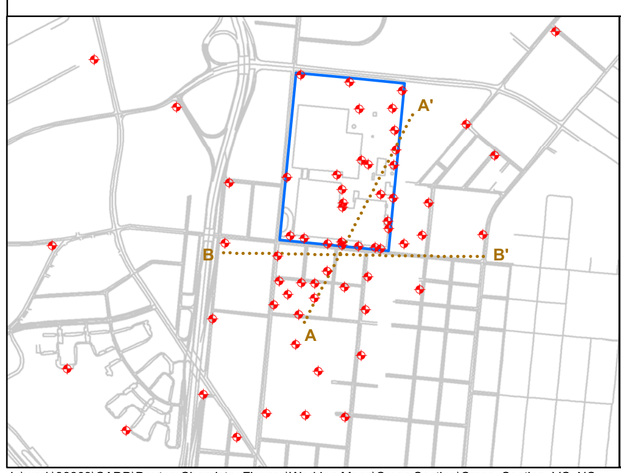
Figure 73

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

VC in Groundwater
South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

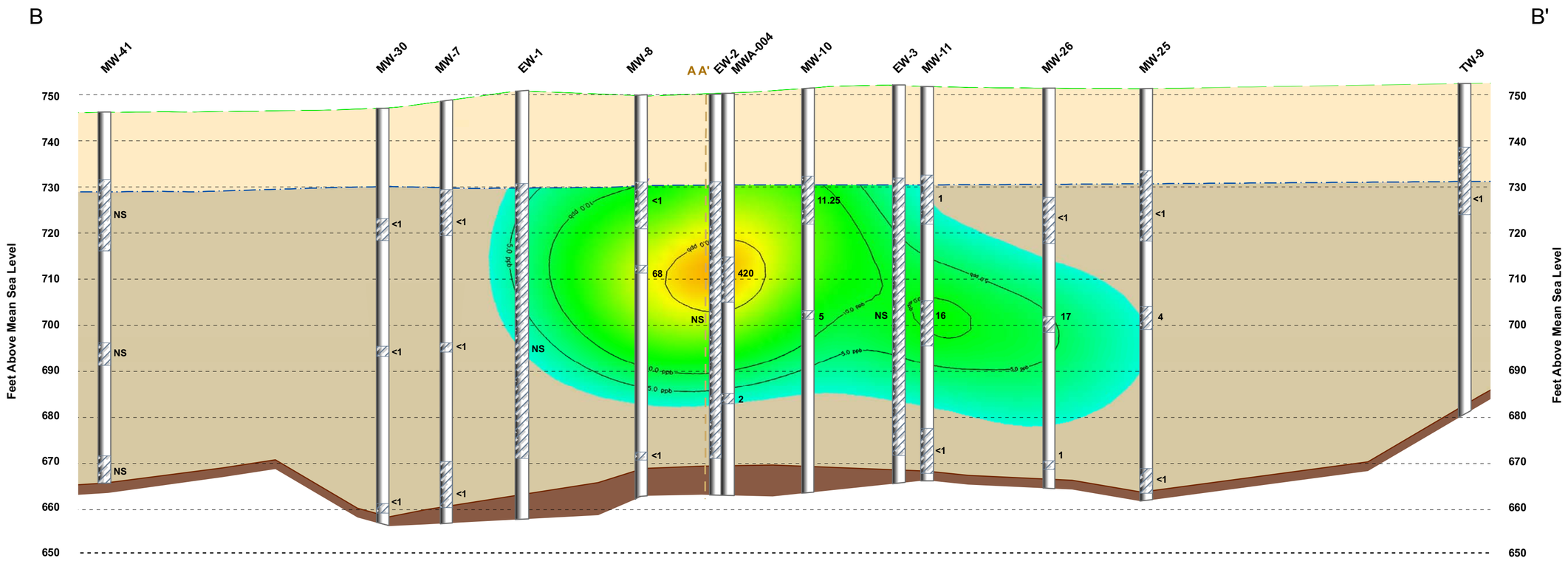
January 2009 98809

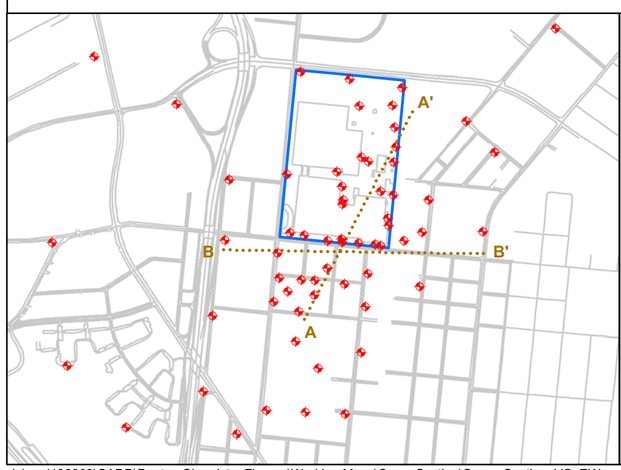
Figure 74

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_NS





Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

A ..... A' Cross Section Location

Plume Concentration (ppb)

2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

VC in Groundwater
West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

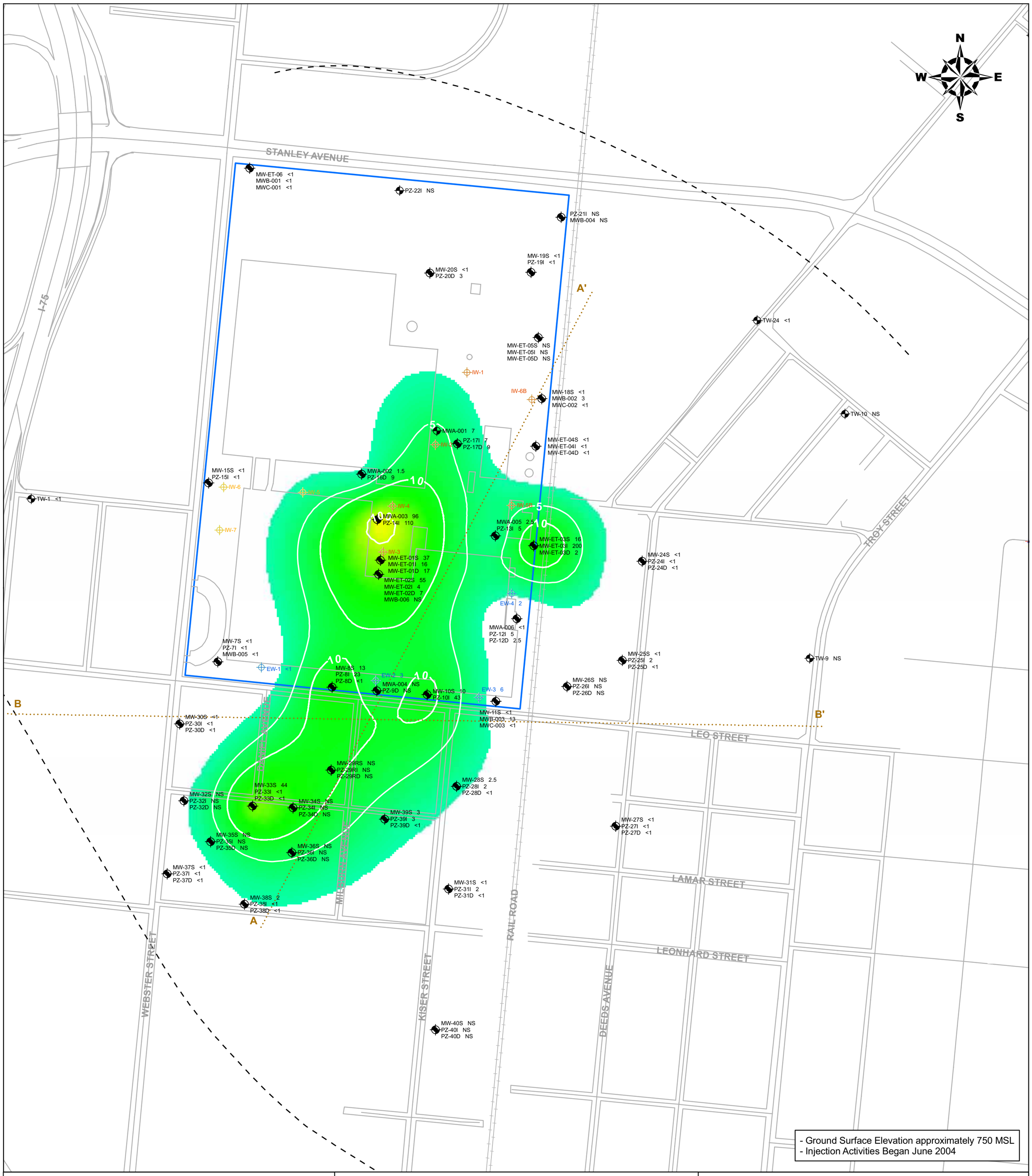
January 2009 98809

Figure 75

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

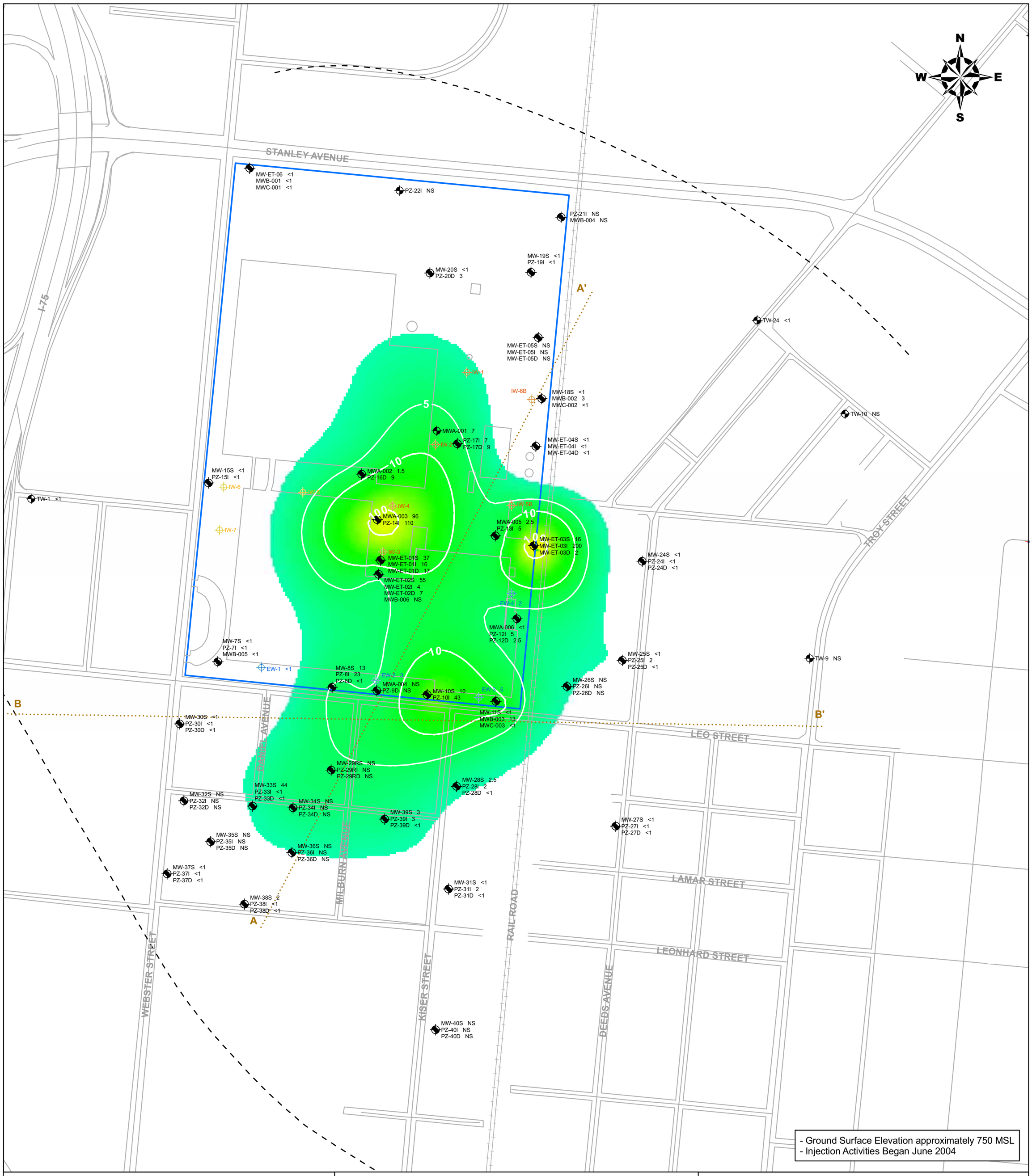
January 2009 98809

Figure 76

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

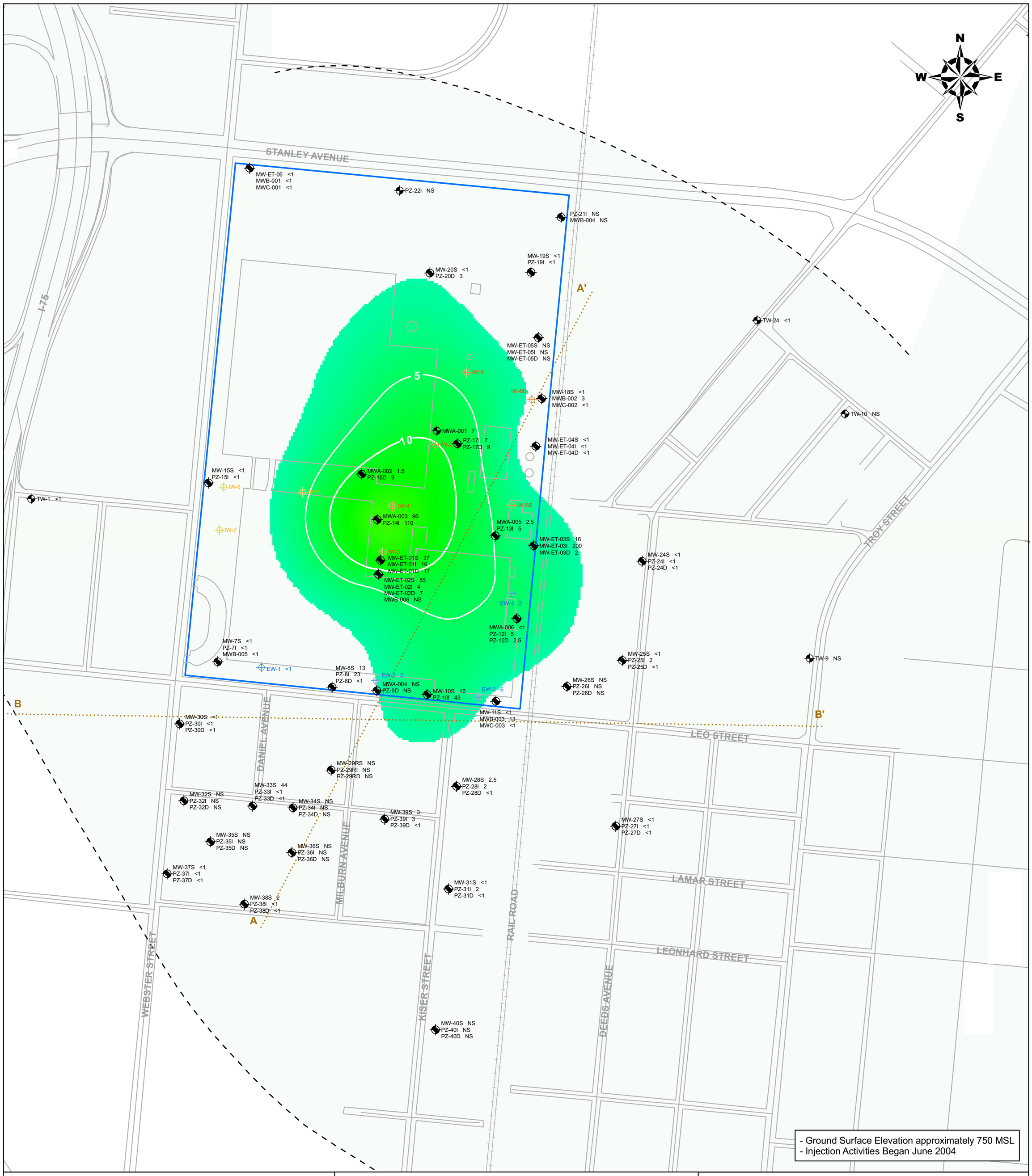
January 2009 98809

Figure 77

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

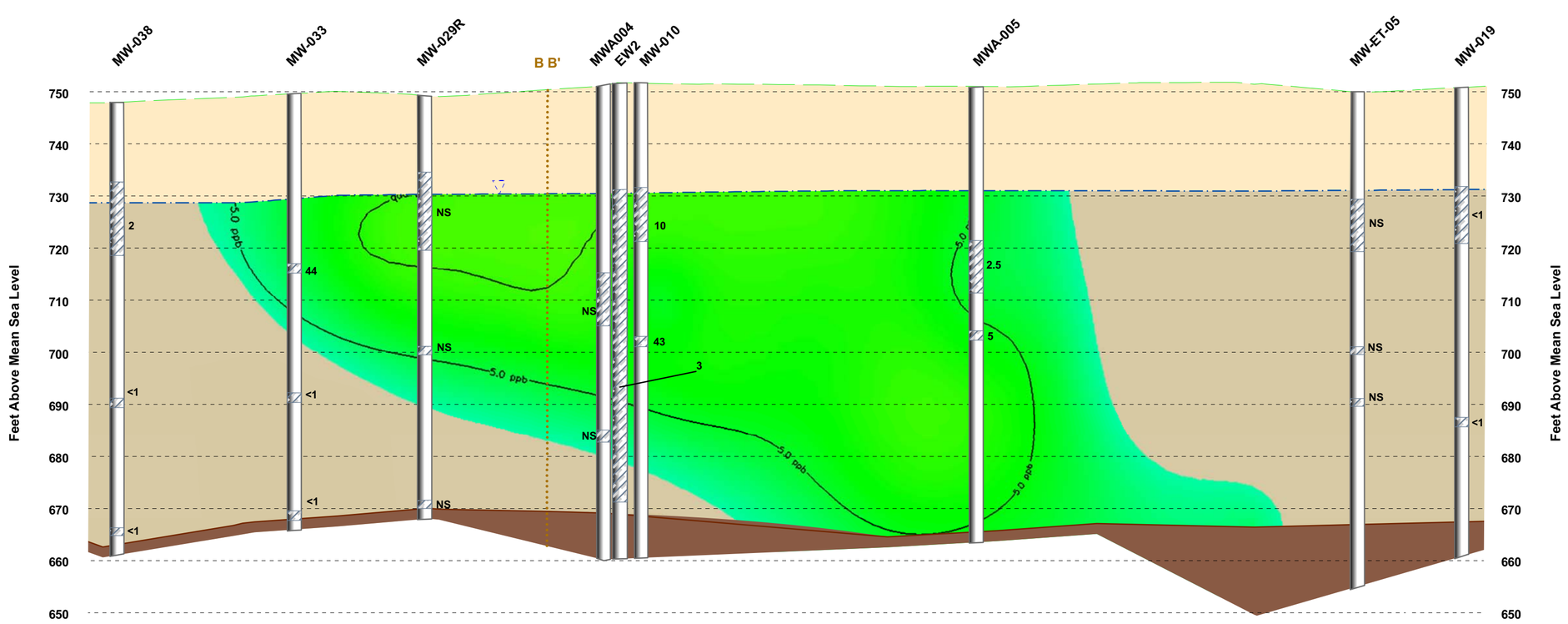
January 2009 98809

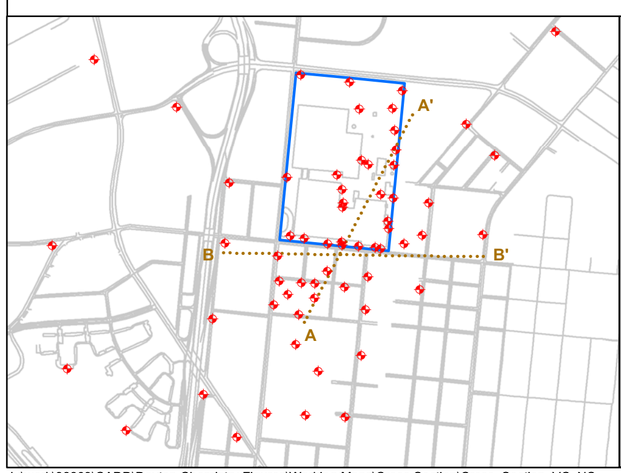
Figure 78

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

VC in Groundwater
South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

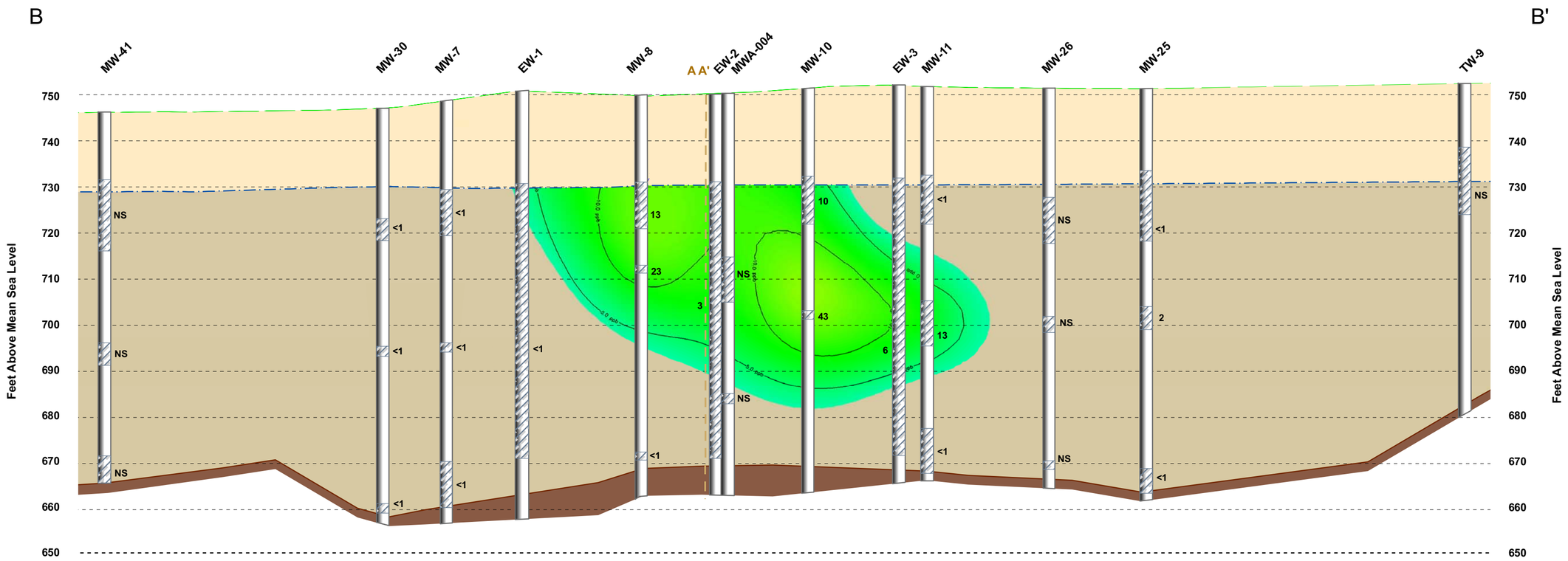
January 2009 98809

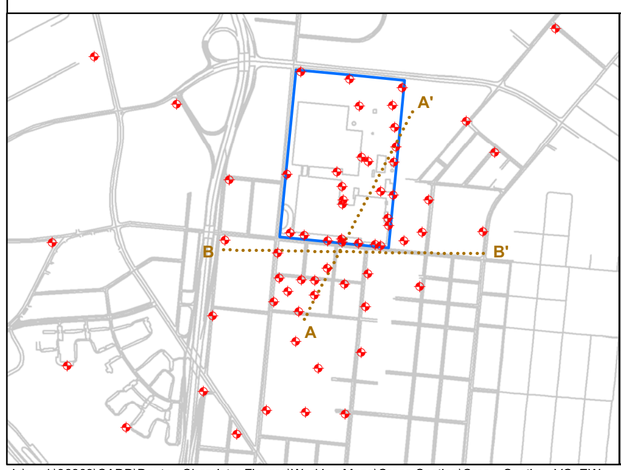
Figure 79

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

VC in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

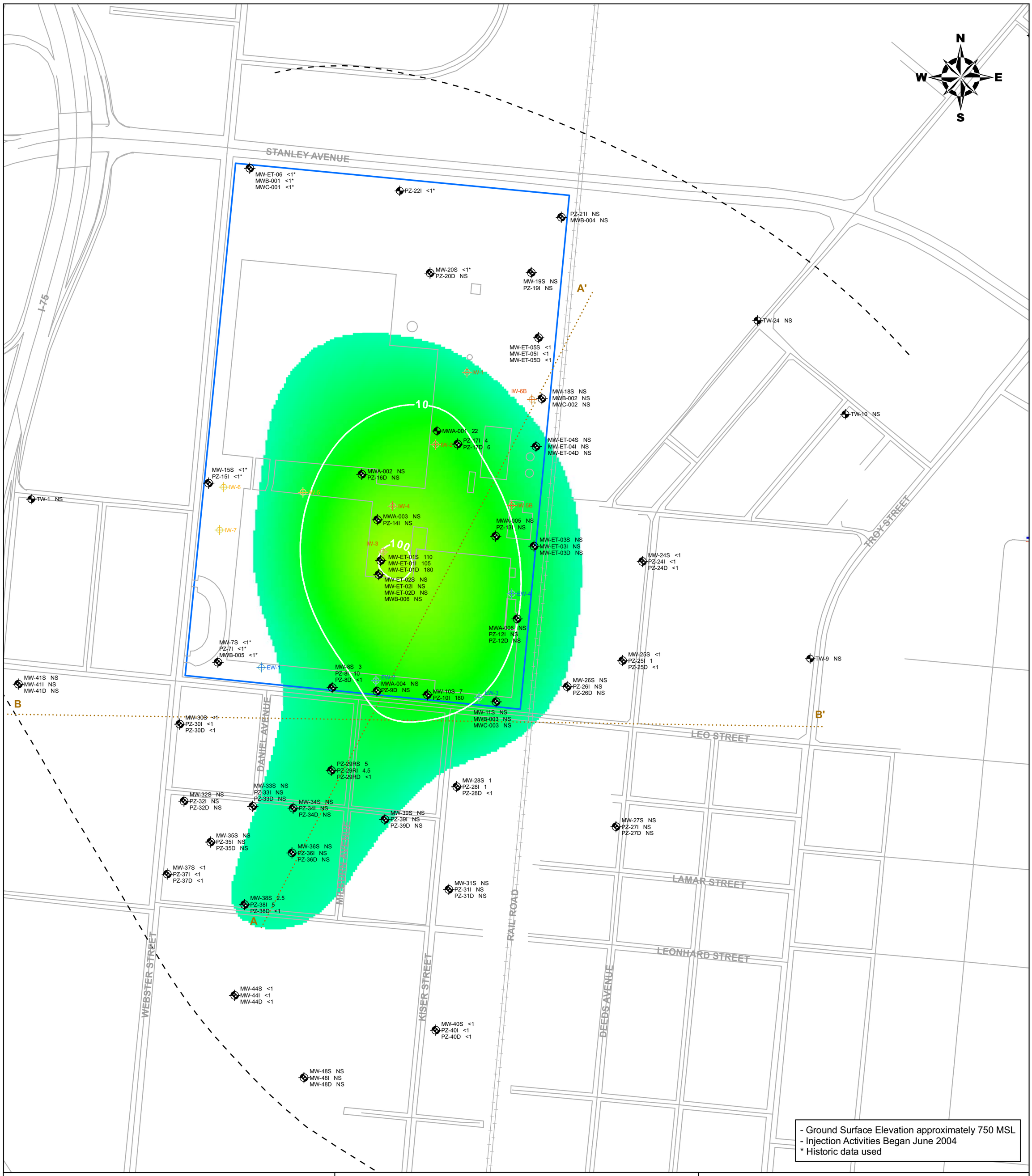
January 2009 98809

Figure 80

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

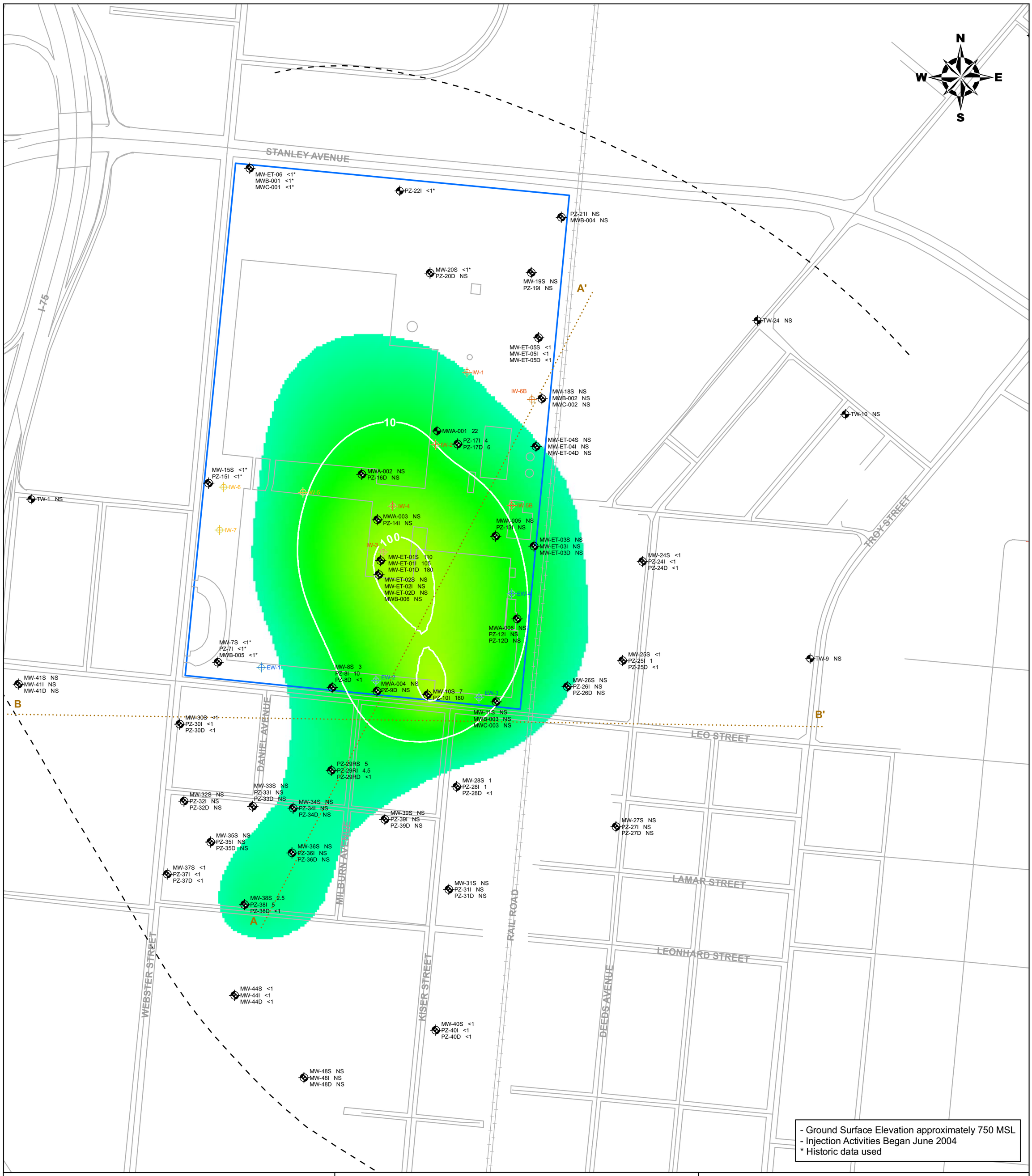
January 2009 98809

Figure 81

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

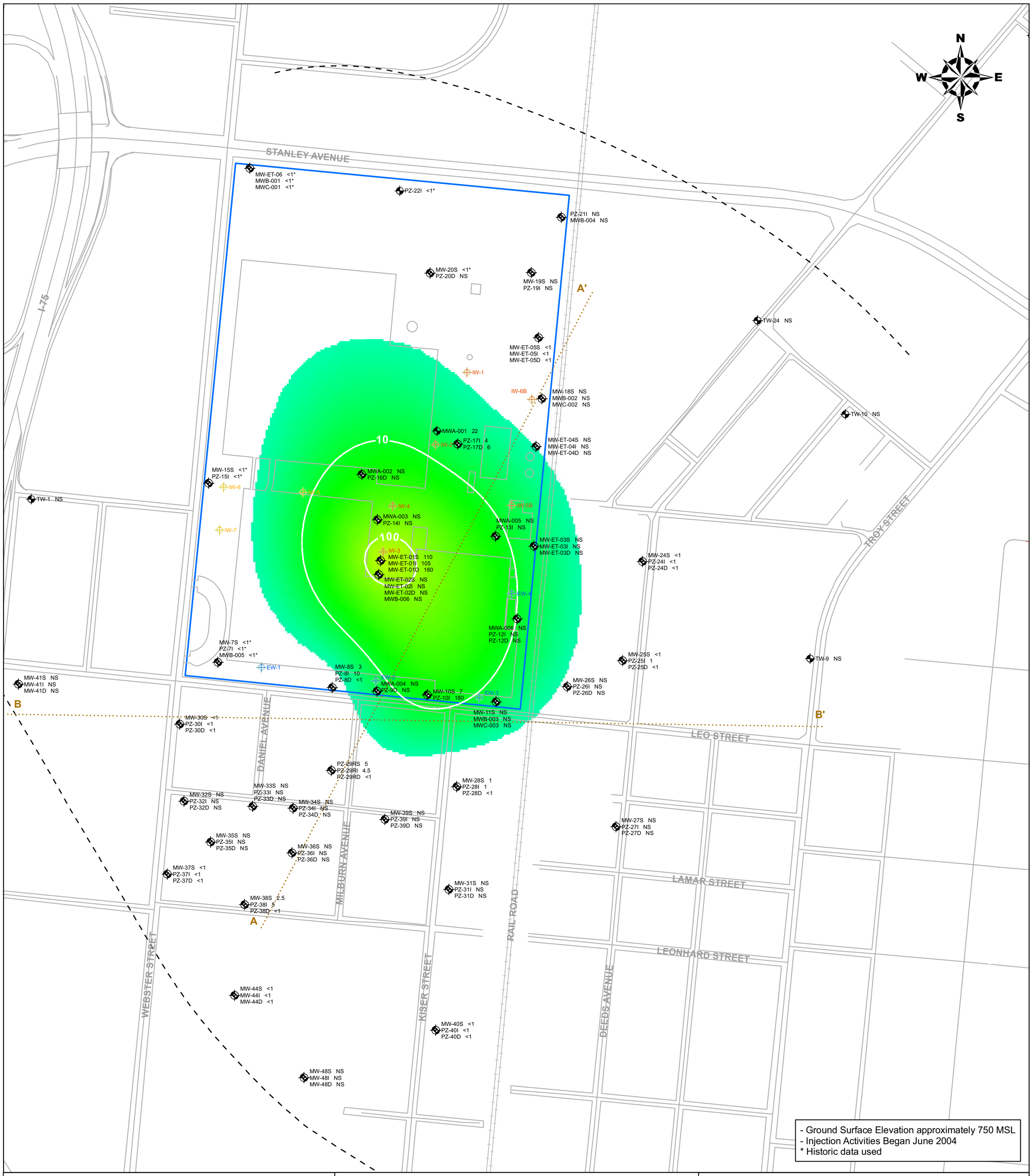
January 2009 98809

Figure 82

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A A' Cross Section Location
Plume Concentration (ppb)
2 730

VC in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

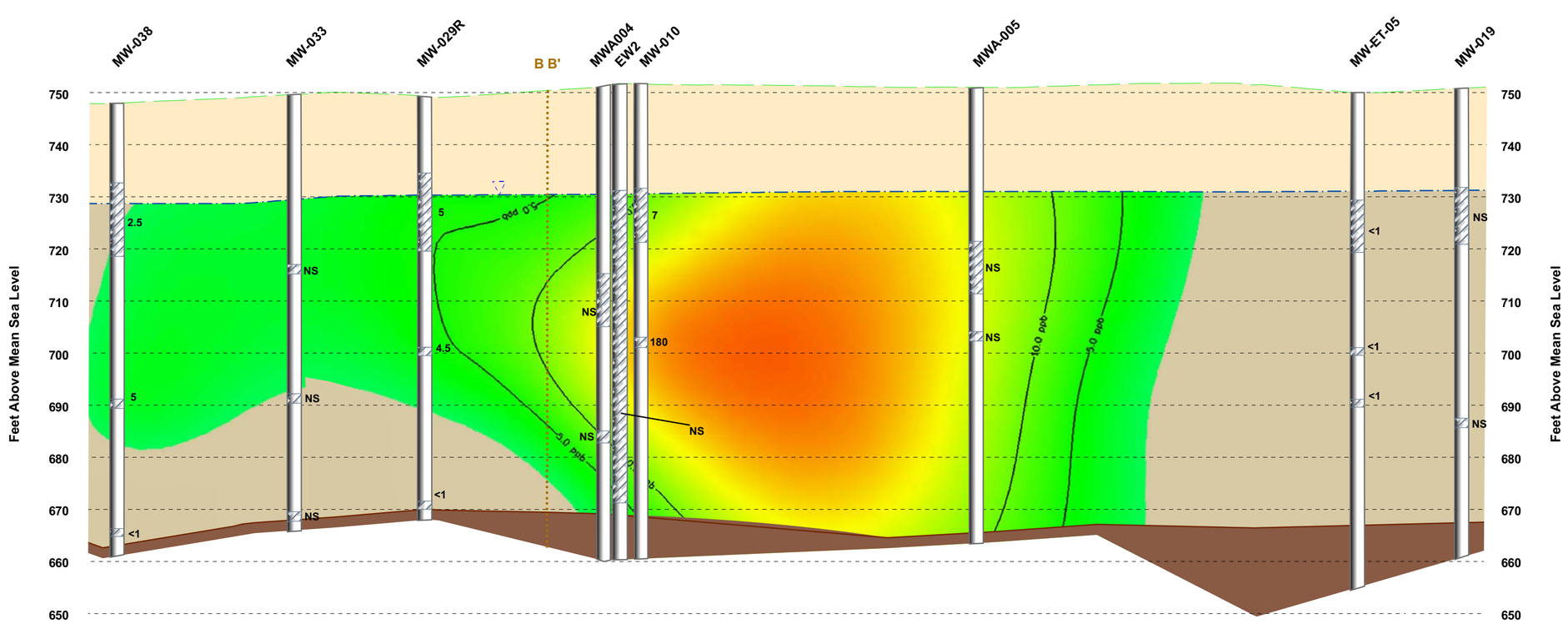
January 2009 98809

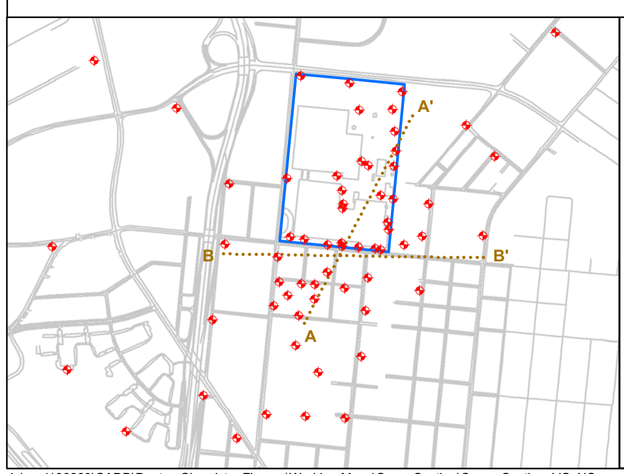
Figure 83

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_VC.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

VC in Groundwater
South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

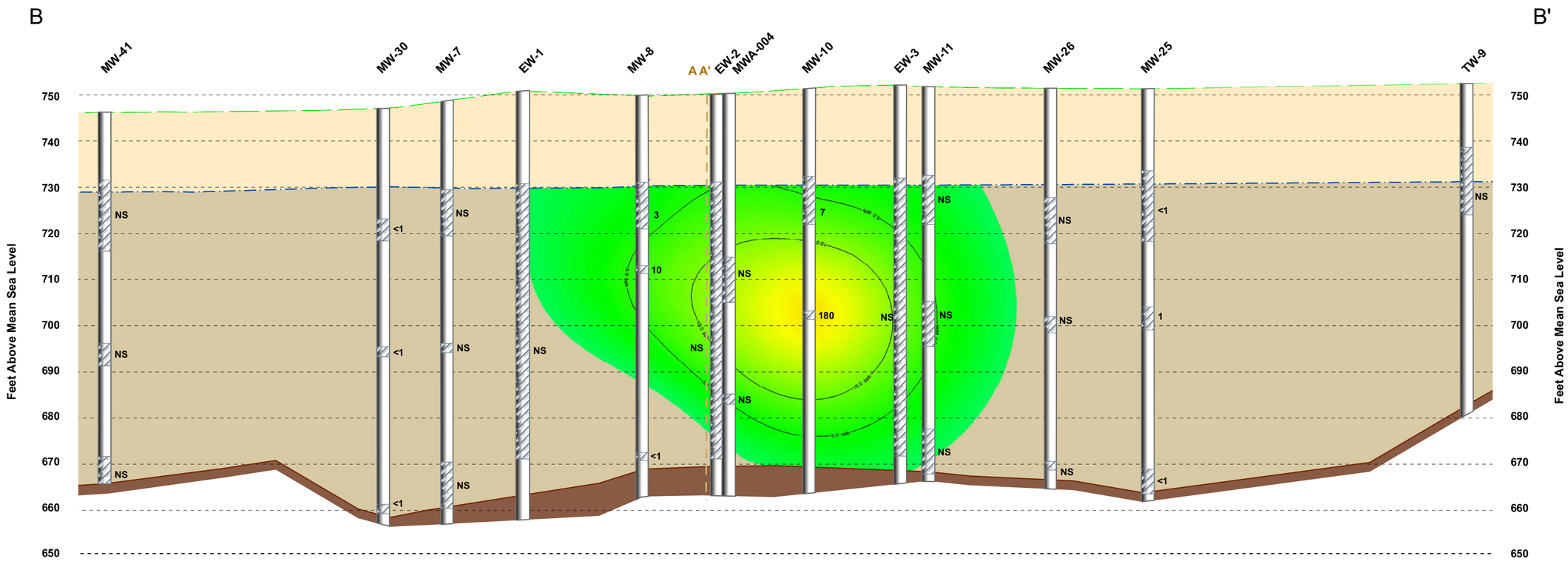
January 2009 98809

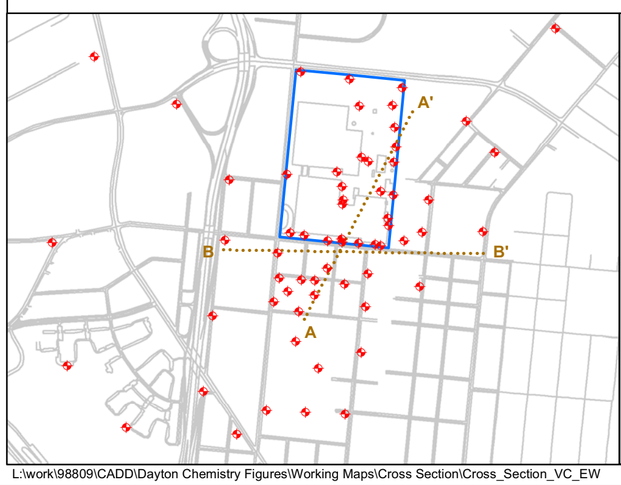
Figure 84

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_NS





Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

A ..... A' Cross Section Location

Plume Concentration (ppb)

2 730

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

VC in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 85

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_VC_EW

Figures 86 through 100

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

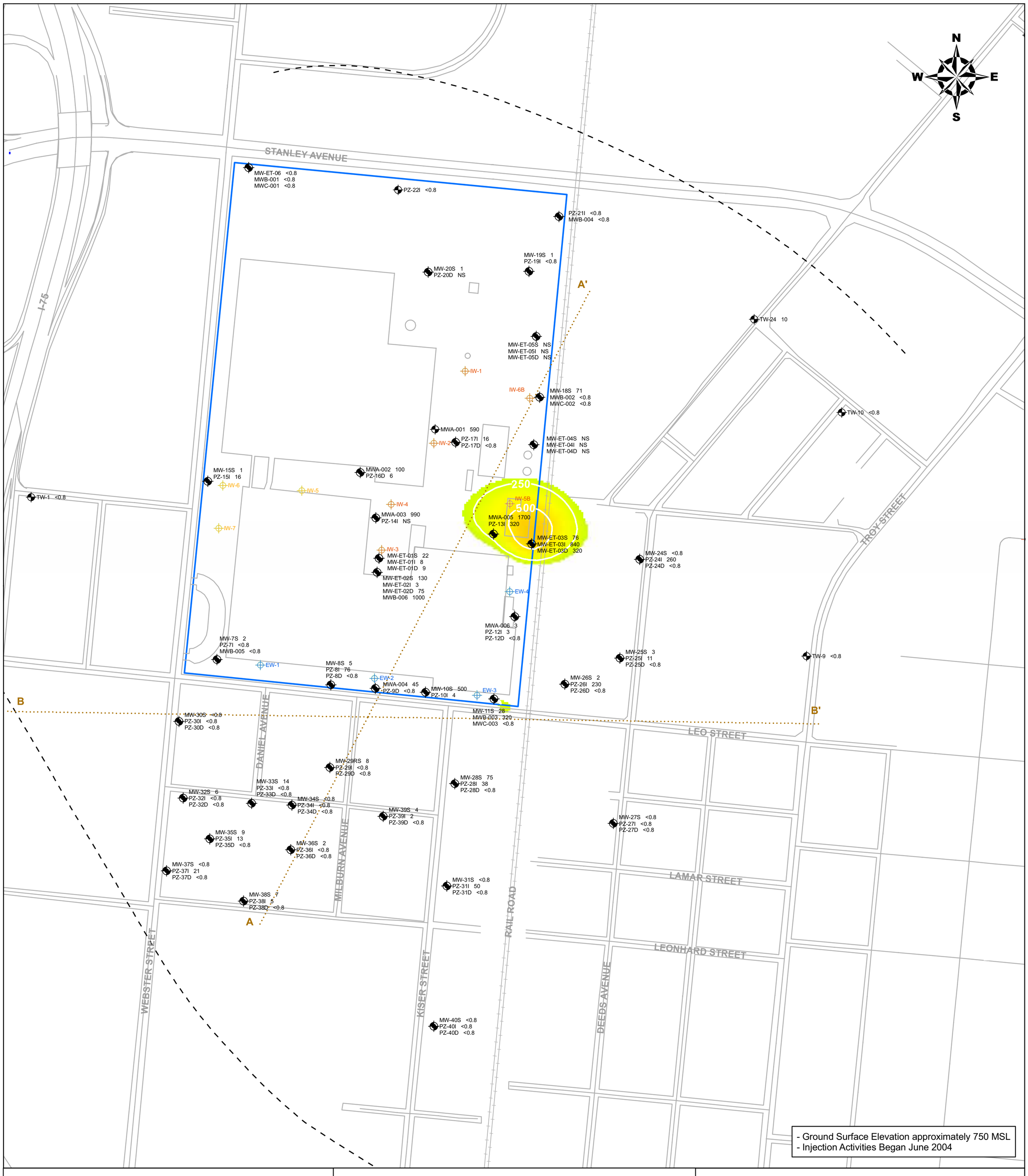
January 2009 98809

Figure 86

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

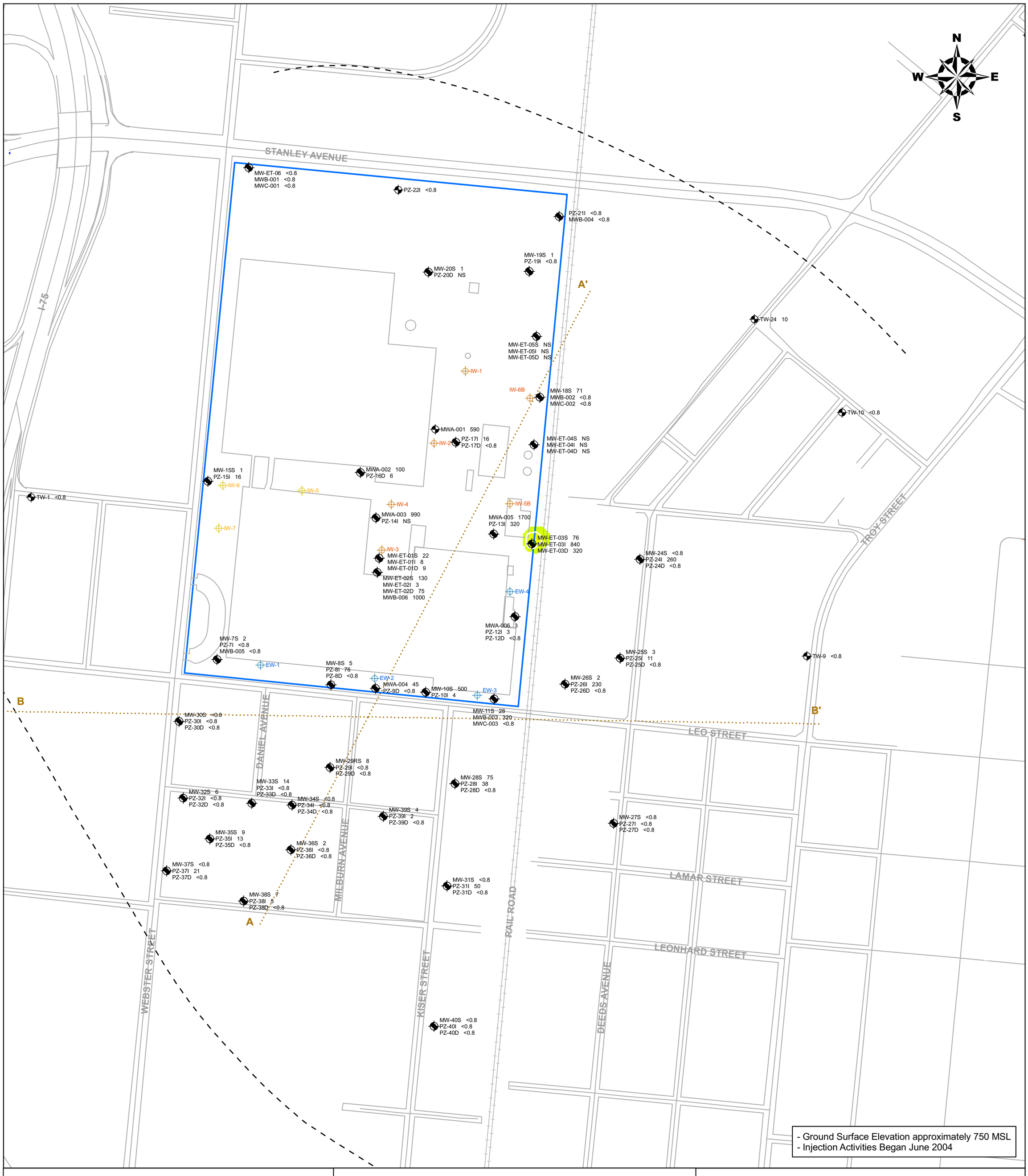
January 2009 98809

Figure 87

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

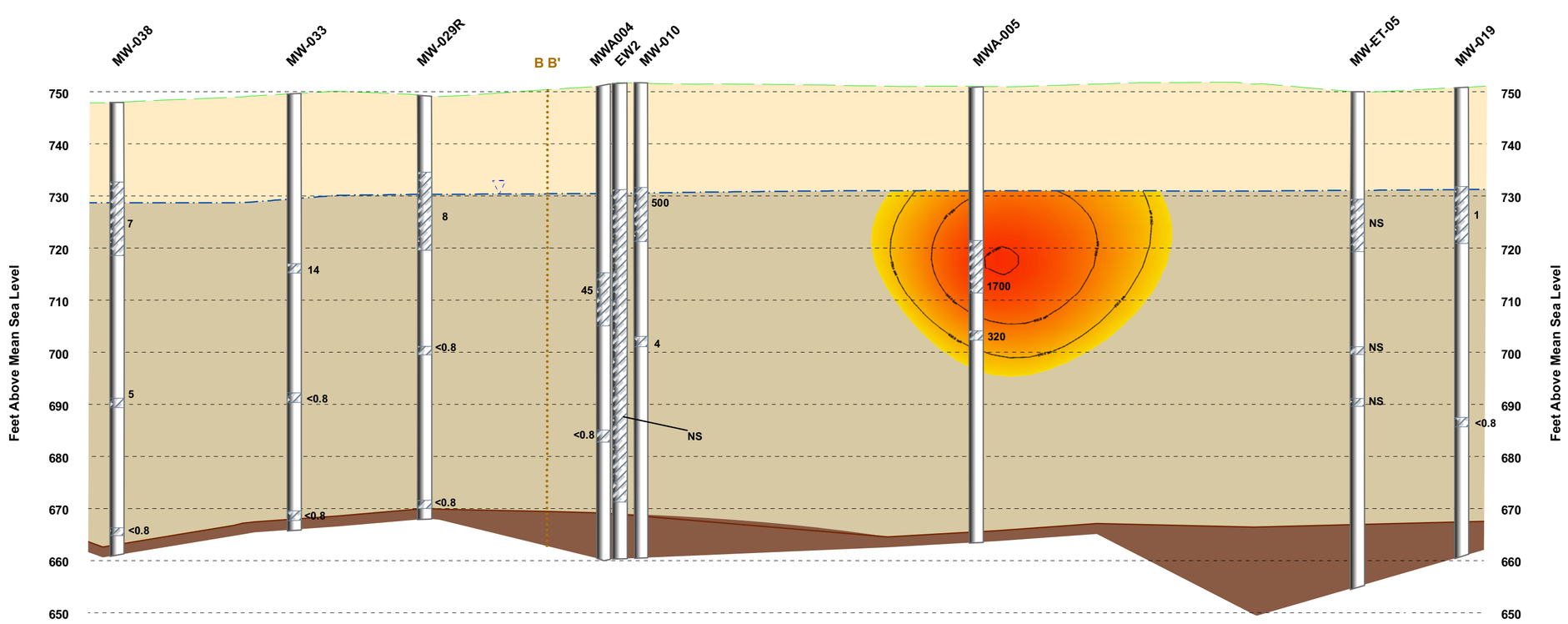
January 2009 98809

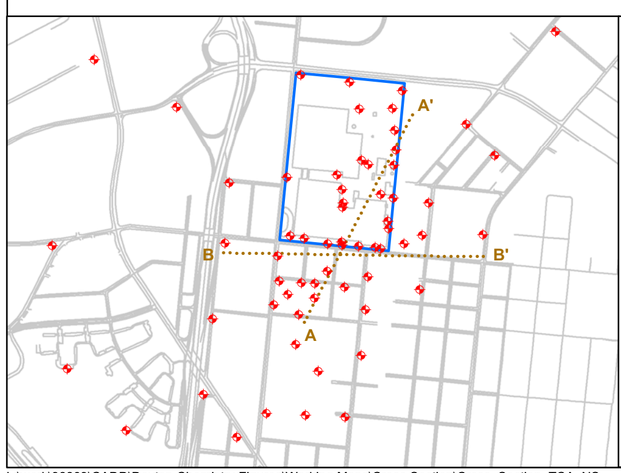
Figure 88

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
200
2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCA in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

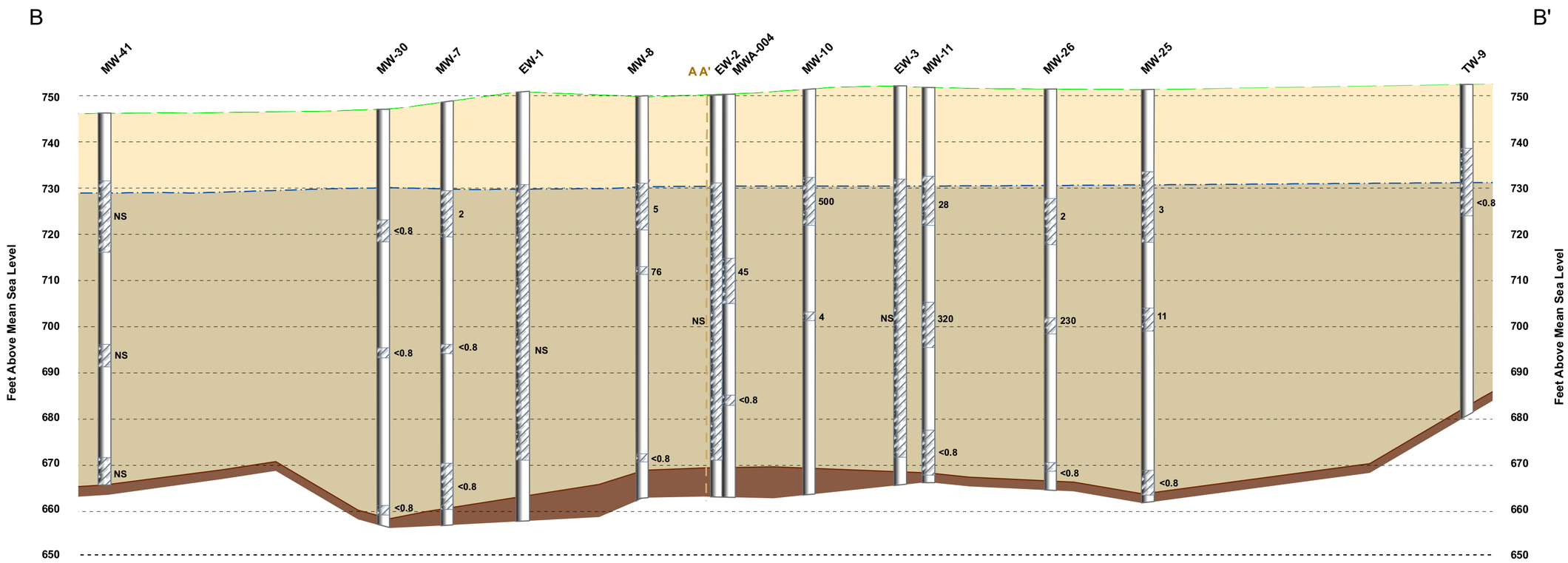
January 2009 98809

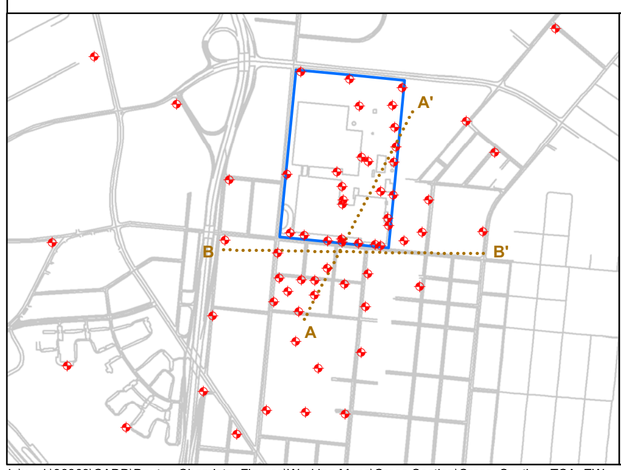
Figure 89

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCA_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
200
2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled
3. No TCA detected above MCL.

TCA in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

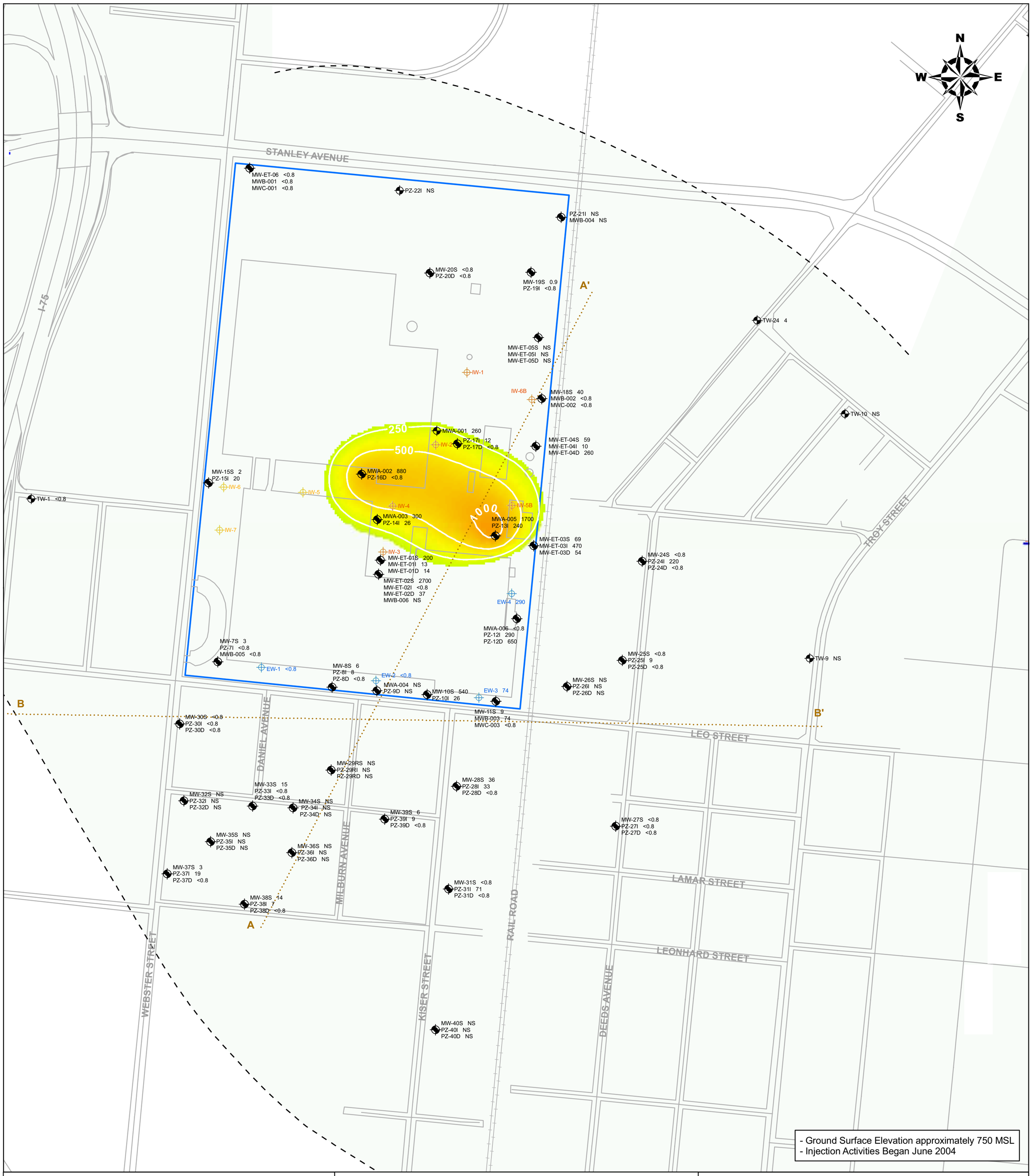
January 2009 98809

Figure 90

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCA_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

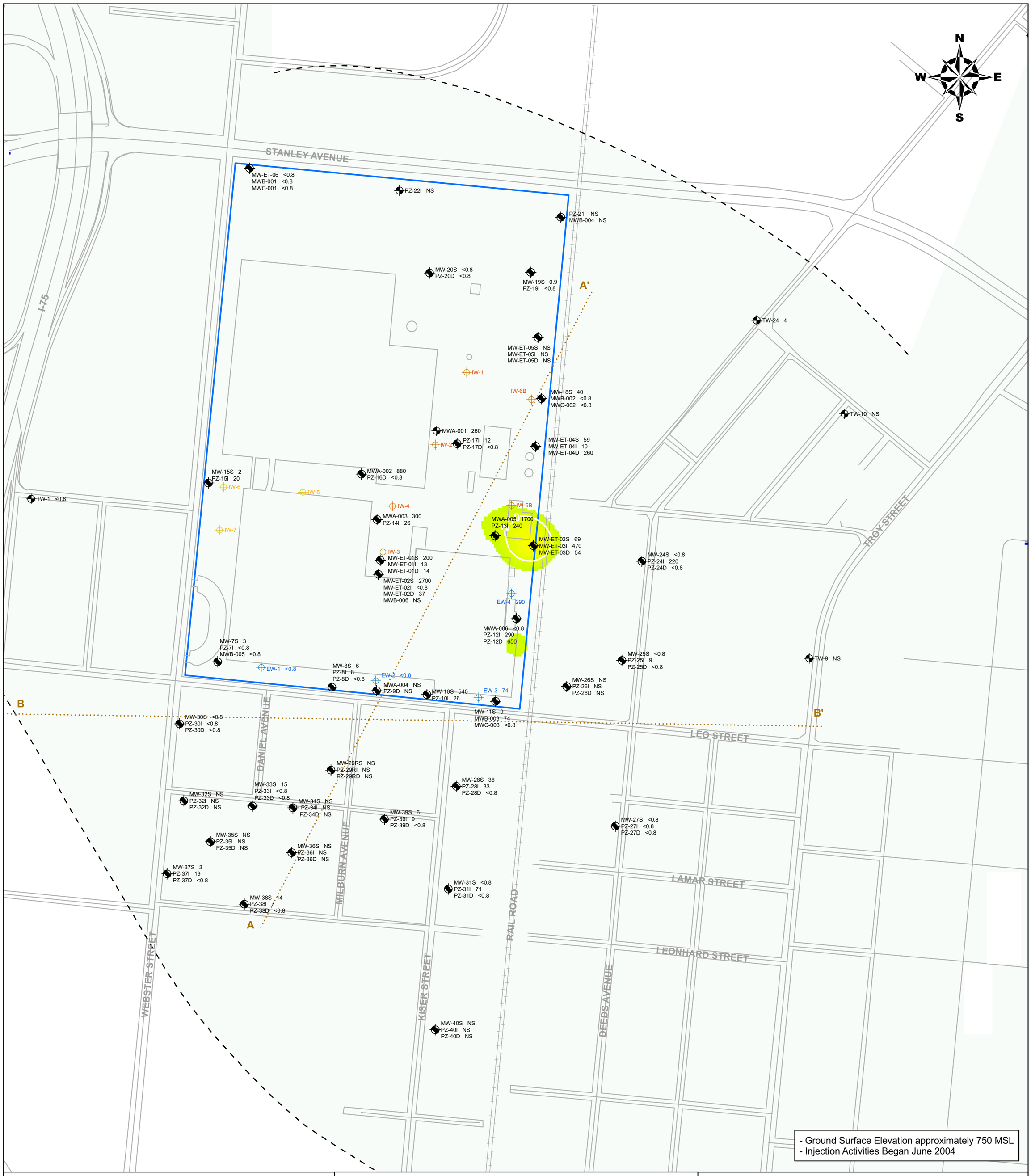
January 2009 98809

Figure 91

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

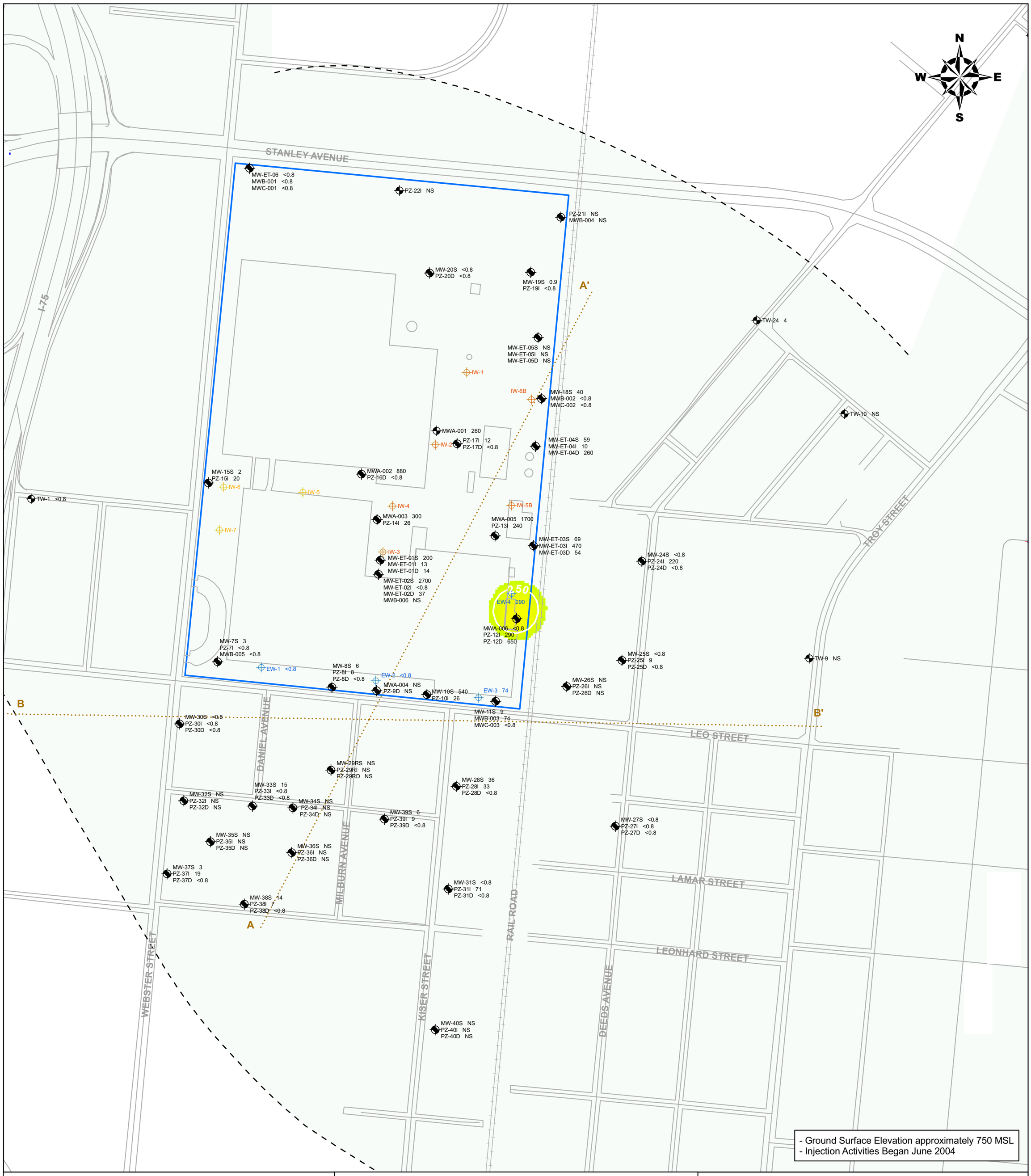
January 2009 98809

Figure 92

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

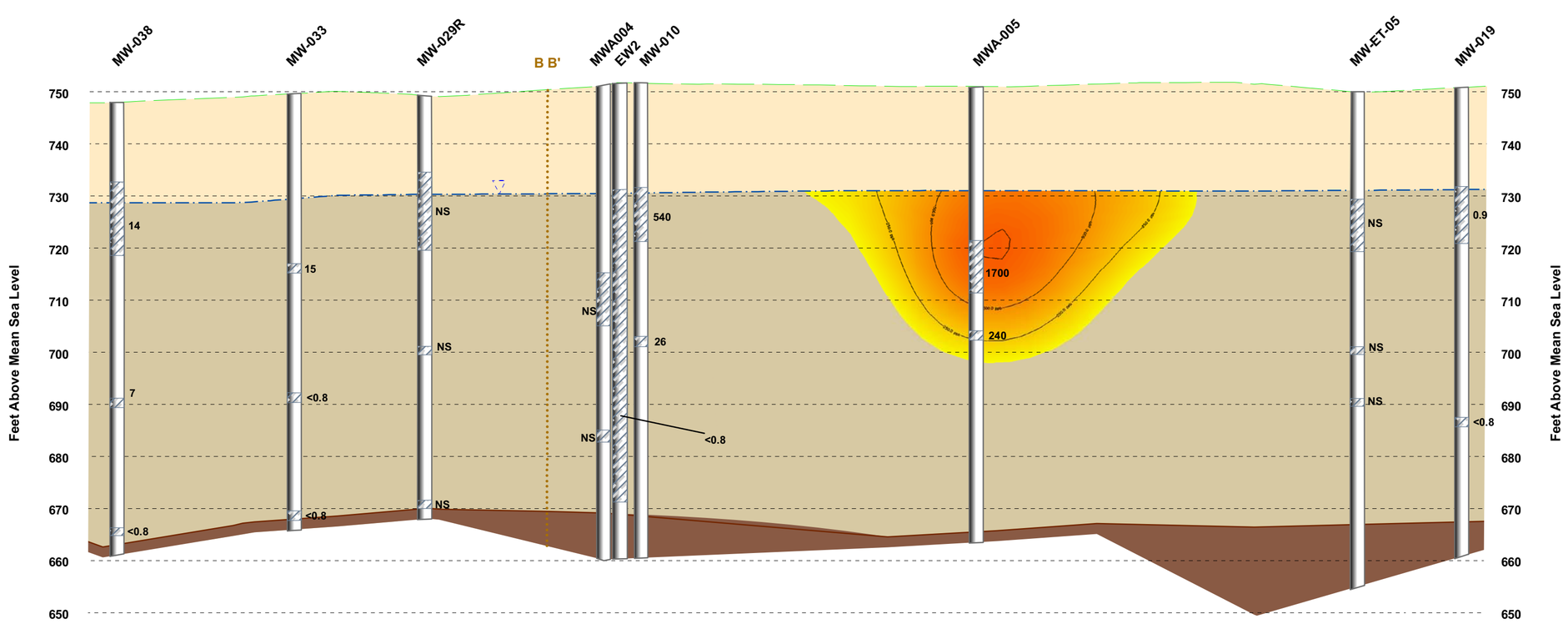
January 2009 98809

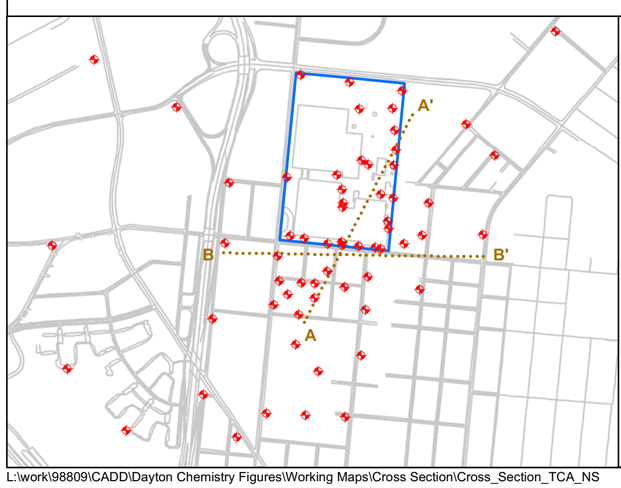
Figure 93

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_TCA.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

TCA in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

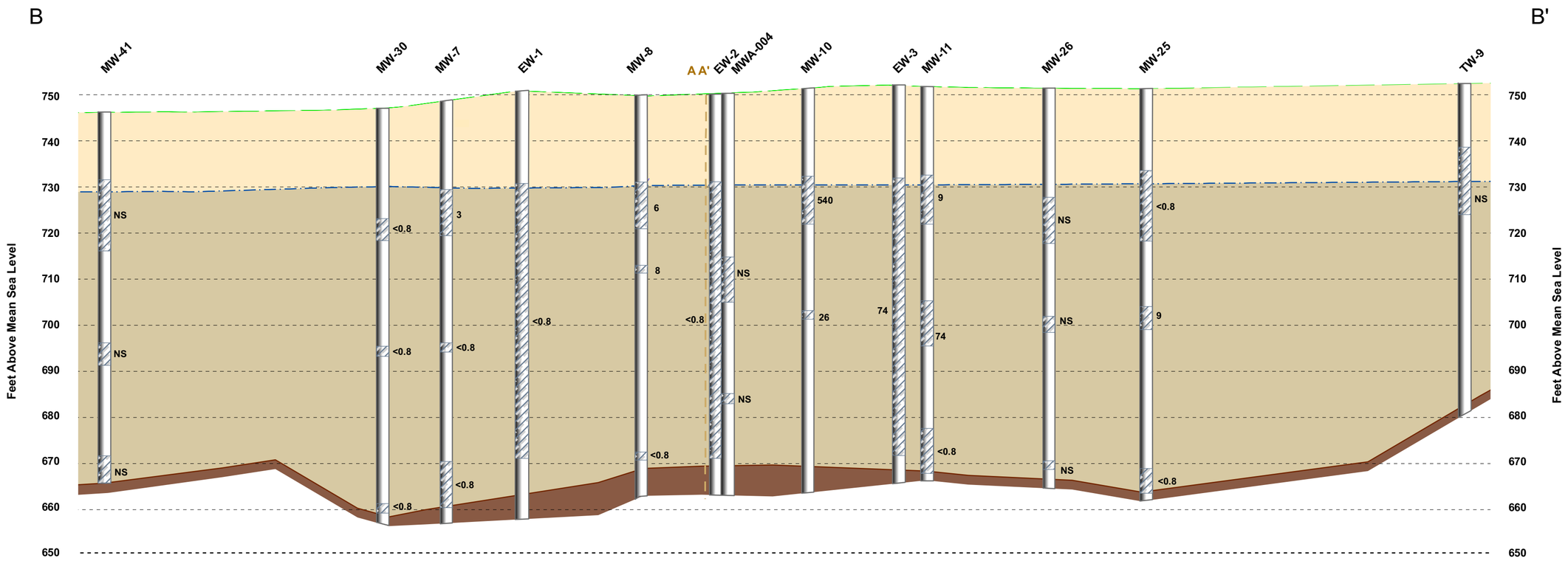
January 2009 98809

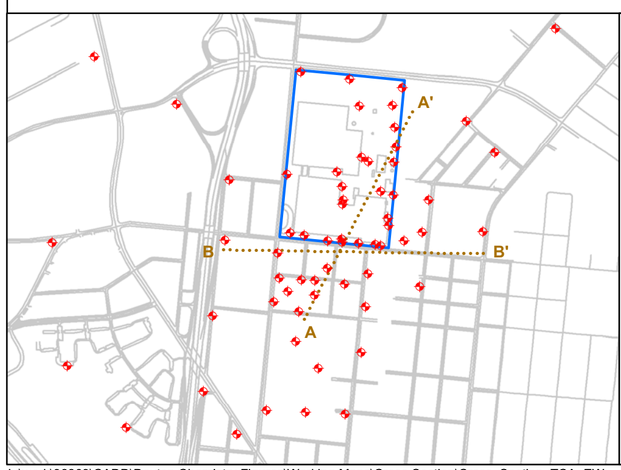
Figure 94

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCA_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
200
2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled
3. No TCA detected above MCL.

TCA in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 95

0 500
Feet

AECOM

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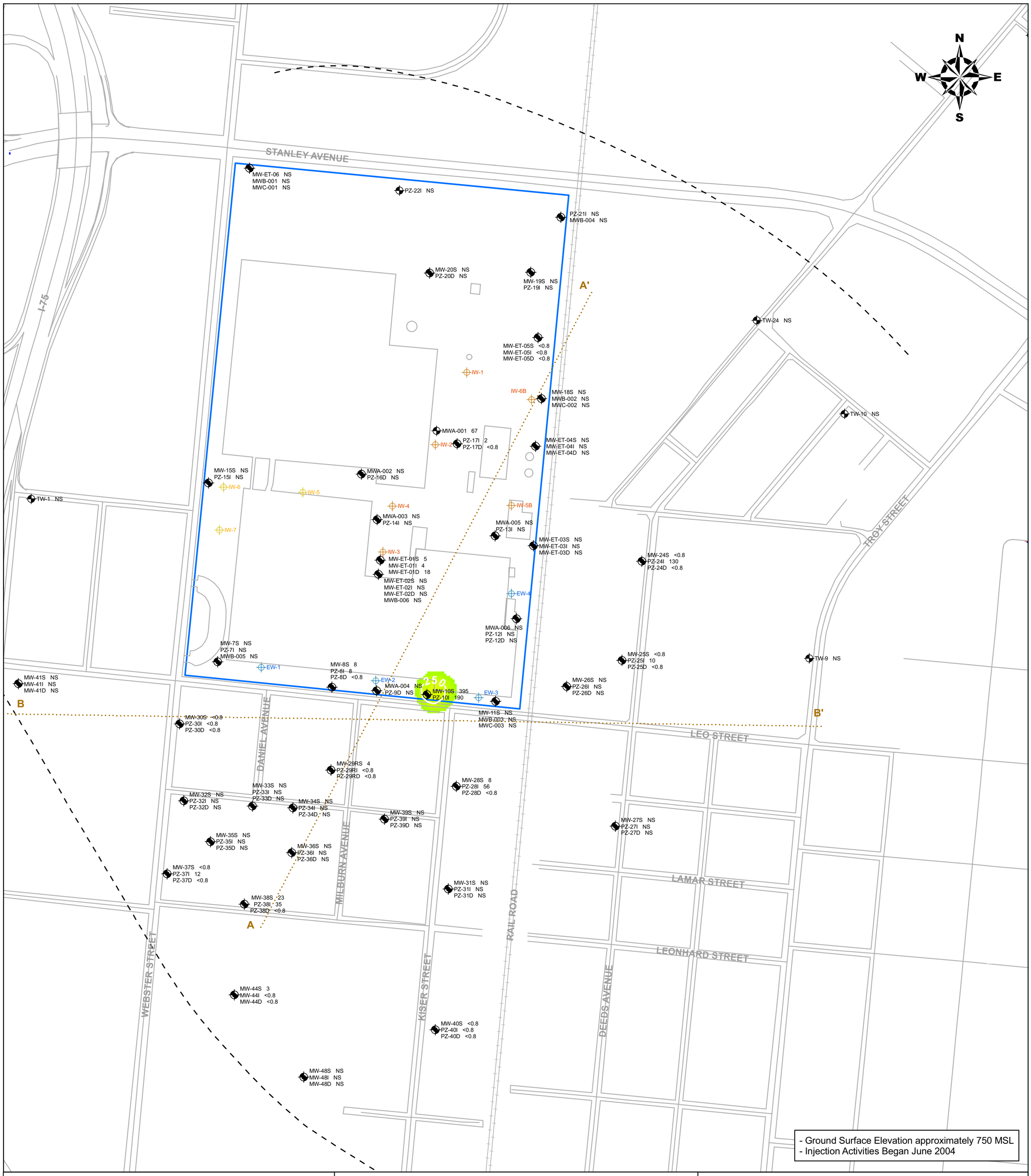

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 96

0 Feet 1,000

AECOM

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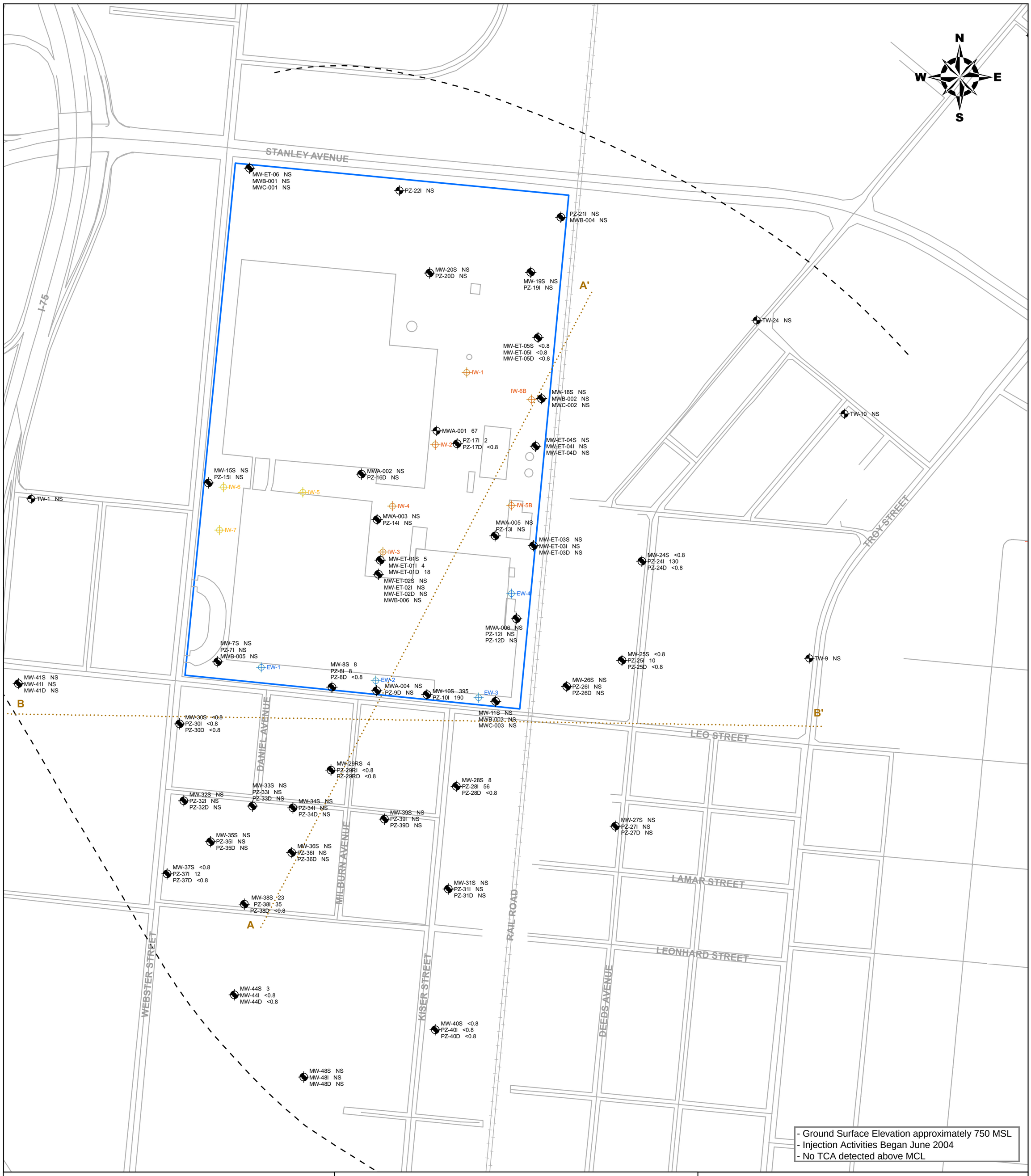

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 97

0 Feet 1,000

AECOM

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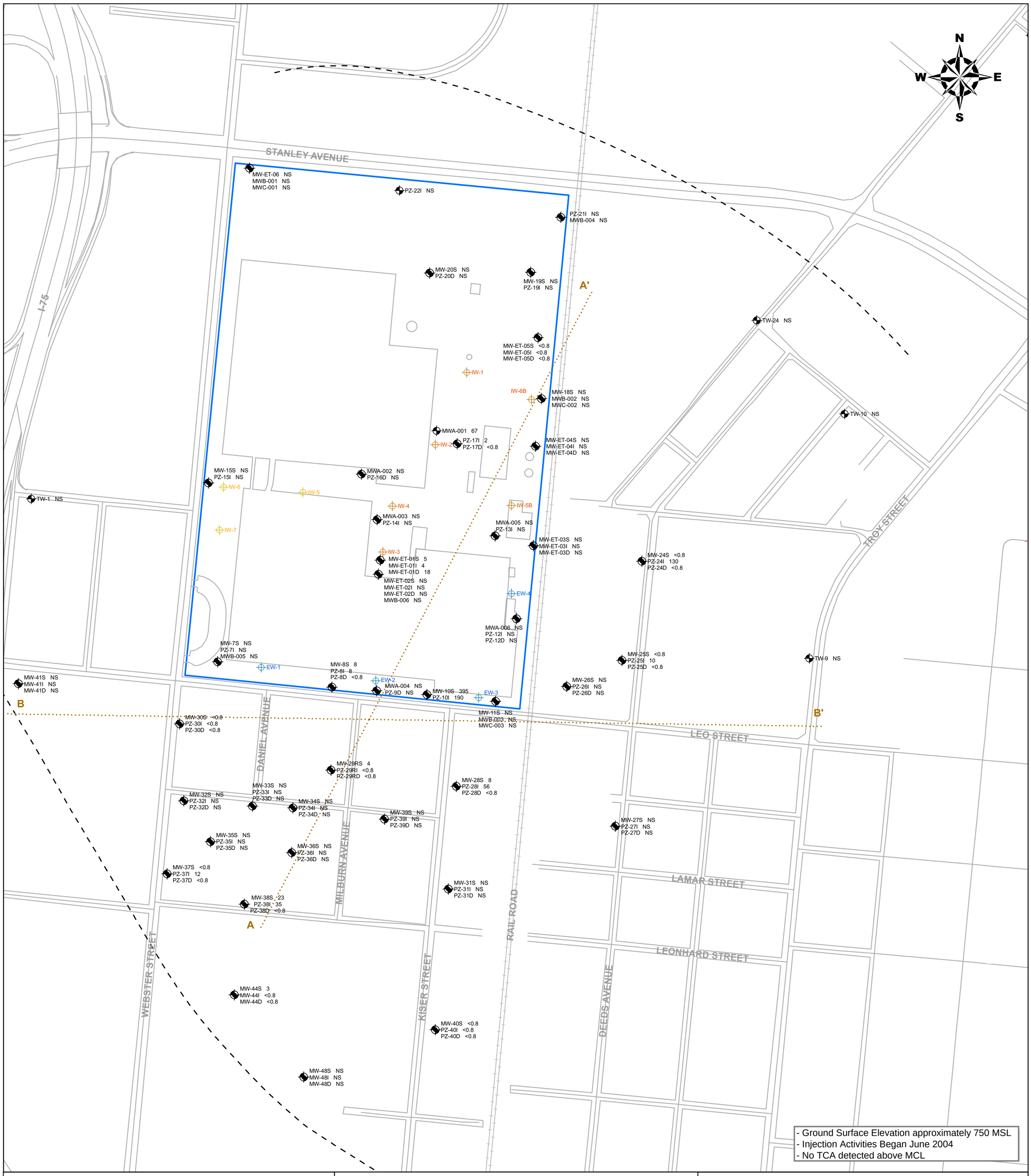

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
200 2,700

TCA in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 98

0 Feet 1,000

AECOM

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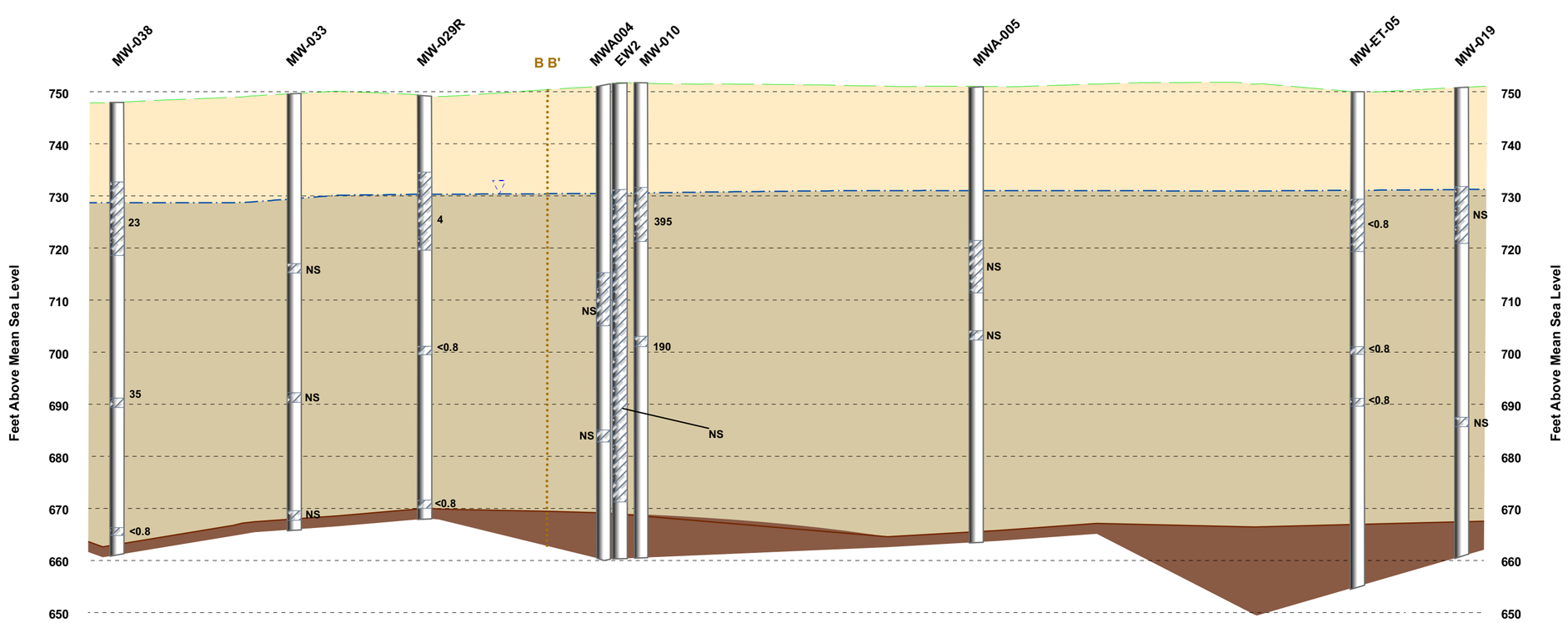
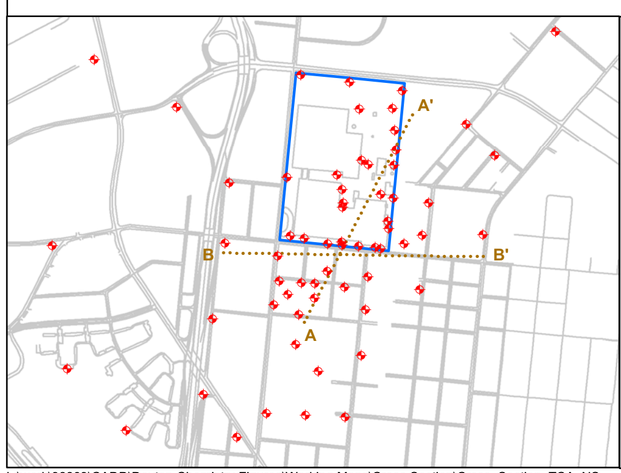




Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
200
2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled
3. No TCA detected above MCL.

TCA in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

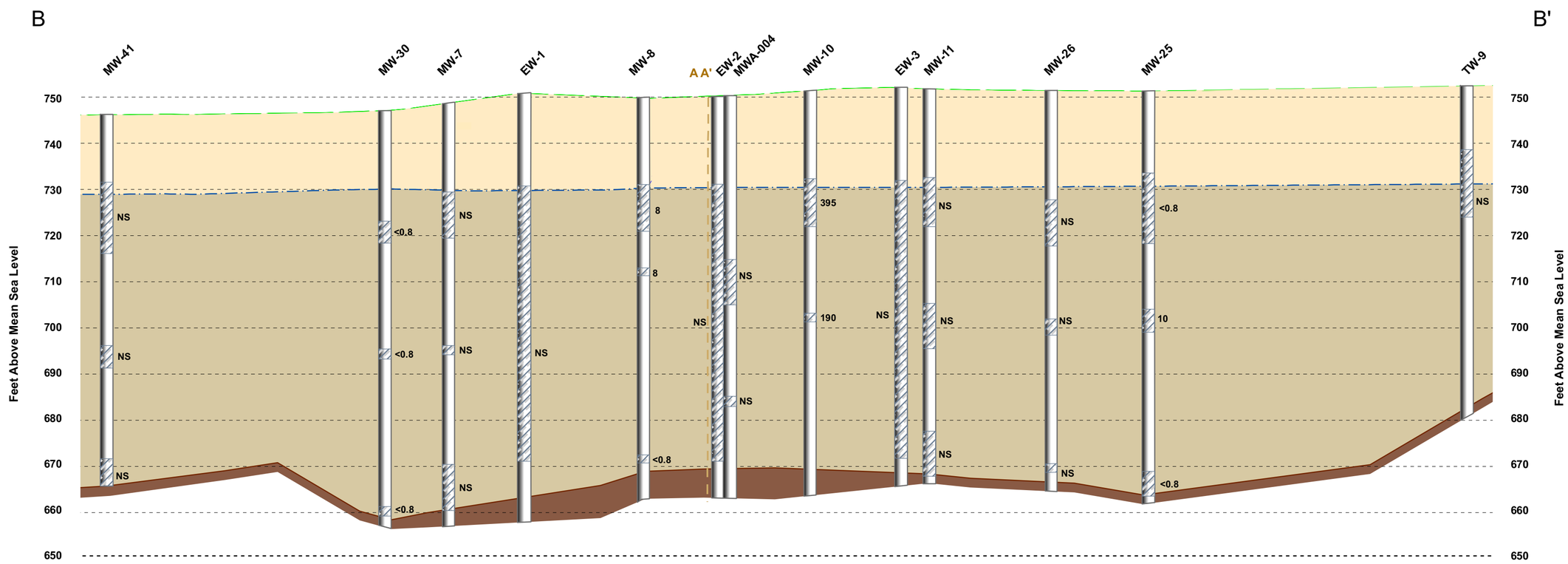
January 2009 98809

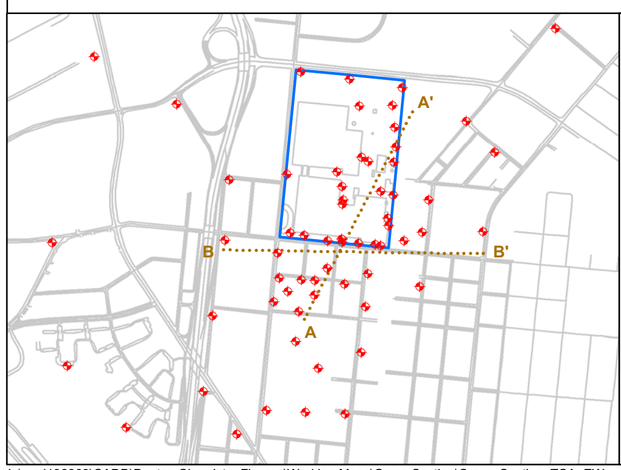
Figure 99

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCA_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
200
2,700

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled
3. No TCA detected above MCL.

TCA in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 100

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_TCA_EW

Figures 101 through 115

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 101

0 Feet 1,000

AECOM

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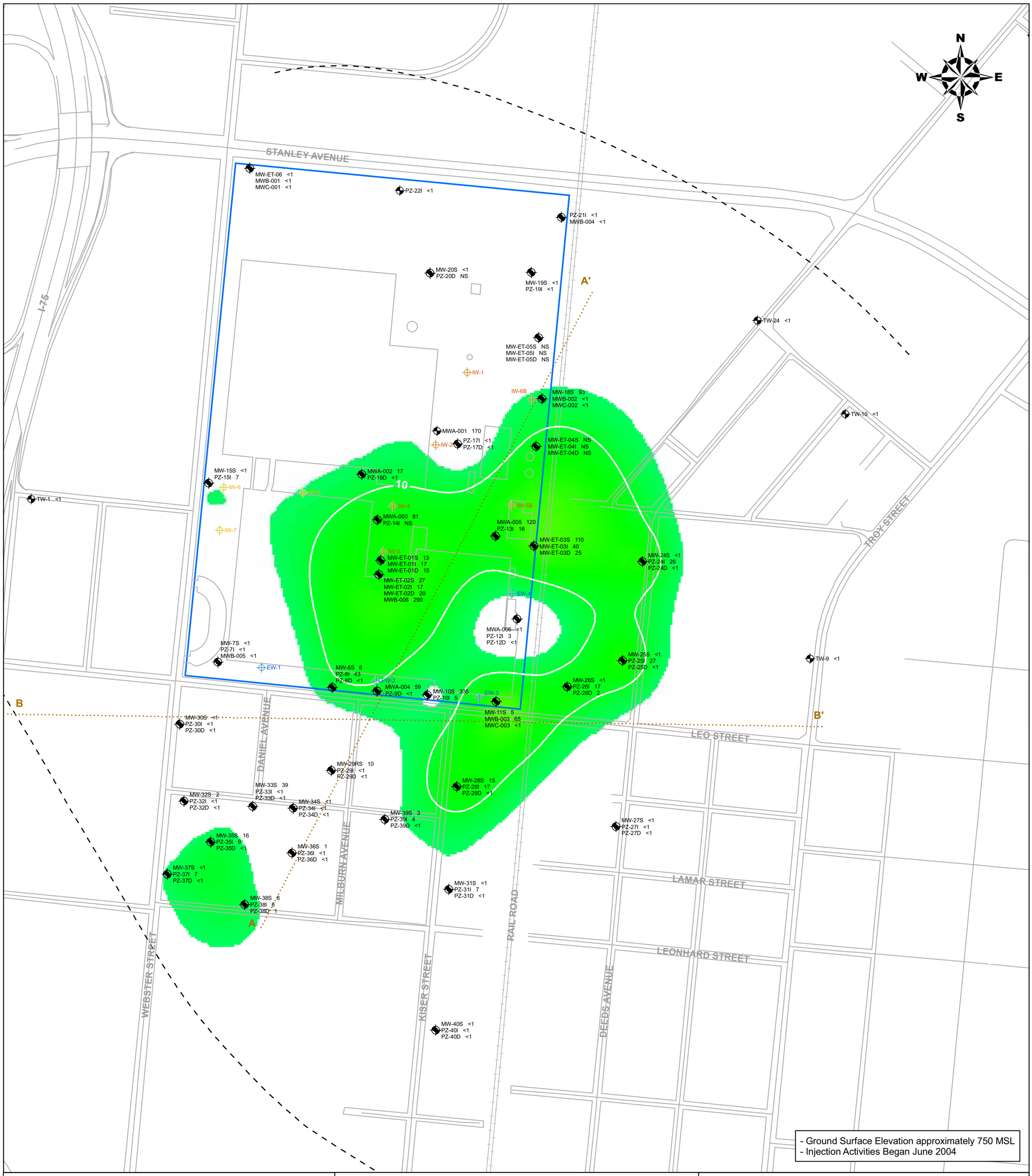


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

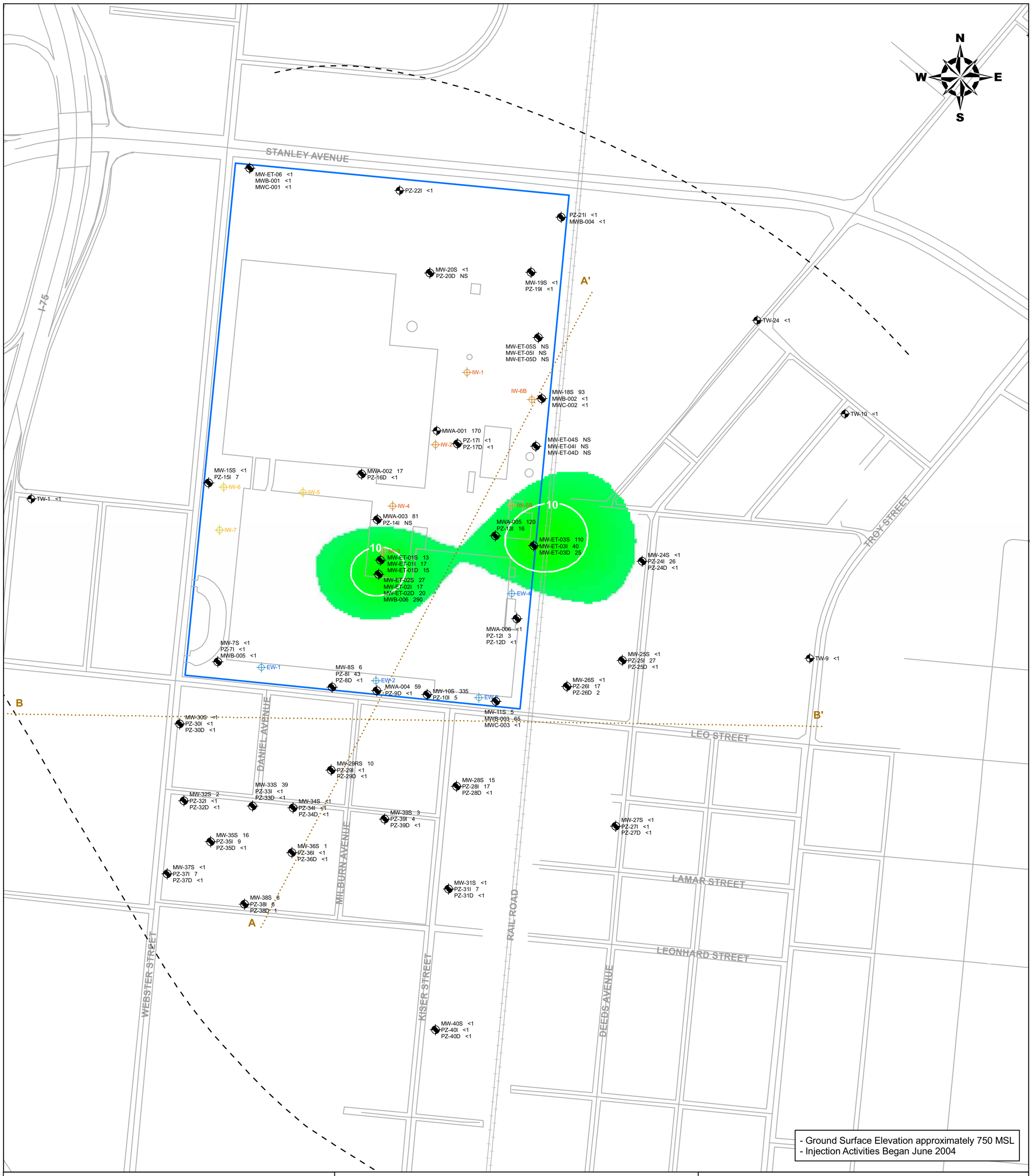
January 2009 98809

Figure 102

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 103

0 Feet 1,000

AECOM

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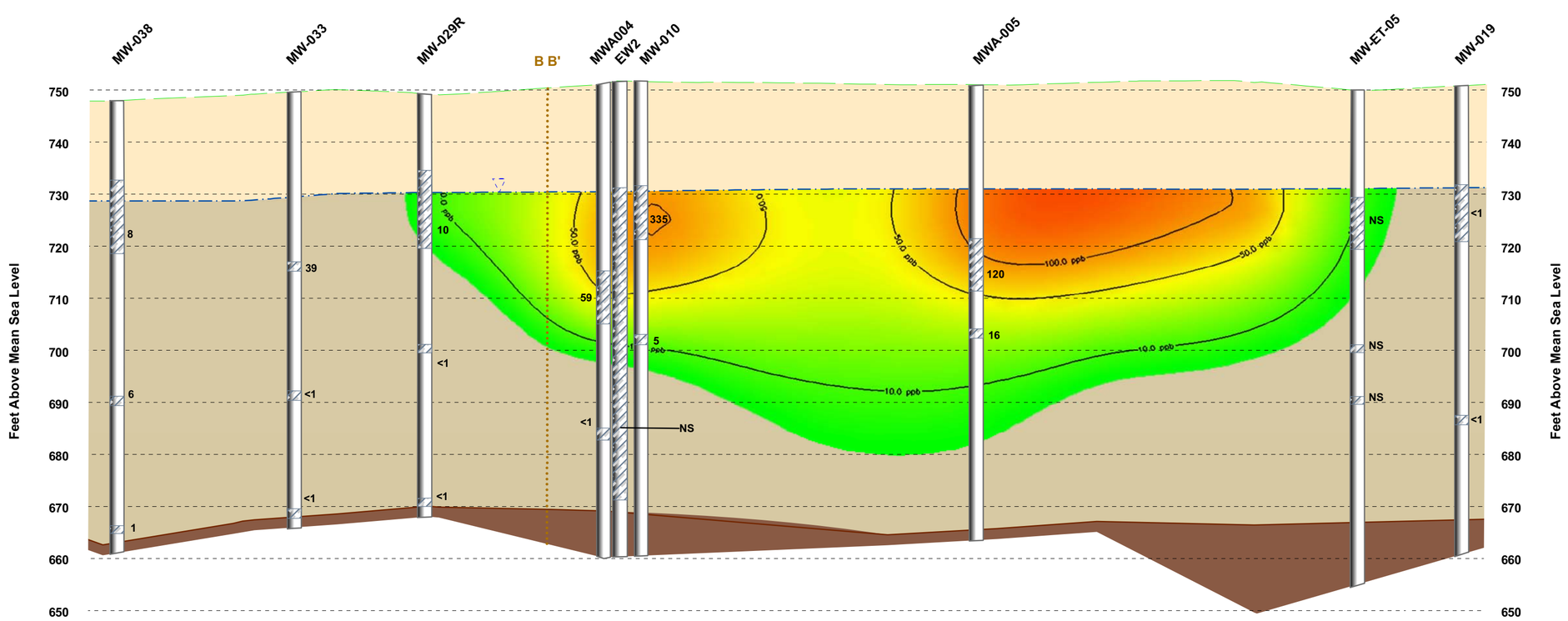
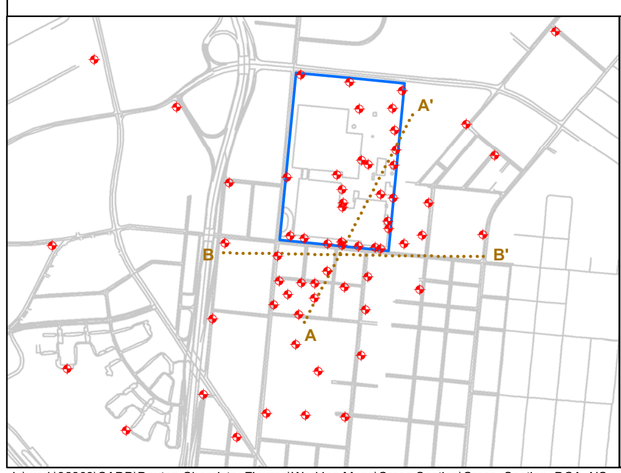




Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5
340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCA in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

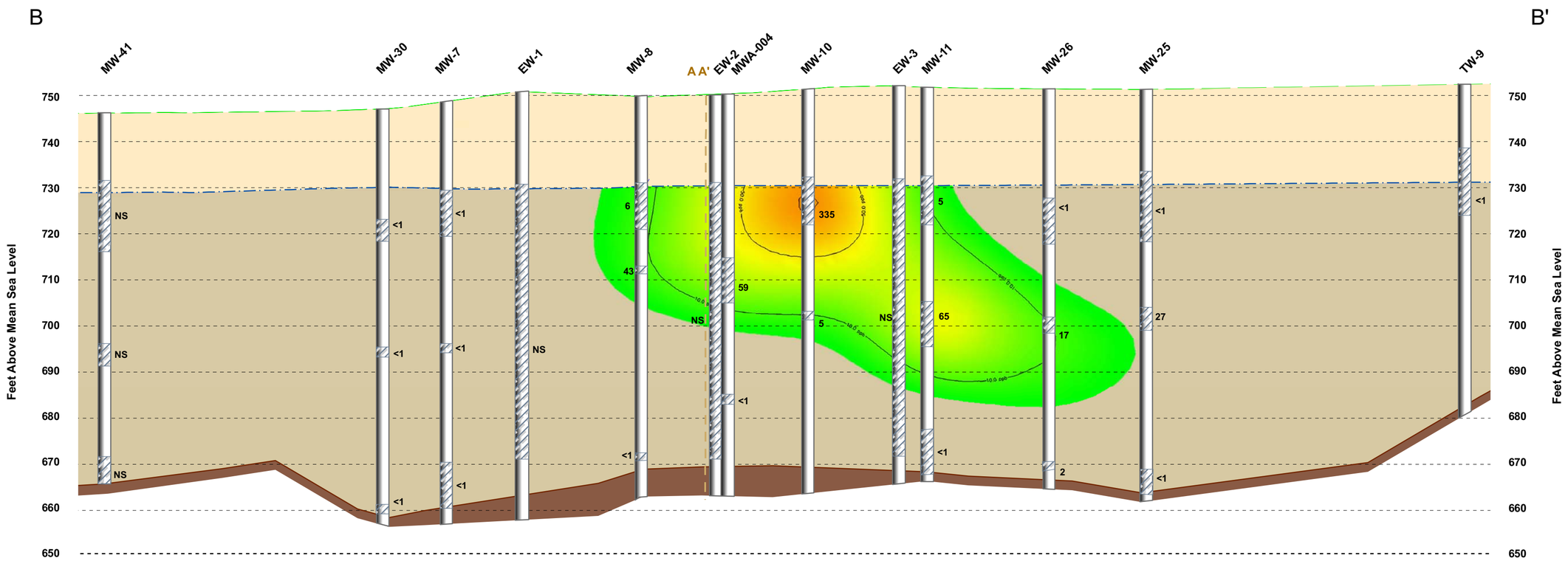
January 2009 98809

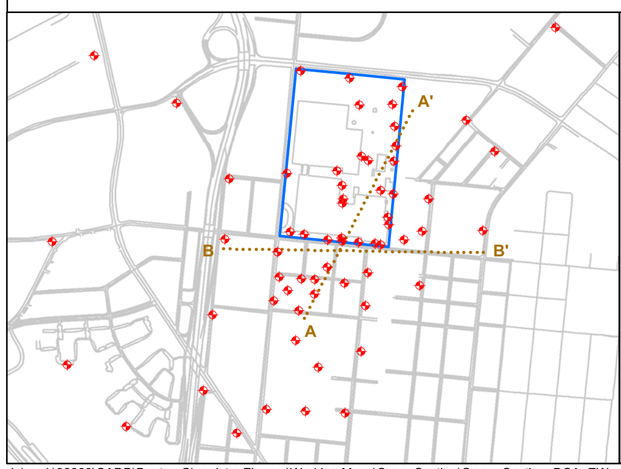
Figure 104

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCA_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5
340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCA in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 105

0 500
Feet

AECOM

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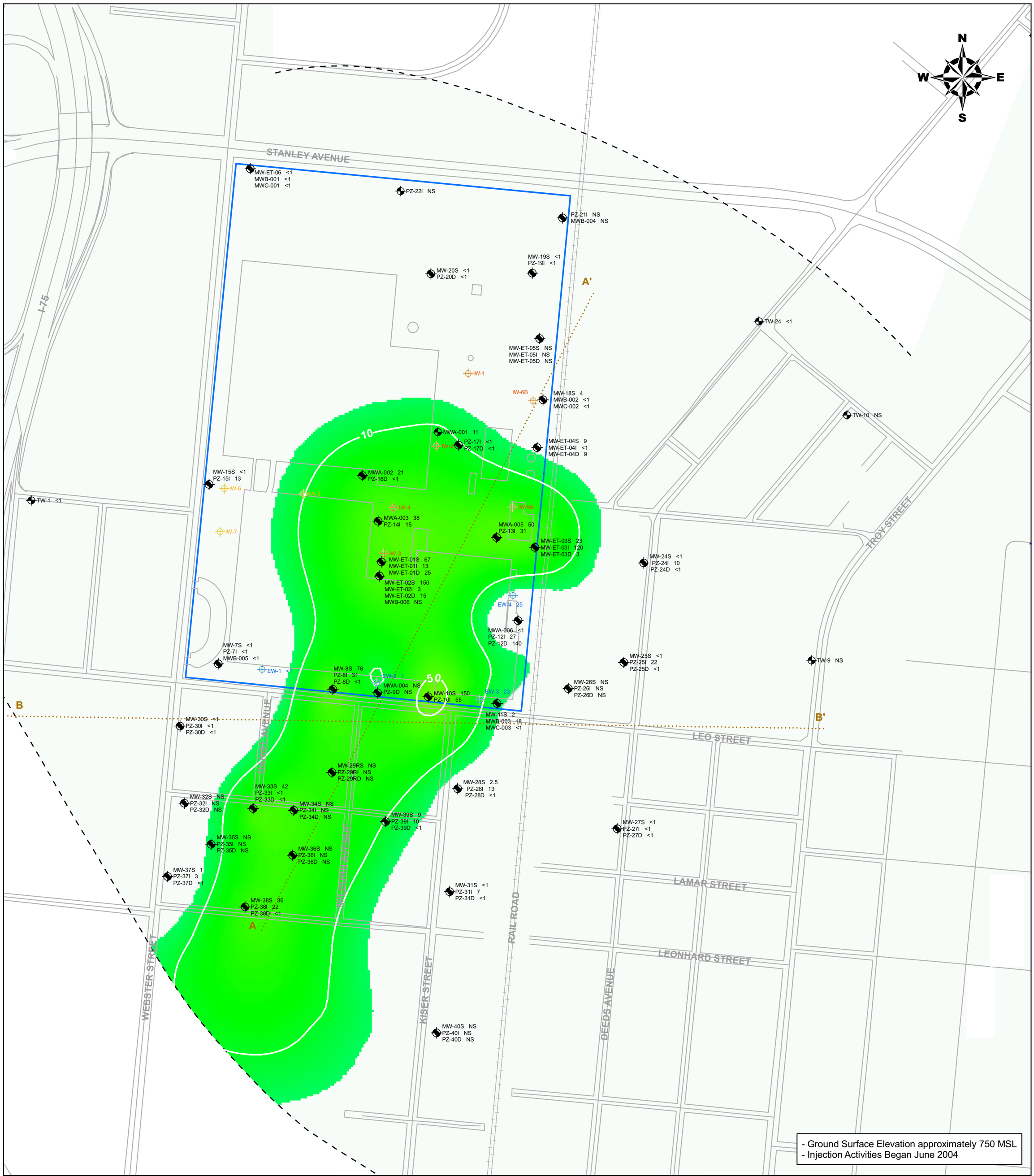

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 106

0 Feet 1,000

AECOM

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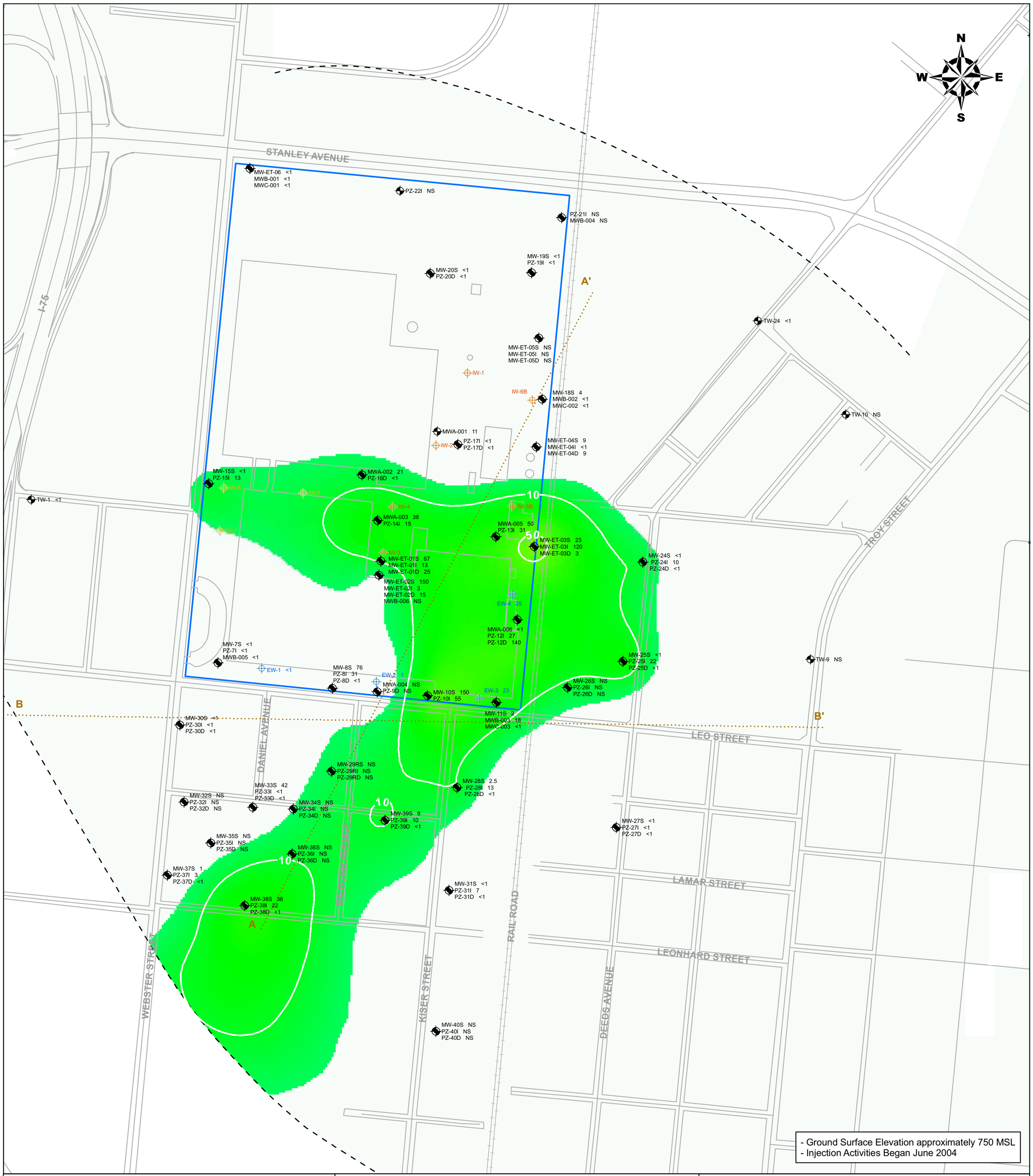


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

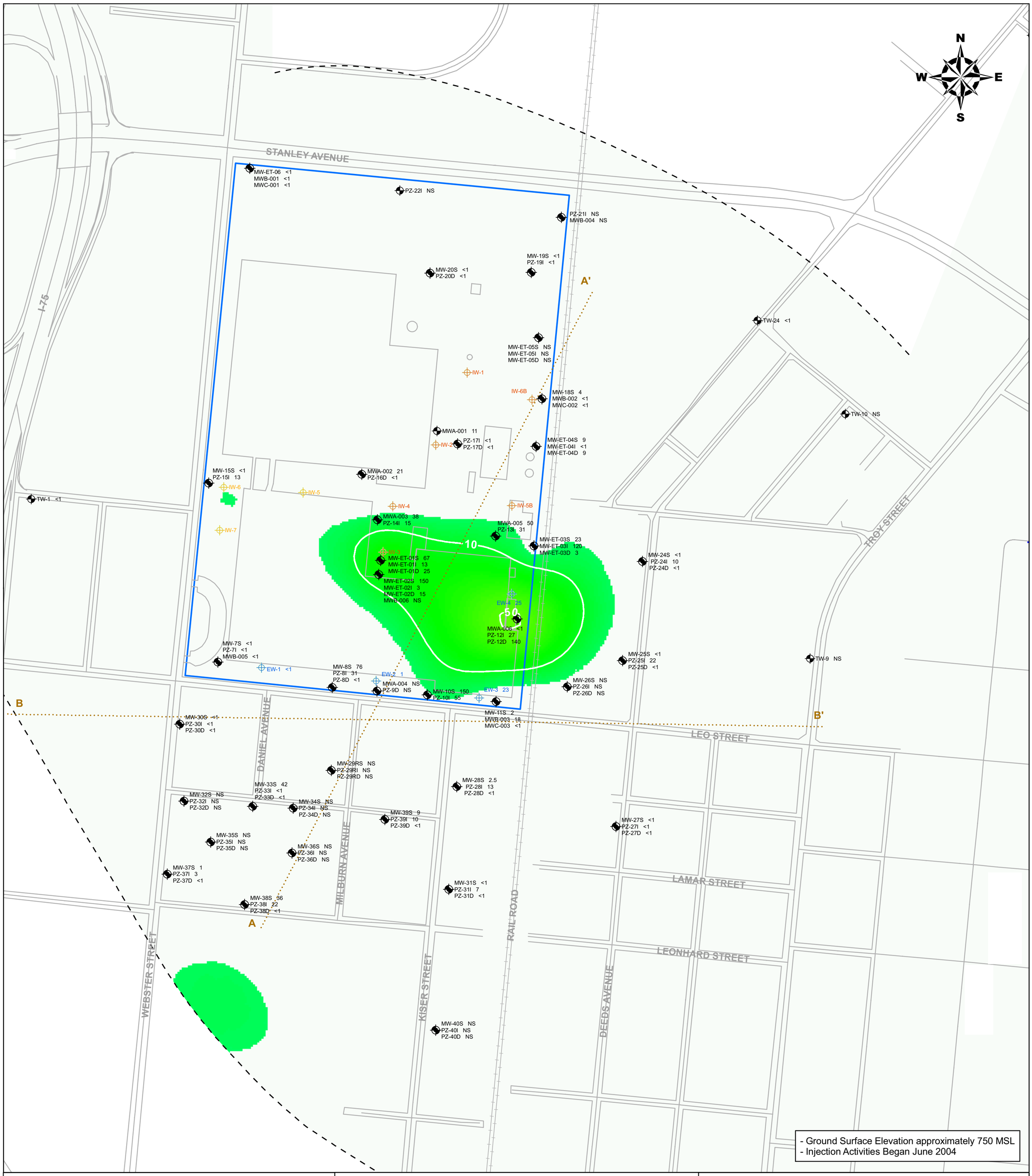
January 2009 98809

Figure 107

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCA.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

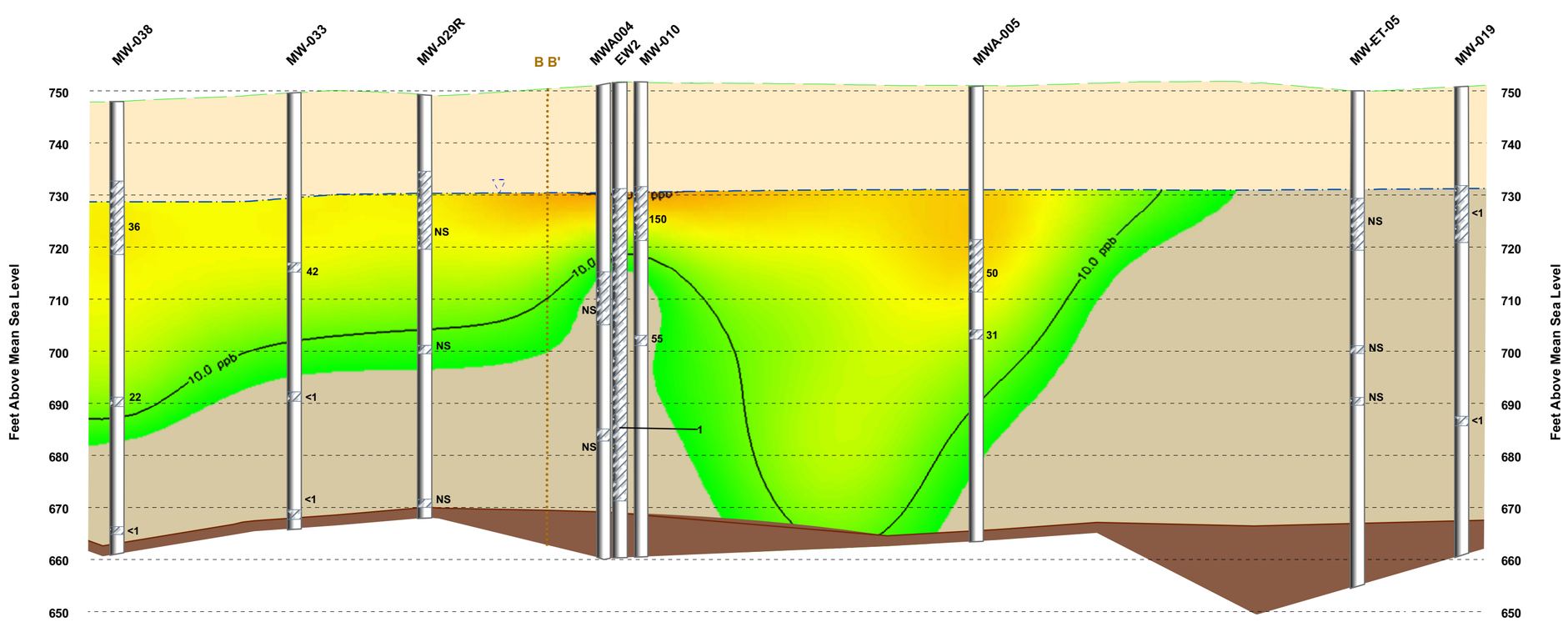
January 2009 98809

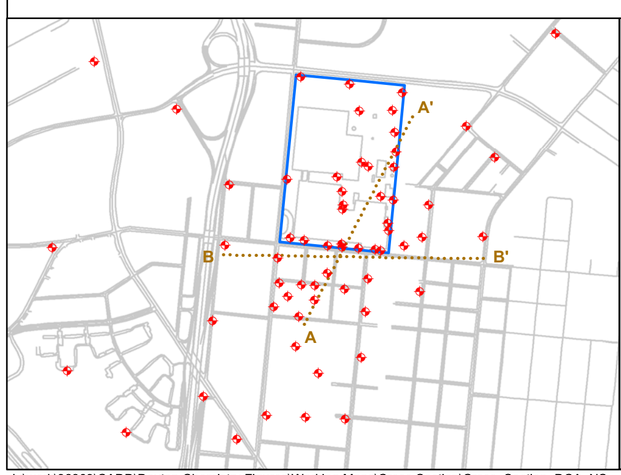
Figure 108

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCA.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B B' Cross Section Location
Plume Concentration (ppb)
5 340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCA in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 109

0 500
Feet

AECOM

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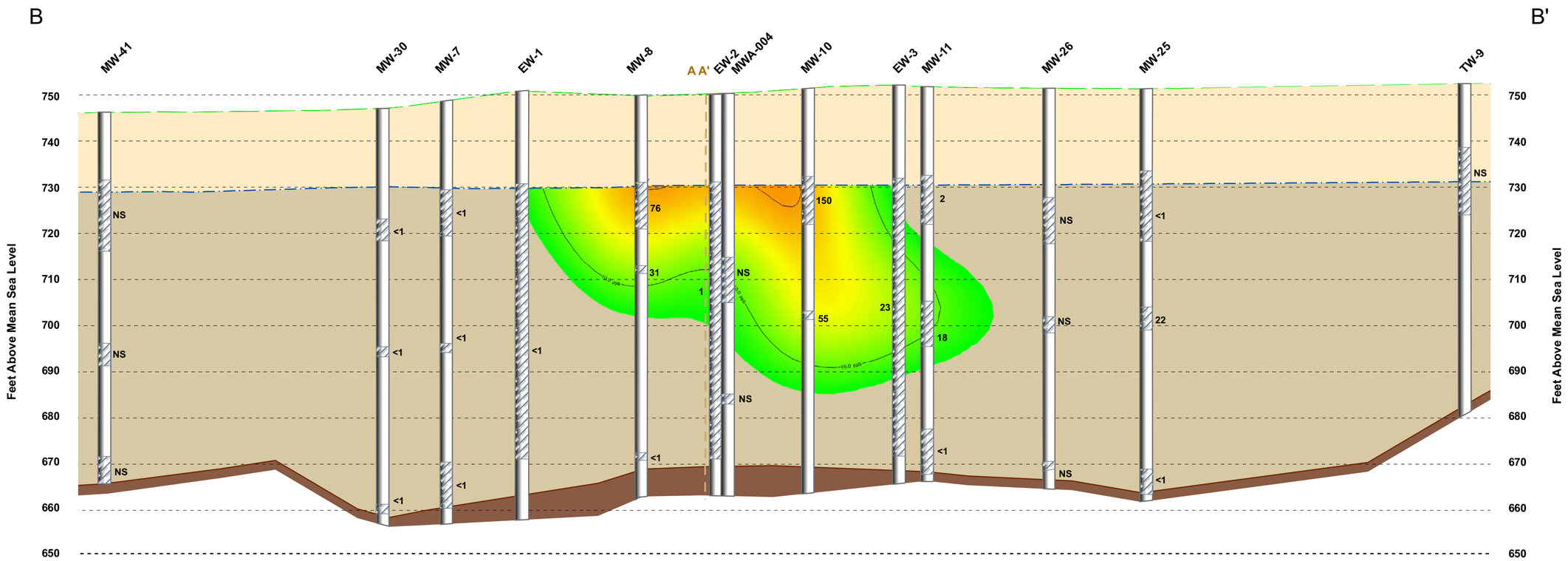

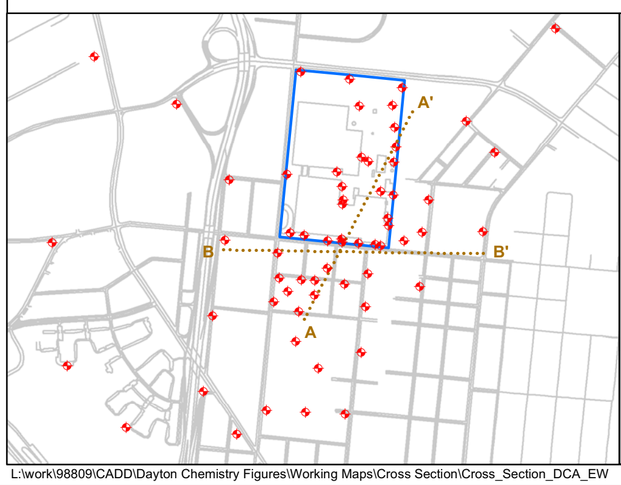

Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCA in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 110

0 500
Feet

AECOM

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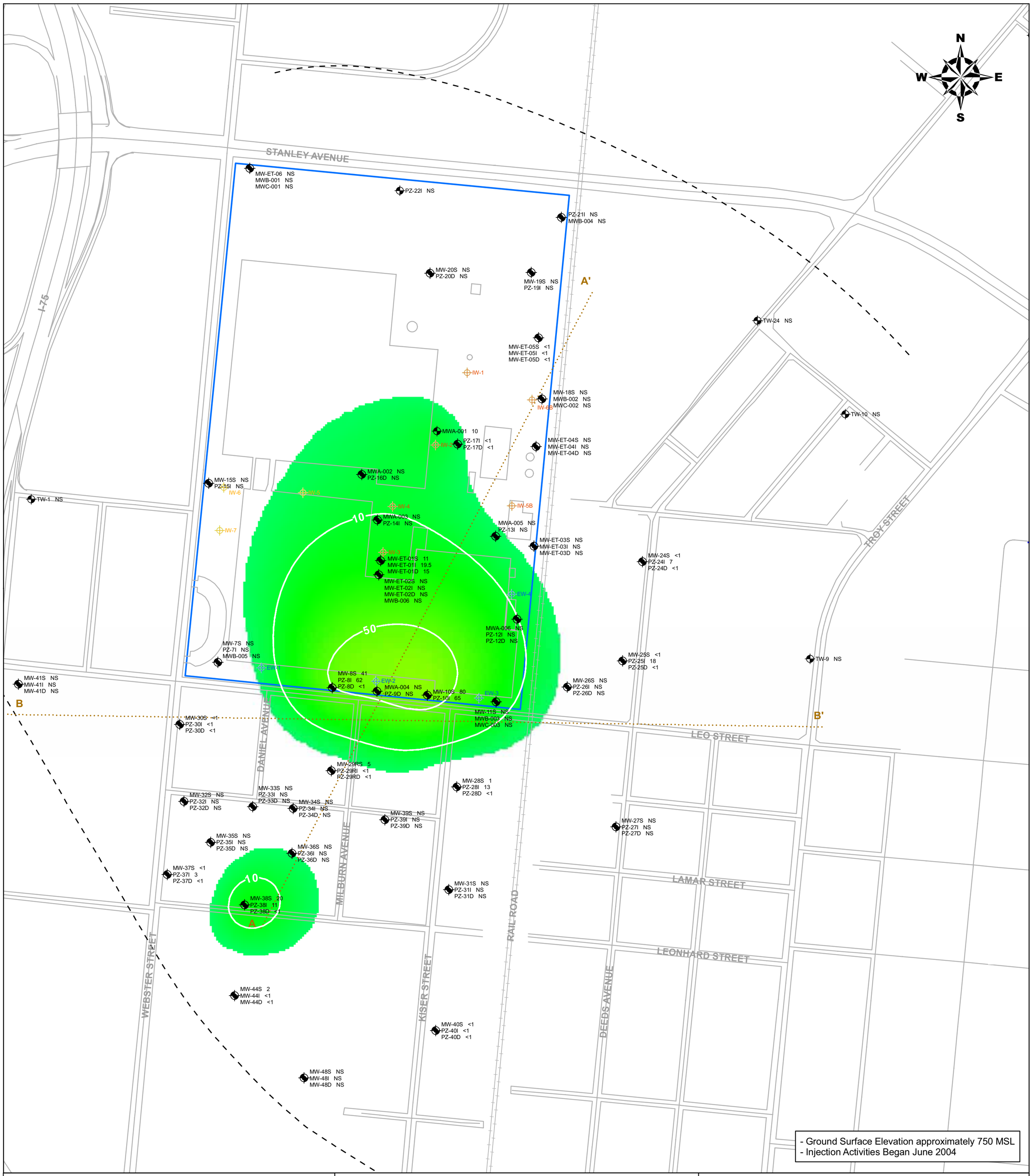

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 111

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCA.mxd

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 112

0 Feet 1,000

AECOM

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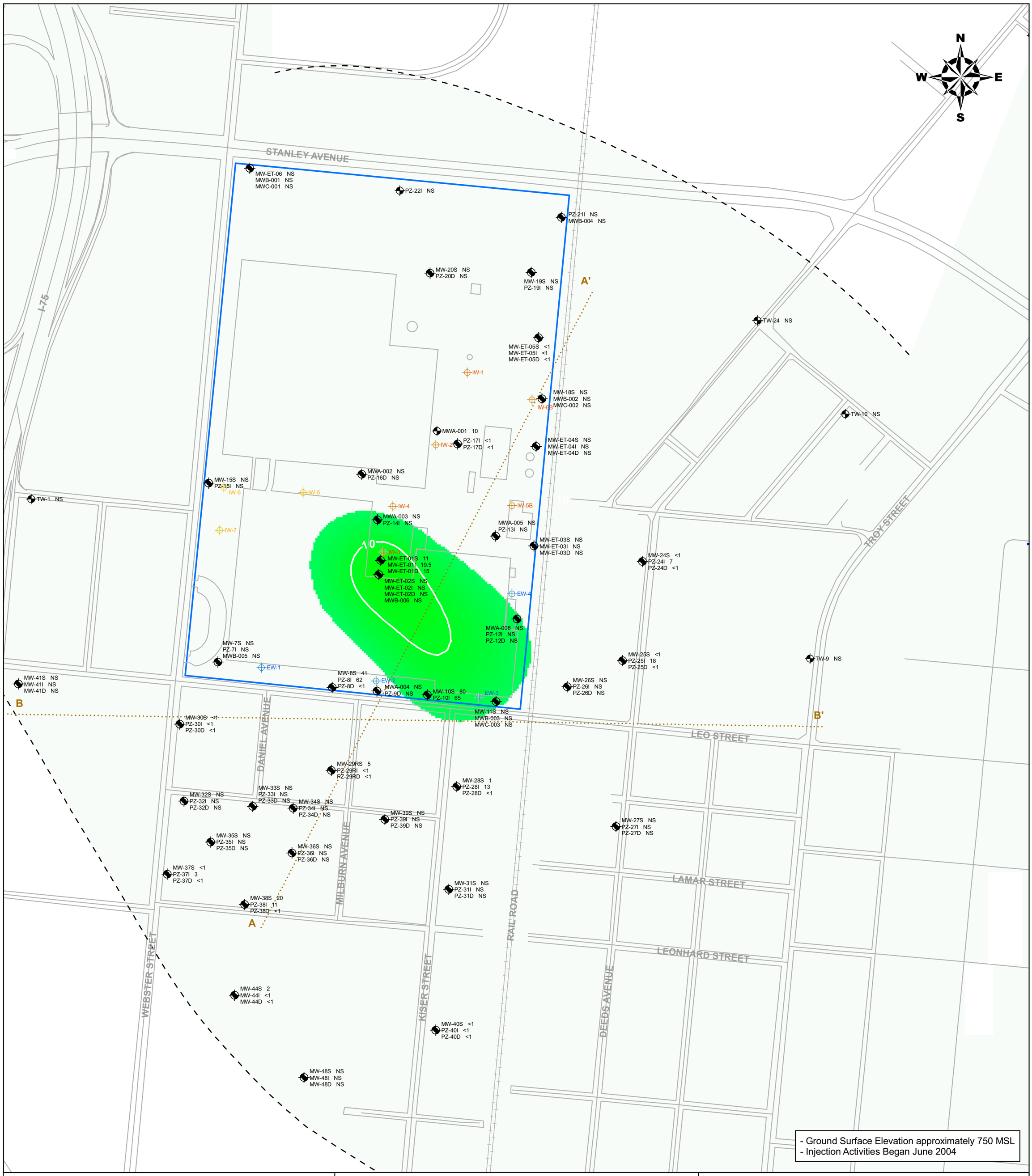


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 340

DCA in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

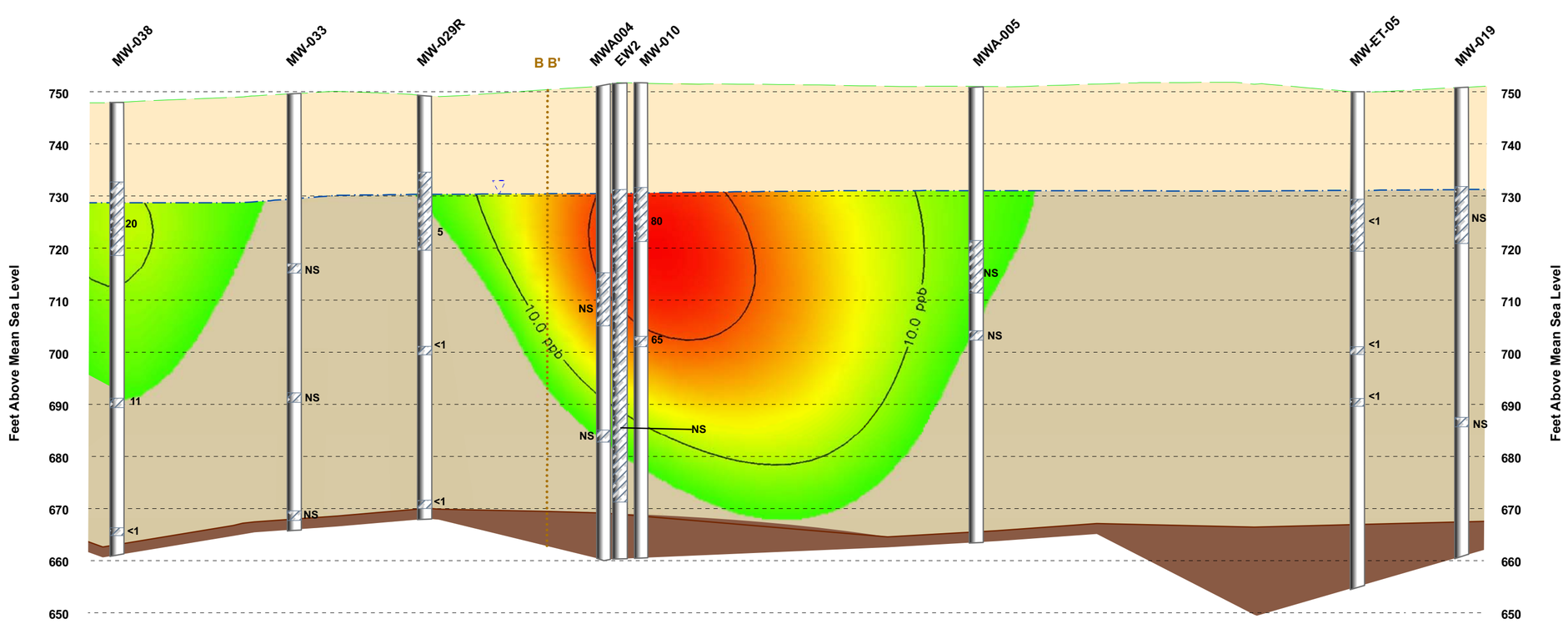
January 2009 98809

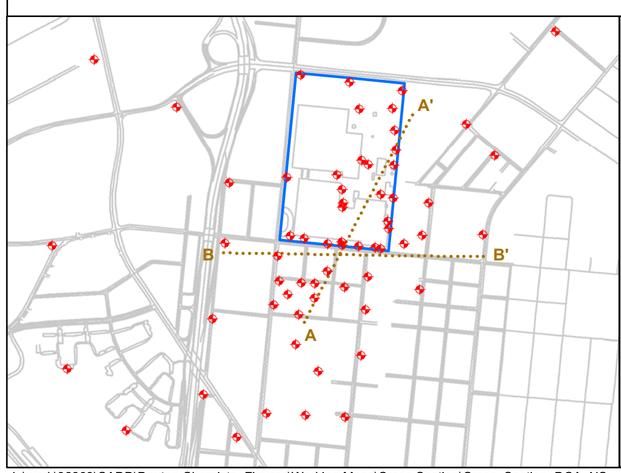
Figure 113

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCA.mxd





Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

B ..... B' Cross Section Location

Plume Concentration (ppb)

5 340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCA in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

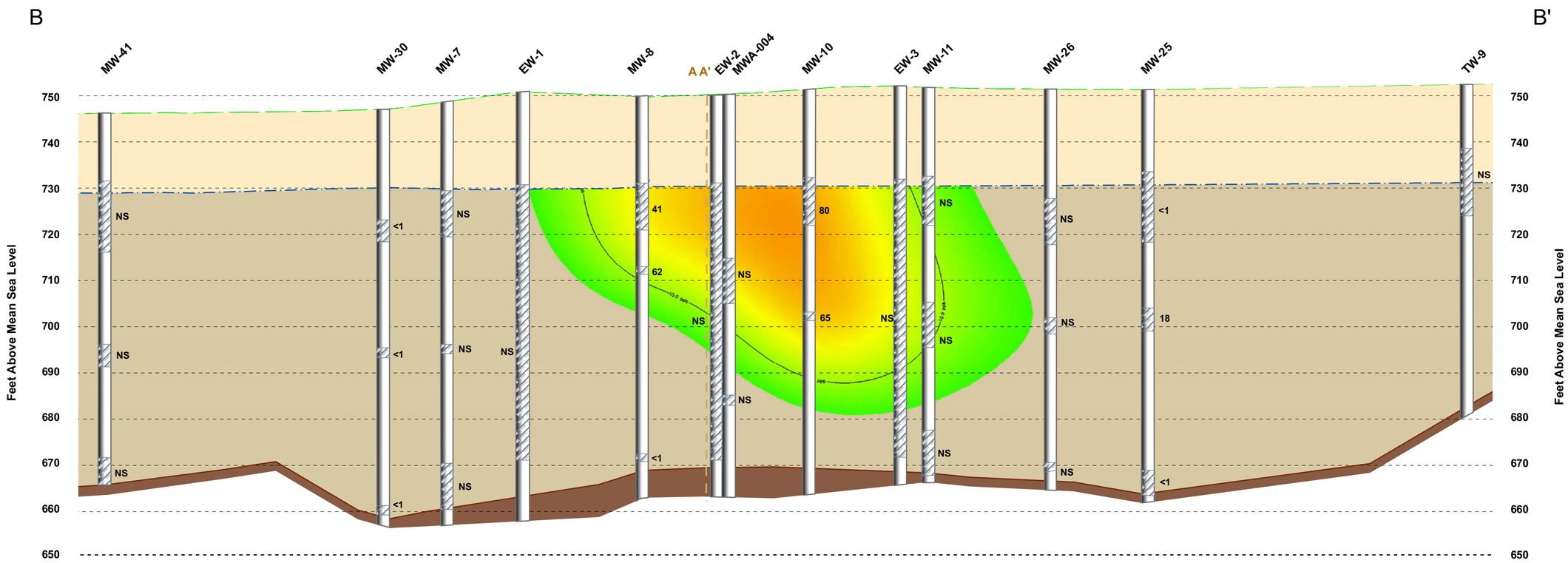
January 2009 98809

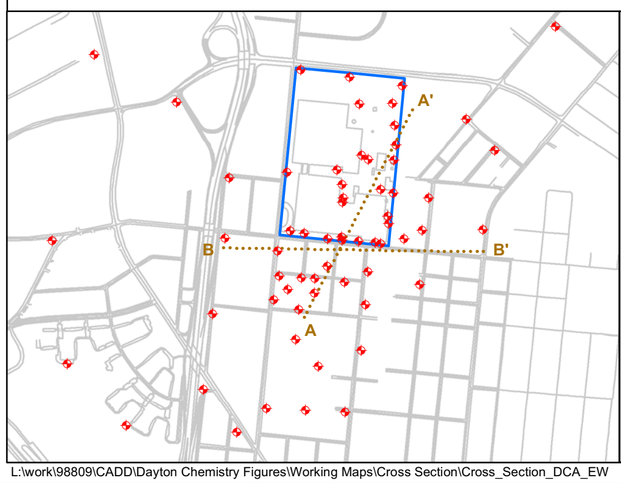
Figure 114

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCA_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 340

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCA in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 115

0 500
Feet

AECOM

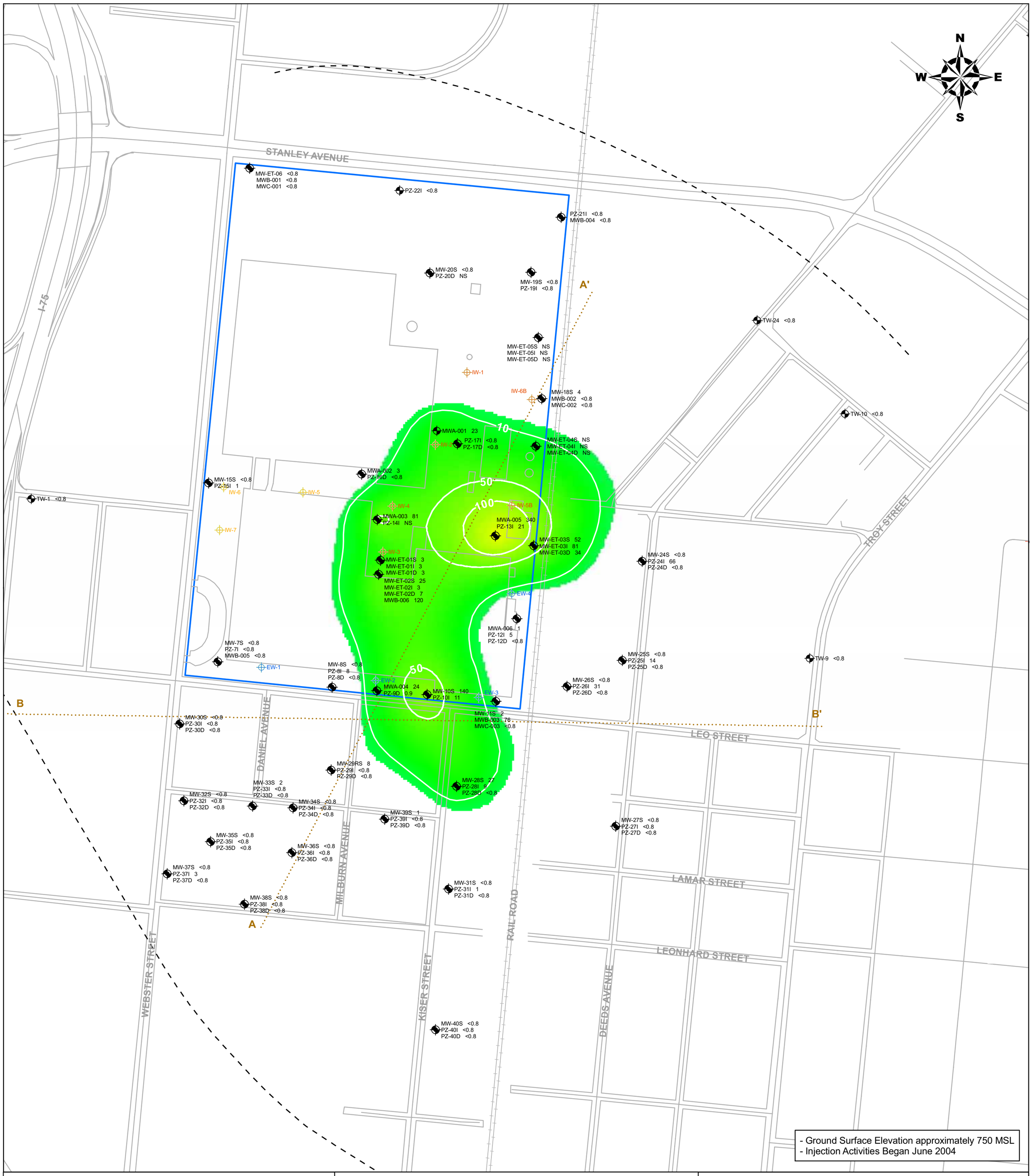
L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCA_EW

Figures 116 through 130

Response to OEPA Requests for Information
May 30, 2008 and October 10, 2008

Dayton Thermal Products Plant
Dayton, Ohio

January 29, 2009



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 720 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

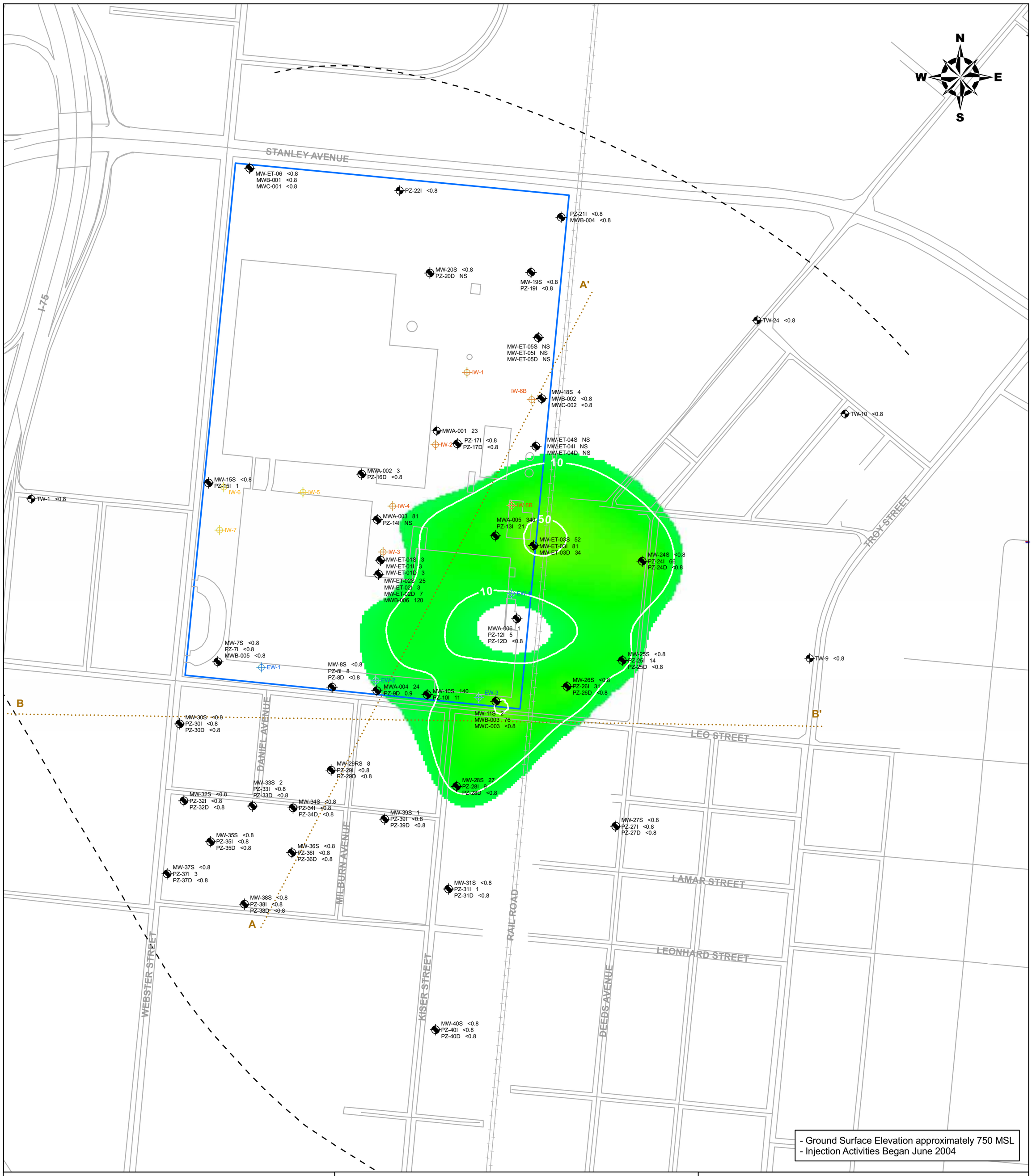
January 2009 98809

Figure 116

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 700 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

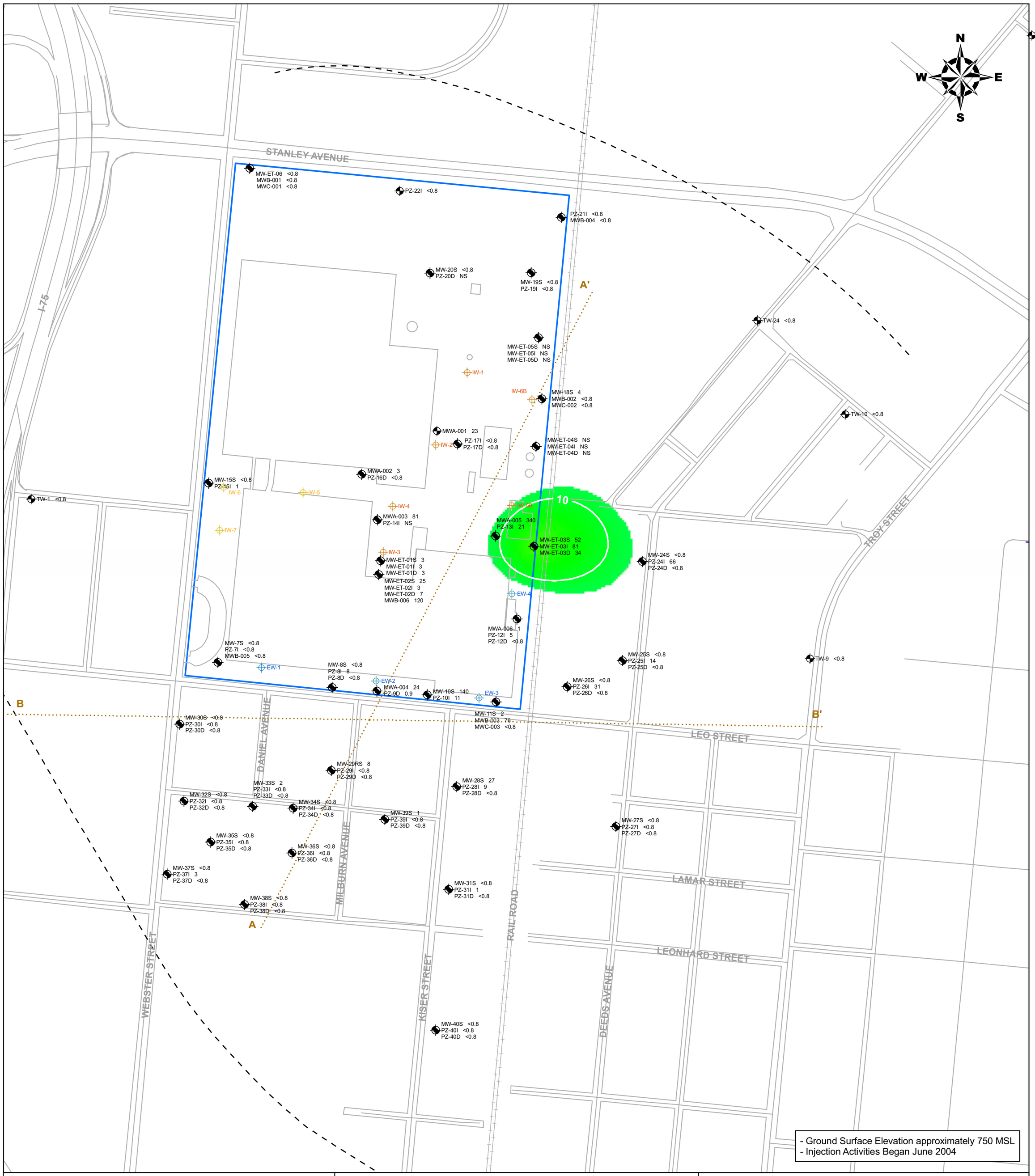
January 2009 98809

Figure 117

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 680 MSL

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

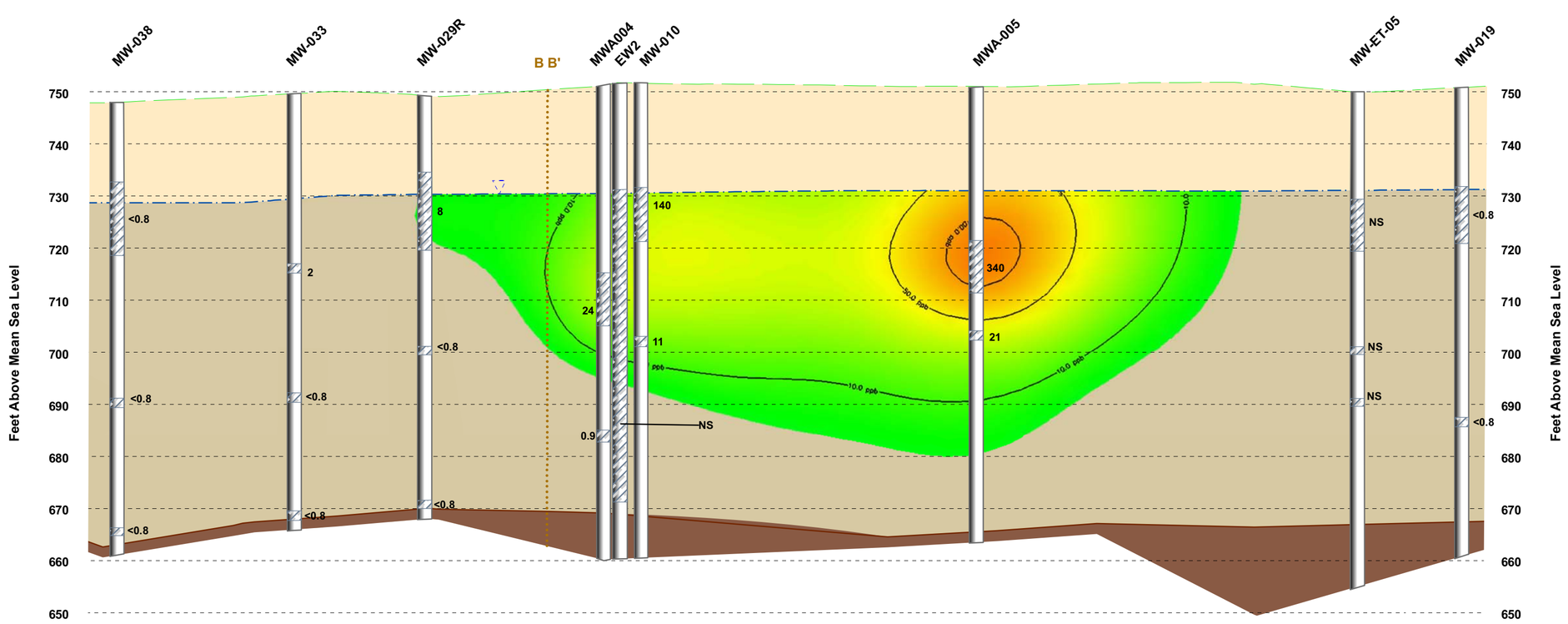
January 2009 98809

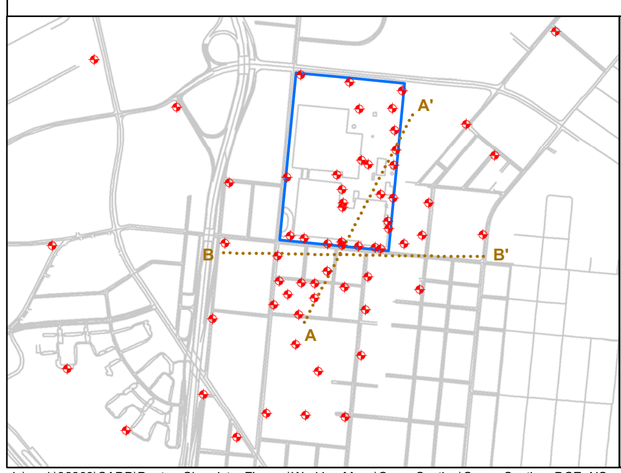
Figure 118

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCE.mxd





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCE in Groundwater South - North Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

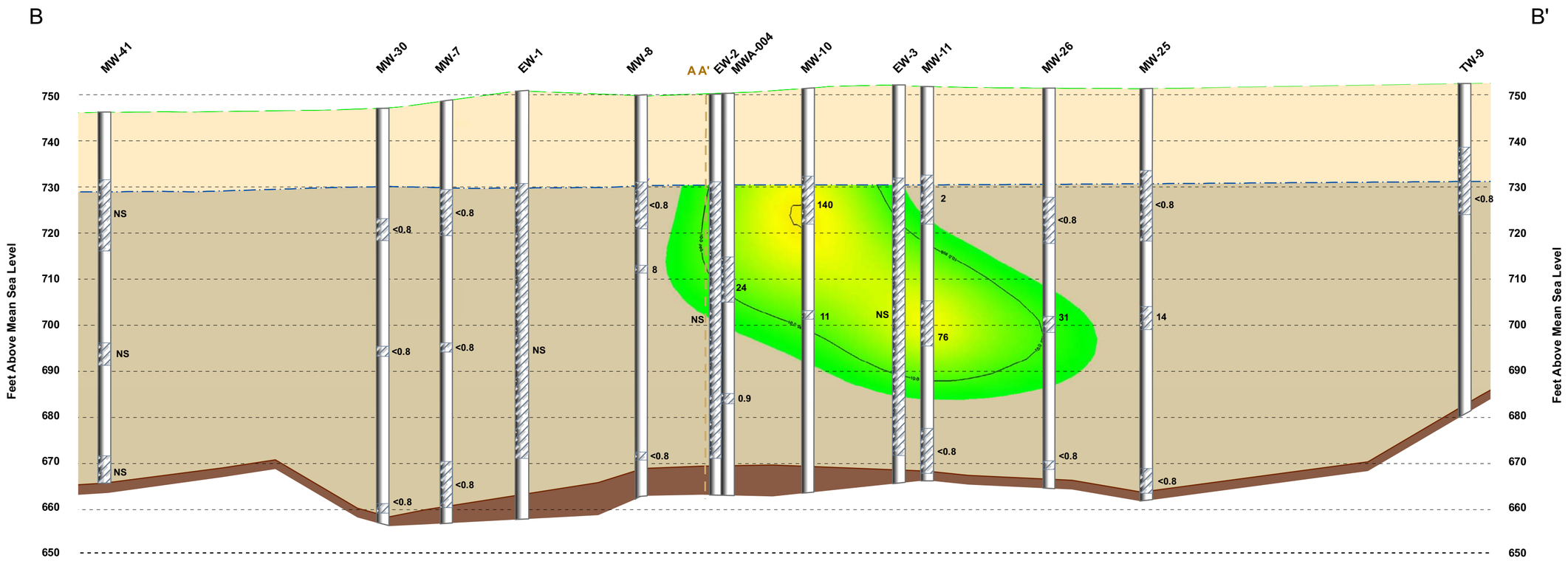
January 2009 98809

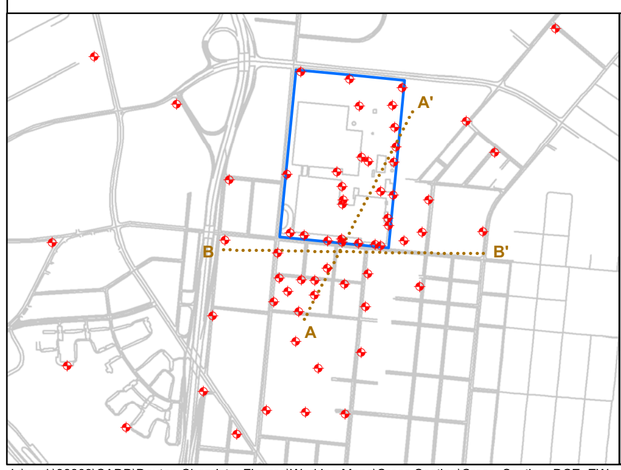
Figure 119

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCE in Groundwater West - East Cross Section

November 2003

Former Dayton Thermal Products Plant
Dayton, Ohio

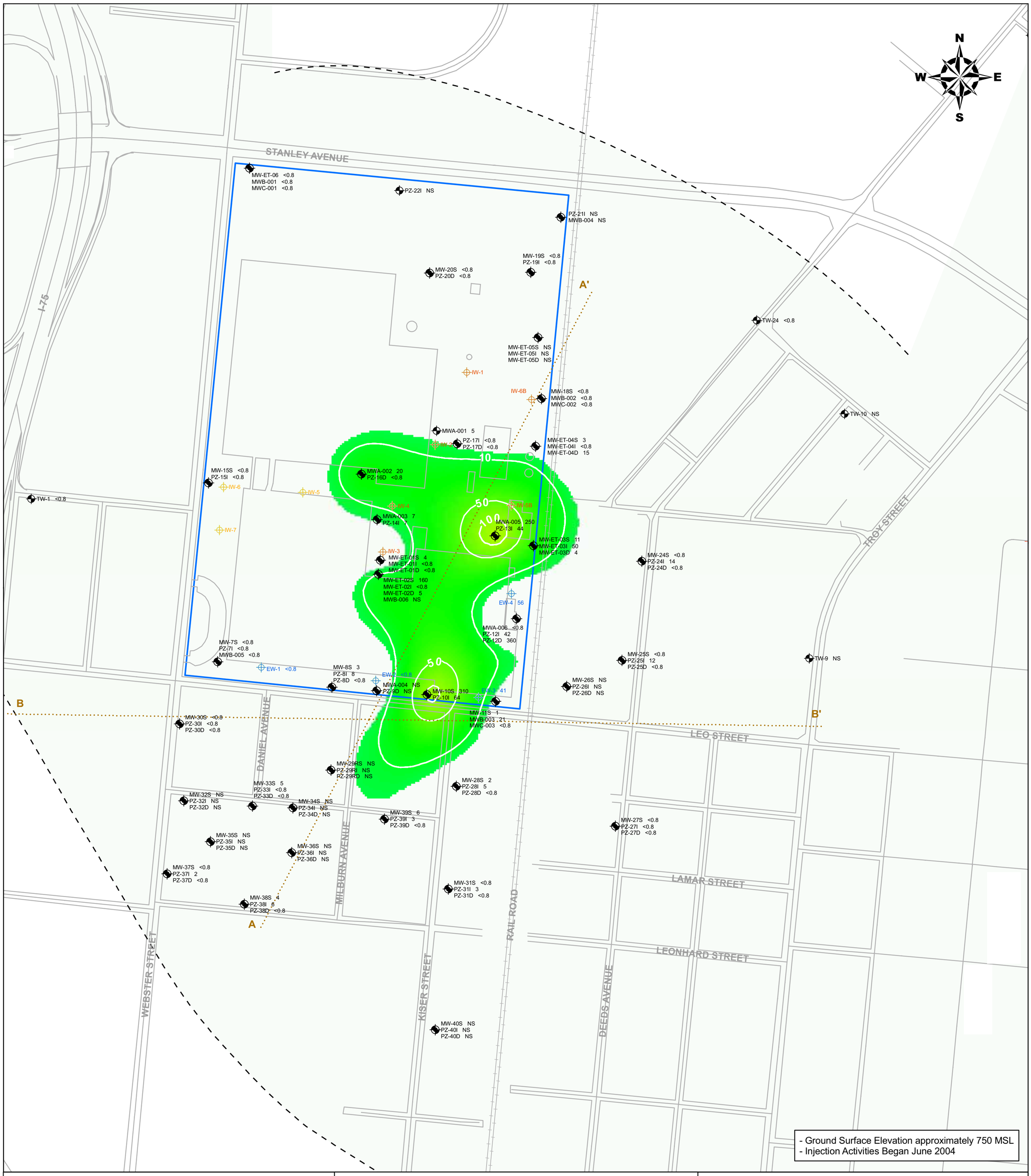
January 2009 98809

Figure 120

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCE_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 720 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 121

0 Feet 1,000

AECOM

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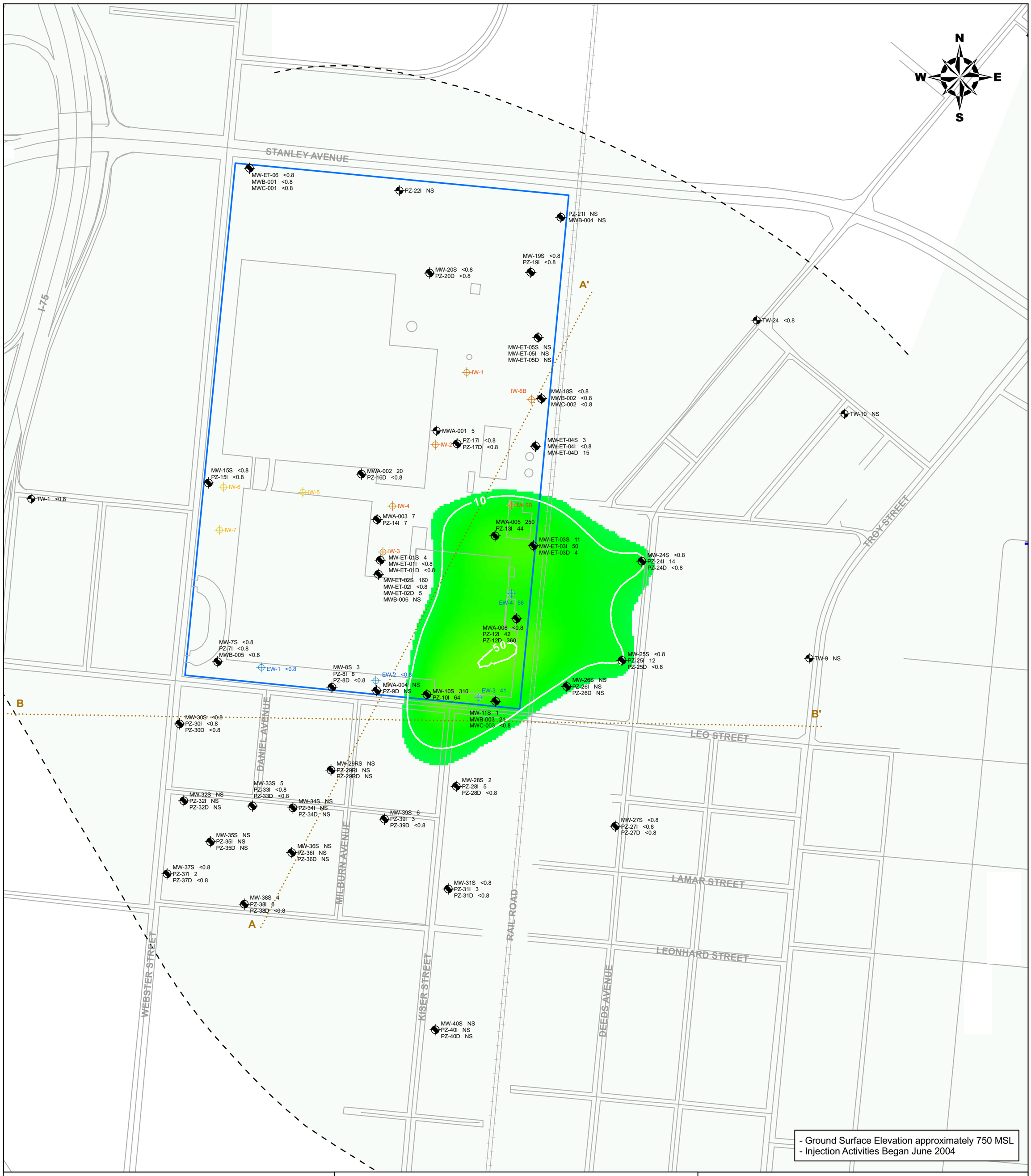


Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 700 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

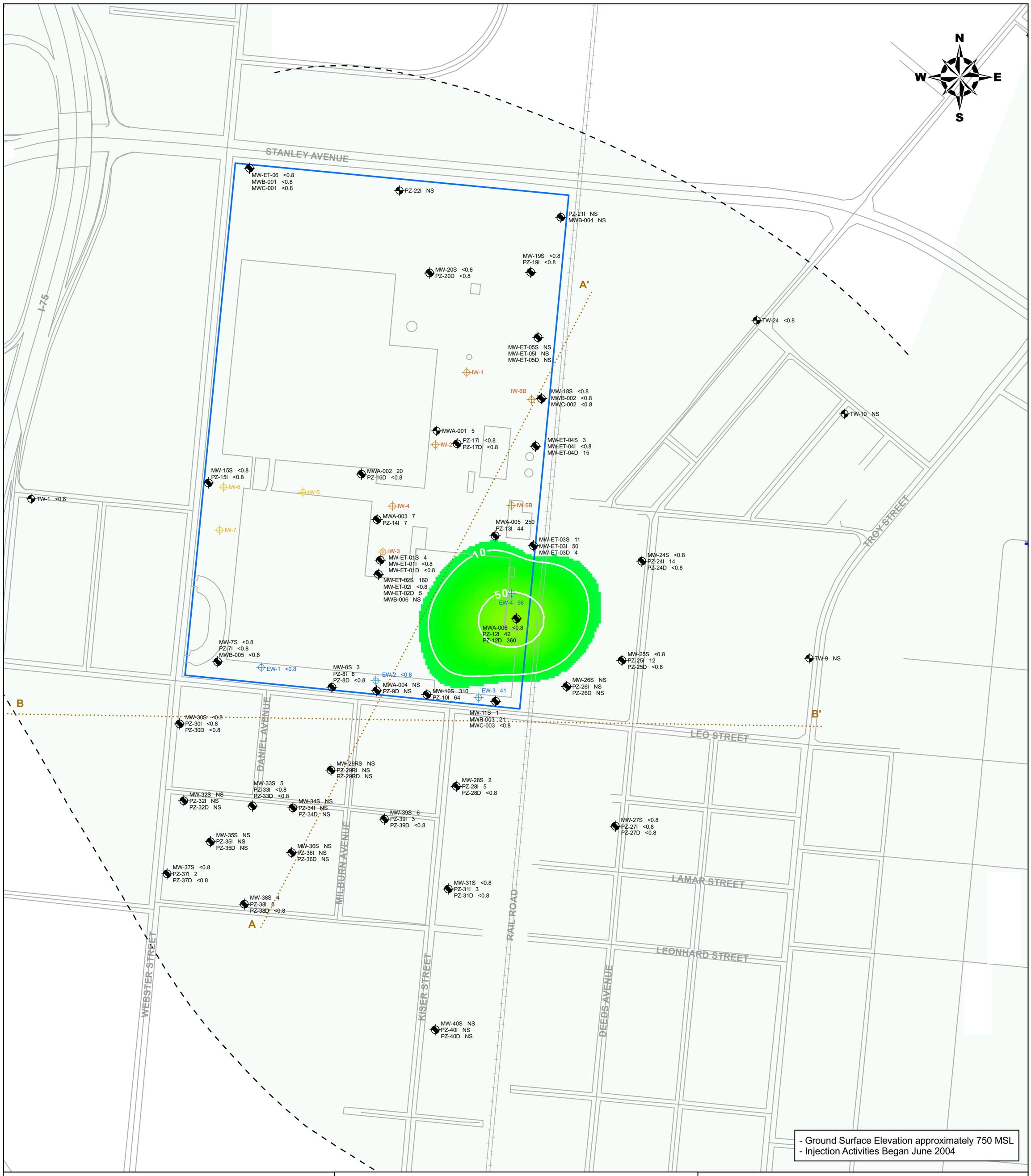
January 2009 98809

Figure 122

0 Feet 1,000

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Plan View\Chemistry_Plan_View_DCE.mxd



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 680 MSL

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 123

0 Feet 1,000

AECOM

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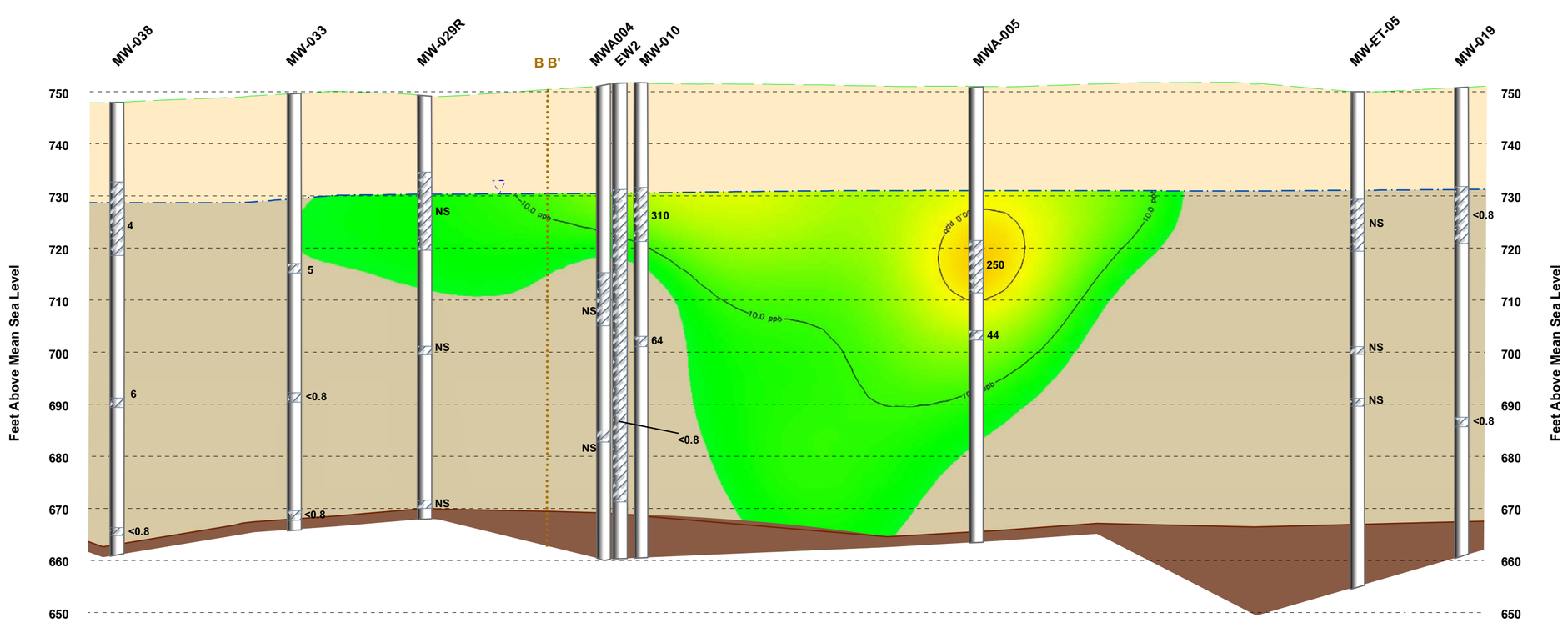
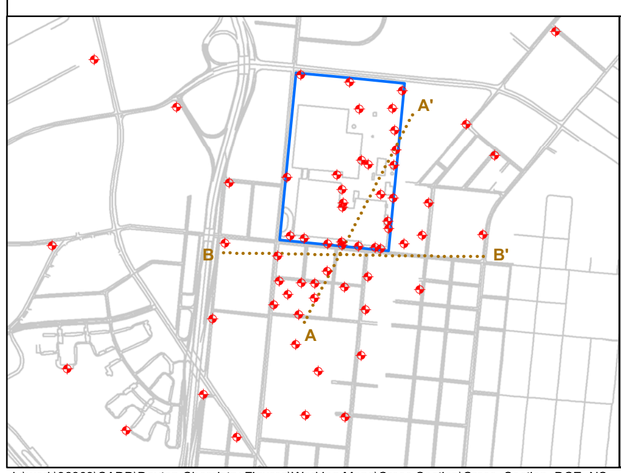




Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
B ..... B' Cross Section Location
Plume Concentration (ppb)
5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCE in Groundwater South - North Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

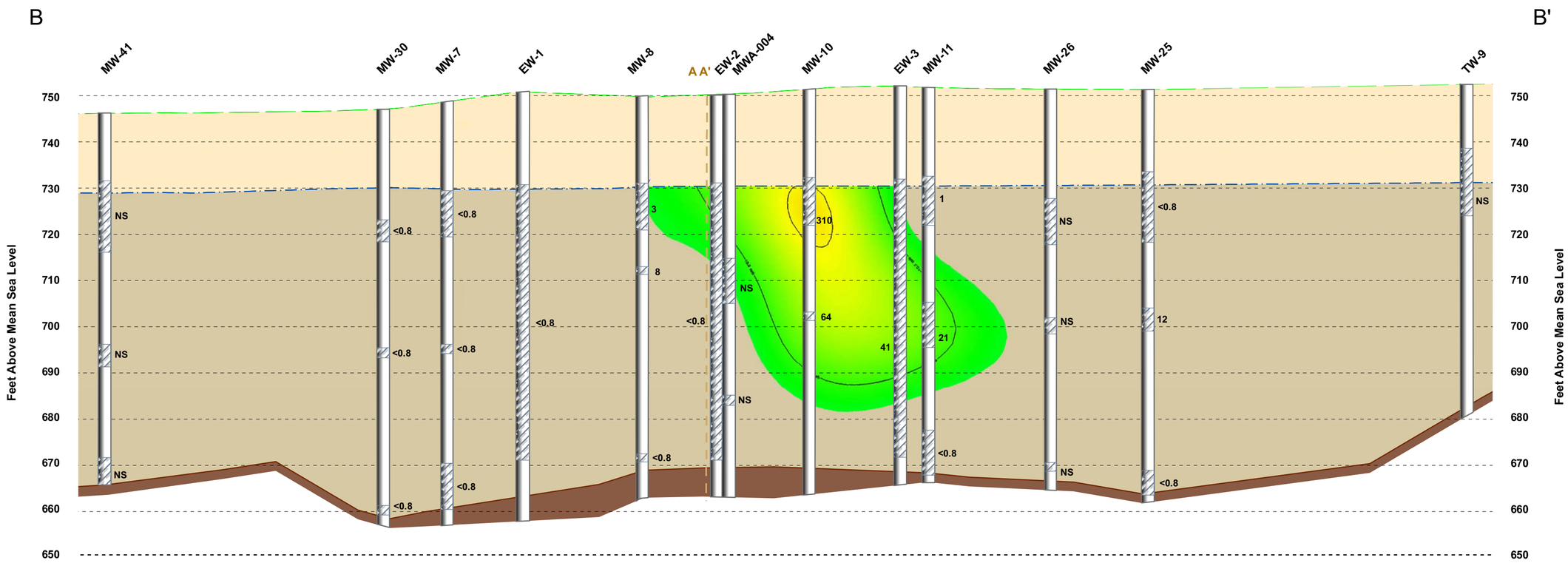
January 2009 98809

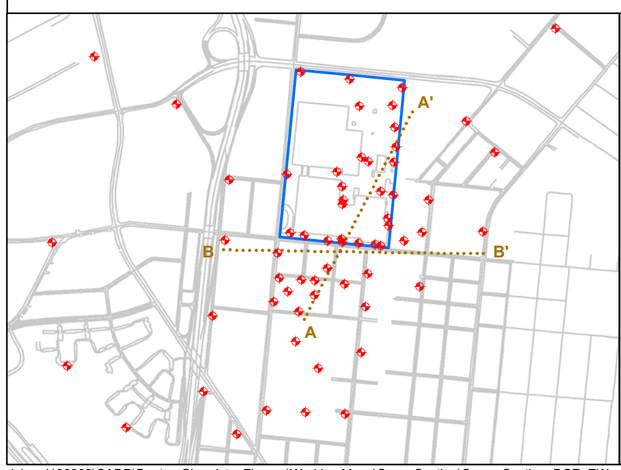
Figure 124

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCE_NS





Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.
2. NS = Not Sampled

DCE in Groundwater West - East Cross Section

November 2005

Former Dayton Thermal Products Plant
Dayton, Ohio

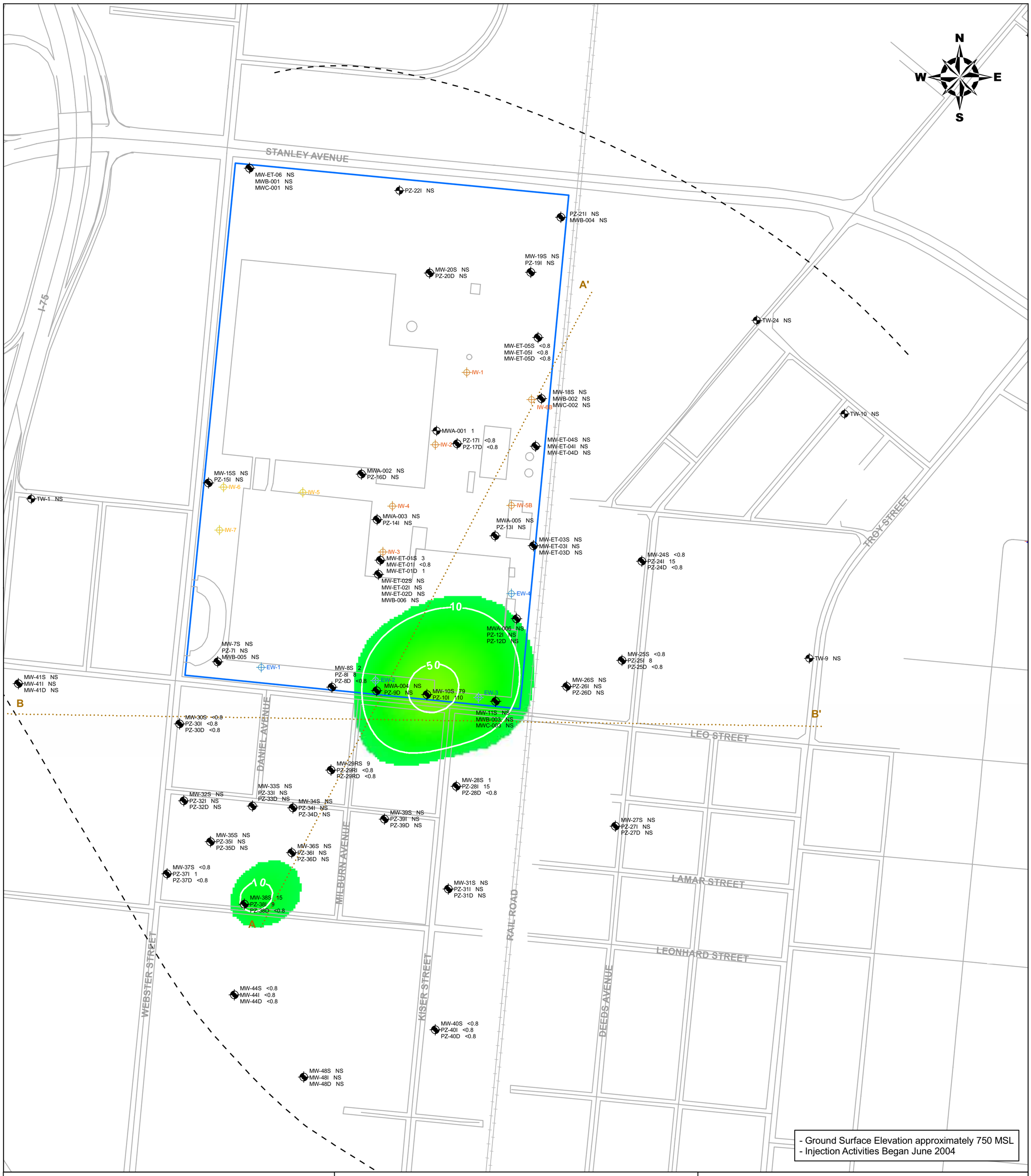
January 2009 98809

Figure 125

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCE_EW



Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 720 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 126

0 Feet 1,000

AECOM

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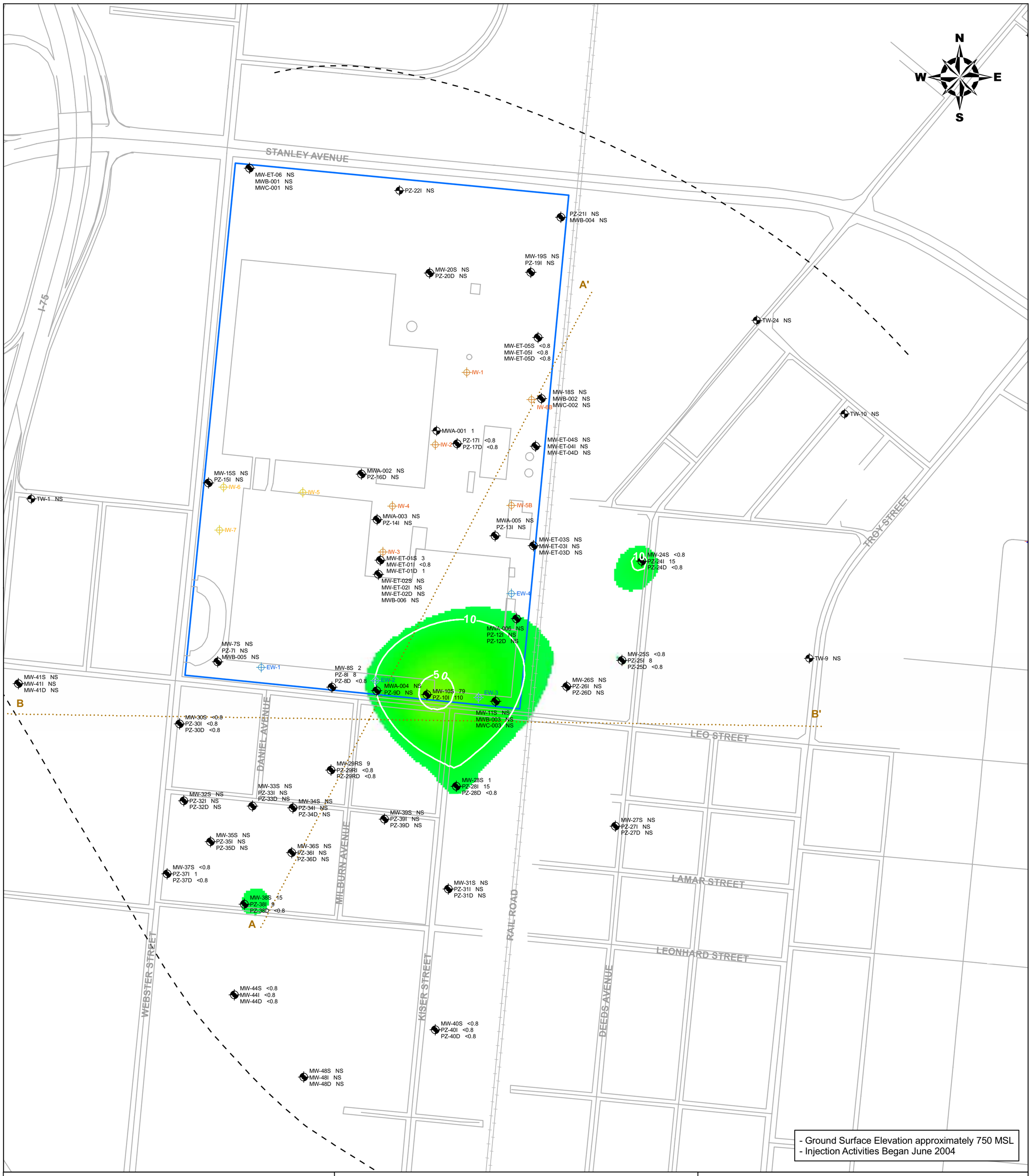

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 700 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 127

0 Feet 1,000

AECOM

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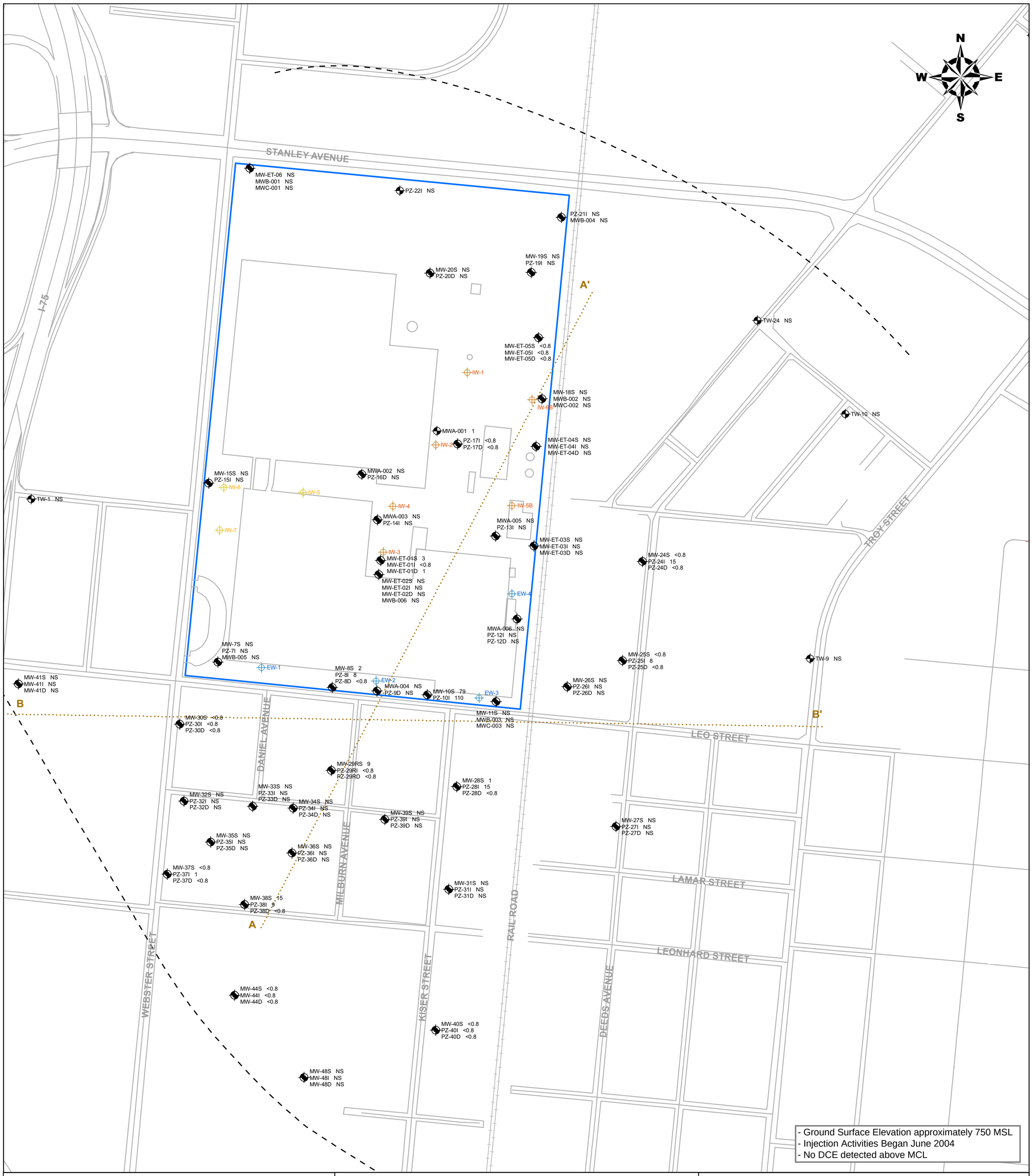

Extraction Well
Injection Well
Injection Well (Not Used)
Monitoring Well
Well Nest
Behr Property Boundary
Extent of Data Presented
Cross Section Location
Plume Concentration (ppb)
5 360

DCE in Shallow Groundwater at 680 MSL

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 128

0 Feet 1,000

AECOM

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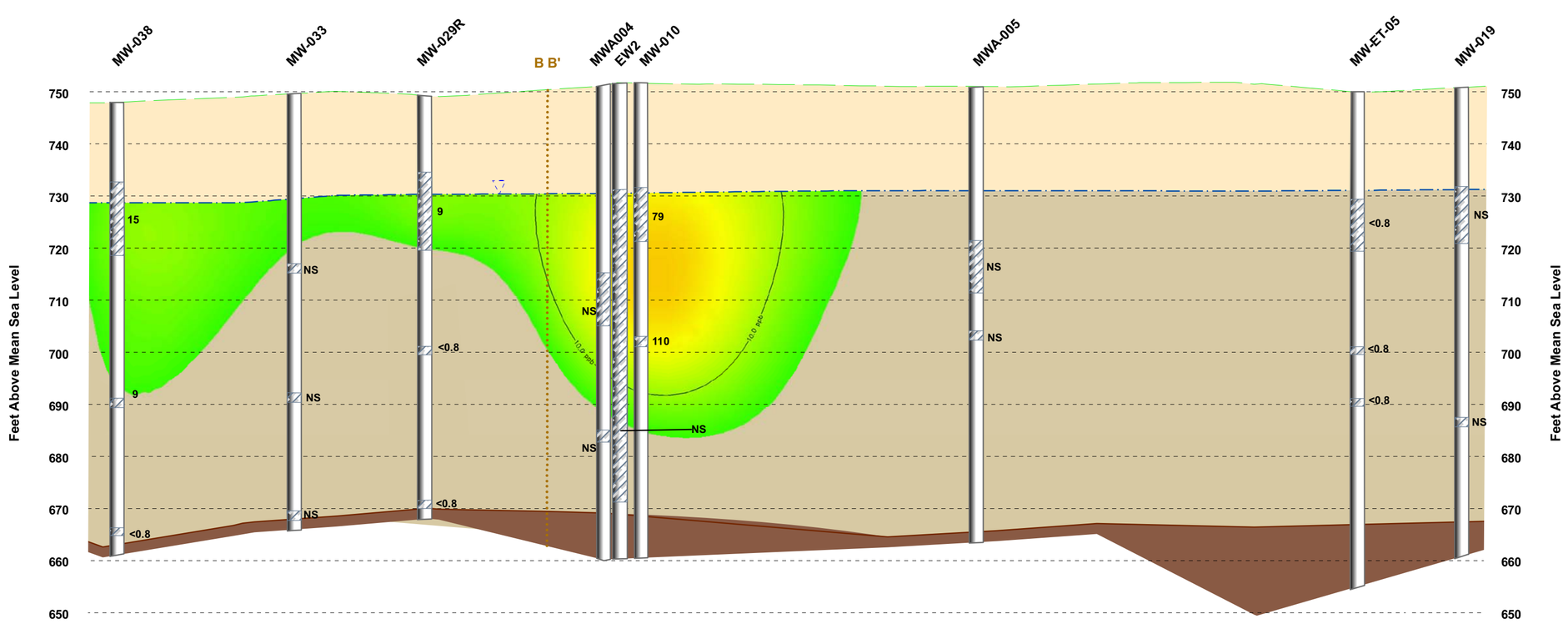

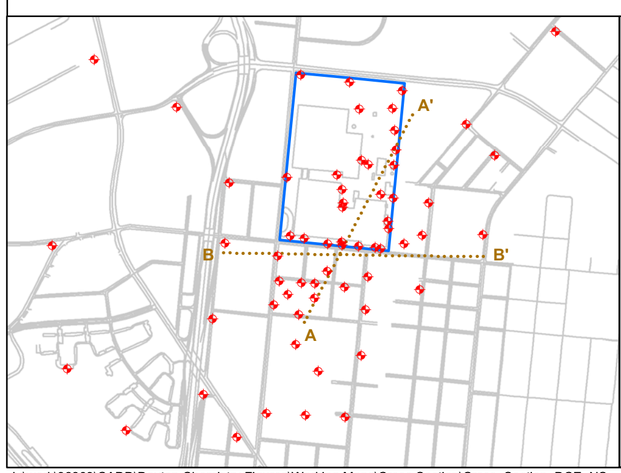

Monitoring Well

Ground Surface

Water Table Surface

Top of Clay

Unsaturated Aquifer

Saturated Aquifer

Clay

Behr Property Boundary

B ..... B' Cross Section Location

Plume Concentration (ppb)

5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCE in Groundwater South - North Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 129

0 500
Feet

AECOM

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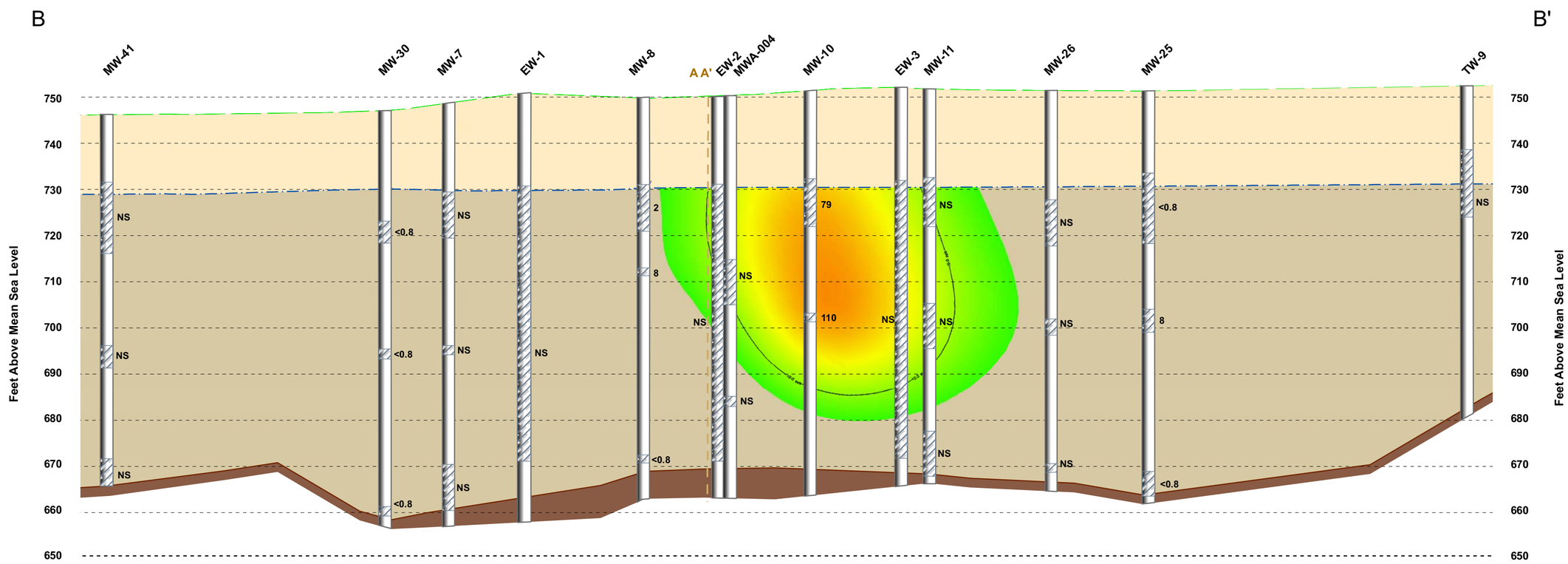
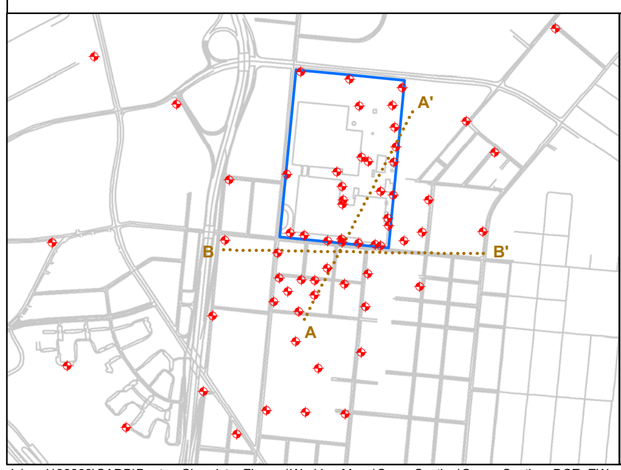




Monitoring Well
Ground Surface
Water Table Surface
Top of Clay
Unsaturated Aquifer
Saturated Aquifer
Clay
Behr Property Boundary
A ..... A' Cross Section Location
Plume Concentration (ppb)
5 360

Notes:

1. Iso-concentrations presented are representative of transect concentrations. Actual sample concentrations are noted adjacent to the collection interval.

2. NS = Not Sampled

DCE in Groundwater West - East Cross Section

October 2008

Former Dayton Thermal Products Plant
Dayton, Ohio

January 2009 98809

Figure 130

0 500
Feet

AECOM

L:\work\98809\CADD\Dayton Chemistry Figures\Working Maps\Cross Section\Cross_Section_DCE_EW

AECOM
4135 Technology Parkway, Sheboygan, Wisconsin 53083
T 920.458.8711 F 920.458.0537 www.aecom.com

Memorandum

Date: January 30, 2009

To: Justin Kelly

From: R. Henning

Subject: Dayton Groundwater Concentration Trends

Distribution: BJ Le Roy
Alex Eddington

This is a technical memorandum describing methods and results for analyzing trends in groundwater concentrations for Chrysler Former Dayton Thermal Products Plant, Dayton, Ohio. The analyses of trends in groundwater concentrations in monitoring wells is part of the OEPA request for evaluation of the capture zone of the pump and treat system.

Methods

The analysis of trends in groundwater concentrations was completed using the Akritas-Theil-Sen and Kendall's tau methods (Helsel, 2005).

A nonparametric equivalent to linear regression, commonly used in trend analysis of groundwater chemistry, is the Theil-Sen line and slope estimator (Helsel, 2005). The Theil-Sen line is a "linear median" which is not strongly influenced by the presence of outliers. With the parameter measured over time, the significance test for slope is a test for (temporal) trend. Akritas et al. (1995) extended the Theil-Sen slope to censored data.

Kendall's tau is a nonparametric correlation coefficient which is commonly used in tests for trend. Kendall's tau has been adapted for censored data and can be easily computed for multiply-censored data.

Trends were completed for monitoring wells MW11S, MW24S, PZ24I, PZ24D, MW25S, PZ25I, PZ25D, MW26S, MW28S, PZ28i, PZ28D, MW29S, PZ29I, and PZ29D. Seven parameters, 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, Tetrachloroethene, Trichloroethene and Vinyl Chloride were analyzed for each monitoring well.

Akritas-Theil-Sen plots and Kendall's tau statistics were completed for each monitoring well and each parameter. The analysis was completed using macros in Minitab. Akritas-Theil-Sen plots are provided in Attachment 1. Analysis results are provided for each monitoring well for each parameter in ASCII text output files in Attachment 1.

Results

The results of the analyses are summarized in Table 1. Table 1 presents the monitoring well, Kendall's tau, Akritas-Theil-Sen statistics, and trends for seven parameters. The Akritas-Theil-Sen plots and Kendall's tau

statistics indicate that the overall trend in groundwater concentrations is decreasing over time since groundwater extraction was implemented.

Conclusions

The Akritas-Theil-Sen plots and Kendall's tau statistics indicate that the overall trend in groundwater concentrations is decreasing as a result of the extraction well system. Evidence for decreasing trends is negative slope values, plots of decreasing slope line over time, and Kendall's tau statistics showing a significant difference indicating the slope is significantly less than zero.

REFERENCES

Akritas, M.G., S. A. Murphy and M.P. LaValley, 1995, The Theil-Sen estimator with doubly-censored data and applications to astronomy: Journal of the American Statistical Association 90, 170-177.

Helsel, D. R., 2005. Nondetects and Data Analysis: Statistics for Censored Environmental Data, Wiley-Interscience, John Wiley & Sons, Inc. Hoboken, NJ, 250 p.

Minitab Release 14 Statistical Software, Minitab, Inc.

USEPA 2008, A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, EPA/600/R-08/003.

Table 1
Summary of Trend Statistics
Former Dayton Thermal Plant
Dayton, Ohio

Location	Statistic		1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
MW11S	Kendall's tau	S	-142	-118	-122	-187	-18	-113	-91
		tau	-0.614719	-0.510823	-0.528139	-0.809524	-0.0779221	-0.489177	-0.393939
		tau-b	-0.654135	-0.642539	-0.693428	-0.813051	-0.148039	-0.493469	-0.563243
		z	-4.01929	-3.42053	-3.57224	-5.24899	-0.515704	-3.1632	-2.67261
		p-value	0.00006	0.0006	0.0004	0.0000002	0.606061	0.00156044	0.00752632
	A-T-S	Slope	-0.0285713	-0.00541596	-0.00752354	-0.0971283	-0.000651006	-0.524246	-0.012857
		Significantly different than zero	S	S	S	S	NS	S	S
	Trend		Decrease	Decrease	Decrease	Decrease	Decrease	Decrease	Decrease
MW24S	Kendall's tau	S	NA	NA	NA	NA	NA	NA	NA
		tau	NA	NA	NA	NA	NA	NA	NA
		tau-b	NA	NA	NA	NA	NA	NA	NA
		z	NA	NA	NA	NA	NA	NA	NA
		p-value	NA	NA	NA	NA	NA	NA	NA
	A-T-S	Slope	NA	NA	NA	NA	NA	NA	NA
		Significantly different than zero	NA	NA	NA	NA	NA	NA	NA
	Trend		NT	NT	NT	NT	NT	NT	NT
PZ24I	Kendall's tau	S	-33	-33	-41	-50	53	-31	-31
		tau	-0.5	-0.5	-0.621212	-0.757576	0.80303	-0.469697	-0.469697
		tau-b	-0.511766	-0.52883	-0.625972	-0.757576	0.879676	-0.473296	-0.611023
		z	-2.20996	-2.23135	-2.74937	-3.36005	3.68618	-2.06203	-2.28086
		p-value	0.0271076	0.0256578	0.00597093	0.00077927	0.000227643	0.0392049	0.0225569
	A-T-S	Slope	-0.000820643	-0.0079939	-0.0210747	-0.241543	0.112544	-0.293656	-0.00579995
		Significantly different than zero	S	S	S	S	S	S	S
	Trend		Decrease	Decrease	Decrease	Decrease	Increase	Decrease	Decrease
PZ24D	Kendall's tau	S	NA	NA	NA	NA	NA	-26	NA
		tau	NA	NA	NA	NA	NA	-0.393939	NA
		tau-b	NA	NA	NA	NA	NA	-0.584307	NA
		z	NA	NA	NA	NA	NA	-2.29819	NA
		p-value	NA	NA	NA	NA	NA	0.0215508	NA
	A-T-S	Slope	NA	NA	NA	NA	NA	-0.0468733	NA
		Significantly different than zero	NA	NA	NA	NA	NA	S	NA
	Trend		NT	NT	NT	NT	NT	Decrease	NT

Table 1
Summary of Trend Statistics
Former Dayton Thermal Plant
Dayton, Ohio

MW25S	Kendall's tau	S	-33	-35	NA	-54	-30	-52	NA
		tau	-0.423077	-0.448718	NA	-0.692308	-0.384615	-0.666667	NA
		tau-b	-0.557007	-0.669864	NA	-0.730798	-0.480384	-0.675382	NA
		z	-2.19604	-2.48855	NA	-3.29326	-1.92339	-3.1231	NA
		p-value	0.0280888	0.0128267	NA	0.000990329	0.0544316	0.00178957	NA
	A-T-S	Slope	-0.00355371	-0.0024294	NA	-0.0445376	-0.00107648	-0.0832764	NA
		Significantly different than zero	S	S	NA	S	NS	S	NA
	Trend		Decrease	Decrease	NT	Decrease	Decrease	Decrease	NT
PZ25I	Kendall's tau	S	-17	-45	-36	-40	NA	10	-46
		tau	-0.257576	-0.681818	-0.545455	-0.606061	NA	0.151515	-0.69697
		tau-b	-0.298936	-0.760856	-0.603023	-0.615457	NA	0.151515	-0.817269
		z	-1.14578	-3.11387	-2.47076	-2.68699	NA	0.617153	-3.2476
		p-value	0.251885	0.00184653	0.0134827	0.00720982	NA	0.537134	0.00116385
	A-T-S	Slope	-0.000820643	-0.00746304	-0.00334432	-0.194102	NA	0.00731171	-0.00356954
		Significantly different than zero	NS	S	S	S	NA	NS	S
	Trend		Decrease	Decrease	Decrease	Decrease	NT	Increase	Decrease
PZ25D	Kendall's tau	S	NA	NA	NA	-19	NA	-34	NA
		tau	NA	NA	NA	-0.287879	NA	-0.515152	NA
		tau-b	NA	NA	NA	-0.510355	NA	-0.678915	NA
		z	NA	NA	NA	-1.58277	NA	-2.72799	NA
		p-value	NA	NA	NA	0.113474	NA	0.00637221	NA
	A-T-S	Slope	NA	NA	NA	-0.00800555	NA	-0.0348004	NA
		Significantly different than zero	NA	NA	NA	NS	NA	S	NA
	Trend		NT	NT	NT	Decrease	NT	Decrease	NT
MW26S	Kendall's tau	S	5	NA	NA	-1	NA	-1	NA
		tau	0.333333	NA	NA	-0.0666667	NA	-0.0666667	NA
		tau-b	0.57735	NA	NA	-0.0860663	NA	-0.0666667	NA
		z	1.17108	NA	NA	0	NA	0	NA
		p-value	0.241567	NA	NA	1	NA	1	NA
	A-T-S	Slope	0.000000602	NA	NA	-0.00000008	NA	-0.00333876	NA
		Significantly different than zero	NS	NA	NA	NS	NA	NS	NA
	Trend		Increase	NT	NT	Decrease	NT	Decrease	NT

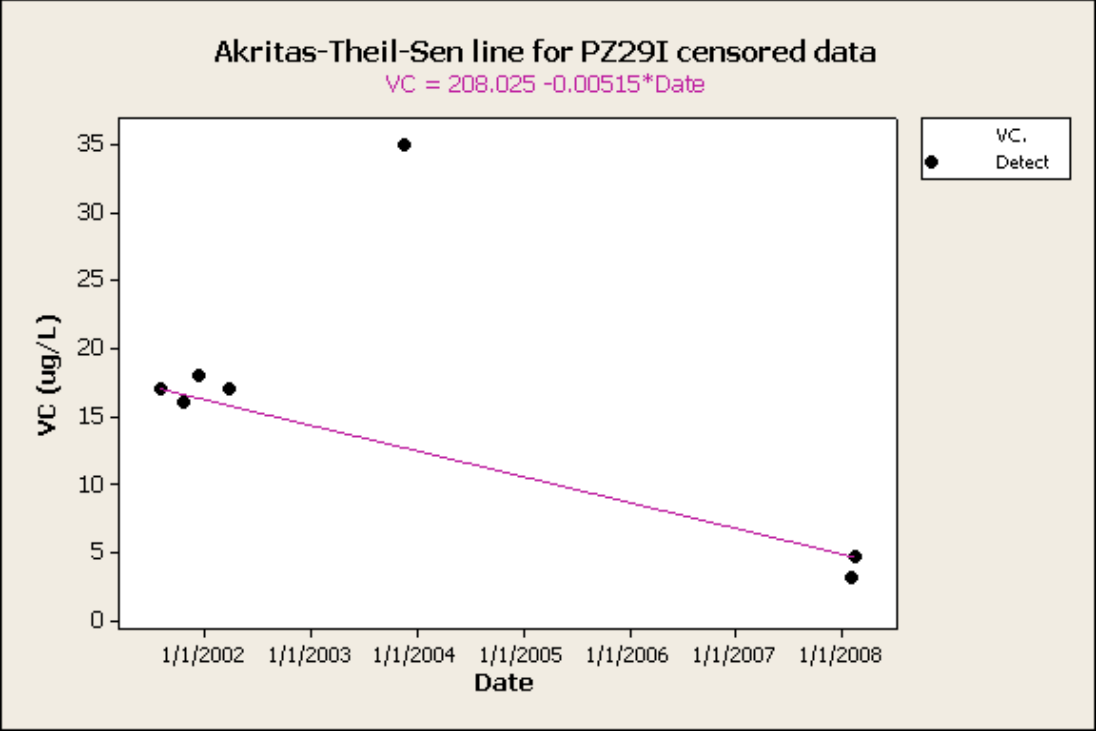
Table 1
Summary of Trend Statistics
Former Dayton Thermal Plant
Dayton, Ohio

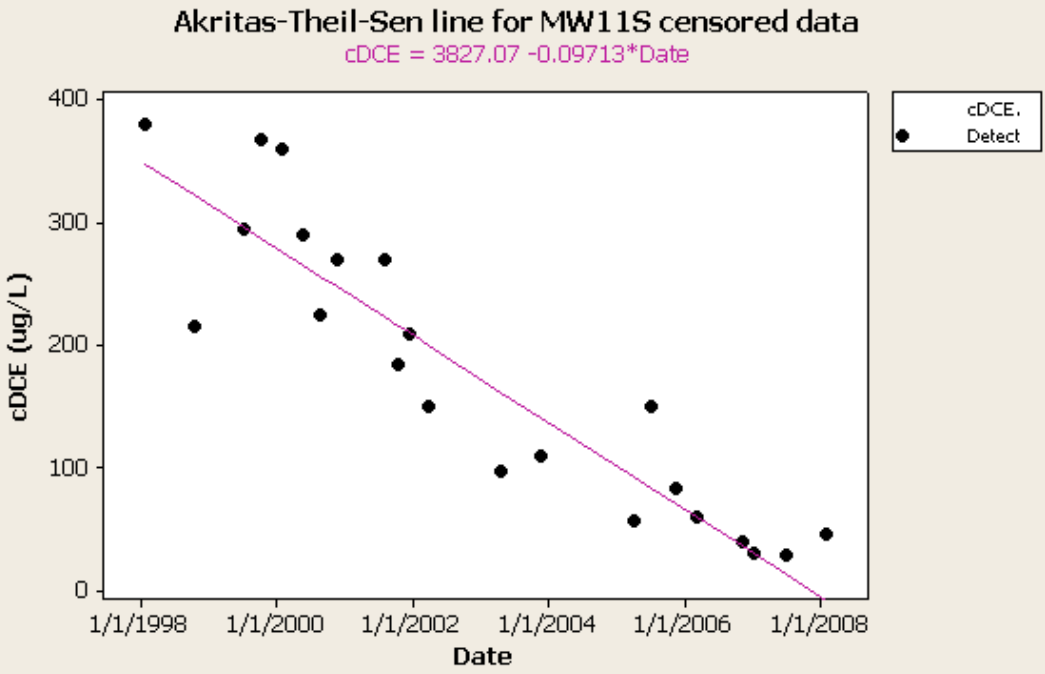
MW28S	Kendall's tau	S	-37	-26	-26	-33	NA	-30	-18
		tau	-0.672727	-0.472727	-0.472727	-0.6	NA	-0.545455	-0.327273
		tau-b	-0.760827	-0.619751	-0.584307	-0.635674	NA	-0.550482	-0.495434
		z	-2.91043	-2.11037	-2.06901	-2.55932	NA	-2.26452	-1.4778
		p-value	0.00360935	0.0348261	0.0385447	0.0104878	NA	0.0235422	0.139463
	A-T-S	Slope	-0.0280818	-0.00955809	-0.0130135	-0.484751	NA	-2.98627	-0.0166688
		Significantly different than zero	S	S	S	S	NA	S	S
	Trend		Decrease	Decrease	Decrease	Decrease	NT	Decrease	Decrease
PZ28I	Kendall's tau	S	-11	-6	13	26	NA	-21	-11
		tau	-0.2	-0.109091	0.236364	0.472727	NA	-0.381818	-0.2
		tau-b	-0.2	-0.12792	0.267318	0.477084	NA	-0.381818	-0.275431
		z	-0.778499	-0.409159	0.970143	1.95217	NA	-1.557	-0.892052
		p-value	0.436275	0.682423	0.331975	0.0509178	NA	0.119471	0.372365
	A-T-S	Slope	-0.00475448	-0.000431795	0.00154564	0.0416416	NA	-0.115311	0.00000037
		Significantly different than zero	NS	NS	NS	NS	NA	S	NS
	Trend		Decrease	Decrease	Increase	Increase	NT	Decrease	Decrease
PZ28D	Kendall's tau	S	-15	-23	-9	-41	NA	-49	NA
		tau	-0.272727	-0.418182	-0.163636	-0.745455	NA	-0.890909	NA
		tau-b	-0.490552	-0.64667	-0.40452	-0.824131	NA	-0.890909	NA
		z	-1.37502	-2.1008	-0.817918	-3.27327	NA	-3.73679	NA
		p-value	0.169126	0.0356583	0.413404	0.00106311	NA	0.000186381	NA
	A-T-S	Slope	-0.0198519	-0.0132874	-0.0414442	-0.0240888	NA	-0.0367974	NA
		Significantly different than zero	NS	S	NS	S	NA	S	NA
	Trend		Decrease	Decrease	Decrease	Decrease	NT	Decrease	NT
MW29S	Kendall's tau	S	-1	3	3	17	NA	7	6
		tau	-0.047619	0.142857	0.142857	0.809524	NA	0.333333	0.285714
		tau-b	-0.218218	0.29277	0.377964	0.809524	NA	0.333333	0.349927
		z	0	0.375735	0.389742	2.40301	NA	0.901127	0.818317
		p-value	1	0.707114	0.696727	0.0162609	NA	0.367521	0.413176
	A-T-S	Slope	-0.000086391	0.00397965	0.528642	0.519481	NA	1.19297	0.691163
		Significantly different than zero	S	NS	NS	S	NA	NS	NS
	Trend		Decrease	Increase	Increase	Increase	NT	Increase	Increase

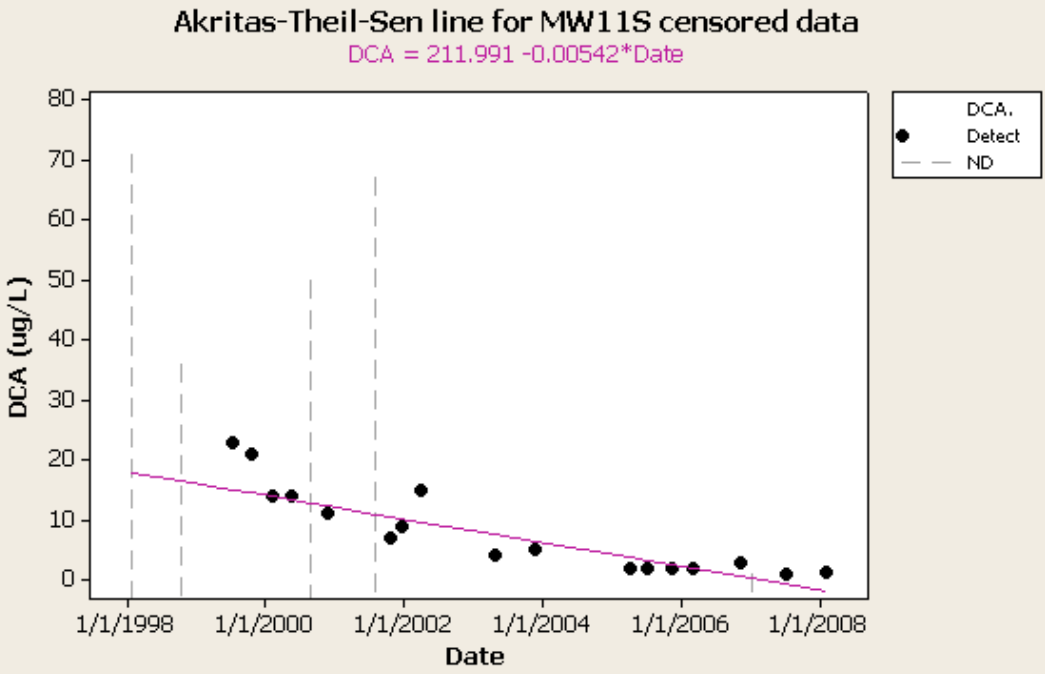
Table 1
Summary of Trend Statistics
Former Dayton Thermal Plant
Dayton, Ohio

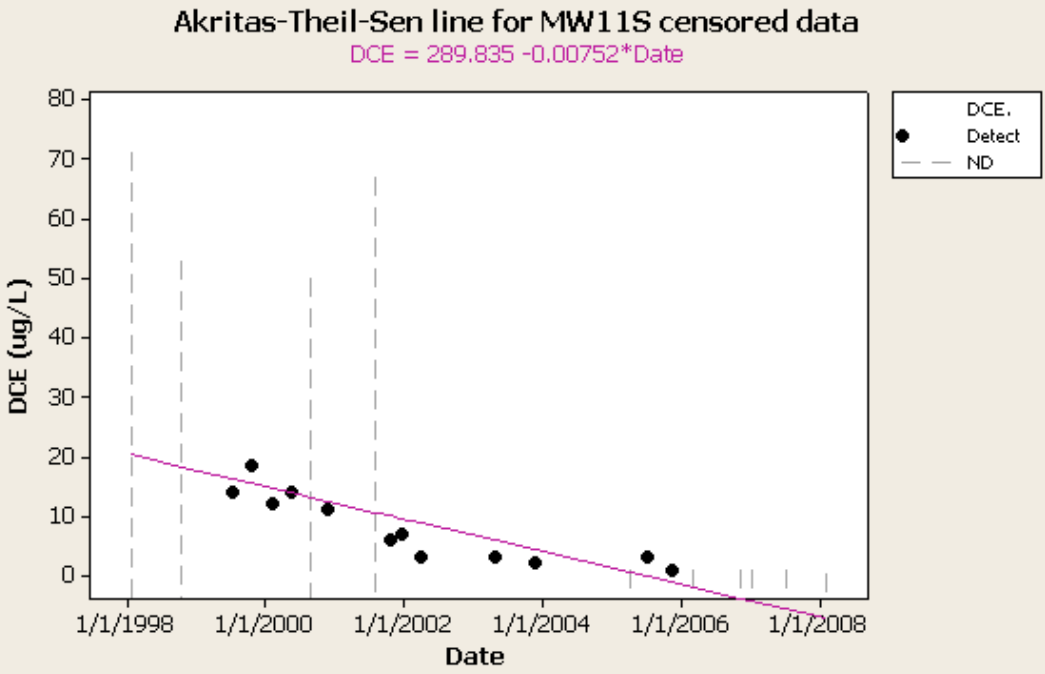
PZ29I	Kendall's tau	S	NA	NA	NA	-7	NA	1	-4
		tau	NA	NA	NA	-0.333333	NA	0.047619	-0.190476
		tau-b	NA	NA	NA	-0.333333	NA	0.047619	-0.19518
		z	NA	NA	NA	-0.901127	NA	0	-0.455733
		p-value	NA	NA	NA	0.367521	NA	1	0.648582
	A-T-S	Slope	NA	NA	NA	-0.00660121	NA	0.0259744	-0.00514852
		Significantly different than zero	NA	NA	NA	NS	NA	NS	NS
	Trend		NT	NT	NT	Decrease	NT	Increase	Decrease
PZ29D	Kendall's tau	S	NA	NA	NA	-17	NA	-17	-11
		tau	NA	NA	NA	-0.809524	NA	-0.809524	-0.52381
		tau-b	NA	NA	NA	-0.899735	NA	-0.851064	-0.723747
		z	NA	NA	NA	-2.51935	NA	-2.45911	-1.74964
		p-value	NA	NA	NA	0.0117573	NA	0.013928	0.0801812
	A-T-S	Slope	NA	NA	NA	-0.1124	NA	-0.00768052	-0.0922073
		Significantly different than zero	NA	NA	NA	S	NA	S	NS
	Trend		NT	NT	NT	Decrease	NT	Decrease	Decrease

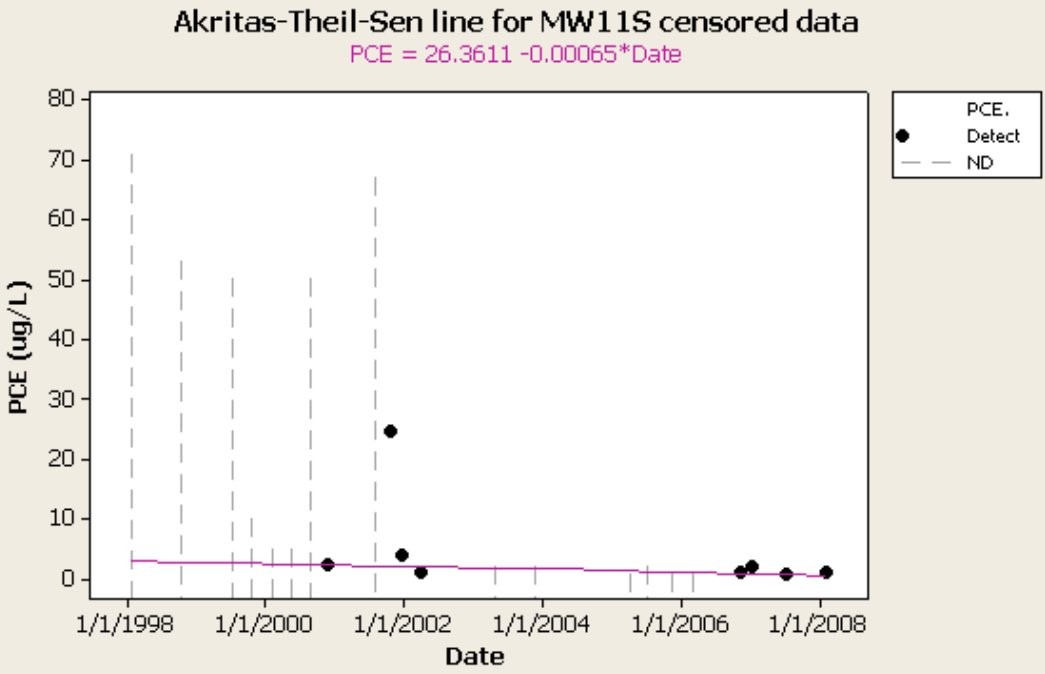
Notes:
A-T-S = Akritas-Theil-Sen
NA = not analyzed due to all results for parameter were below the detection limit.
S = significantly different than zero at alpha = 0.05. There is sufficient evidence of monotonic correlation to declare that there is a trend in concentration.
NS = not significantly different than zero at alpha = 0.05. There is insufficient evidence of monotonic correlation to declare that there is a trend in concentration.
NT = no trend. All results for parameter were below the detection limit.
Increase = positive or upward slope
Decrease = negative or downward slope

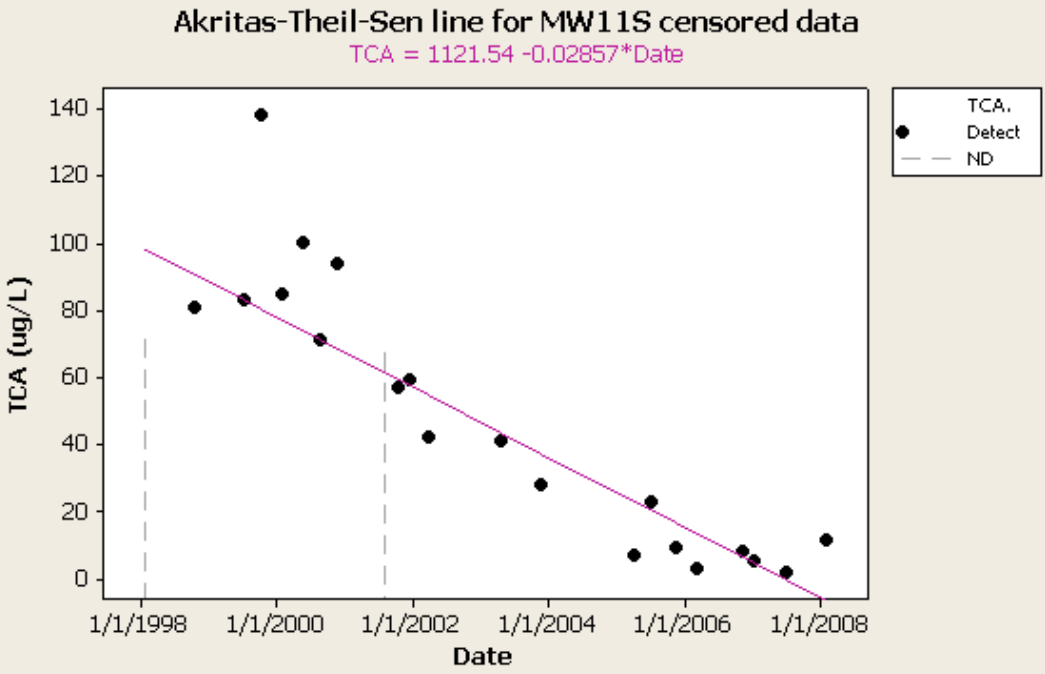

Akritas-Theil-Sen line for PZ29I censored data
VC = 208.025 -0.00515*Date
VC (ug/L)
35
30
25
20
15
10
5
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC,
Detect

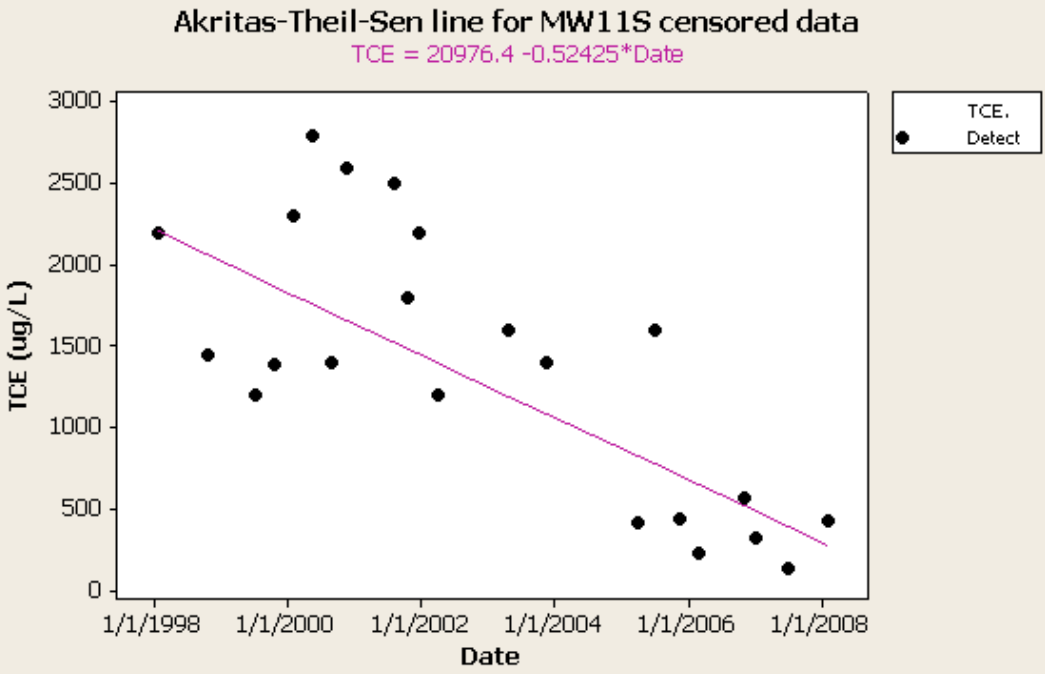

Akritas-Theil-Sen line for MW11S censored data
cDCE = 3827.07 -0.09713*Date
cDCE (ug/L)
400
300
200
100
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
cDCE.
Detect

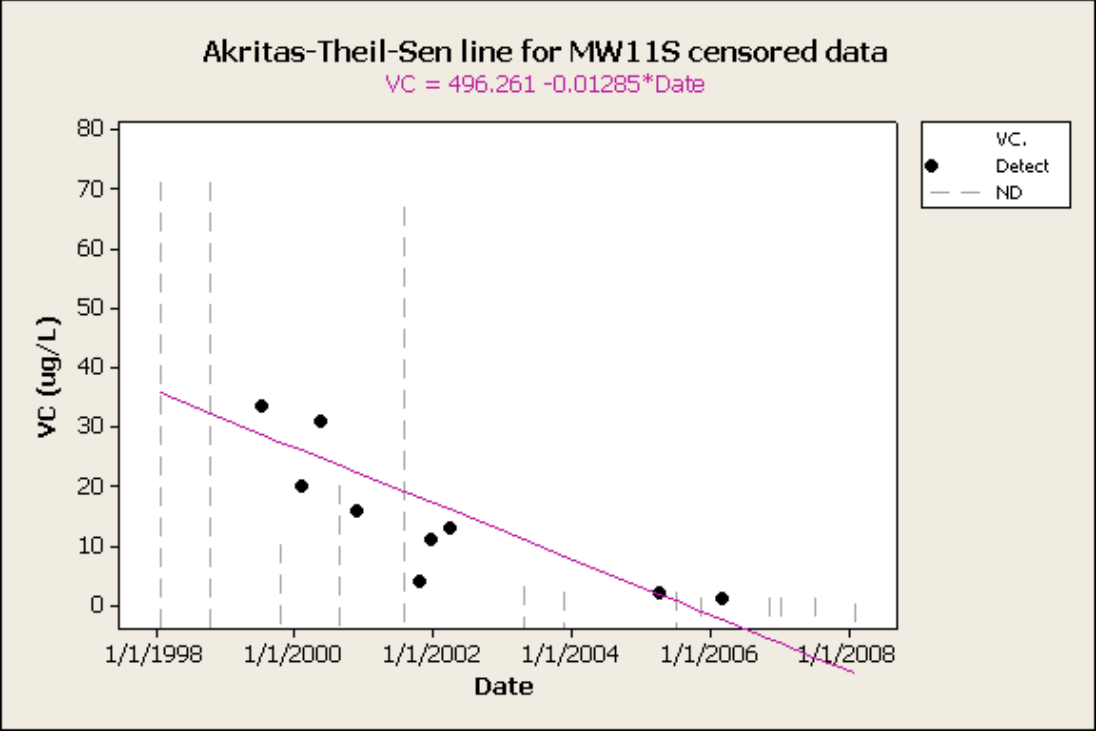

Akritas-Theil-Sen line for MW11S censored data
DCA = 211.991 -0.00542*Date
DCA (ug/L)
80
70
60
50
40
30
20
10
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
DCA.
Detect
ND

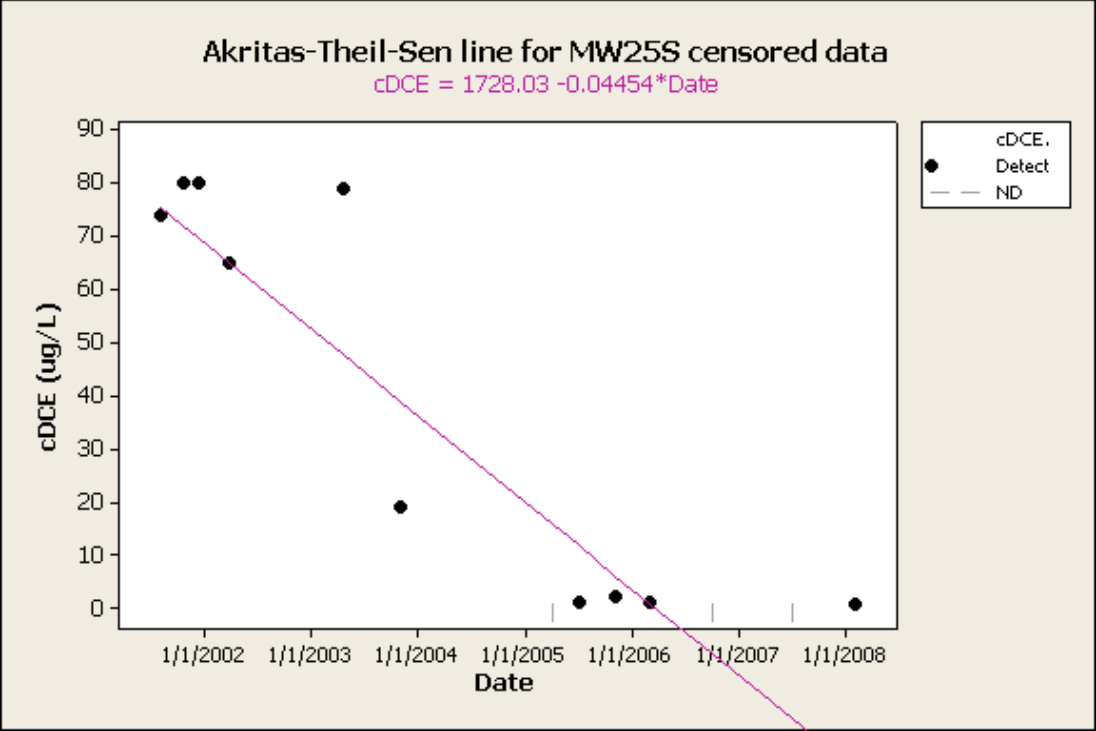

Akritas-Theil-Sen line for MW11S censored data
DCE = 289.835 -0.00752*Date
DCE (ug/L)
80
70
60
50
40
30
20
10
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
DCE,
Detect
ND

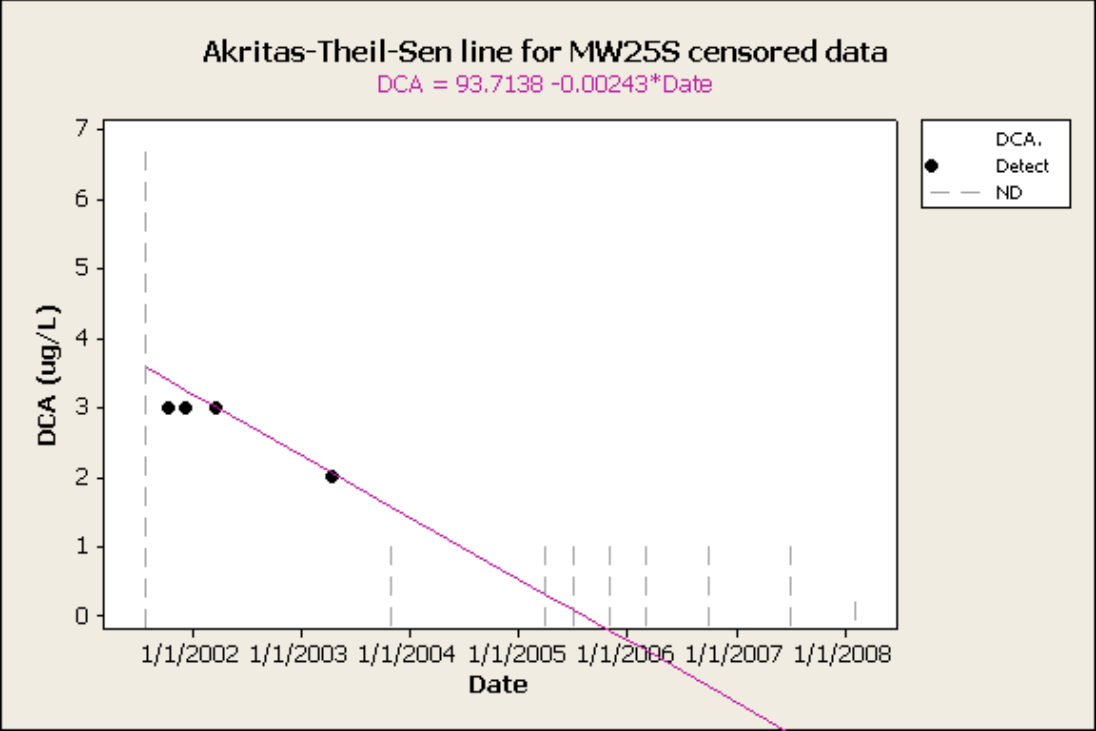

Akritas-Theil-Sen line for MW11S censored data
PCE = 26.3611 -0.00065*Date
PCE (ug/L)
80
70
60
50
40
30
20
10
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
PCE.
Detect
ND

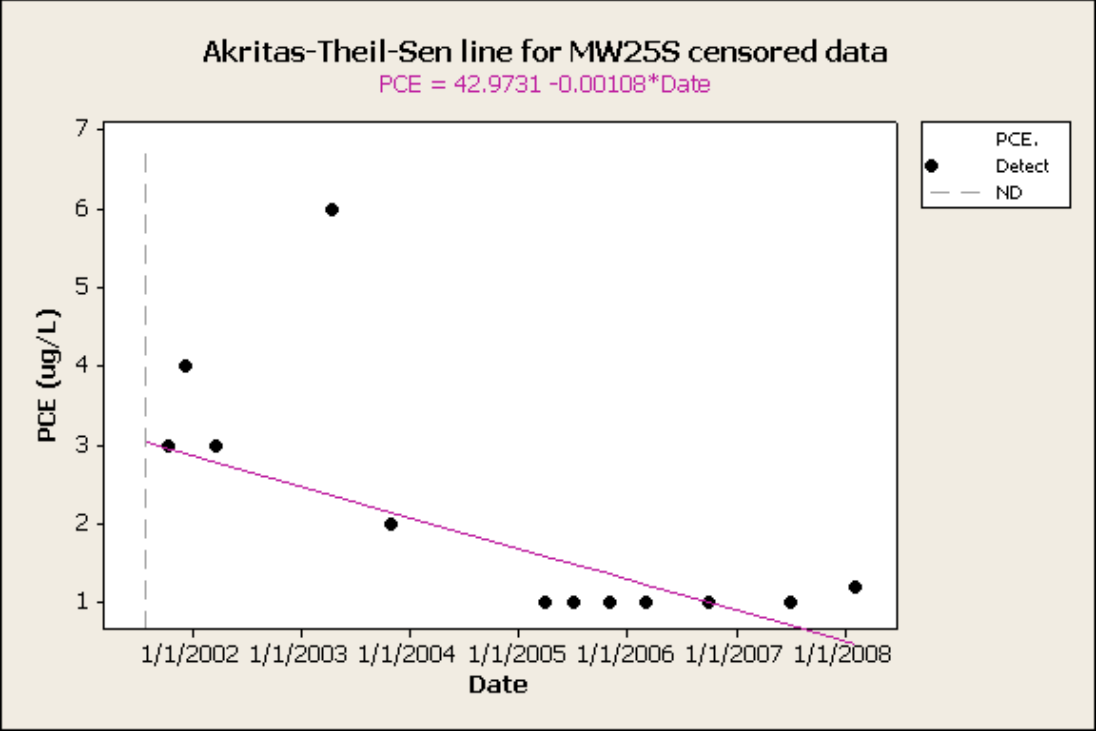

Akritas-Theil-Sen line for MW11S censored data
TCA = 1121.54 -0.02857*Date
TCA,
Detect
ND
TCA (ug/L)
140
120
100
80
60
40
20
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date

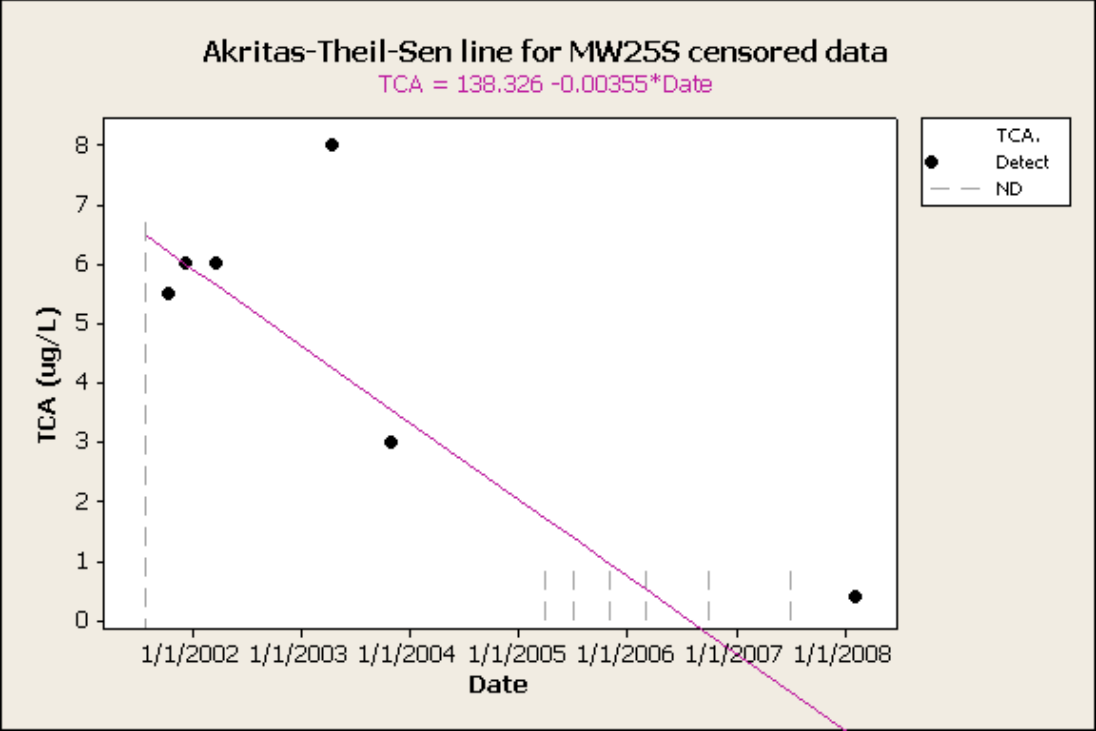

Akritas-Theil-Sen line for MW11S censored data
TCE = 20976.4 -0.52425*Date
TCE (ug/L)
3000
2500
2000
1500
1000
500
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
TCE.
Detect

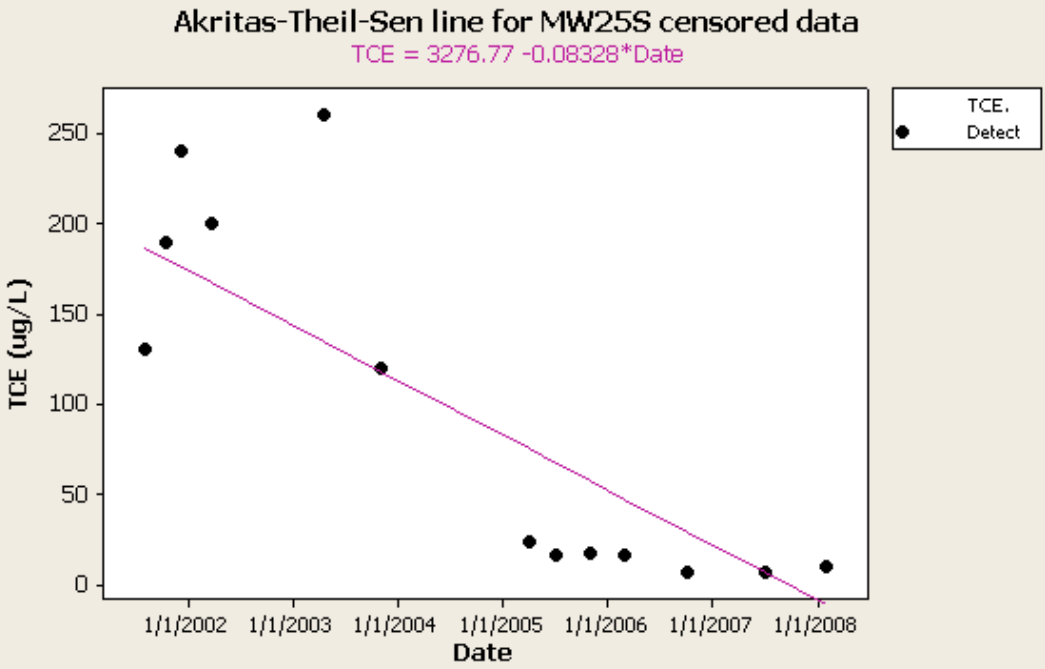

Akritas-Theil-Sen line for MW11S censored data
VC = 496.261 -0.01285*Date
VC (ug/L)
80
70
60
50
40
30
20
10
0
1/1/1998
1/1/2000
1/1/2002
1/1/2004
1/1/2006
1/1/2008
Date
VC.
Detect
ND

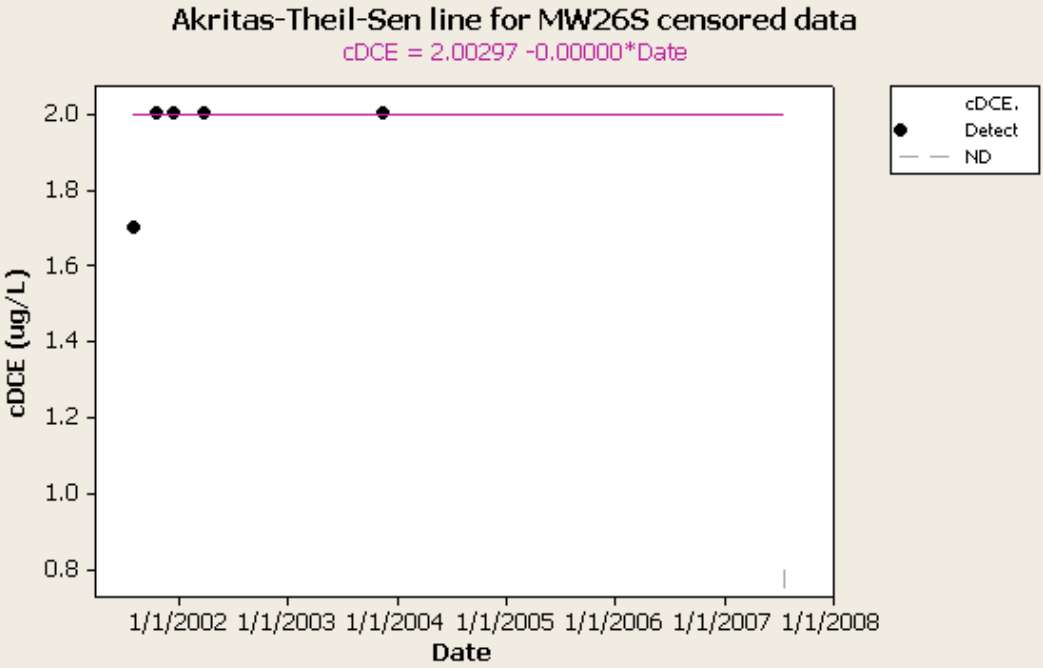

Akritas-Theil-Sen line for MW25S censored data
cDCE = 1728.03 -0.04454*Date
cDCE (ug/L)
90
80
70
60
50
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect
ND

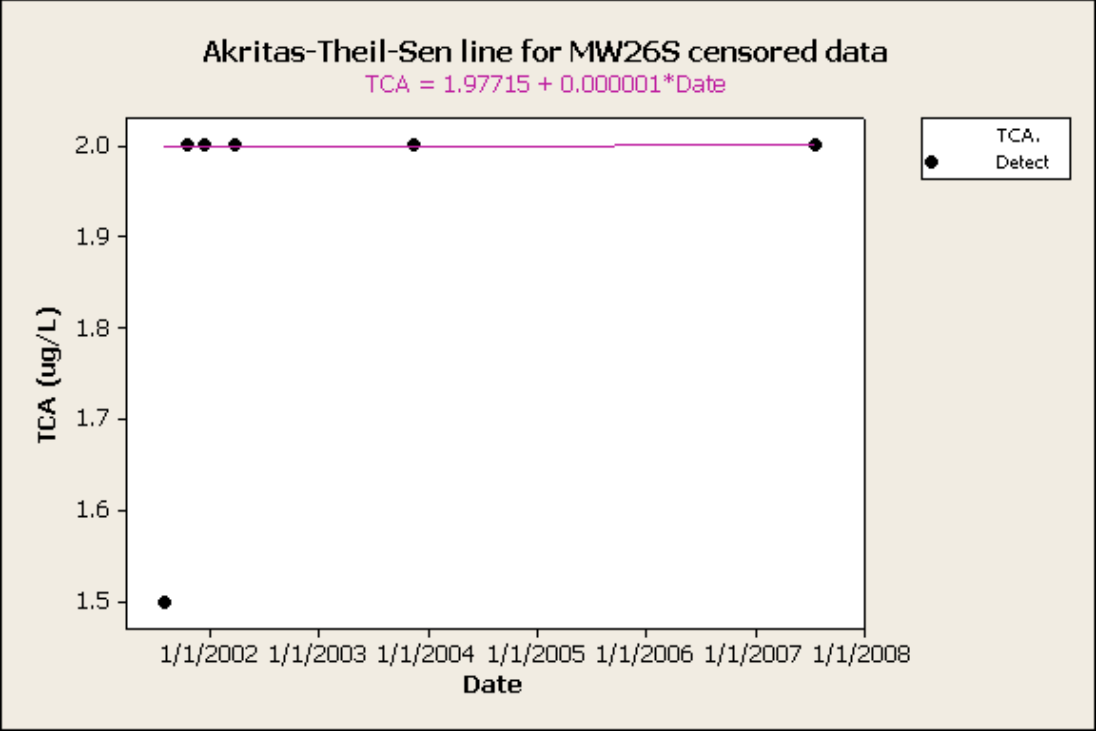

Akritas-Theil-Sen line for MW25S censored data
DCA = 93.7138 -0.00243*Date
DCA (ug/L)
7
6
5
4
3
2
1
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCA.
Detect
ND

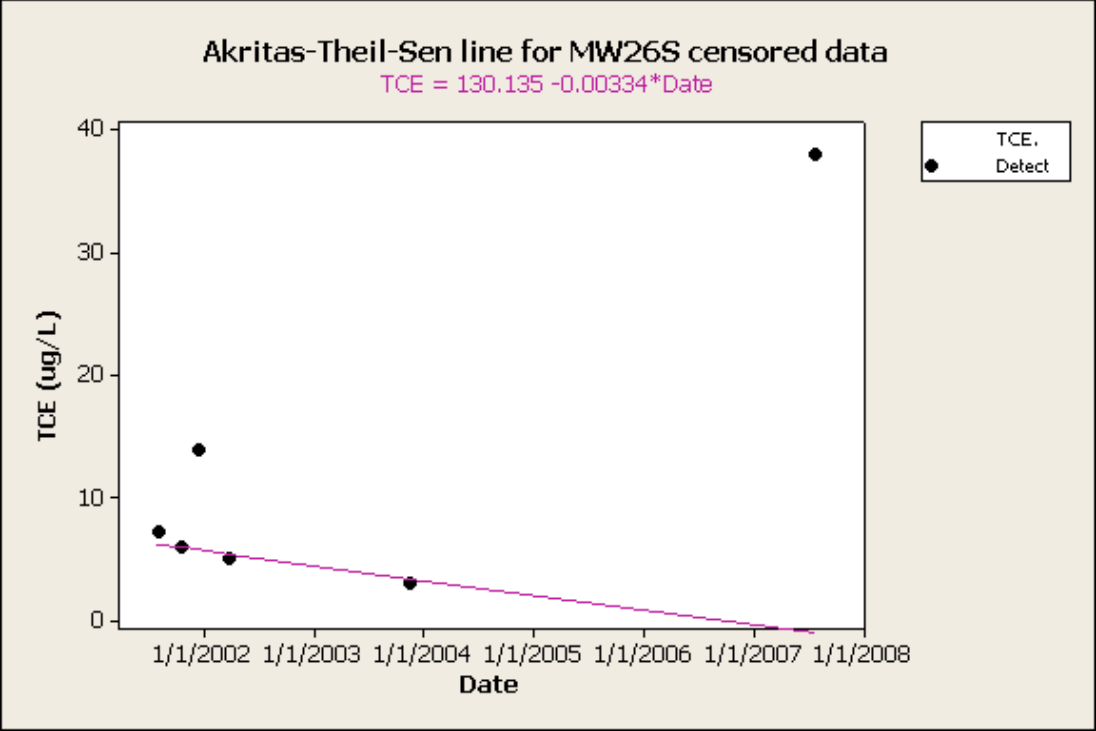

Akritas-Theil-Sen line for MW25S censored data
PCE = 42.9731 -0.00108*Date
PCE (ug/L)
7
6
5
4
3
2
1
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
PCE.
Detect
ND

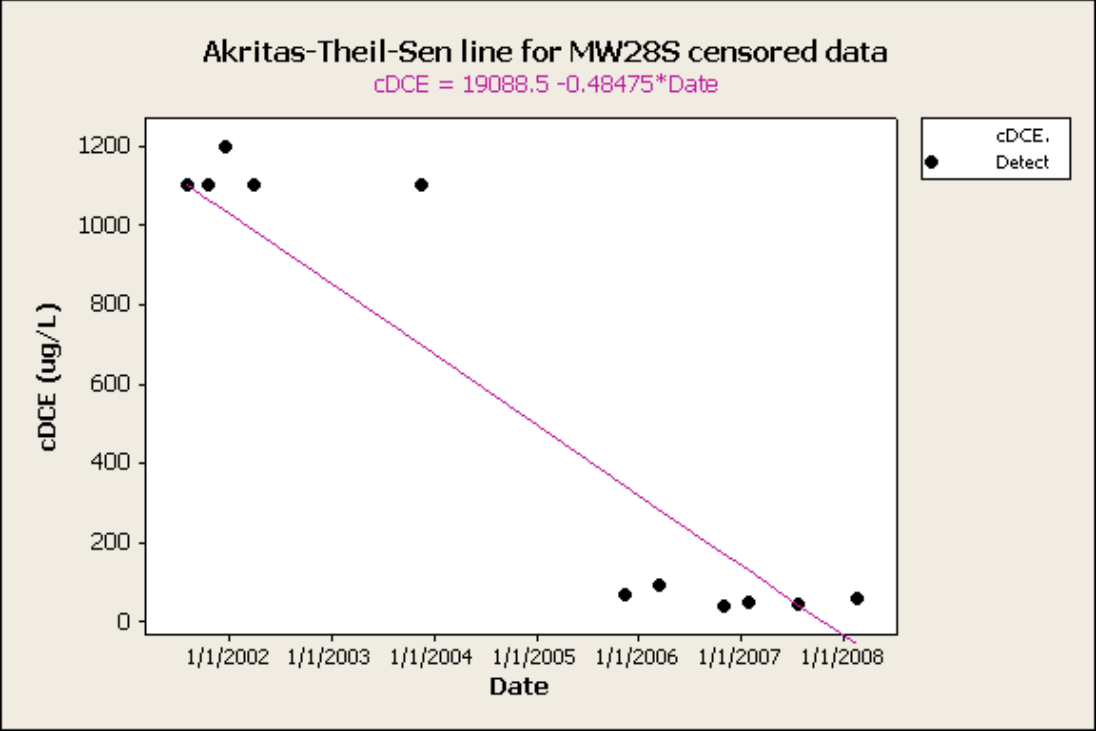

Akritas-Theil-Sen line for MW25S censored data
TCA = 138.326 -0.00355*Date
TCA (ug/L)
0
1
2
3
4
5
6
7
8
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCA.
Detect
ND

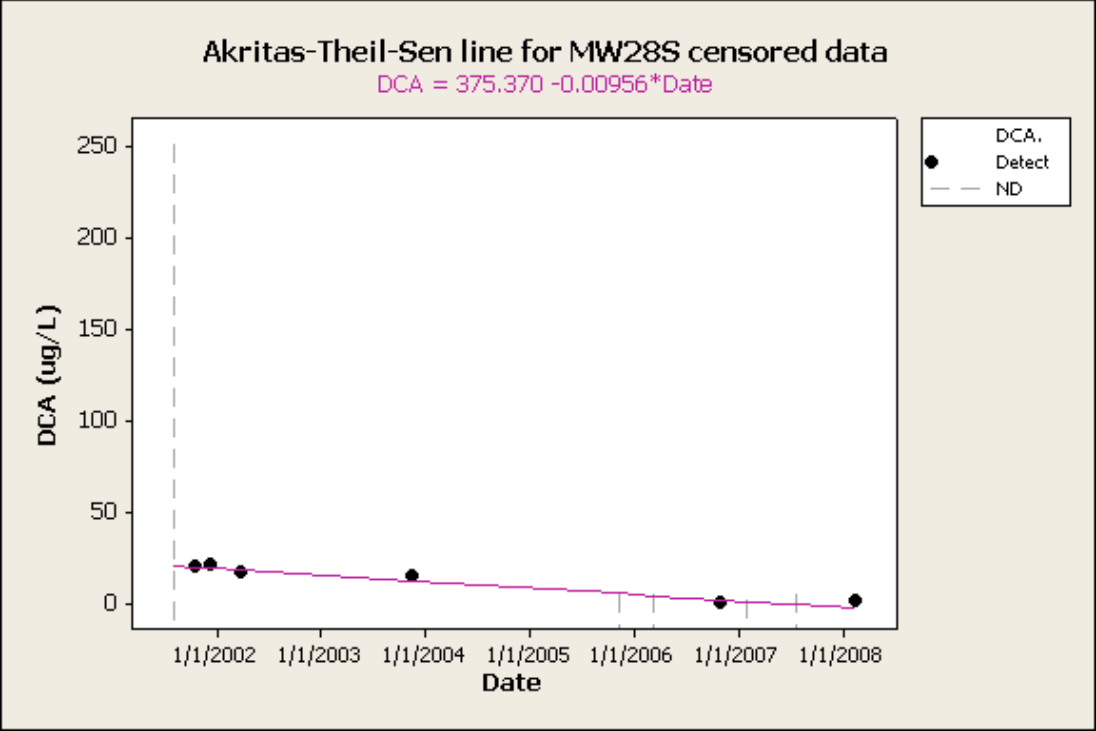

Akritas-Theil-Sen line for MW25S censored data
TCE = 3276.77 -0.08328*Date
TCE, Detect
TCE (ug/L)
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

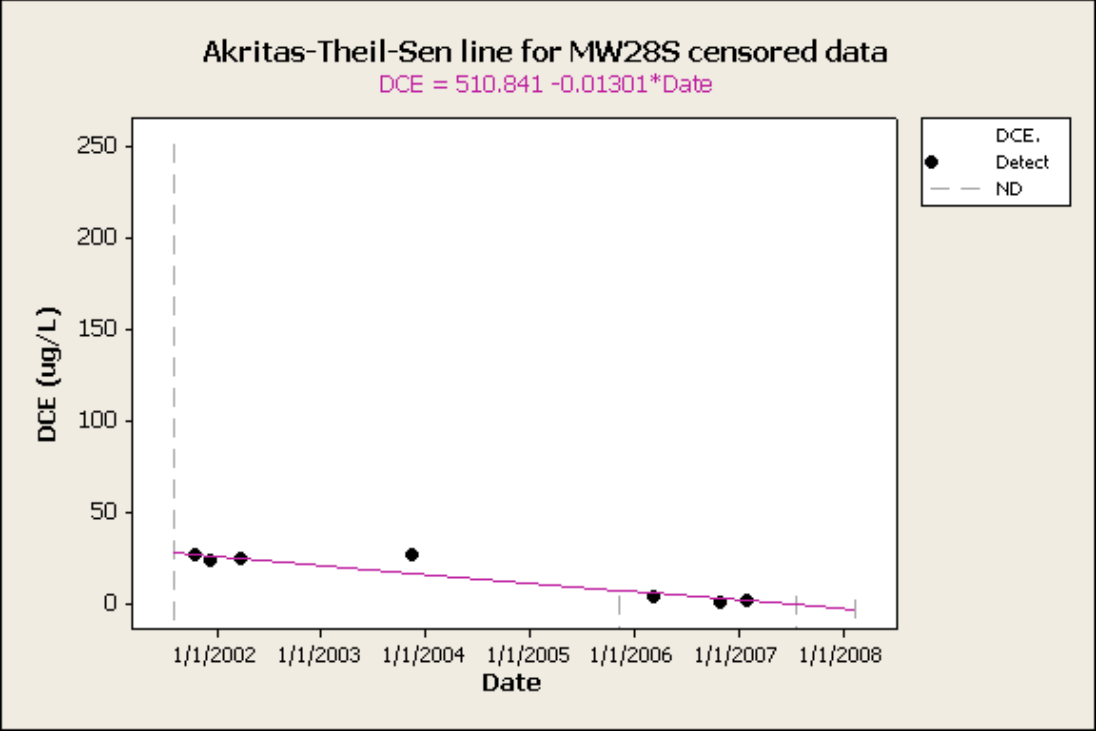

Akritas-Theil-Sen line for MW26S censored data
cDCE = 2.00297 -0.00000*Date
cDCE (ug/L)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect
ND

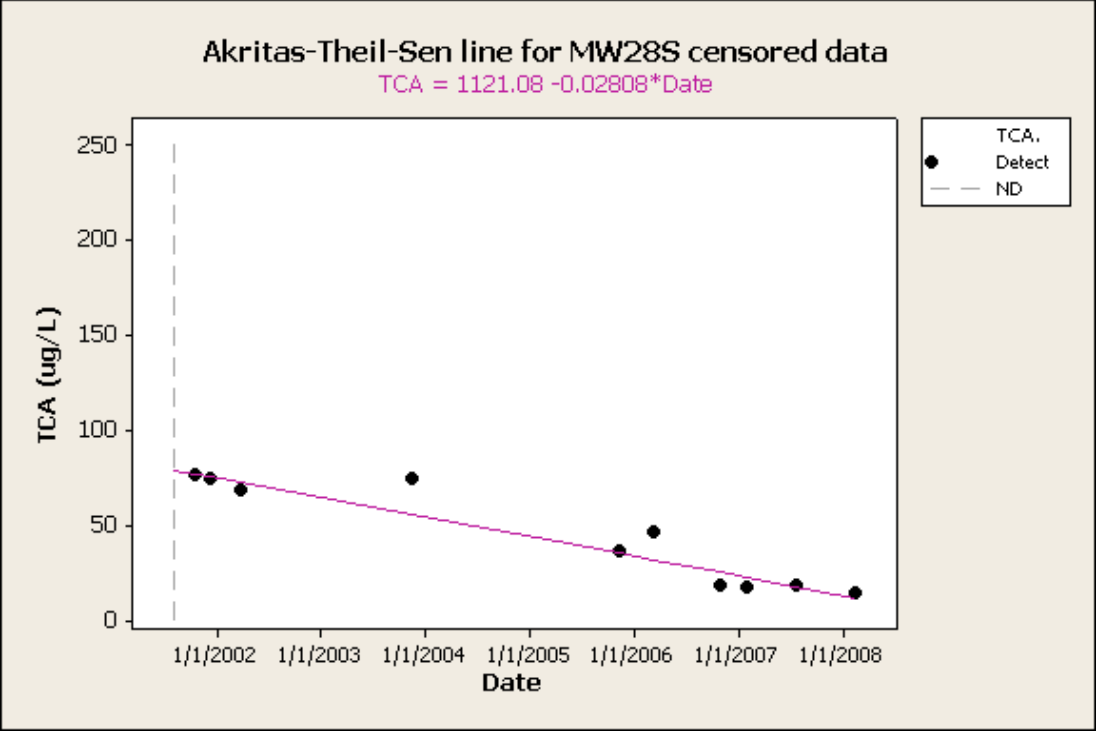

Akritas-Theil-Sen line for MW26S censored data
TCA = 1.97715 + 0.000001*Date
TCA, Detect
TCA (ug/L)
2.0
1.9
1.8
1.7
1.6
1.5
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

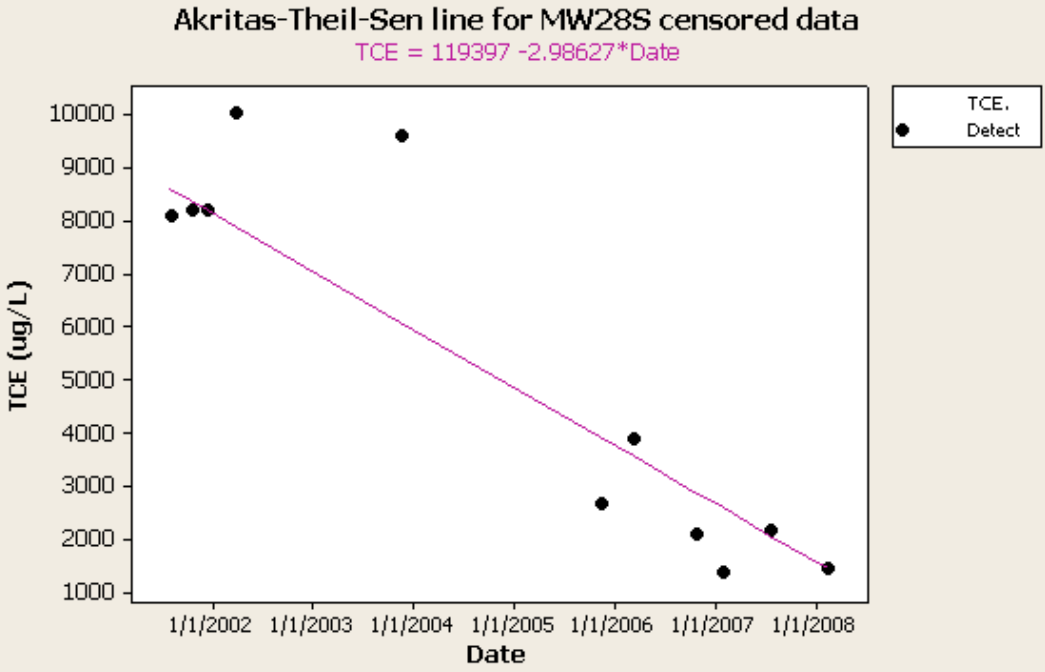

Akritas-Theil-Sen line for MW26S censored data
TCE = 130.135 -0.00334*Date
TCE (ug/L)
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect

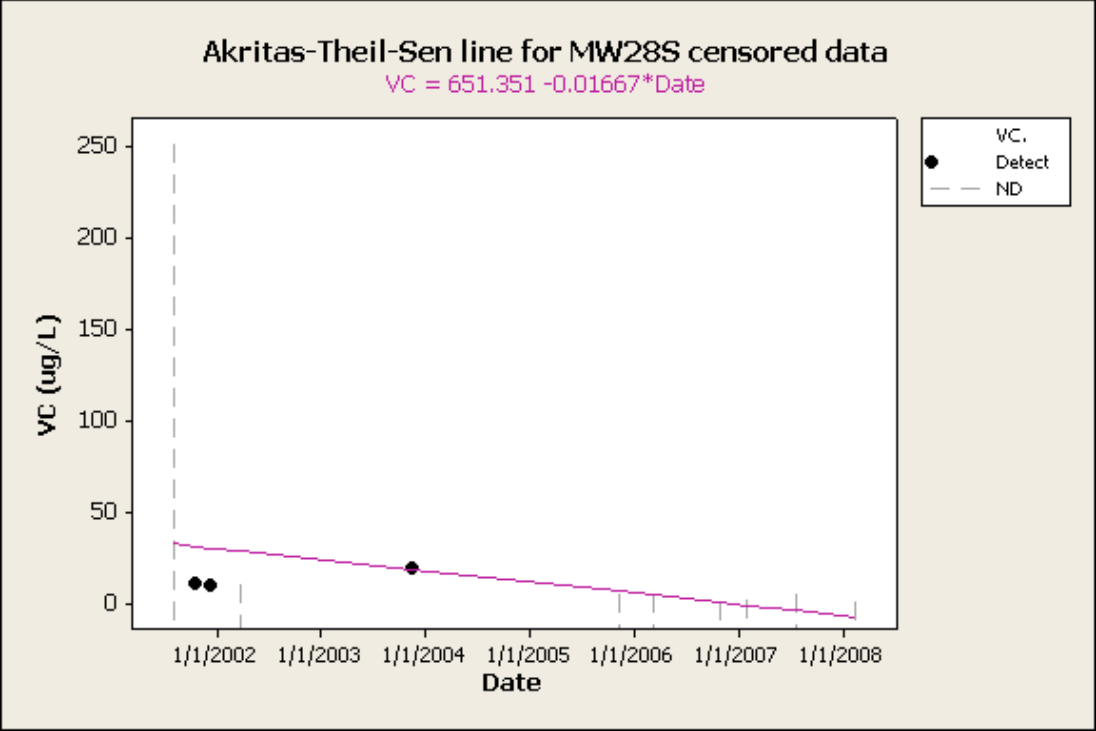

Akritas-Theil-Sen line for MW28S censored data
cDCE = 19088.5 -0.48475*Date
cDCE (ug/L)
1200
1000
800
600
400
200
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect

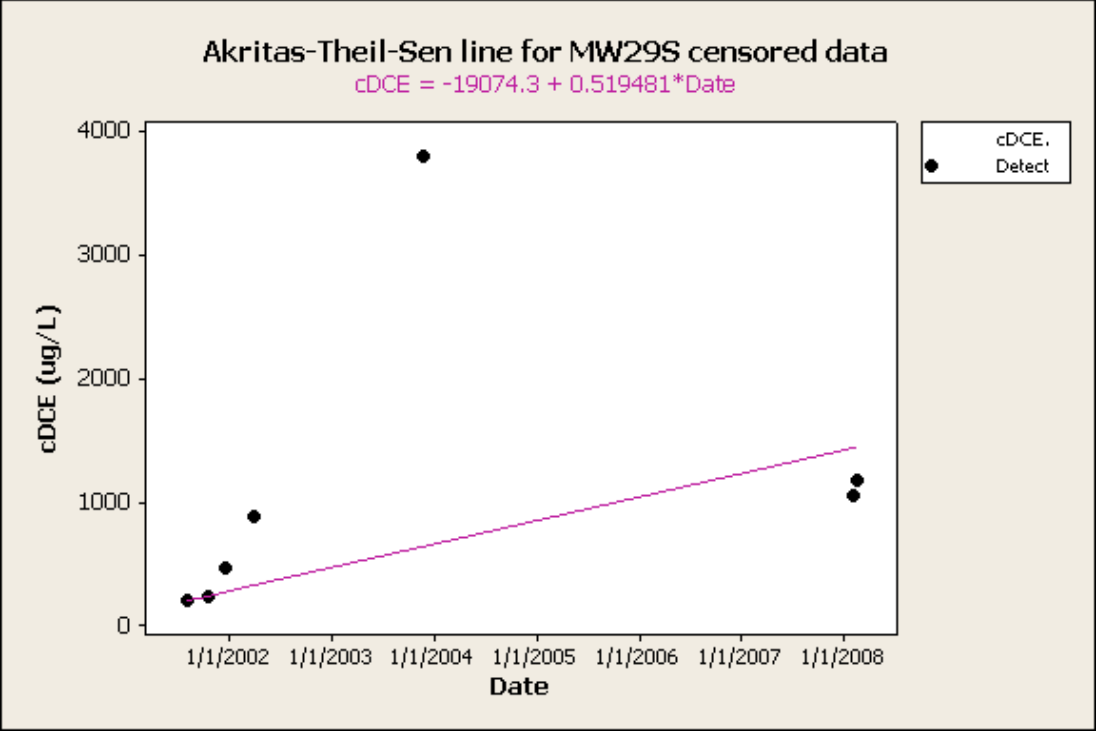

Akritas-Theil-Sen line for MW28S censored data
DCA = 375.370 -0.00956*Date
DCA (ug/L)
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCA.
Detect
ND

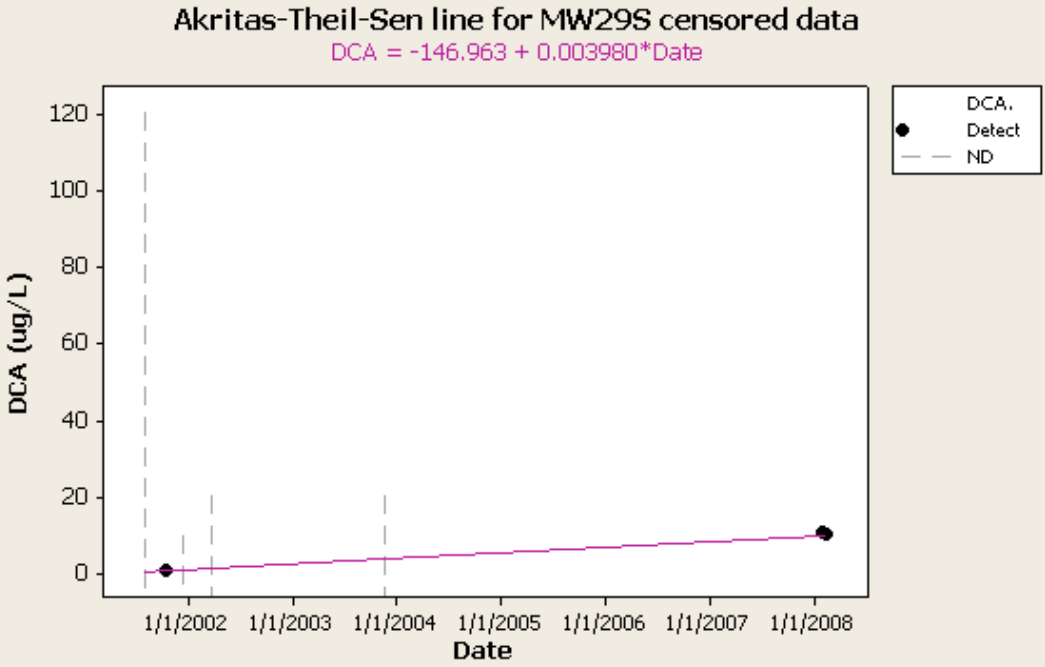

Akritas-Theil-Sen line for MW28S censored data
DCE = 510.841 -0.01301*Date
DCE (ug/L)
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCE.
Detect
ND

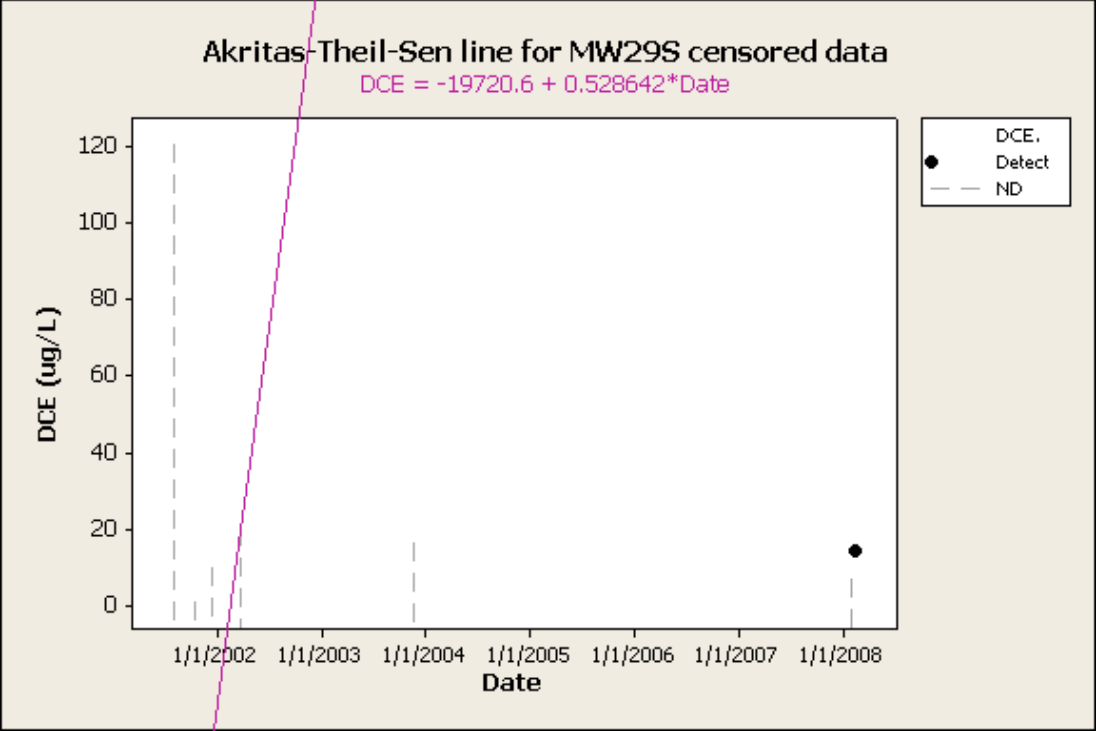

Akritas-Theil-Sen line for MW28S censored data
TCA = 1121.08 -0.02808*Date
TCA,
Detect
ND
TCA (ug/L)
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

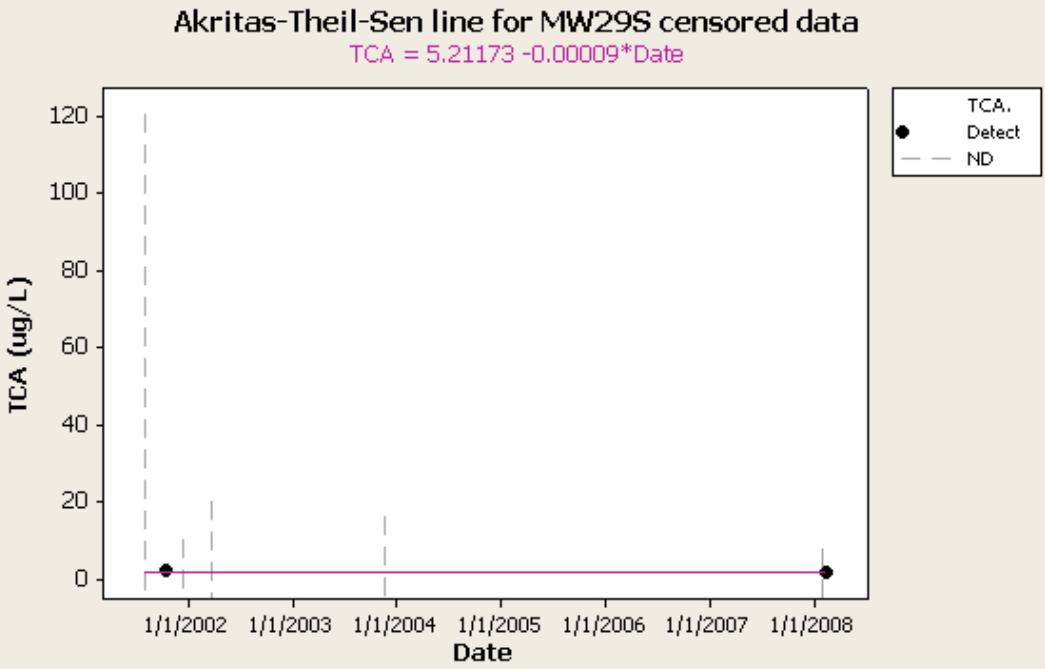

Akritas-Theil-Sen line for MW28S censored data
TCE = 119397 -2.98627*Date
TCE (ug/L)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect

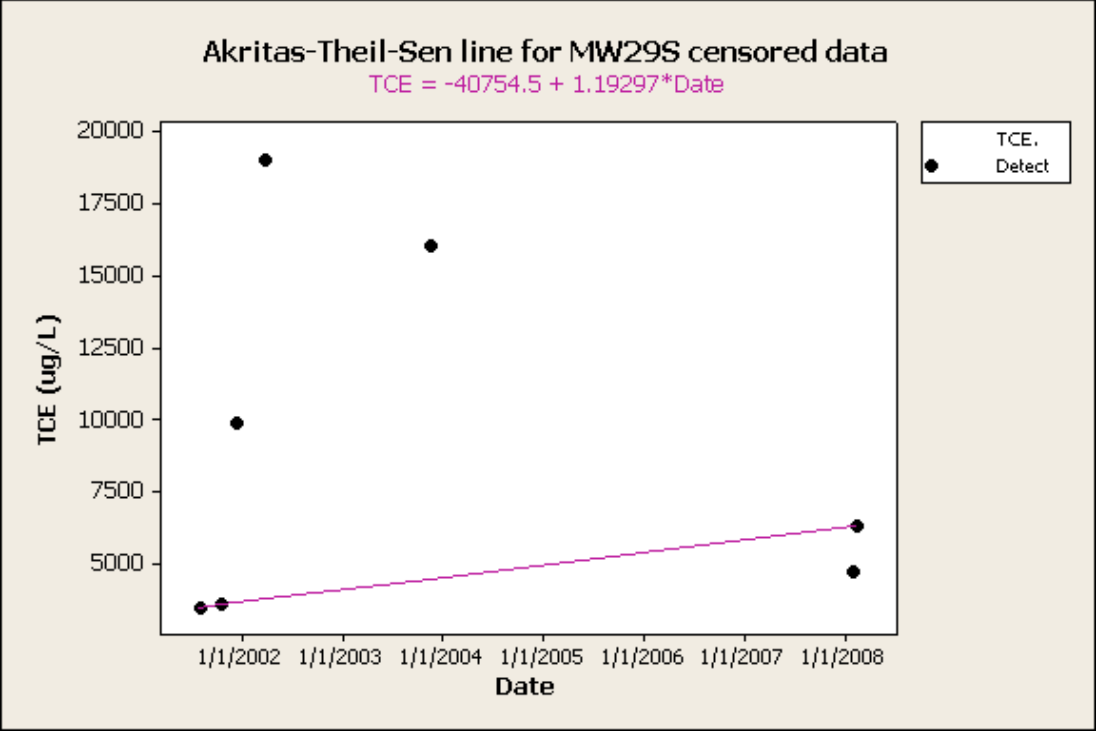

Akritas-Theil-Sen line for MW28S censored data
VC = 651.351 -0.01667*Date
VC (ug/L)
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND

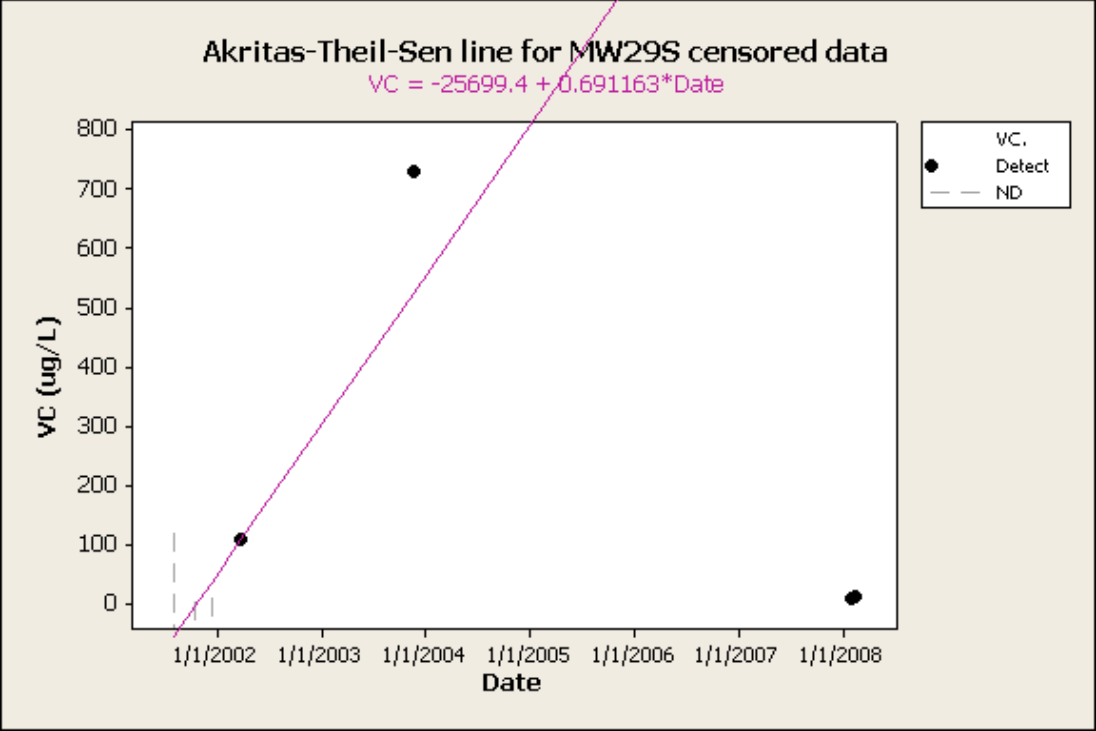

Akritas-Theil-Sen line for MW29S censored data
cDCE = -19074.3 + 0.519481*Date
cDCE (ug/L)
4000
3000
2000
1000
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE,
Detect

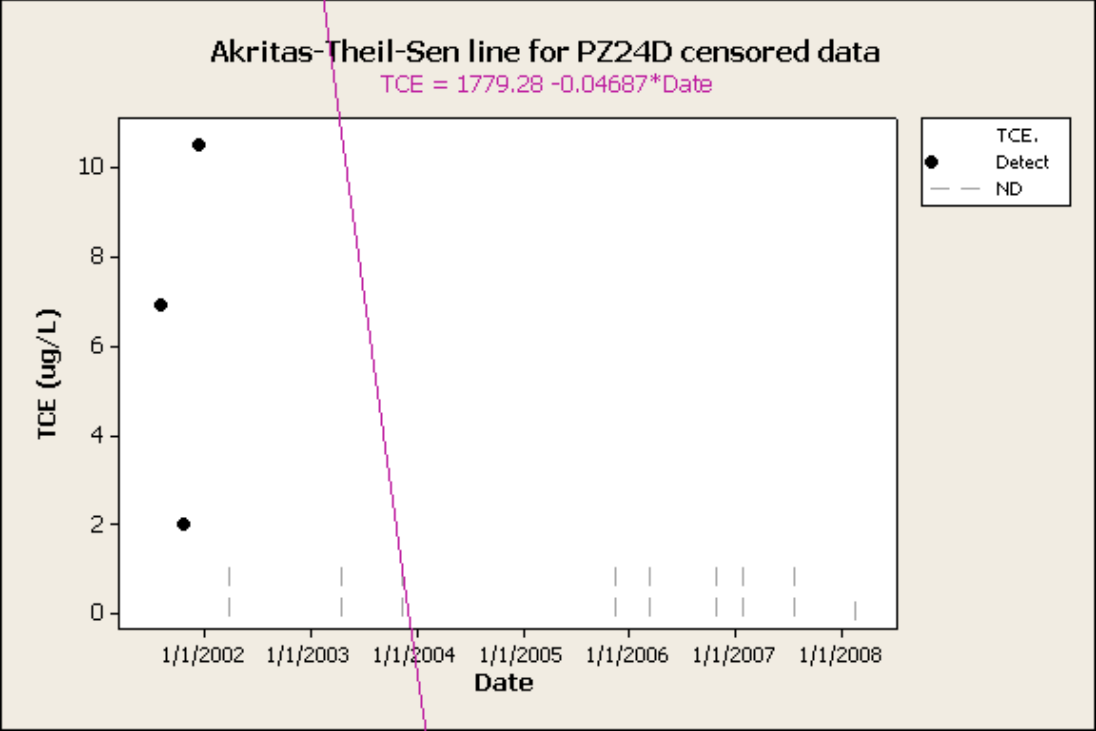

Akritas-Theil-Sen line for MW29S censored data
DCA = -146.963 + 0.003980*Date
DCA (ug/L)
120
100
80
60
40
20
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCA.
Detect
ND

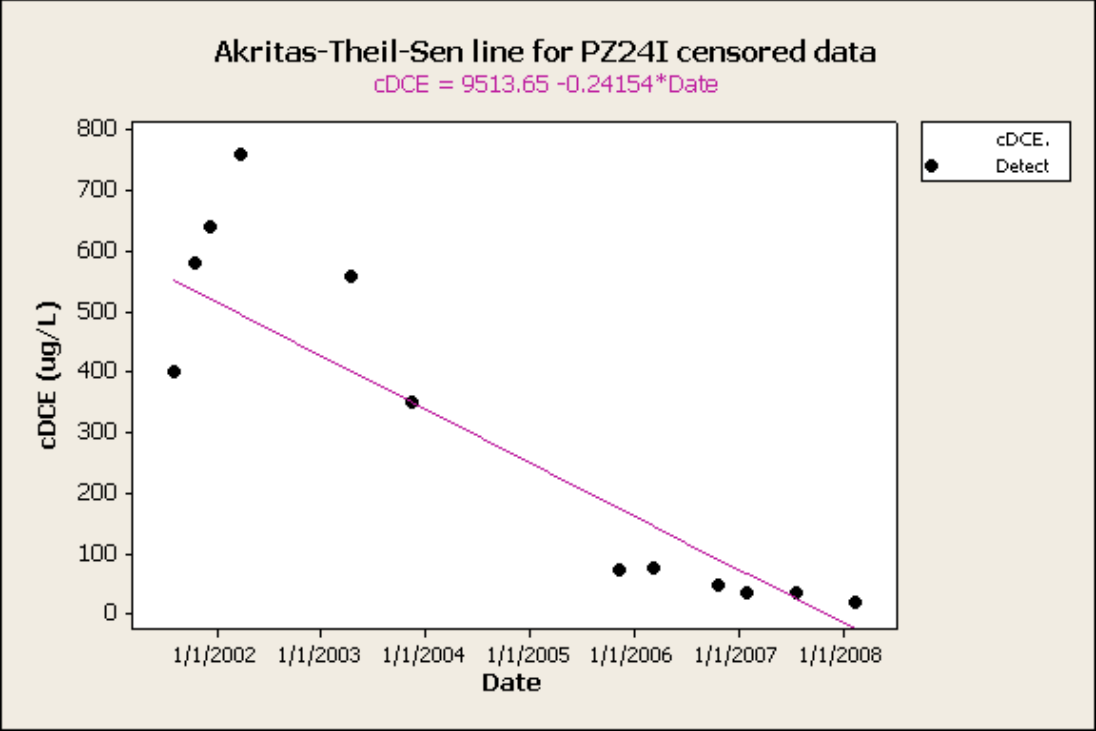

Akritas-Theil-Sen line for MW29S censored data
DCE = -19720.6 + 0.528642*Date
DCE (ug/L)
120
100
80
60
40
20
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCE,
Detect
ND

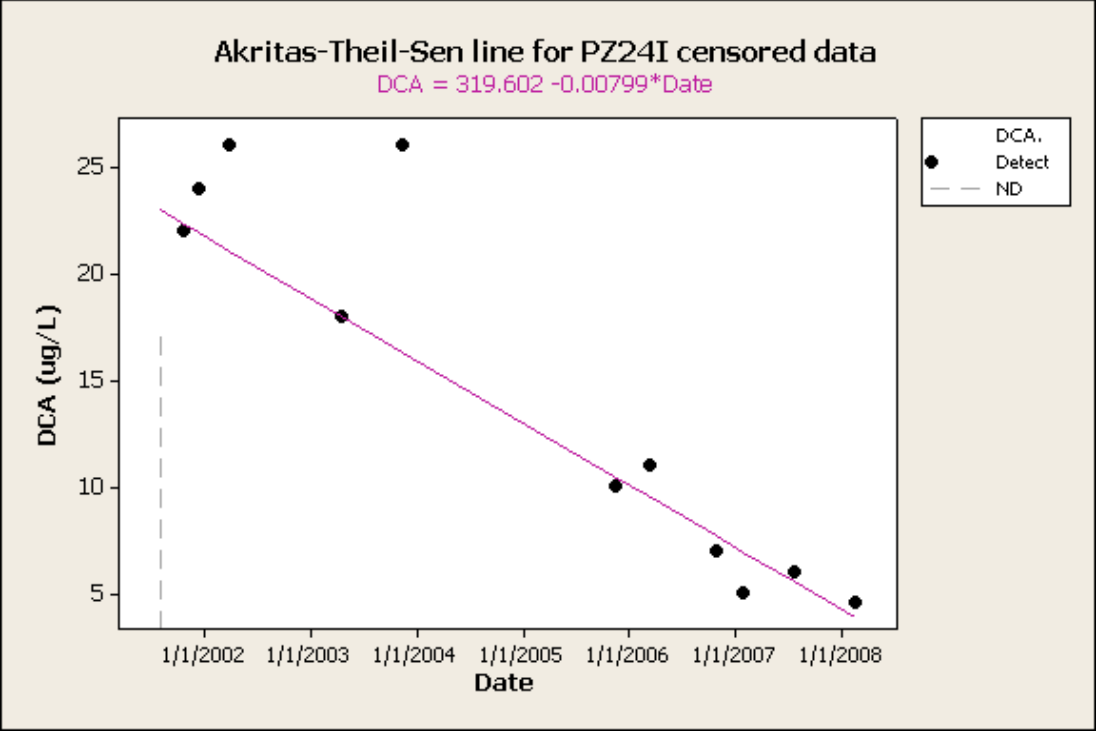

Akritas-Theil-Sen line for MW29S censored data
TCA = 5.21173 -0.00009*Date
TCA (ug/L)
120
100
80
60
40
20
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCA.
Detect
ND

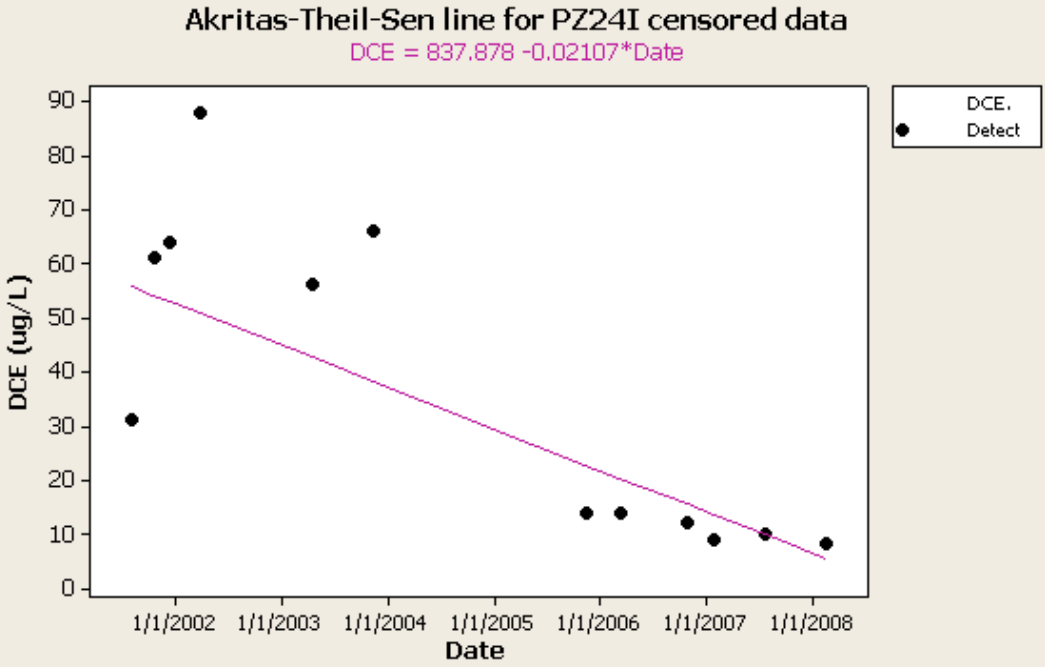

Akritas-Theil-Sen line for MW29S censored data
TCE = -40754.5 + 1.19297*Date
TCE (ug/L)
20000
17500
15000
12500
10000
7500
5000
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect

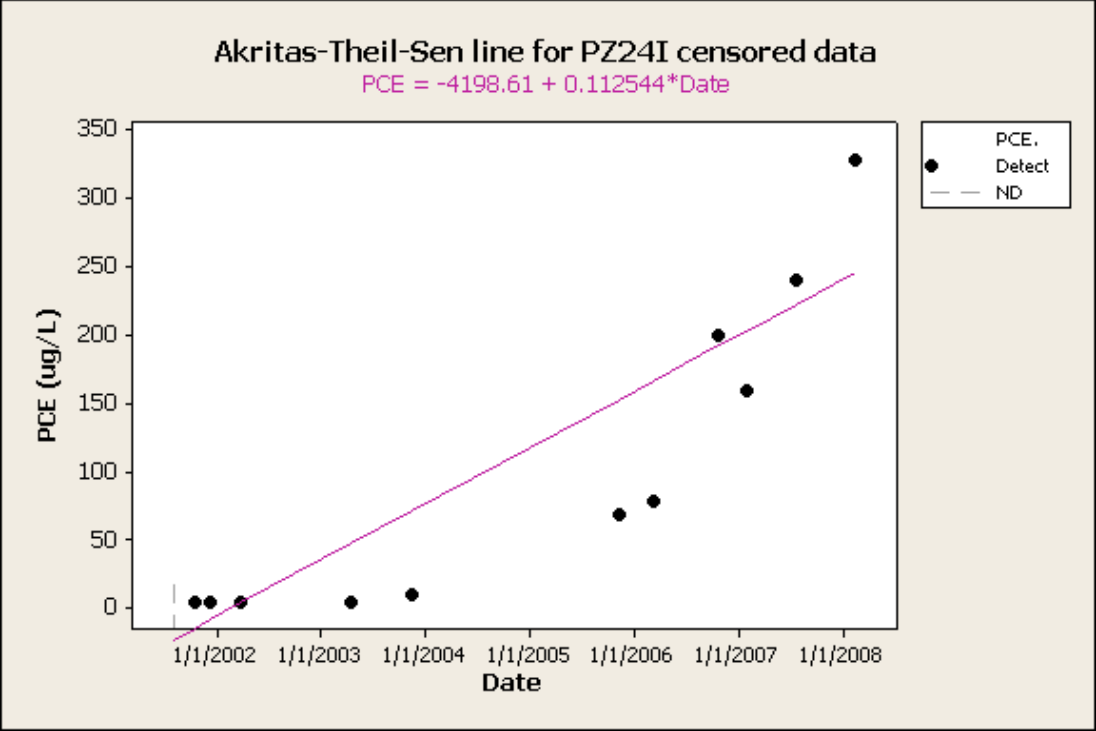

Akritas-Theil-Sen line for MW29S censored data
VC = -25699.4 + 0.691163*Date
VC (ug/L)
800
700
600
500
400
300
200
100
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND

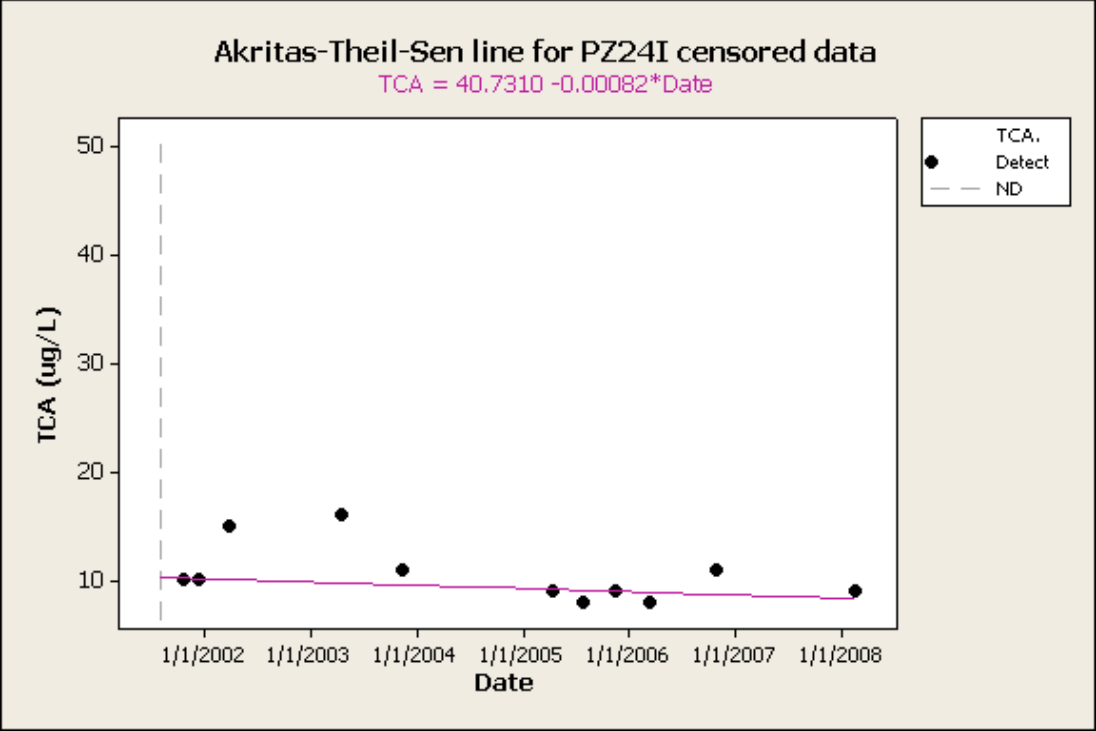

Akritas-Theil-Sen line for PZ24D censored data
TCE = 1779.28 -0.04687*Date
TCE (ug/L)
10
8
6
4
2
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect
ND

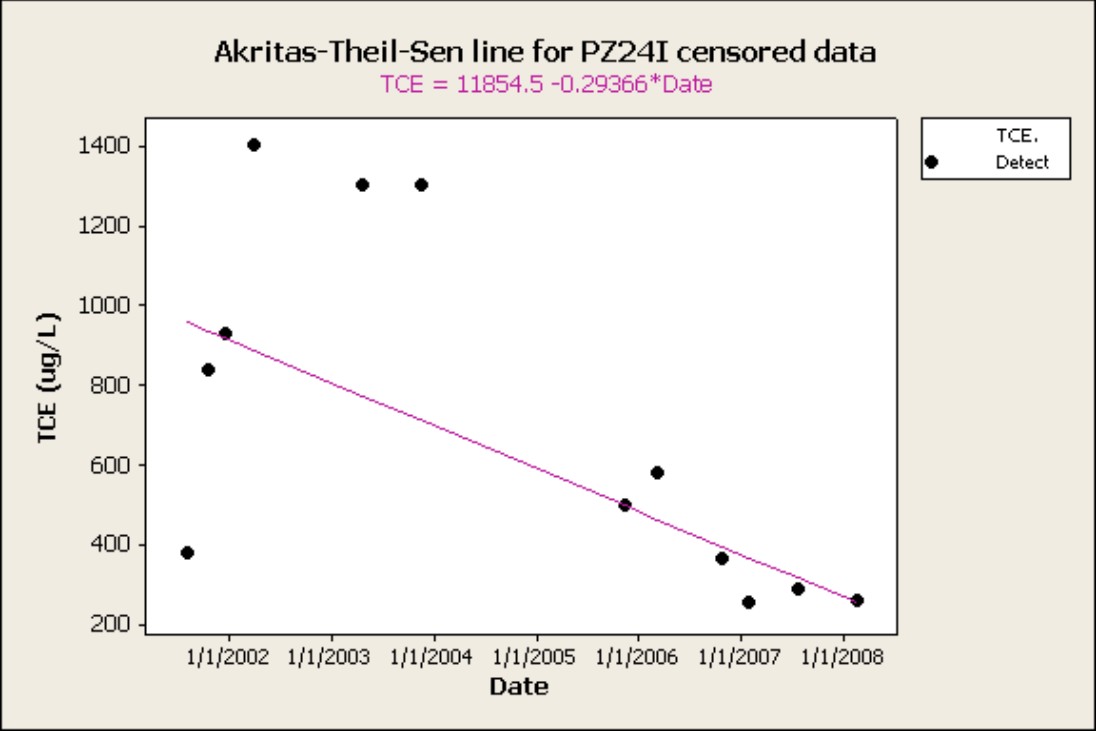

Akritas-Theil-Sen line for PZ24I censored data
cDCE = 9513.65 -0.24154*Date
cDCE (ug/L)
800
700
600
500
400
300
200
100
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect

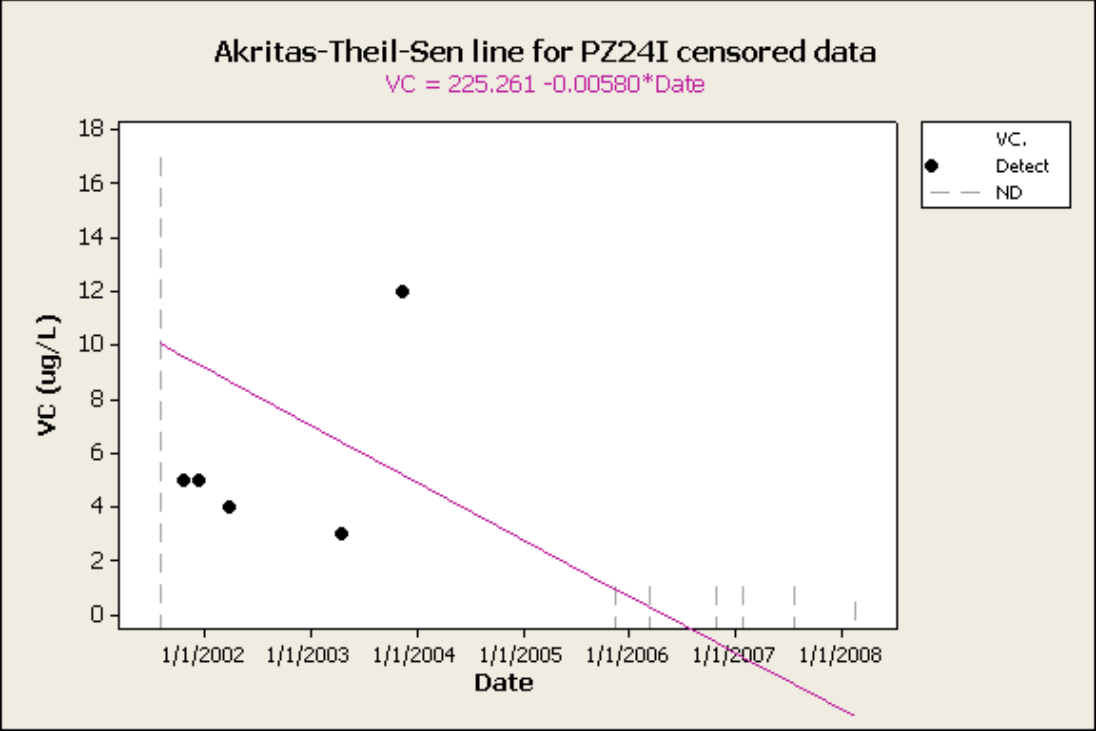

Akritas-Theil-Sen line for PZ24I censored data
DCA = 319.602 -0.00799*Date
DCA.
Detect
ND
DCA (ug/L)
25
20
15
10
5
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

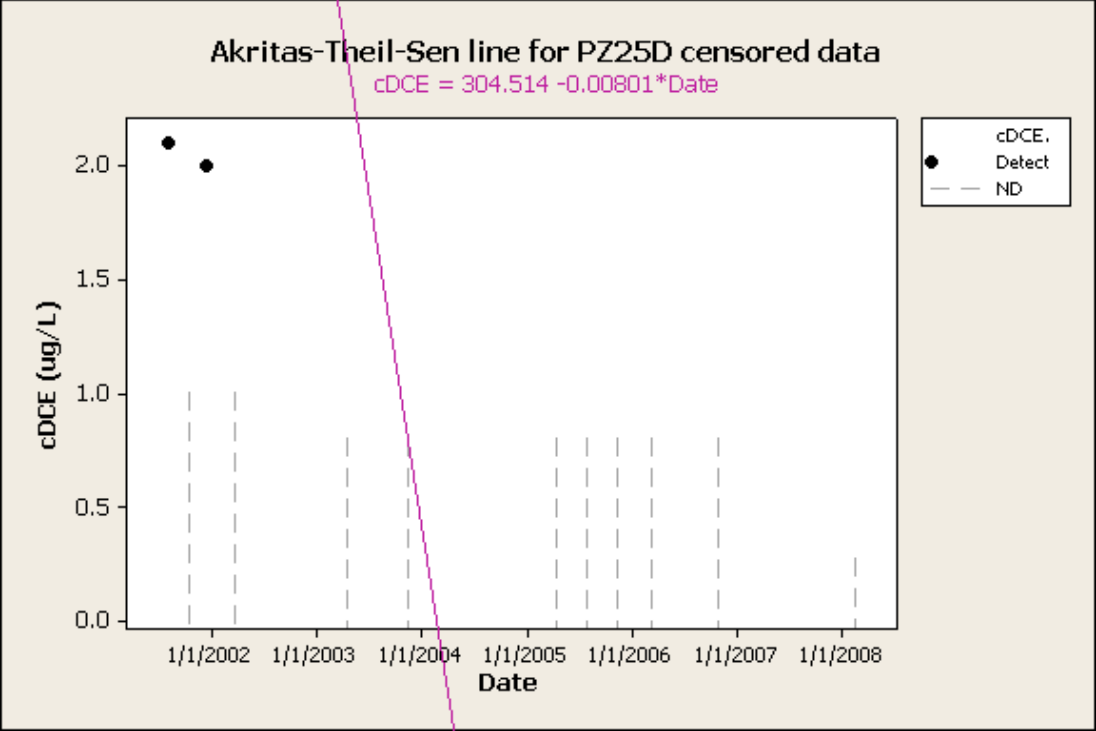

Akritas-Theil-Sen line for PZ24I censored data
DCE = 837.878 -0.02107*Date
DCE, Detect
DCE (ug/L)
90
80
70
60
50
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

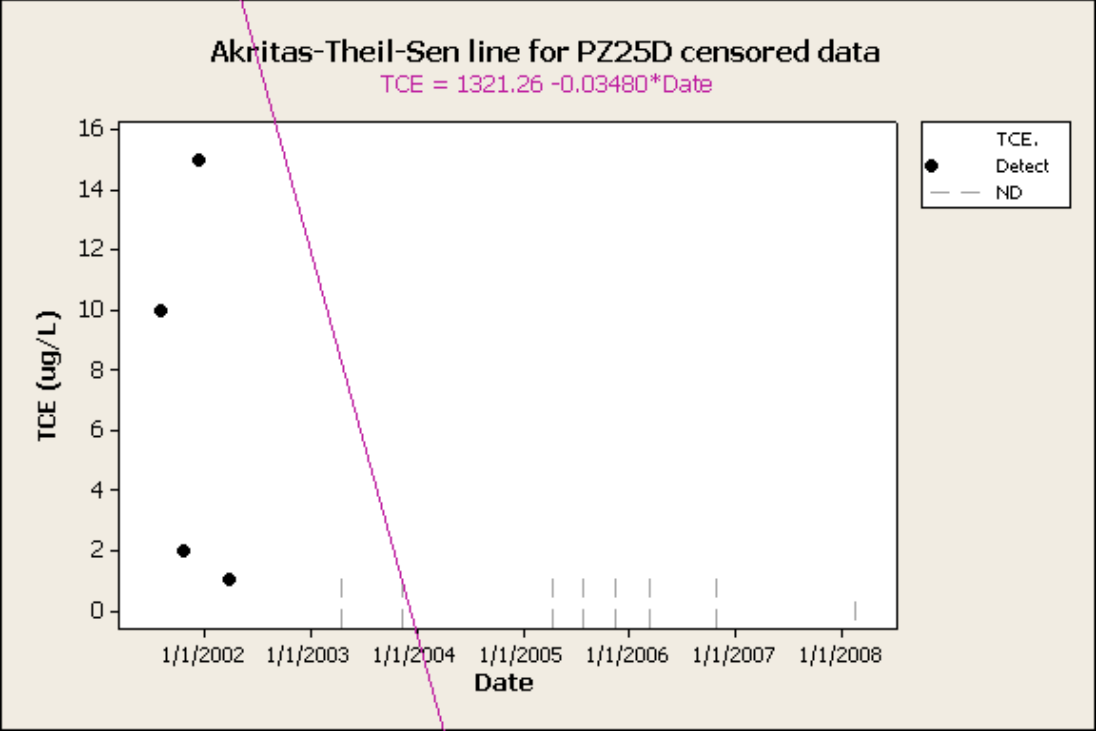

Akritas-Theil-Sen line for PZ24I censored data
PCE = -4198.61 + 0.112544*Date
PCE (ug/L)
350
300
250
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
PCE.
Detect
ND

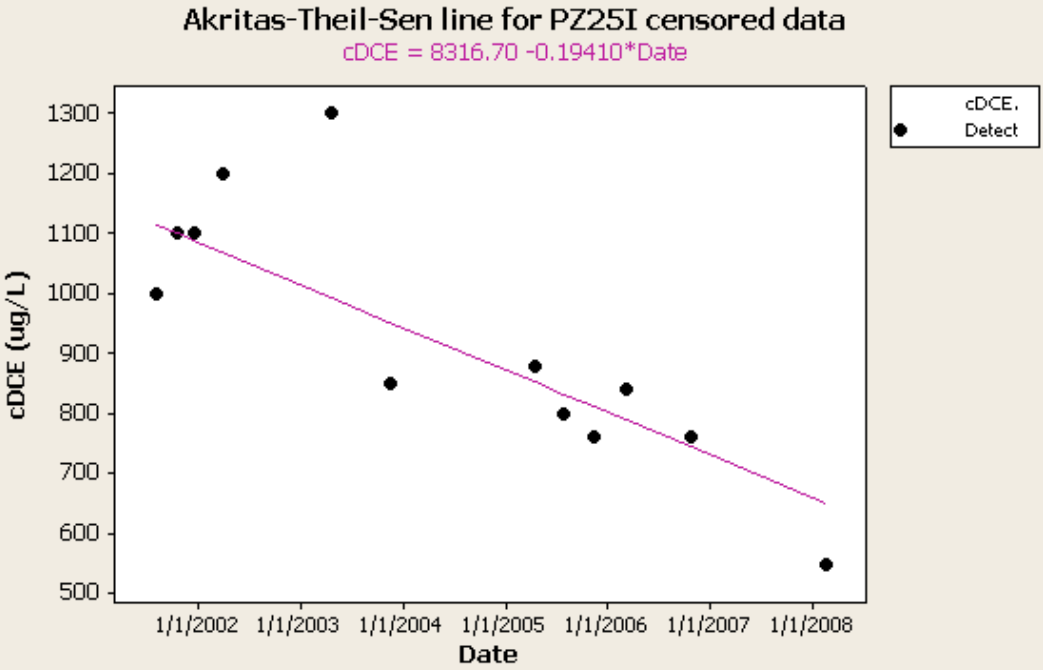

Akritas-Theil-Sen line for PZ24I censored data
TCA = 40.7310 -0.00082*Date
TCA (ug/L)
50
40
30
20
10
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCA.
Detect
ND

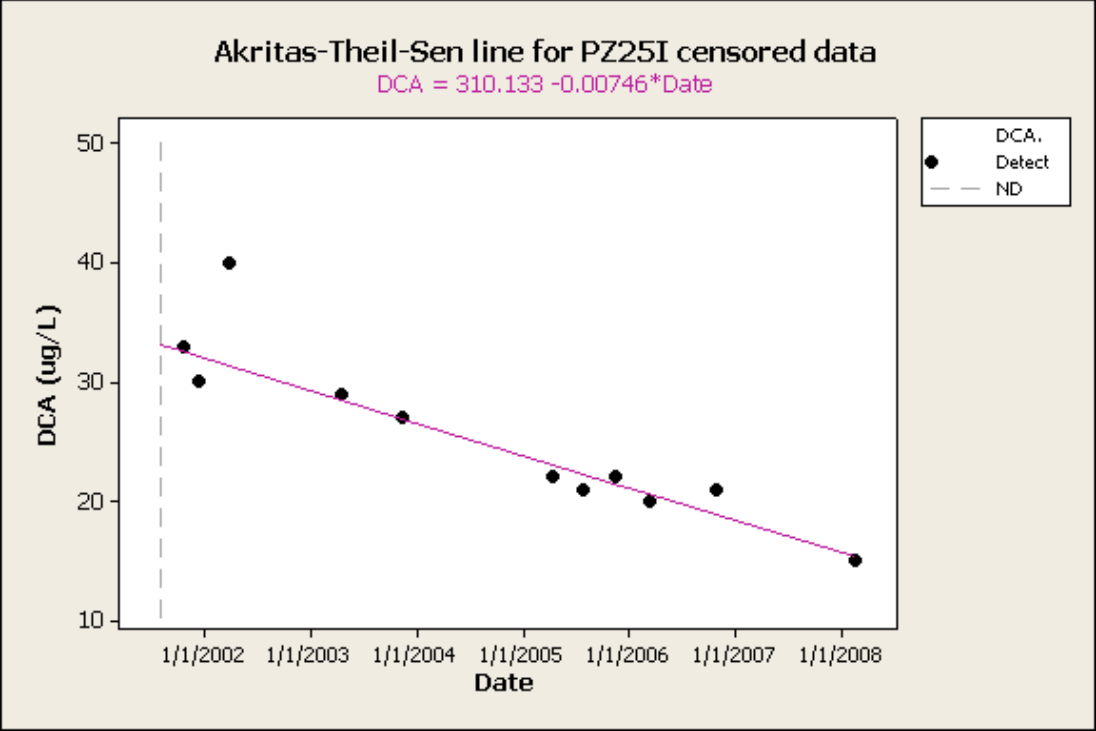

Akritas-Theil-Sen line for PZ24I censored data
TCE = 11854.5 -0.29366*Date
TCE, Detect
TCE (ug/L)
1400
1200
1000
800
600
400
200
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

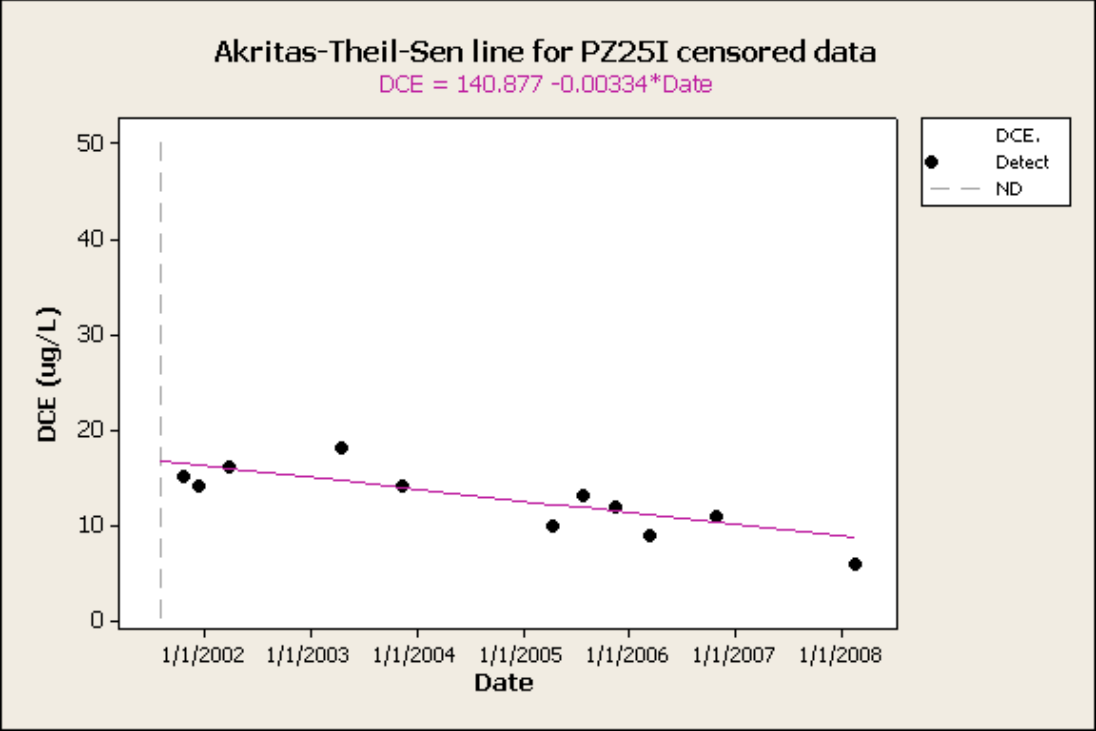

Akritas-Theil-Sen line for PZ24I censored data
VC = 225.261 -0.00580*Date
VC (ug/L)
18
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND

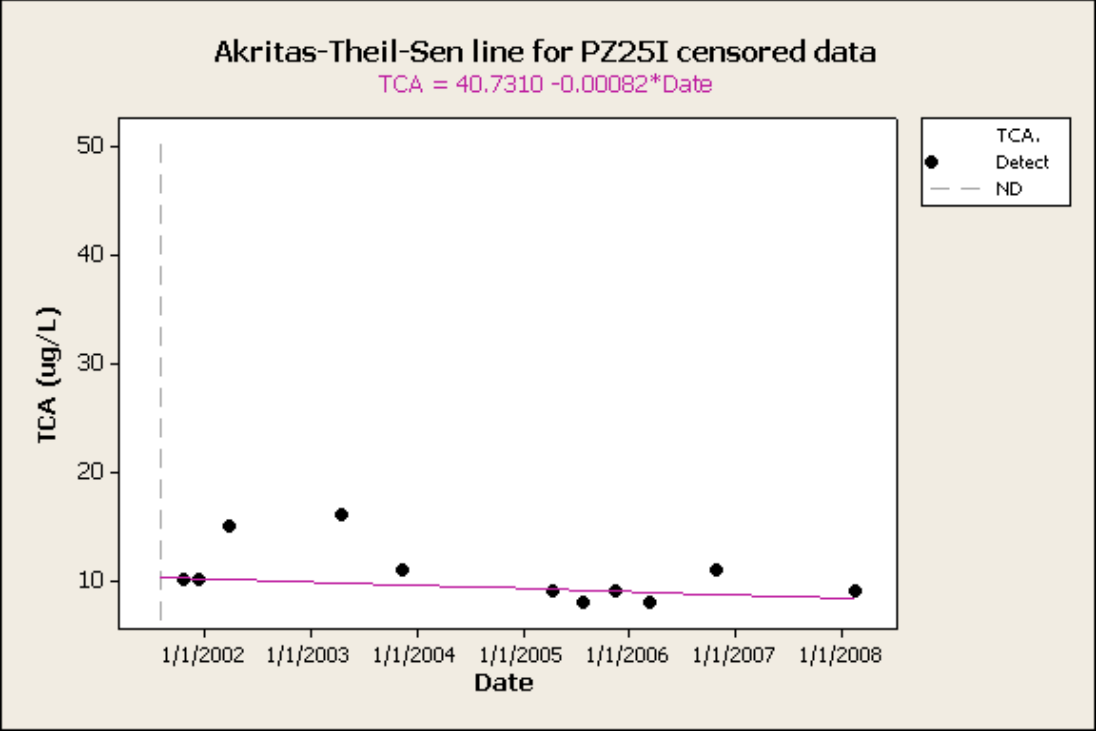

Akritas-Theil-Sen line for PZ25D censored data
cDCE = 304.514 -0.00801*Date
cDCE (ug/L)
2.0
1.5
1.0
0.5
0.0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect
ND

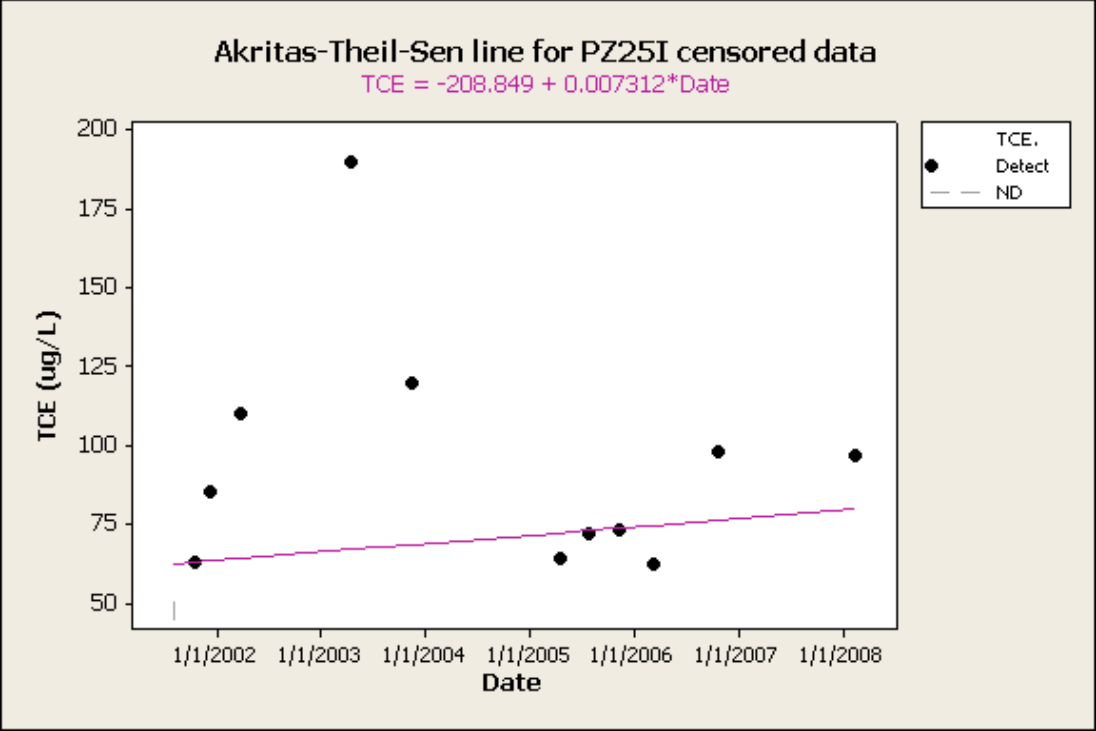

Akritas-Theil-Sen line for PZ25D censored data
TCE = 1321.26 -0.03480*Date
TCE (ug/L)
16
14
12
10
8
6
4
2
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect
ND

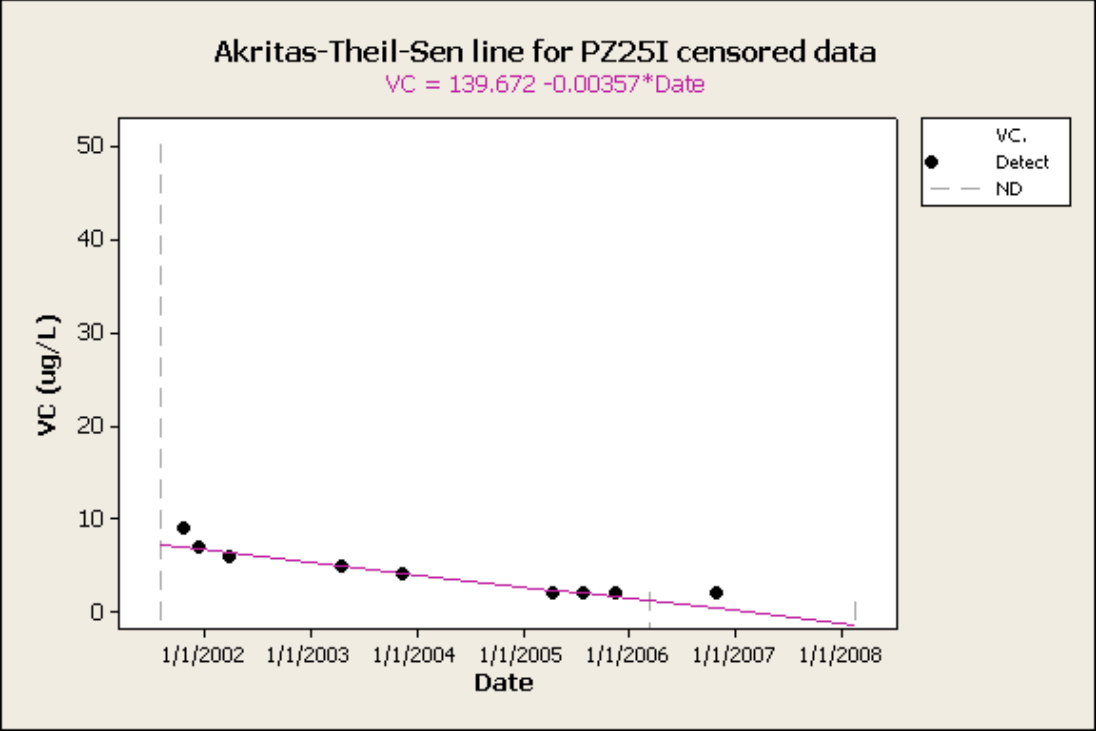

Akritas-Theil-Sen line for PZ25I censored data
cDCE = 8316.70 -0.19410*Date
cDCE (ug/L)
1300
1200
1100
1000
900
800
700
600
500
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect

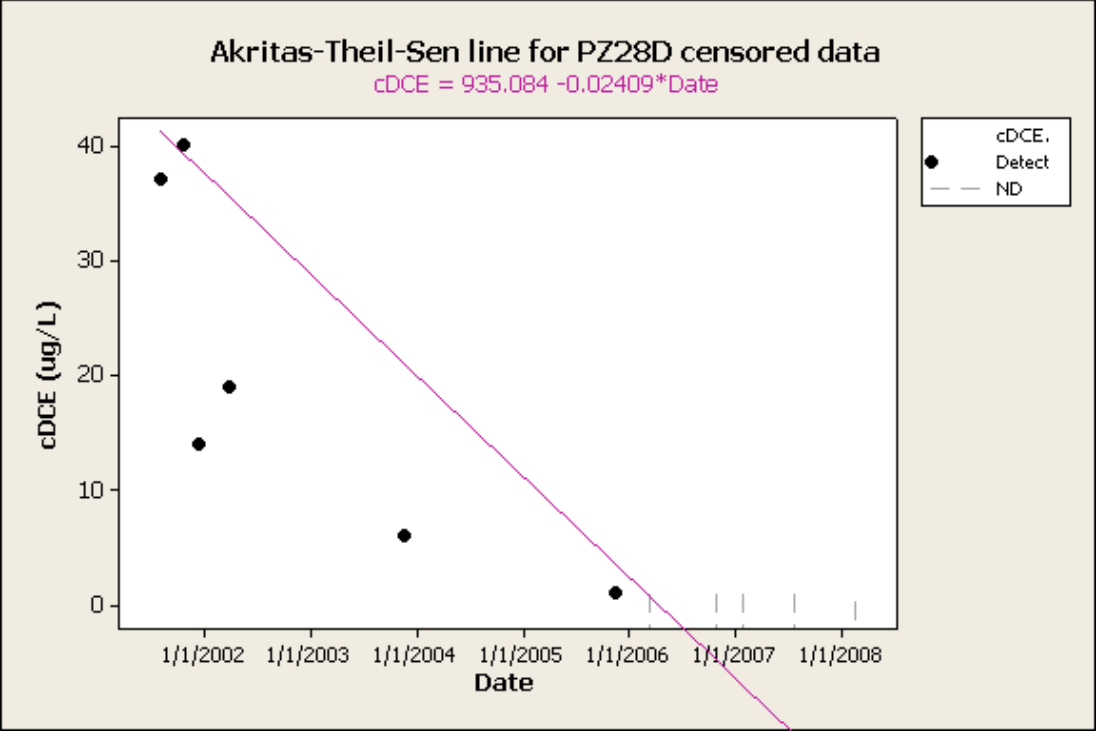

Akritas-Theil-Sen line for PZ25I censored data
DCA = 310.133 -0.00746*Date
DCA,
Detect
ND
DCA (ug/L)
50
40
30
20
10
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

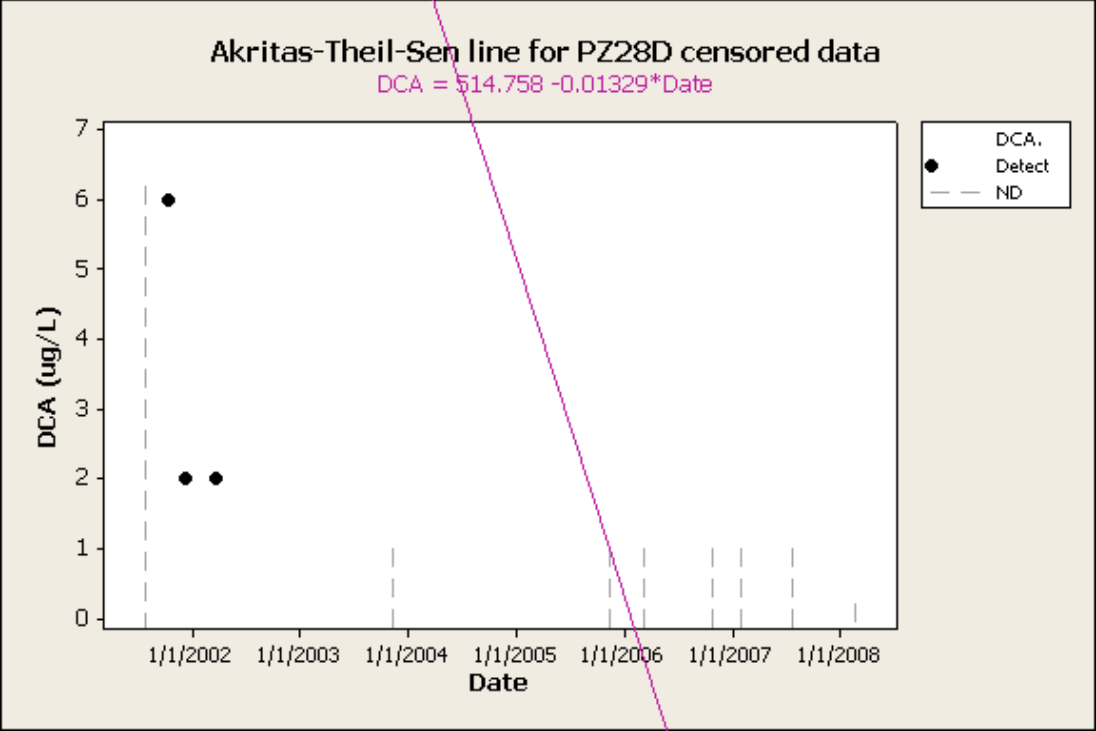

Akritas-Theil-Sen line for PZ25I censored data
DCE = 140.877 -0.00334*Date
DCE, Detect
ND
DCE (ug/L)
0
10
20
30
40
50
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

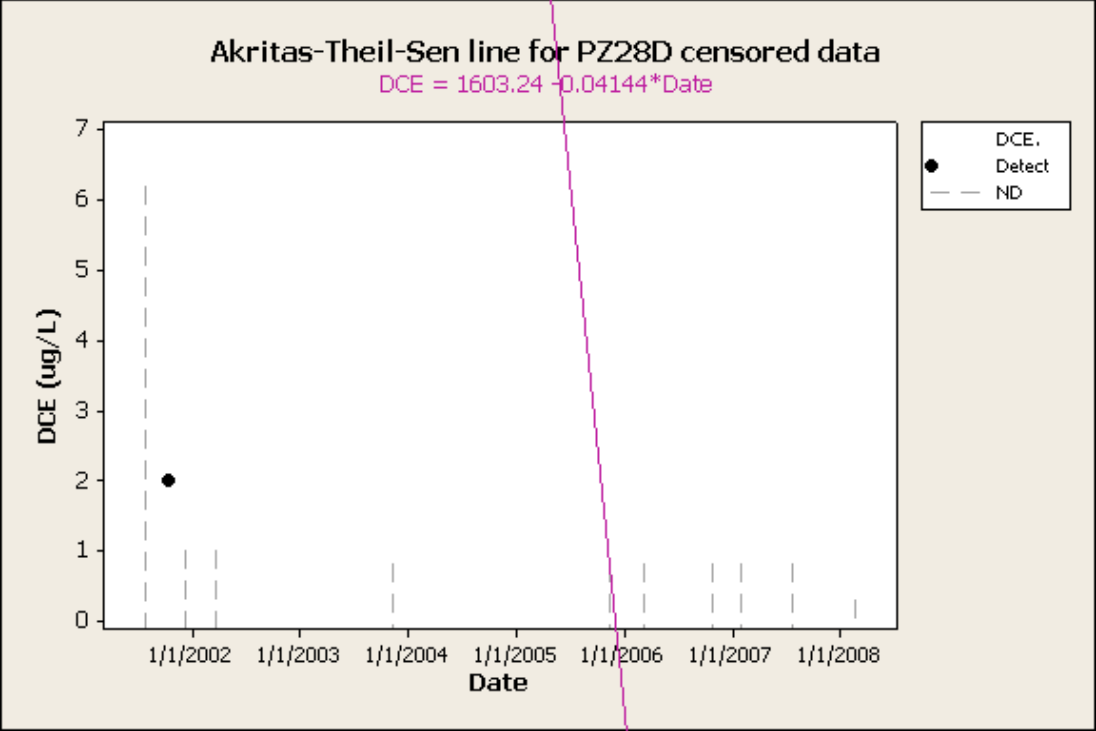

Akritas-Theil-Sen line for PZ25I censored data
TCA = 40.7310 -0.00082*Date
TCA (ug/L)
50
40
30
20
10
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCA.
Detect
ND

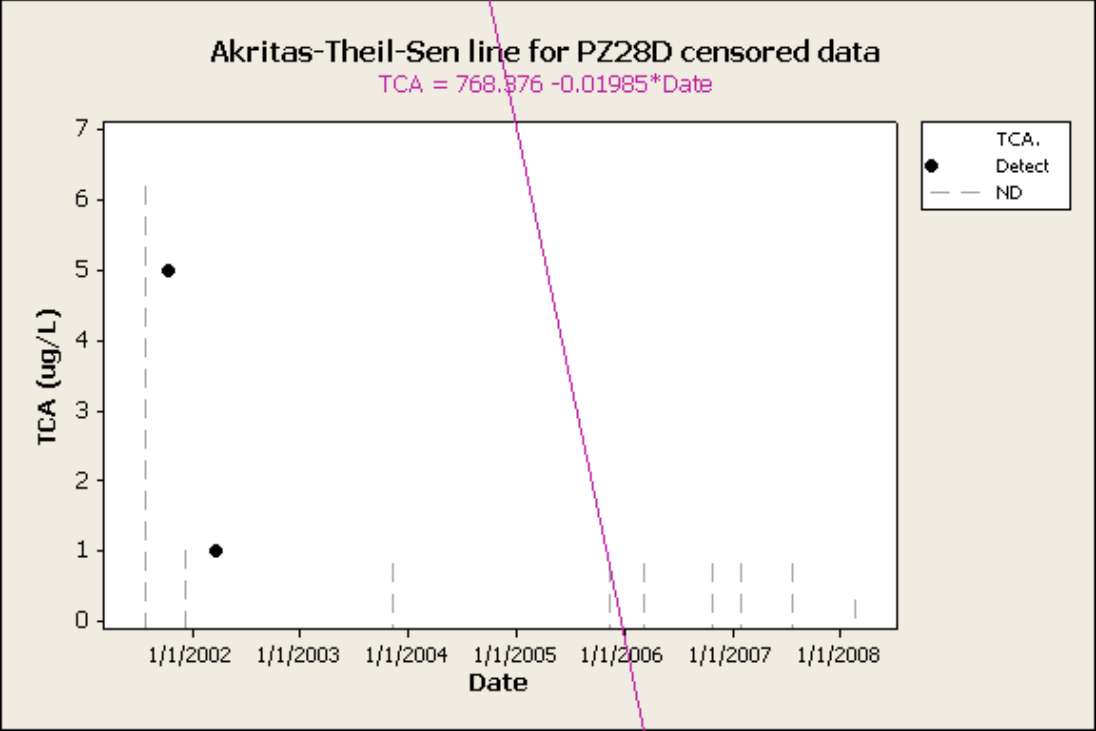

Akritas-Theil-Sen line for PZ25I censored data
TCE = -208.849 + 0.007312*Date
TCE (ug/L)
200
175
150
125
100
75
50
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect
ND

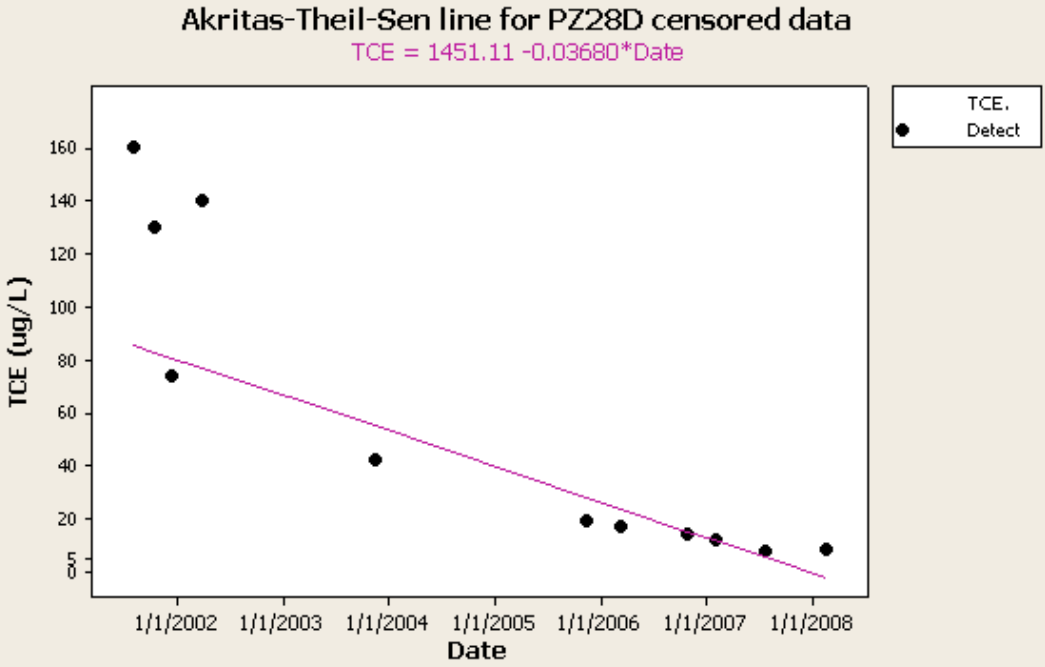

Akritas-Theil-Sen line for PZ25I censored data
VC = 139.672 -0.00357*Date
VC (ug/L)
50
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND

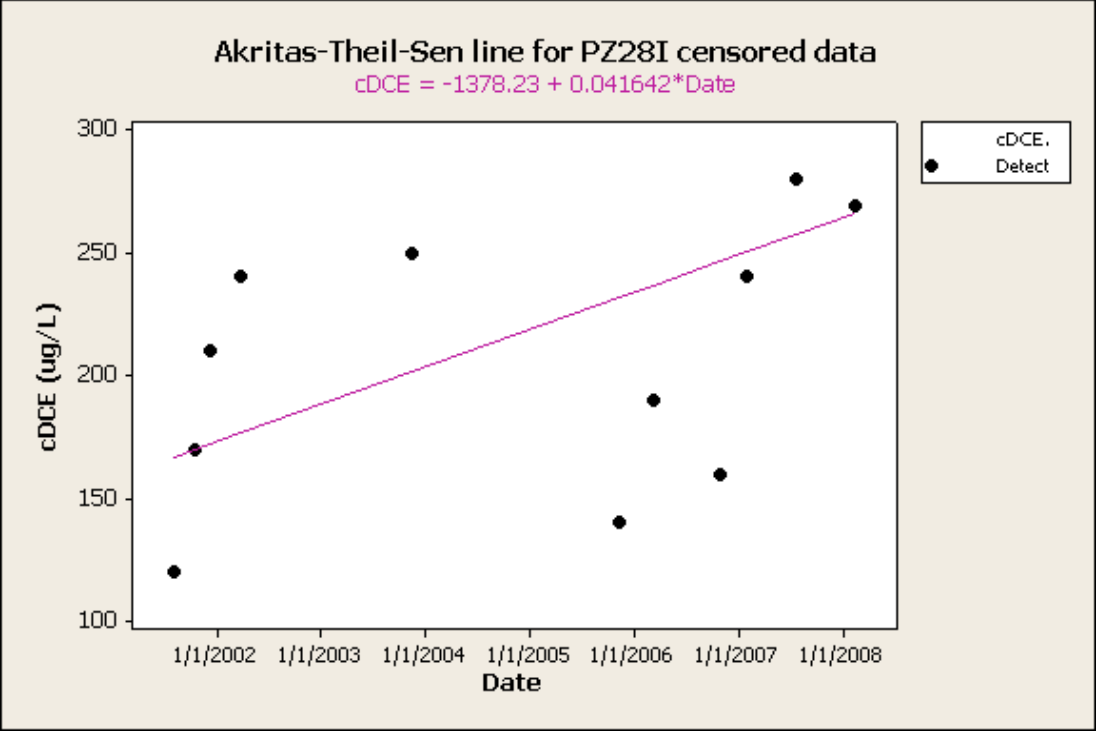

Akritas-Theil-Sen line for PZ28D censored data
cDCE = 935.084 -0.02409*Date
cDCE (ug/L)
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect
ND

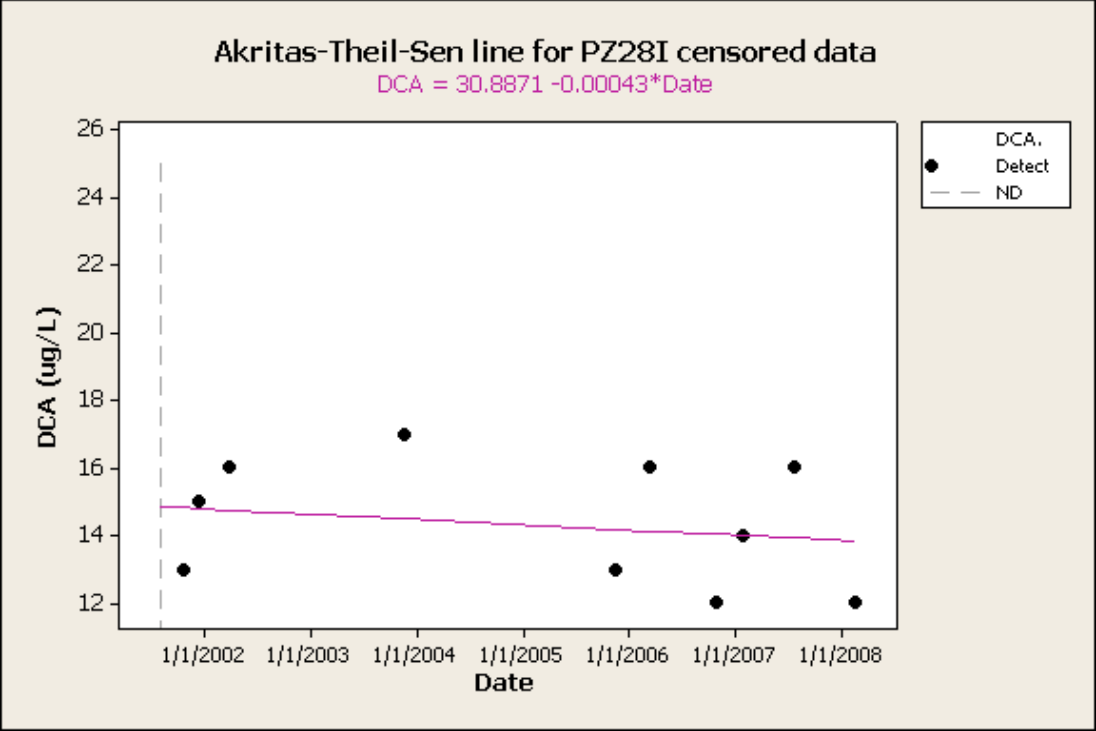

Akritas-Theil-Sen line for PZ28D censored data
DCA = 514.758 -0.01329*Date
DCA (ug/L)
7
6
5
4
3
2
1
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCA.
Detect
ND

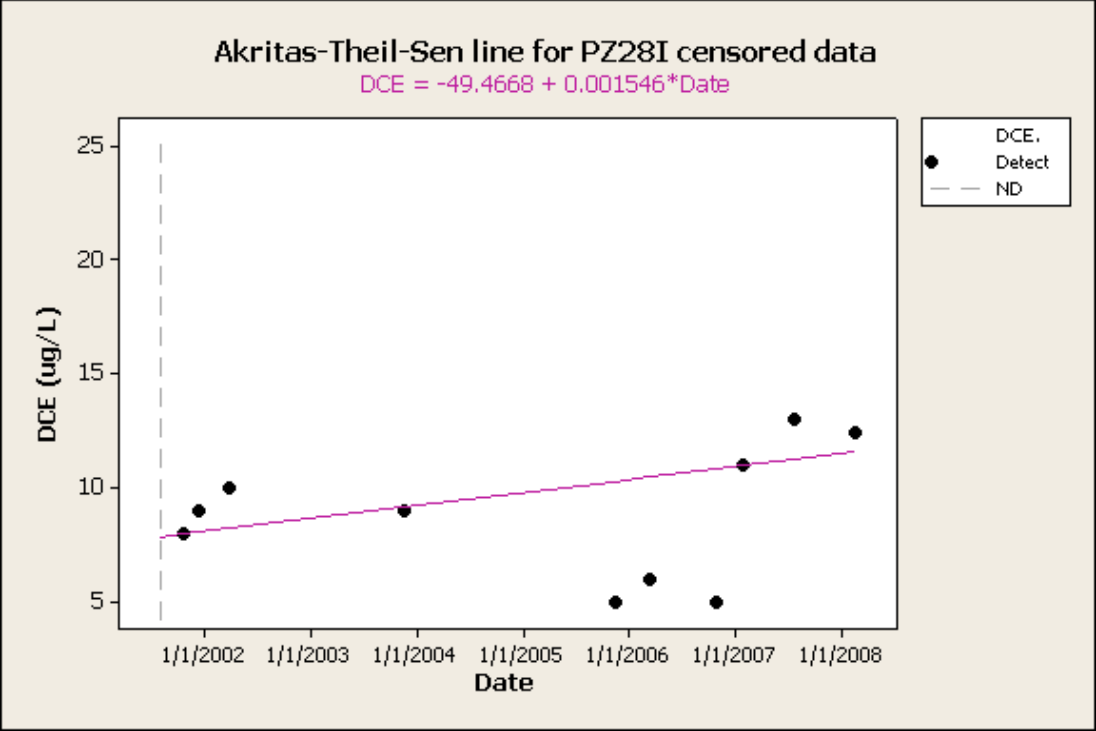

Akritas-Theil-Sen line for PZ28D censored data
DCE = 1603.24 -0.04144*Date
DCE (ug/L)
7
6
5
4
3
2
1
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCE.
Detect
ND

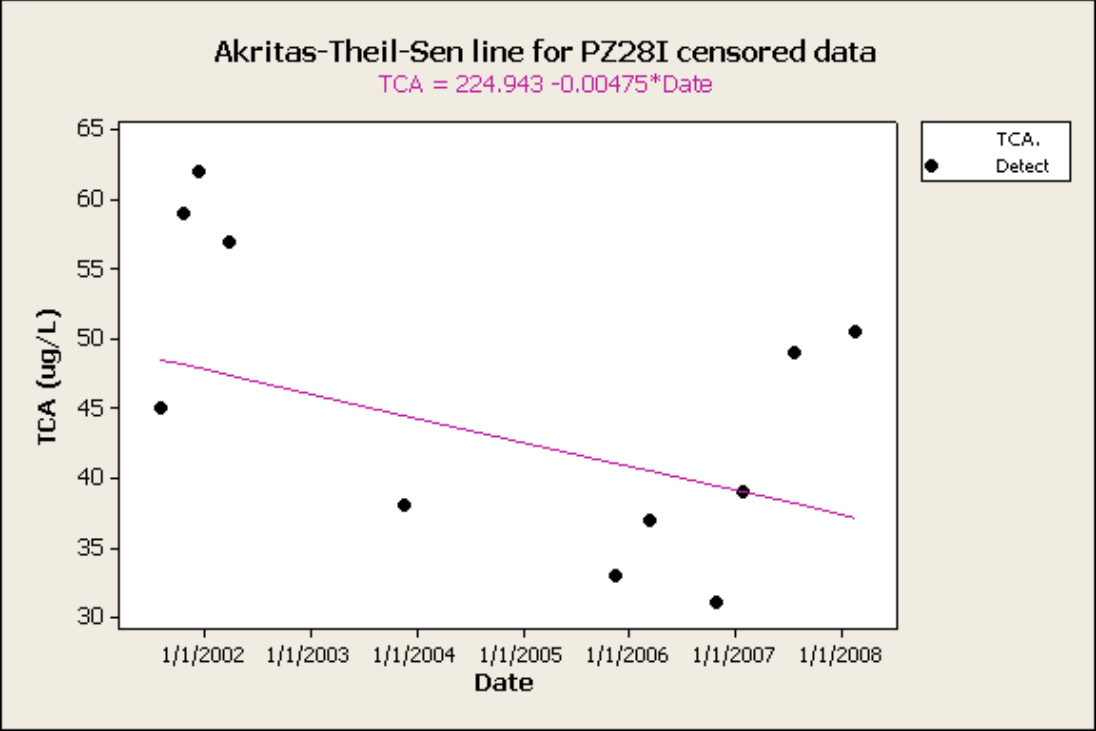

Akritas-Theil-Sen line for PZ28D censored data
TCA = 768.376 -0.01985*Date
TCA.
Detect
ND
TCA (ug/L)
0
1
2
3
4
5
6
7
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

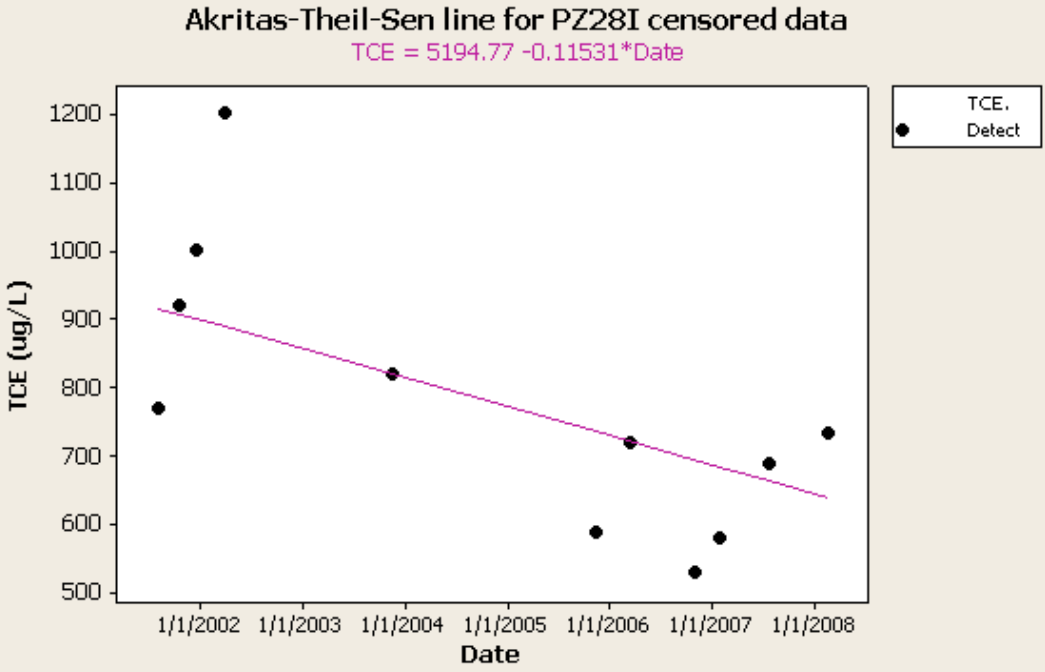

Akritas-Theil-Sen line for PZ28D censored data
TCE = 1451.11 -0.03680*Date
TCE.
Detect
TCE (ug/L)
160
140
120
100
80
60
40
20
5
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

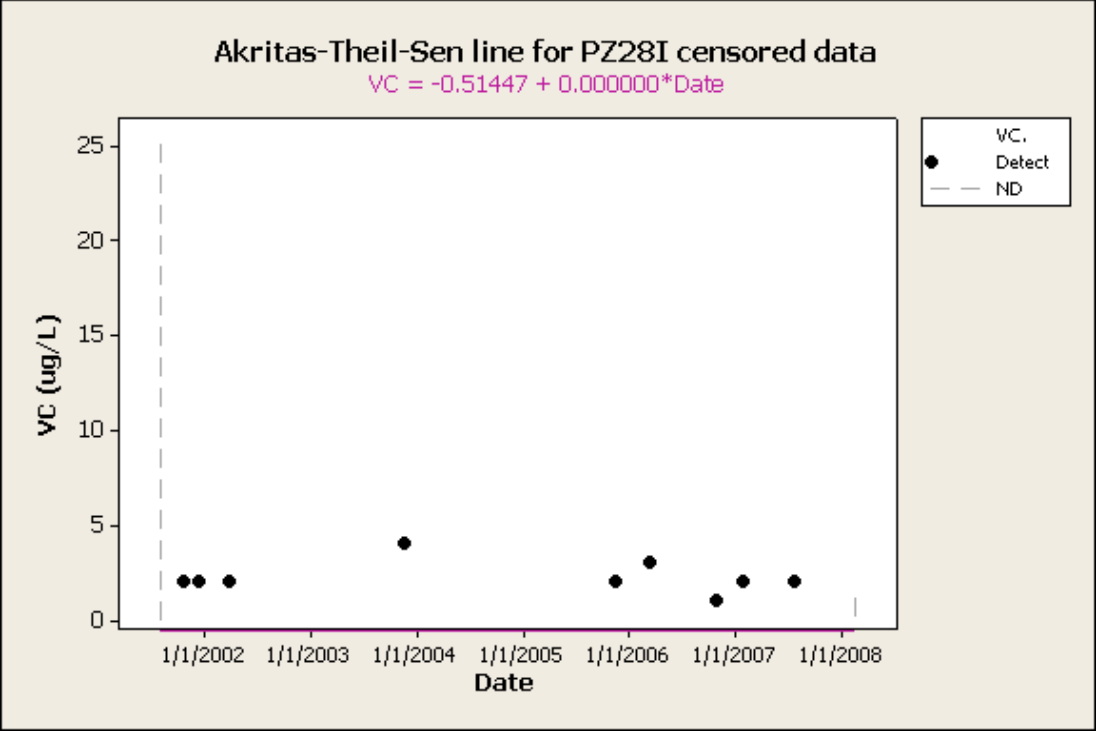

Akritas-Theil-Sen line for PZ28I censored data
cDCE = -1378.23 + 0.041642*Date
cDCE (ug/L)
300
250
200
150
100
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect

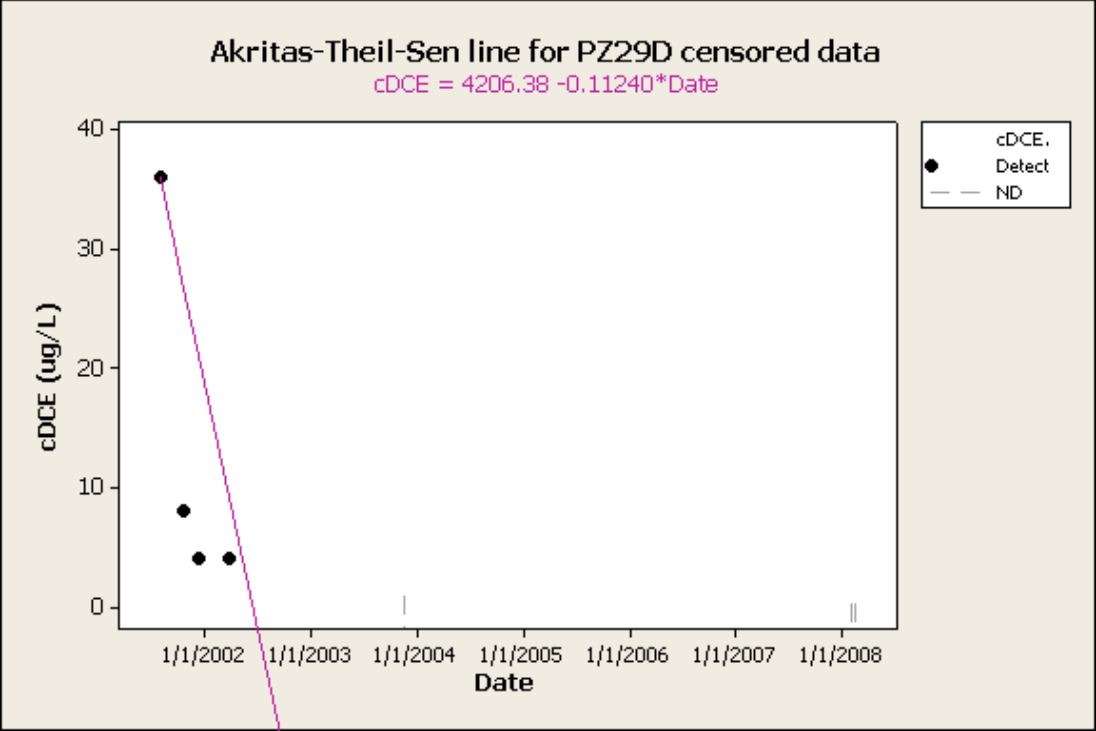

Akritas-Theil-Sen line for PZ28I censored data
DCA = 30.8871 -0.00043*Date
DCA (ug/L)
26
24
22
20
18
16
14
12
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCA.
Detect
ND

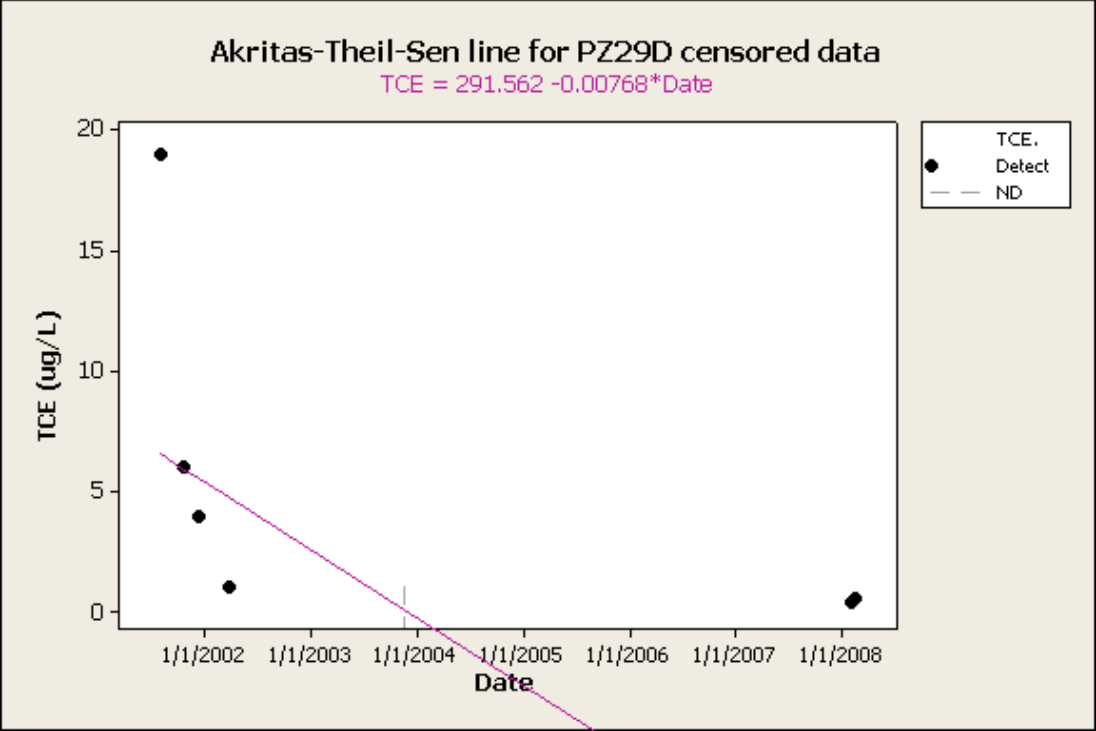

Akritas-Theil-Sen line for PZ28I censored data
DCE = -49.4668 + 0.001546*Date
DCE (ug/L)
25
20
15
10
5
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
DCE.
Detect
ND

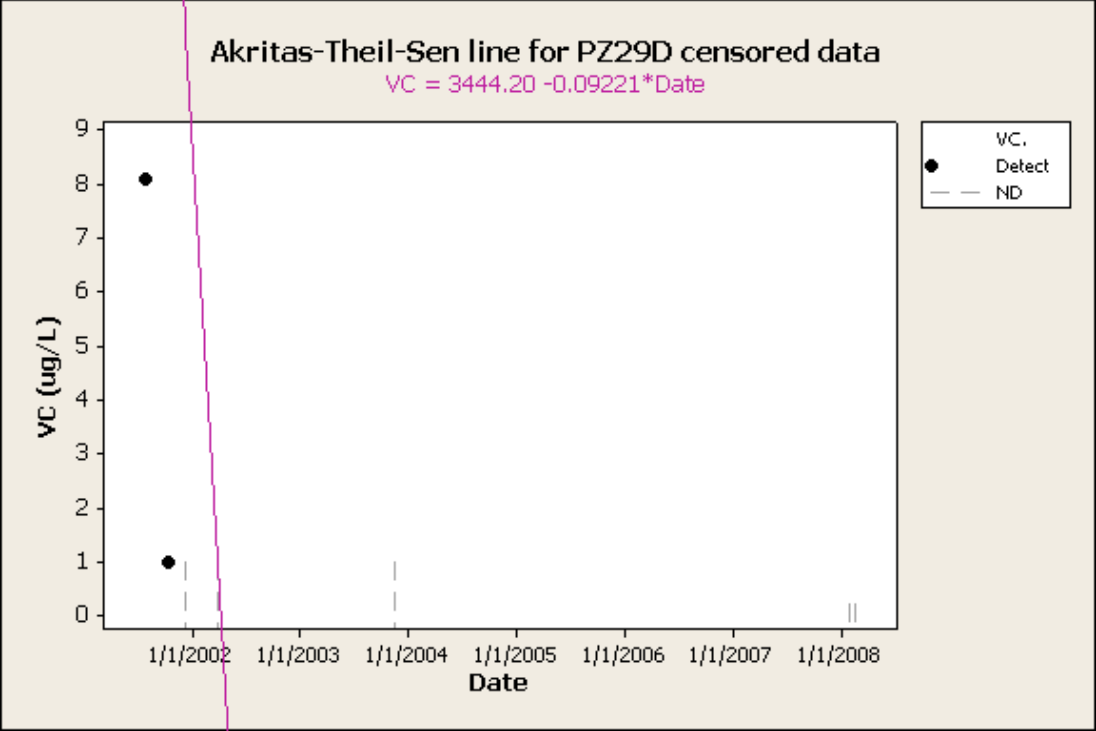

Akritas-Theil-Sen line for PZ28I censored data
TCA = 224.943 -0.00475*Date
TCA, Detect
TCA (ug/L)
65
60
55
50
45
40
35
30
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date

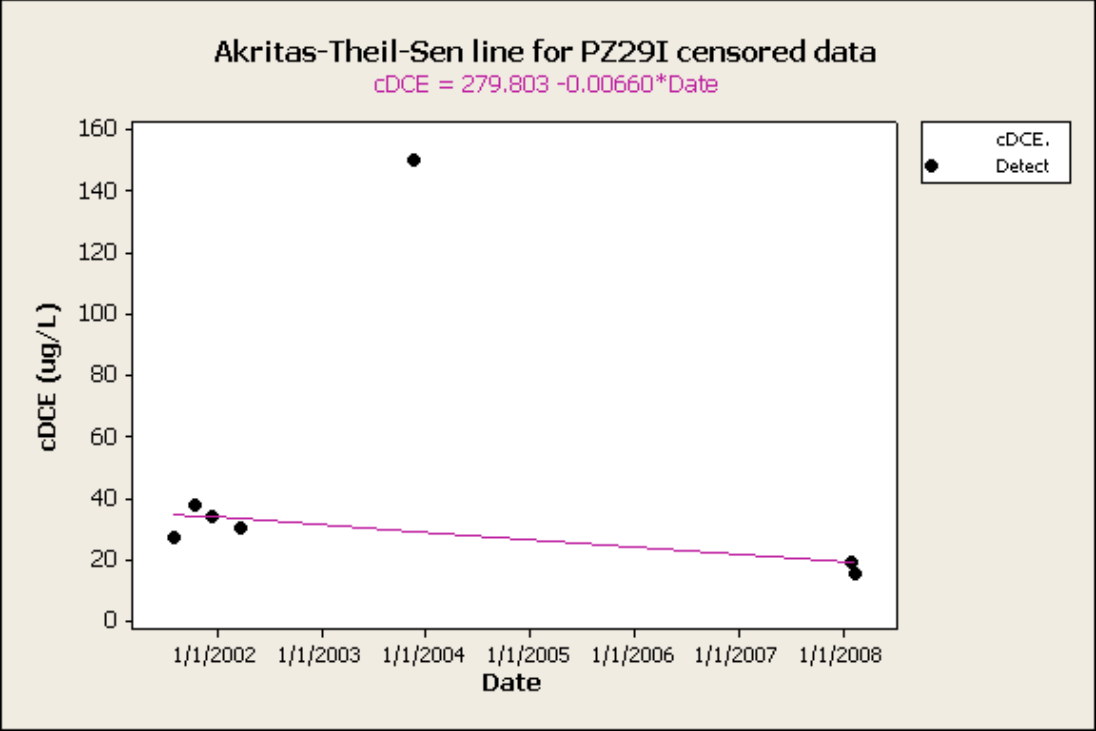

Akritas-Theil-Sen line for PZ28I censored data
TCE = 5194.77 -0.11531*Date
TCE (ug/L)
1200
1100
1000
900
800
700
600
500
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE,
Detect

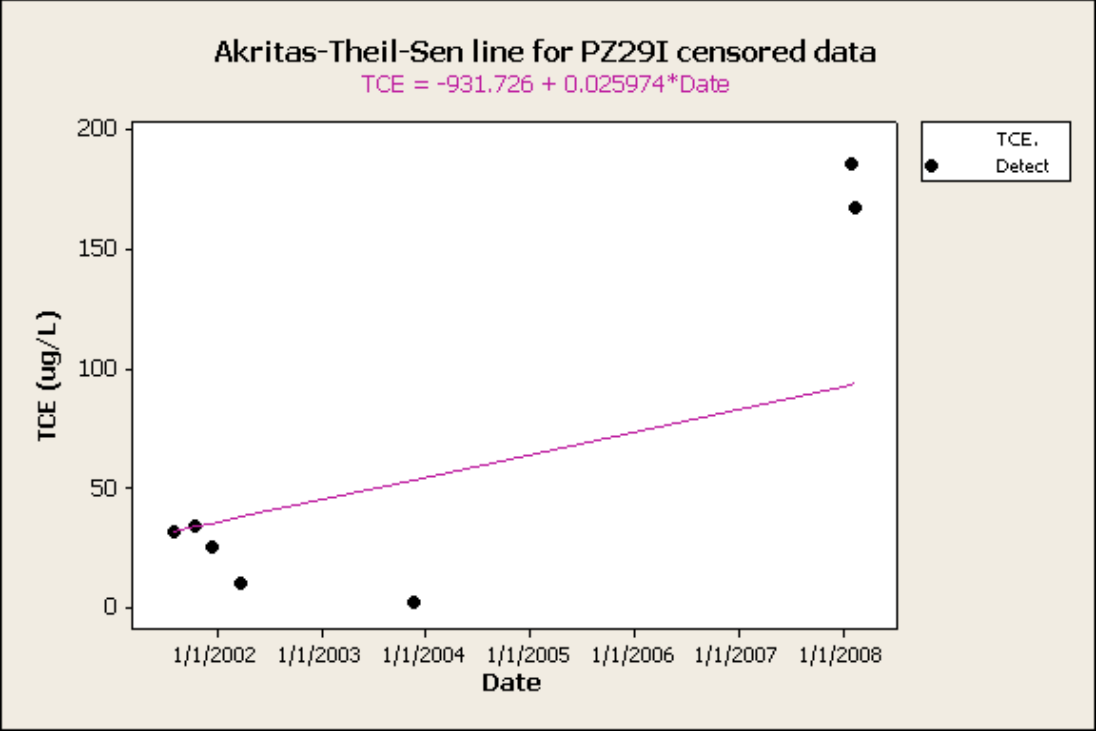

Akritas-Theil-Sen line for PZ28I censored data
VC = -0.51447 + 0.000000*Date
VC (ug/L)
25
20
15
10
5
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND


Akritas-Theil-Sen line for PZ29D censored data
cDCE = 4206.38 -0.11240*Date
cDCE (ug/L)
40
30
20
10
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect
ND


Akritas-Theil-Sen line for PZ29D censored data
TCE = 291.562 -0.00768*Date
TCE (ug/L)
20
15
10
5
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect
ND


Akritas-Theil-Sen line for PZ29D censored data
VC = 3444.20 -0.09221*Date
VC (ug/L)
9
8
7
6
5
4
3
2
1
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
VC.
Detect
ND


Akritas-Theil-Sen line for PZ29I censored data
cDCE = 279.803 -0.00660*Date
cDCE (ug/L)
160
140
120
100
80
60
40
20
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
cDCE.
Detect


Akritas-Theil-Sen line for PZ29I censored data
TCE = -931.726 + 0.025974*Date
TCE (ug/L)
200
150
100
50
0
1/1/2002
1/1/2003
1/1/2004
1/1/2005
1/1/2006
1/1/2007
1/1/2008
Date
TCE.
Detect

```
Results for: PZ29I.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -7.00000
tau     -0.333333


cDCE = 279.803 -0.00660*Date



Slope       -0.00660121
Intercept    279.803

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -7.00000
tau     -0.333333
taub    -0.333333
z       -0.901127
pval    0.367521

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    1.00000
```

tau 0.0476190

TCE = -931.726 + 0.025974*Date

Slope 0.0259744
Intercept -931.726

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 1.00000
tau 0.0476190
taub 0.0476190
z 0
pval 1.00000

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -4.00000
tau -0.190476

VC = 208.025 -0.00515*Date

Slope -0.00514852
Intercept 208.025

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -4.00000

```
tau     -0.190476
taub    -0.195180
z       -0.455733
pval    0.648582

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29I Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29I Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29I Scatterplot of cDCE vs
Date.mgf'
MTB >
```

Results for: MW11S.MTW

```
MTB > %ats c2 c7 c4 c8
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -142.000
tau     -0.614719


TCA = 1121.54 -0.02857*Date



Slope       -0.0285713
Intercept    1121.54

MTB > %ckend c2 c7 c4 c8
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -142.000
tau     -0.614719
taub    -0.654135
z       -4.01929
pval    0.000058375

MTB > %ats c2 c10 c4 c11
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -118.000
tau     -0.510823


DCA = 211.991 -0.00542*Date
```

```
Slope       -0.00541596
Intercept    211.991

MTB > %ckend c2 c10 c4 c11
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -118.000
tau     -0.510823
taub    -0.642539
z       -3.42053
pval    0.000625001

MTB > %ats c2 c13 c4 c14
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -122.000
tau     -0.528139


DCE = 289.835 -0.00752*Date



Slope       -0.00752354
Intercept    289.835

MTB > %ckend c2 c13 c4 c14
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -122.000
tau     -0.528139
taub    -0.693428
z       -3.57224
pval    0.000353942
```

```
MTB > %ats c2 c16 c4 c17
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -187.000
tau     -0.809524


cDCE = 3827.07 -0.09713*Date



Slope       -0.0971283
Intercept    3827.07

MTB > %ckend c2 c16 c4 c17
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -187.000
tau     -0.809524
taub    -0.813051
z       -5.24899
pval    0.000000153

MTB > %ats c2 c19 c4 c20
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC
* ERROR * Wrong number of rows in WHERE expression.


A-T-S line

stau    -18.0000
tau     -0.0779221


PCE = 26.3611 -0.00065*Date



Slope       -0.000651006
```

```
Intercept    26.3611

MTB > %ckend c2 c19 c4 c20
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
* ERROR * Wrong number of rows in WHERE expression.


Kendall's tau for censored data

S       -18.0000
tau     -0.0779221
taub    -0.148039
z       -0.515704
pval    0.606061

MTB > %ats c2 c22 c4 c23
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -113.000
tau     -0.489177


TCE = 20976.4 -0.52425*Date



Slope        -0.524246
Intercept    20976.4

MTB > %ckend c2 c22 c4 c23
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -113.000
tau     -0.489177
taub    -0.493469
z       -3.16320
pval    0.00156044

MTB > %ats c2 c25 c4 c26
```

```
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -91.0000
tau     -0.393939


VC = 496.261 -0.01285*Date



Slope       -0.0128570
Intercept    496.261

MTB > %ckend c2 c25 c4 c26
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -91.0000
tau     -0.393939
taub    -0.563243
z       -2.67261
pval    0.00752632

MTB >
```

Results for: PZ24D.MTW

```
MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -26.0000
tau     -0.393939


TCE = 1779.28 -0.04687*Date



Slope       -0.0468733
Intercept    1779.28

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -26.0000
tau     -0.393939
taub    -0.584307
z       -2.29819
pval    0.0215508

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ24D Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ24D Scatterplot of TCE vs
Date.mgf'
Existing file replaced.
```

Results for: MW25S.MTW

```
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -33.0000
tau     -0.423077


TCA = 138.326 -0.00355*Date



Slope       -0.00355371
Intercept    138.326

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -33.0000
tau     -0.423077
taub    -0.557007
z       -2.19604
pval    0.0280888

MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -35.0000
tau     -0.448718


DCA = 93.7138 -0.00243*Date



Slope       -0.00242940
Intercept    93.7138
```

```
MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -35.0000
tau     -0.448718
taub    -0.669864
z       -2.48855
pval    0.0128267

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    0
tau     0


DCE = 2163.21 -0.05625*Date



Slope       -0.0562497
Intercept    2163.21

MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000
```

```
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -54.0000
tau     -0.692308


cDCE = 1728.03 -0.04454*Date



Slope       -0.0445376
Intercept    1728.03

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -54.0000
tau     -0.692308
taub    -0.730798
z       -3.29326
pval    0.000990329

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -30.0000
tau     -0.384615


PCE = 42.9731 -0.00108*Date



Slope       -0.00107648
Intercept    42.9731
```

```
MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -30.0000
tau     -0.384615
taub    -0.480384
z       -1.92339
pval    0.0544316

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -52.0000
tau     -0.666667


TCE = 3276.77 -0.08328*Date



Slope       -0.0832764
Intercept    3276.77

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -52.0000
tau     -0.666667
taub    -0.675382
z       -3.12310
pval    0.00178957

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line
```

```
stau    0
tau     0


VC = 2163.41 -0.05625*Date



Slope        -0.0562497
Intercept    2163.41

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB >
```

Results for: MW26S.MTW

```
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    5.00000
tau     0.333333


TCA = 1.97715 + 0.000001*Date



Slope       0.000000602
Intercept    1.97715

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       5.00000
tau     0.333333
taub    0.577350
z       1.17108
pval    0.241567

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -1.00000
tau     -0.0666667


cDCE = 2.00297 -0.00000*Date
```

```
Slope       -0.000000080
Intercept    2.00297

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -1.00000
tau     -0.0666667
taub    -0.0860663
z       0
pval    1.00000

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -1.00000
tau     -0.0666667


TCE = 130.135 -0.00334*Date



Slope       -0.00333876
Intercept    130.135

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -1.00000
tau     -0.0666667
taub    -0.0666667
z       0
pval    1.00000
```

```
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW26S Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW26S Scatterplot of cDCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW26S Scatterplot of TCA vs
Date.mgf'
MTB >
```

```
Results for: MW28S.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -37.0000
tau     -0.672727


TCA = 1121.08 -0.02808*Date



Slope       -0.0280818
Intercept    1121.08

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -37.0000
tau     -0.672727
taub    -0.760827
z       -2.91043
pval    0.00360935

MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -26.0000
```

tau -0.472727

DCA = 375.370 -0.00956*Date

Slope -0.00955809
Intercept 375.370

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -26.0000
tau -0.472727
taub -0.619751
z -2.11037
pval 0.0348261

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -26.0000
tau -0.472727

DCE = 510.841 -0.01301*Date

Slope -0.0130135
Intercept 510.841

MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -26.0000

```
tau     -0.472727
taub    -0.584307
z       -2.06901
pval    0.0385447

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -33.0000
tau     -0.600000


cDCE = 19088.5 -0.48475*Date



Slope       -0.484751
Intercept    19088.5

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -33.0000
tau     -0.600000
taub    -0.635674
z       -2.55932
pval    0.0104878

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    0
tau     0


PCE = 91123.0 -2.35663*Date
```

```
Slope       -2.35663
Intercept    91123.0

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -30.0000
tau     -0.545455


TCE = 119397 -2.98627*Date



Slope       -2.98627
Intercept    119397

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -30.0000
```

```
tau     -0.545455
taub    -0.550482
z       -2.26452
pval    0.0235422

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -18.0000
tau     -0.327273


VC = 651.351 -0.01667*Date



Slope       -0.0166688
Intercept    651.351

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -18.0000
tau     -0.327273
taub    -0.495434
z       -1.47780
pval    0.139463

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of TCE vs
Date.mgf'
```

```
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of PCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of cDCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of DCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of DCA vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW28S Scatterplot of TCA vs
Date.mgf'
MTB >
```

```
Results for: MW29S.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -1.00000
tau     -0.0476190


TCA = 5.21173 -0.00009*Date



Slope       -0.000086391
Intercept    5.21173

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -1.00000
tau     -0.0476190
taub    -0.218218
z       0
pval    1.00000

MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    3.00000
```

tau 0.142857

DCA = -146.963 + 0.003980*Date

Slope 0.00397965
Intercept -146.963

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 3.00000
tau 0.142857
taub 0.292770
z 0.375735
pval 0.707114

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau 3.00000
tau 0.142857

DCE = -19720.6 + 0.528642*Date

Slope 0.528642
Intercept -19720.6

MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 3.00000

```
tau     0.142857
taub    0.377964
z       0.389742
pval    0.696727

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    17.0000
tau     0.809524


cDCE = -19074.3 + 0.519481*Date



Slope       0.519481
Intercept   -19074.3

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       17.0000
tau     0.809524
taub    0.809524
z       2.40301
pval    0.0162609

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    0
tau     0


PCE = 41802.4 -1.11891*Date
```

```
Slope       -1.11891
Intercept    41802.4

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    7.00000
tau     0.333333


TCE = -40754.5 + 1.19297*Date



Slope       1.19297
Intercept    -40754.5

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       7.00000
```

```
tau     0.333333
taub    0.333333
z       0.901127
pval    0.367521

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    6.00000
tau     0.285714


VC = -25699.4 + 0.691163*Date



Slope       0.691163
Intercept    -25699.4

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       6.00000
tau     0.285714
taub    0.349927
z       0.818317
pval    0.413176

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of PCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of cDCE vs
```

```
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of DCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of DCA vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\MW29S Scatterplot of TCA vs
Date.mgf'
MTB >
```

```
Results for: PZ24D.MTW

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -26.0000
tau     -0.393939


TCE = 1779.28 -0.04687*Date



Slope       -0.0468733
Intercept    1779.28

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -26.0000
tau     -0.393939
taub    -0.584307
z       -2.29819
pval    0.0215508

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ24D Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ24D Scatterplot of TCE vs
Date.mgf'
Existing file replaced.
MTB >
```

```
Results for: PZ25I.MTW

MTB > %ats c2 c6 c4 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC
WHERE dupcy = " "
          X
* ERROR * Function requires a numerical argument.
* ERROR * Completion of computation impossible.

* ERROR * Macro exiting...
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -17.0000
tau     -0.257576


TCA = 40.7310 -0.00082*Date



Slope       -0.000820643
Intercept    40.7310



Results for: PZ24I.MTW

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -33.0000
tau     -0.500000
taub    -0.511766
z       -2.20996
pval    0.0271076
```

```
MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -33.0000
tau     -0.500000


DCA = 319.602 -0.00799*Date



Slope       -0.00799390
Intercept    319.602

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -33.0000
tau     -0.500000
taub    -0.528830
z       -2.23135
pval    0.0256578

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -41.0000
tau     -0.621212


DCE = 837.878 -0.02107*Date



Slope       -0.0210747
Intercept    837.878
```

```
MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -41.0000
tau     -0.621212
taub    -0.625972
z       -2.74937
pval    0.00597093

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -50.0000
tau     -0.757576


cDCE = 9513.65 -0.24154*Date



Slope       -0.241543
Intercept    9513.65

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -50.0000
tau     -0.757576
taub    -0.757576
z       -3.36005
pval    0.000779270

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line
```

stau 53.0000
tau 0.803030

PCE = -4198.61 + 0.112544*Date

Slope 0.112544
Intercept -4198.61

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 53.0000
tau 0.803030
taub 0.879676
z 3.68618
pval 0.000227643

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -31.0000
tau -0.469697

TCE = 11854.5 -0.29366*Date

Slope -0.293656
Intercept 11854.5

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

```
S       -31.0000
tau     -0.469697
taub    -0.473296
z       -2.06203
pval    0.0392049

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -31.0000
tau     -0.469697


VC = 225.261 -0.00580*Date



Slope       -0.00579995
Intercept    225.261

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -31.0000
tau     -0.469697
taub    -0.611023
z       -2.28086
pval    0.0225569

MTB >
```

```
Results for: PZ25D.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -19.0000
tau     -0.287879


cDCE = 304.514 -0.00801*Date



Slope       -0.00800555
Intercept    304.514

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -19.0000
tau     -0.287879
taub    -0.510355
z       -1.58277
pval    0.113474

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -34.0000
```

tau -0.515152

TCE = 1321.26 -0.03480*Date

Slope -0.0348004
Intercept 1321.26

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -34.0000
tau -0.515152
taub -0.678915
z -2.72799
pval 0.00637221

MTB >

```
Results for: PZ25I.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -17.0000
tau     -0.257576


TCA = 40.7310 -0.00082*Date



Slope       -0.000820643
Intercept    40.7310

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -17.0000
tau     -0.257576
taub    -0.298936
z       -1.14578
pval    0.251885

MTB > Numeric 'DCA' 'DCA'.
MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line
```

stau -45.0000
tau -0.681818

DCA = 310.133 -0.00746*Date

Slope -0.00746304
Intercept 310.133

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -45.0000
tau -0.681818
taub -0.760856
z -3.11387
pval 0.00184653

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -36.0000
tau -0.545455

DCE = 140.877 -0.00334*Date

Slope -0.00334432
Intercept 140.877

MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -36.0000
tau -0.545455
taub -0.603023
z -2.47076
pval 0.0134827

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -40.0000
tau -0.606061

cDCE = 8316.70 -0.19410*Date

Slope -0.194102
Intercept 8316.70

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -40.0000
tau -0.606061
taub -0.615457
z -2.68699
pval 0.00720982

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau 0
tau 0

PCE = 18248.5 -0.48099*Date

```
Slope       -0.480988
Intercept    18248.5

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB > Numeric 'TCE' 'TCE'.
MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    10.0000
tau     0.151515


TCE = -208.849 + 0.007312*Date



Slope       0.00731171
Intercept    -208.849

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data
```

```
S       10.0000
tau     0.151515
taub    0.151515
z       0.617153
pval    0.537134

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -46.0000
tau     -0.696970


VC = 139.672 -0.00357*Date



Slope       -0.00356954
Intercept    139.672

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -46.0000
tau     -0.696970
taub    -0.817269
z       -3.24760
pval    0.00116385

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of PCE vs
Date.mgf'
```

```
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of cDCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of DCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of DCA vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ25I Scatterplot of TCA vs
Date.mgf'
MTB >
```

Results for: PZ28D.MTW

```
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -15.0000
tau     -0.272727


TCA = 768.376 -0.01985*Date



Slope       -0.0198519
Intercept    768.376

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -15.0000
tau     -0.272727
taub    -0.490552
z       -1.37502
pval    0.169126

MTB > %ats c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -23.0000
tau     -0.418182


DCA = 514.758 -0.01329*Date
```

```
Slope       -0.0132874
Intercept    514.758

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -23.0000
tau     -0.418182
taub    -0.646670
z       -2.10080
pval    0.0356583

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -9.00000
tau     -0.163636


DCE = 1603.24 -0.04144*Date



Slope       -0.0414442
Intercept    1603.24

MTB > %ckend c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -9.00000
tau     -0.163636
taub    -0.404520
z       -0.817918
pval    0.413404
```

```
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -35.0000
tau     -0.636364


cDCE = 935.084 -0.02409*Date



Slope        -0.0240888
Intercept    935.084

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > Save  "C:\Projects\Chrysler\Trends\PZ28D.MTW";
SUBC>    Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D.MTW'
Existing file replaced.
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -41.0000
tau     -0.745455


cDCE = 935.084 -0.02409*Date



Slope        -0.0240888
Intercept    935.084

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
```

```
Kendall's tau for censored data

S       -41.0000
tau     -0.745455
taub    -0.824131
z       -3.27327
pval    0.00106311

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    0
tau     0


PCE = 1984.91 -0.05132*Date



Slope       -0.0513155
Intercept    1984.91

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
         J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC
```

A-T-S line

stau -49.0000
tau -0.890909

TCE = 1451.11 -0.03680*Date

Slope -0.0367974
Intercept 1451.11

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -49.0000
tau -0.890909
taub -0.890909
z -3.73679
pval 0.000186381

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau 0
tau 0

VC = 1985.11 -0.05132*Date

Slope -0.0513155
Intercept 1985.11

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

```
let taub=S/(stdev)
        J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times


Kendall's tau for censored data

S       0
tau     0
taub    *
z       0
pval    1.00000

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of PCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of cDCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of DCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of DCA vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28D Scatterplot of TCA vs
Date.mgf'
MTB >
```

```
Results for: PZ28I.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -11.0000
tau     -0.200000


TCA = 224.943 -0.00475*Date



Slope       -0.00475448
Intercept    224.943

MTB > %ckend c2 c6 c3 c7
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -11.0000
tau     -0.200000
taub    -0.200000
z       -0.778499
pval    0.436275

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c9 c3 c10
```

```
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -6.00000
tau     -0.109091


DCA = 30.8871 -0.00043*Date



Slope       -0.000431795
Intercept    30.8871

MTB > %ckend c2 c9 c3 c10
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -6.00000
tau     -0.109091
taub    -0.127920
z       -0.409159
pval     0.682423

MTB > %ats c2 c12 c3 c13
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    13.0000
tau     0.236364


DCE = -49.4668 + 0.001546*Date



Slope       0.00154564
Intercept    -49.4668

MTB > %ckend c2 c12 c3 c13
```

Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 13.0000
tau 0.236364
taub 0.267318
z 0.970143
pval 0.331975

MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau 26.0000
tau 0.472727

cDCE = -1378.23 + 0.041642*Date

Slope 0.0416416
Intercept -1378.23

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S 26.0000
tau 0.472727
taub 0.477084
z 1.95217
pval 0.0509178

MTB > %ats c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau 0

tau 0

PCE = 9130.67 -0.23613*Date

Slope -0.236128
Intercept 9130.67

MTB > %ckend c2 c18 c3 c19
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC
let taub=S/(stdev)
J
* WARNING * Values out of bounds during operation at J
* WARNING * Missing returned 1 times

Kendall's tau for censored data

S 0
tau 0
taub *
z 0
pval 1.00000

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -21.0000
tau -0.381818

TCE = 5194.77 -0.11531*Date

Slope -0.115311
Intercept 5194.77

MTB > %ckend c2 c21 c3 c22

```
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -21.0000
tau     -0.381818
taub    -0.381818
z       -1.55700
pval    0.119471

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -11.0000
tau     -0.200000


VC = -0.51447 + 0.000000*Date



Slope       0.000000370
Intercept   -0.514471

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -11.0000
tau     -0.200000
taub    -0.275431
z       -0.892052
pval    0.372365

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of TCE vs
Date.mgf'
```

```
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of TCE vs
Date.mgf'
Existing file replaced.
MTB > Gview "C:\Projects\Chrysler\Trends\PZ28I Scatterplot of VC vs Date.mgf"

Scatterplot of dupy vs dupx
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of VC vs
Date.mgf'
Existing file replaced.
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of PCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of cDCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of DCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of DCE vs
Date.mgf'
Existing file replaced.
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of DCA vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ28I Scatterplot of TCA vs
Date.mgf'
MTB >
```

```
Results for: PZ29D.MTW

MTB > Save  "C:\Projects\Chrysler\Trends\Dayton.MPJ";
SUBC>   Project;
SUBC>   Replace.
Saving file as: 'C:\Projects\Chrysler\Trends\Dayton.MPJ'
Existing file replaced.
MTB > %ats c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -17.0000
tau     -0.809524


cDCE = 4206.38 -0.11240*Date



Slope       -0.112400
Intercept    4206.38

MTB > %ckend c2 c15 c3 c16
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S       -17.0000
tau     -0.809524
taub    -0.899735
z       -2.51935
pval    0.0117573

MTB > %ats c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau    -17.0000
```

tau -0.809524

TCE = 291.562 -0.00768*Date

Slope -0.00768052
Intercept 291.562

MTB > %ckend c2 c21 c3 c22
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -17.0000
tau -0.809524
taub -0.851064
z -2.45911
pval 0.0139280

MTB > %ats c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ats.MAC

A-T-S line

stau -11.0000
tau -0.523810

VC = 3444.20 -0.09221*Date

Slope -0.0922073
Intercept 3444.20

MTB > %ckend c2 c24 c3 c25
Executing from file: C:\Program Files\MINITAB 14\MACROS\ckend.MAC

Kendall's tau for censored data

S -11.0000

```
tau     -0.523810
taub    -0.723747
z       -1.74964
pval    0.0801812

MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29D Scatterplot of VC vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29D Scatterplot of TCE vs
Date.mgf'
MTB >
Saving file as: 'C:\Projects\Chrysler\Trends\PZ29D Scatterplot of cDCE vs
Date.mgf'
MTB >
```

350149

BEHR VOC PLUME REPORT
FORMER DAIMLERCHRYSLER DAYTON THERMAL PRODUCTS PLANT
DAYTON, OHIO

Prepared for:

DaimlerChrysler Corporation
800 Chrysler Drive
Auburn Hills, MI 48326

Prepared by:

Earth Tech, Inc.
36133 Schoolcraft Road
Livonia, Michigan 48150

April 17, 2007

Earth Tech Project No. 98809

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