LANDAU ASSOCIATES

October 29, 2004

Washington State Department of Ecology
Northwest Regional Office
3190 160th Avenue S.E.
Bellevue, WA 98008-5452

Attn: David L. South

RE: UNION STATION PURCHASER CONSENT DECREE (97-2-18936-5SEA)

Dear Mr. South:

Enclosed are two copies of the annual report describing groundwater monitoring at the Union Station site in June 2004 and evaluating groundwater analytical results. This report is submitted in accordance with the requirements of the Union Station Prospective Purchaser Consent Decree. As you requested previously, a CD containing the groundwater data base file is included in the report and an electronic copy of the text, figures, and tables will be sent to you via email.

The Cleanup Action Plan, Attachment B to the Consent Decree, provides for reducing the groundwater monitoring frequency to every 5 years if, 3 years after foundation loading (building completion), groundwater sampling results indicate no statistical exceedances of cleanup levels. Three years of groundwater monitoring have been completed since foundation loading was completed in 2001. Evaluation of groundwater monitoring data indicates that no constituents originating from the property are present in groundwater from property monitoring wells at concentrations that exceed cleanup levels. Therefore, in accordance with the Consent Decree, groundwater monitoring frequency should be reduced to every 5 years. In addition, we recommend that the list of constituents for analysis during future groundwater monitoring events be reduced to those constituents identified as the most significant constituent of concern in soil at the Union Station property, carcinogenic polycyclic aromatic hydrocarbons.

The Consent Decree also describes when a Certificate of Completion will be issued and the facility removed from the Hazard Ranking List.

"XXV. CERTIFICATION OF COMPLETION AND DELISTING

Upon completion of all remedial actions specified in the Cleanup Action Plan, except confirmational monitoring, Ecology shall issue a Certificate of Completion. Completion of all remedial actions except confirmational monitoring is defined in Section 6.0 of

Attachment B. Unless Ecology becomes aware of circumstances at the Facility that present a previously unknown threat to human health or the environment, Ecology shall within thirty (30) days of issuance of the Certificate of Completion propose to remove the Facility from the Hazard Ranking List, pursuant to WAC 173-340-330(4)."

The Cleanup Action Plan specifies that "all remedial actions except confirmational monitoring will be considered to be complete when monitoring has been conducted for three years after completion of foundation loading, provided compliance with cleanup standards have been achieved and groundwater treatment has not been triggered." All remedial actions specified in the CAP, including 3 years of groundwater monitoring after completion of foundation loading, have been completed; compliance with cleanup standards has been achieved for constituents originating from the property; and groundwater treatment has not been triggered. Therefore, a Certificate of Completion should be issued and the property should be removed from the Hazard Ranking List.

Please call me if you have questions or you would like to discuss the report.

LANDAU ASSOCIATES, INC.

Kristy J. Hendrickson, P.E.
Principal

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Enclosures

cc: K. Daniels, Union Station Associates (1)
B. Marten, Marten Law Group (1)

Groundwater Monitoring
Union Station
Seattle, Washington

October 28, 2004

Prepared for

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1.0 INTRODUCTION

This report describes the groundwater monitoring that was performed at the Union Station property in June 2004. The groundwater monitoring was performed in accordance with Prospective Purchaser Consent Decree 97-2-18936-5SEA between the Washington State Department of Ecology (Ecology) and Union Station Associates and with the associated cleanup action plan (CAP; Landau Associates 1997). Groundwater monitoring completed prior to June 2004 is described in four previous reports (Landau Associates 2000, 2002, and 2003a,b). In addition to describing the groundwater monitoring performed in June 2004, this report includes an evaluation of the groundwater analytical results and groundwater flow directions.

1.1 PROPERTY DESCRIPTION

The Union Station property consists of three parcels located in Seattle, Washington. Figure 1-1 provides a vicinity map; Figure 1-2 shows the Union Station property. The property spans six city blocks and includes portions of the grade level beneath elevated viaduct portions of South Jackson Street, South Airport Way, and 4th Avenue S.

The property was originally part of the South Seattle industrial neighborhood. In 1874, the Seattle Gaslight Company constructed a coal gasification plant at the property on pilings over the mudflats of Duwamish Bay. The area surrounding the pile-supported facility was filled prior to about 1912. Around the turn of the century, Vulcan Iron Works manufactured iron, brass, and steel on the southern portion of the property. In 1911, the Union Station passenger railroad station was constructed at the property. Union Station served passengers until 1971, when Union Pacific discontinued passenger operations at the property. From 1971 until the purchase of the property by Union Station Associates in 1997, the property was essentially dormant. The southernmost terminus of the downtown Seattle transit project bus tunnel was completed at the property along 5th Avenue S. in 1990.

In 1991, the property was placed on the Washington Hazardous Sites List. Subsequently, a remedial investigation/feasibility study (RI/FS; Landau Associates and Hart Crowser 1996) was conducted.

The RI included review of the property's industrial history to confirm that the investigation included the areas likely to have contamination, evaluation of existing soil and groundwater sampling information, and analysis of new soil and groundwater samples. The RI compared chemical testing results for soil and groundwater to screening levels and identified constituents of concern that required additional evaluation. The RI identified carcinogenic polycyclic aromatic hydrocarbons (cPAHs) from the coal gasification process, and metals from the coal gasification process and from the foundry within

fill soil that was placed on the former tideflat surface during operation of the historic industries. Concentrations of cPAHs and some metals in some soil samples exceeded cleanup levels. Groundwater analytical results from tests during the RI and from supplemental monitoring performed after the RI and before the Consent Decree showed that groundwater screening levels for cPAHs, petroleum hydrocarbons, benzene, and arsenic were exceeded in samples from some wells at the property. Arsenic was found in an upgradient well at concentrations exceeding those found in property wells. There were also strong indications that a source or sources of petroleum hydrocarbons existed upgradient of the property. No pesticides, polychlorinated biphenyls (PCBs), herbicides, or evidence of dense non-aqueous phase liquids (DNAPL) were detected.

The RI findings were used to develop alternatives to remediate the property. The evaluations of these alternatives were included in the FS. The FS defined cleanup standards, developed and evaluated four cleanup action alternatives, and identified a preferred cleanup action alternative that would adequately protect human health and the environment. Soil cleanup levels were conservatively based on residential use conditions, although the property was zoned International District Mixed and planned property use was commercial with limited potential for direct contact. The point of compliance for soil is throughout the property. Groundwater cleanup levels were based on protection of marine surface water. The point of compliance for groundwater is the property boundary and extends from the uppermost level of the saturated zone vertically to the lowest depth that could potentially be affected by the property. The point of compliance established for groundwater at the property is shown on Figure 1-2. The cleanup action selected by Ecology includes paving, construction soil excavation, groundwater monitoring, contingent groundwater remediation, and institutional controls.

In 1997, Ecology and Union Station Associates entered into a Prospective Purchaser Consent Decree for the property. Since that time, Union Station Associates has implemented the selected remedial action for the property. Paving and construction soil excavation were completed as part of property redevelopment. A restrictive covenant implementing the required institutional controls was recorded on the property deed. Groundwater monitoring began in October 1997 and is described in the remainder of this document and in previous groundwater monitoring reports (Landau Associates 2000, 2002 and 2003a,b).

Construction at the property is complete. A parking garage was completed on the south parcel in 1999. Construction at the main parcel, including renovation of the Union Station building and construction of a parking garage and four new buildings, was completed in 2001. A new building at the north parcel was completed in 2002.

1.2 CONSENT DECREE REQUIREMENTS FOR GROUNDWATER MONITORING

Groundwater monitoring requirements for the property are described in the CAP and are summarized in Table 3 of the CAP, identified as Table 1-1 in this report. Monitoring wells originally included in the monitoring program were HC-101, HC-102, HC-103, MW-104, MW-105, MW-106, MW-107, and upgradient background wells B-4 and B-6. As described in a previous report (Landau Associates 2000), some of these wells were replaced with monitoring wells in similar locations prior to or during the monitoring period. In addition, Ecology approved suspension of water quality monitoring in well HC-103 (Ecology 2000). Monitoring wells currently included in the groundwater quality and groundwater level monitoring program are property wells MW-101R, MW-102R, MW-104, MW-105, MW-107R, MW-108R, and upgradient background wells B-4 and B-6R. HC-103 is monitored only for groundwater level.

Quarterly groundwater monitoring is required for 8 quarters beginning within 3 months of the effective date of the Consent Decree. The CAP also requires that quarterly sampling be performed for 8 quarters beginning the first quarter after all foundations are completed. The CAP establishes that groundwater monitoring frequency be reduced to annual if the upper 95 percent confidence limit on the mean (UCL) for results from compliance monitoring wells is less than or equal to cleanup levels. Annual monitoring is then required until 3 years after foundation loading (building construction) is complete. Groundwater monitoring frequency is then reduced to every 5 years if the UCL for results from compliance monitoring wells is less than or equal to cleanup levels. The CAP also specifies procedures to be implemented if any sample exceeds cleanup levels during monitoring.

A report documenting groundwater monitoring for 8 quarters after foundation loading was complete was submitted to Ecology in August 2000 (Landau Associates 2000). After review of the report, Ecology required an additional year of quarterly monitoring (Ecology 2000). In March 2002, the results for the additional year of groundwater monitoring were submitted in a report to Ecology with recommendations to reduce groundwater monitoring frequency to annual (Landau Associates 2002). In November 2002, Ecology approved reducing groundwater monitoring frequency to annual (Ecology 2002). Annual groundwater monitoring was conducted in 2002, 2003, and 2004. Construction at the main parcel was completed in 2001. Construction at the south parcel was completed in 1999. Therefore, 3 years of groundwater monitoring after foundation loading was complete after the June 2004 monitoring event. If there are no exceedances of cleanup levels, groundwater monitoring frequency should be reduced to every 5 years.

This report presents results for the 2004 annual groundwater monitoring event showing that the compliance well results for contaminants originating on the property comply with cleanup levels. Groundwater data from the past eight sampling events is used for the statistical evaluation.

2.0 GROUNDWATER MONITORING

The groundwater monitoring program consists of both water level and water quality monitoring. The Union Station groundwater monitoring network for water quality currently is comprised of eight monitoring wells: upgradient wells B-4 and B-6R, and property wells MW-101R, MW-102R, MW-104, MW-105, MW-107R, and MW-108R. The monitoring network for groundwater levels includes the eight wells monitored for water quality plus one additional monitoring well, HC-103, monitored only for groundwater level. The location of the monitoring wells is shown on Figure 1-2. Monitoring was conducted in June 2004. Procedures used for groundwater monitoring, which include water level monitoring, groundwater sampling, and laboratory analysis, were consistent with those described in the CAP, or as subsequently modified with Ecology approval. Prior to the September 2001 monitoring event, modifications to some of the procedures described in the CAP were approved by Ecology. These modifications included changes to the cyanide analysis method; addition of analysis for weak acid dissociable cyanide to the list of analytes; changes to the method of laboratory sample handling for cPAH and semivolatile organic compound (SVOC) samples; and the use of monitoring well HC-103 only for groundwater level measurements (Landau Associates 2000 and 2002).

2.1 GROUNDWATER LEVEL MONITORING

At each well location, prior to purging and sample collection, the groundwater level was measured from a surveyed reference point using an electric water level indicator and was recorded on a Groundwater Sample Collection Form. Table 2-1 provides a summary of well installation dates, well coordinates, and well elevation information, including top and bottom of screen. Groundwater levels for the annual monitoring event are summarized in Table 2-2.

2.2 GROUNDWATER SAMPLING, ANALYSIS PROCEDURES, AND MODIFICATIONS

Groundwater sampling procedures were consistent with those described in the CAP. Prior to sample collection, each well was slowly purged using a peristaltic pump with dedicated tubing or a disposable bailer. Because most of the wells at the Union Station site are low-yield and produce groundwater with moderate to high turbidity, each well was purged at a rate of less than 1 liter per minute to help minimize turbidity. Field parameters such as pH, temperature, conductivity, and turbidity were measured and recorded about every 2 minutes during purging. Purging continued until at least 3 well volumes had been removed or until the well was purged dry.

Sampling was started when sufficient volume became available in the well. Four replicates of field parameters were collected during sampling, if possible; however, due to low-yield conditions at some locations, sufficient volume for all replicates could not be obtained and priority was given to filling sample bottles. For these locations, field parameters obtained at the end of purging were used for sample quality control purposes. In order to minimize turbidity during sampling, a target flow rate of less than 0.2 liter per minute was used during sample collection. All purging and sampling information was recorded on a Groundwater Sample Collection Form as specified in the CAP.

Field instruments were calibrated and maintained in accordance with the manufacturer's instructions and the quality assurance/quality control (QA/QC) requirements identified in the CAP. Purge water was discharged into the King County sanitary sewer system. Prior to discharge, purge water from more than one well was mixed, as requested by the King County Industrial Waste Division. Prior to performing the June 2003 sampling event, an extension to the permit to discharge purge water into the sanitary sewer system was requested. A verbal approval was provided by Denise Healy of the King County Industrial Waste Division on May 29, 2003 (Healy 2003); however, Denise requested that the purge water likely to have high napthalene concentrations be mixed with purge water likely to have low to no naphthalene concentrations prior to discharge to the sanitary sewer. Denise Healy was contacted again prior to the June 2004 sampling event. Denise provided verbal approval (Healy 2004) to discharge purge water into the sanitary sewer system using the same mixing procedures described for the 2003 sampling event.

June 2004 groundwater samples were analyzed at Analytical Resources, Inc. (ARI) in Tukwila, Washington, for gasoline-range, diesel-range, and motor oil-range petroleum hydrocarbons, PAHs, SVOCs, volatile organic compounds (VOCs), dissolved metals, total dissolved solids (TDS), total suspended solids (TSS), total cyanide, and weak acid dissociable cyanide. If SVOC analyses indicated that a PAH was not detected, an additional PAH analysis using selected ion monitoring (SIM) and a large volume injector was used to obtain lower reporting limits for this constituent. Similar procedures were used during previous sampling events for cPAHS. If sufficient volume for all sampling was not available, a decision was made on the priority of each analysis for each affected location. Table 2-3 summarizes the results of the laboratory analyses performed for each sample. Analytical results are discussed in Sections 3.2 and 4.2.

3.0 GROUNDWATER MONITORING RESULTS

As described in Section 2.0, the Union Station groundwater level monitoring network consists of nine monitoring wells that are screened within the shallow fill at or near the property. Eight of the monitoring wells are also used for groundwater quality monitoring. The following sections describe the results of the groundwater level and water quality monitoring conducted in June 2004.

3.1 GROUNDWATER ELEVATIONS

Groundwater elevations measured at each well during the 2004 annual groundwater monitoring event are listed in Table 2-2. Similar to previous years, groundwater elevation contours for the annual monitoring event (shown on Figure 3-1) indicate the groundwater flow is generally toward the west, consistent with the regional groundwater flow toward Elliott Bay to the west (Landau Associates and Hart Crowser 1996).

Previous annual reports (Landau Associates 2002, 2003a,b) used the configuration of groundwater elevations and elevation contours to infer that groundwater flow direction changed in March 2001 due to a relative decrease in groundwater elevation at upgradient well B-4. Prior to March 2001, measured groundwater elevations indicated that monitoring well B-4 was upgradient of monitoring wells MW-102R/HC-102, MW-104, and MW-105. Groundwater elevation contours for June 2003 through June 1998 prepared for previous annual reports are included as Figures 3-2 to 3-7. These figures illustrate the effect of decreased water level elevations at monitoring well B-4 on the estimated groundwater elevation contours in the immediate vicinity of the well.

Prior to March 2001, the average measured groundwater elevation at well B-4 was 0.54 ft. From March 2001 through June 2004, the average measured groundwater elevation at well B-4 has been -2.20 ft. Fluctuations in groundwater elevation since 1997 at each well are graphically presented on Figure 3-8. Possible explanations for the relative change in the groundwater elevation at well B-4 beginning with the March 2001 measurement were discussed in the 2000-2001 annual report (Landau Associates 2002). These explanations included possible physical changes to the well and/or subsurface conditions in the vicinity of the well due to the Nisqually earthquake that occurred on February 28, 2001; variations in precipitation; and groundwater dewatering or similar activity at a nearby location. As discussed in previous annual reports, an inspection of the wells immediately following the earthquake showed no indications of settlement or disturbance to the wells. A comparison of monthly precipitation averages measured at the Seattle-Tacoma Airport weather station to groundwater elevations at well B-4 did not indicate any correlation between precipitation and significant decreases in groundwater elevations at well B-4 (Landau Associates 2003b). Previous contacts with surrounding property owners did not identify any

dewatering activities that would have an impact at well B-4 (Landau Associates 2002). However, recent contacts with property owners east of Union Station indicate basement flooding increased during the past several years, resulting in construction of sumps and installation of sump pumps by at least one property owner. For these reasons, the most likely explanation for the relative decrease in groundwater elevations at well B-4 is a physical change in the subsurface that provides a new preferential pathway for groundwater (i.e., a new conduit formed by a broken pipeline, cracked foundation, or buried damaged structure) and/or pumping of groundwater by upgradient property owners. If a physical change in the subsurface is the cause, it is likely to have occurred as a result of the February 2001 earthquake. Despite the apparent change in flow direction in the vicinity of B-4, groundwater flow is still likely to be generally to the west as shown on Figure 3-1, consistent with the regional groundwater flow direction.

3.2 CHEMICAL ANALYSIS RESULTS

ARI conducted the analyses of the groundwater samples for the constituents identified in Section 2.2. Following receipt of the analytical results, the data was validated as described in Appendix A of the CAP. The results of the data validation performed by Landau Associates and a summary of the data qualifiers are presented in Appendix A.

The analytical results for the property wells are similar to previous results. A summary of the analytical results (with data qualifiers added as appropriate) for the June 2004 annual sampling event at each well is provided in Table 2-3. The associated laboratory data reports are maintained at Landau Associates' office in Edmonds, Washington. The analytical methods, cleanup levels, screening levels, and practical quantitation limits (PQLs) are also shown in Table 2-3.

PQLs for most constituents are listed in the CAP. For those constituents without a PQL in the CAP, a PQL was determined. For diesel-range, motor oil-range, and gasoline-range petroleum hydrocarbons, the PQL was calculated from ARI's method reporting limit. For other constituents, the PQL was based on the method reporting limit and PQLs listed in the CAP for similar compounds. Analysis for some constituents, including naphthalene, was performed using both Method 8260 (VOCs) and Method 8270 (SVOCs). Results for both methods are included in Table 2-3. An evaluation of compliance with cleanup or screening levels is provided in Section 4.2.

Analysis for both cyanide and weak acid dissociable cyanide has been performed during the past eight sampling events. During these eight sampling events, all total cyanide and weak acid dissociable cyanide concentrations have been less than their respective PQLs. For all samples with detections of total cyanide above the reporting limit, the concentration of weak acid dissociable cyanide was less than the total cyanide concentration.

Graphs showing concentrations over time at all wells were constructed for six constituents: diesel-range and gasoline-range petroleum hydrocarbons, benzene, naphthalene, acenaphthene, and arsenic. These constituents were selected because they consistently have had detections above the PQL in at least several wells and, therefore, can be used for comparisons of concentrations between wells or over time. Concentration graphs for these six constituents are shown on Figures 3-9 through 3-14.

Concentrations of diesel-range and gasoline-range petroleum hydrocarbons in property wells were similar to concentrations measured during previous monitoring events. Concentrations of diesel-range and gasoline-range petroleum hydrocarbons continued to be significantly higher in monitoring wells B-4 and MW-101R than in other wells. Motor oil-range petroleum hydrocarbons have been detected only at monitoring well B-4 during the past eight monitoring events.

The significant increase in diesel-range and motor oil-range petroleum hydrocarbons observed during the June 2003 sampling event at well B-4 did not continue during the June 2004 sampling event. The concentrations of these petroleum hydrocarbons at well B-4 during the June 2004 sampling event were similar to concentrations observed at this well prior to June 2003. The reason for the anomalously high concentrations of diesel-range and motor oil-range petroleum hydrocarbons (15,000 µg/L and 6,800 µg/L, respectively) at well B-4 during the June 2003 sampling event is not known, but does not appear to be associated with a change in water levels. As shown on Figure 3-8, water levels at well B-4 have been similar during the past eight sampling events. Concentrations of gasoline-range petroleum hydrocarbons, acenapthene, and naphthalene at this well continue to indicate a decreasing trend. The June 2004 concentrations of gasoline-range petroleum hydrocarbons, acenapthene, and naphthalene were the lowest observed at this well from October 1997 to June 2004. Concentrations of diesel-range, motor oil-range, and gasoline-range petroleum hydrocarbons, acenapthene, and naphthalene in other wells are within the range of previous results. In monitoring well MW-101R, the concentration of gasoline-range petroleum hydrocarbons has decreased during each of the past three monitoring events; the concentration of acenaphthene has decreased during each of the past four monitoring events.

Concentrations of benzene, a typical gasoline component, are within the range of previous results and continue to be highest in monitoring wells MW-105, B-4, and MW-101R. The concentrations of arsenic are also within the range of previous results and are consistently higher in background monitoring well B-6R than in other wells.

4.0 EVALUATION OF RESULTS

Following completion of the last eight groundwater monitoring events at the property (performed from March 2001 through June 2004), a statistical evaluation was performed to determine compliance with the cleanup levels at each well and, if appropriate, background-based screening levels. Procedures to be used to evaluate exceedances of cleanup levels are described in the CAP. The CAP specifies that basic statistical parameters such as mean and median be developed and that the UCL be calculated for compliance well data to evaluate exceedances of cleanup levels. In accordance with the CAP, the methodology used for demonstrating statistical compliance followed statistical methods from the Ecology Toxics Cleanup Program guidance document, *Statistical Guidance for Ecology Site Managers* (Ecology 1992), the *Supplement to Statistical Guidance for Ecology Site Managers* (Ecology 1993), and MTCAStat97 compliance module. In general, compliance was determined by calculating the UCL for each detected compound at each property well and comparing it to the cleanup level listed in the CAP. For arsenic and some petroleum hydrocarbon-related constituents, screening levels were calculated based on concentrations found in one of the background wells.

4.1 CALCULATION OF SCREENING LEVELS BASED ON BACKGROUND FOR SOME CONSTITUENTS

4.1.1 ARSENIC

Arsenic is present in several wells, including background well B-6R, at levels above the cleanup level listed in the CAP. For the past eight sampling events, the highest concentrations have been found in background well B-6R. Therefore, a background-based groundwater screening level was calculated for arsenic. The background-based screening level was calculated in accordance with WAC 173-340-700(4)(d); the Ecology Toxics Cleanup Program guidance document, *Statistical Guidance for Ecology Site Managers* (Ecology 1992) using MTCA Stat97 Background Module; and the concentrations found in background well B-6R from October 1997 to June 2004. The printed report for the background calculations showing the screening level based on the 90th percentile value as well as the data upon which it is based is provided in Appendix B. The background-based screening level was used for comparison with data from all property monitoring wells because it is considered to represent conditions that could be present upgradient of the property.

4.1.2 PETROLEUM HYDROCARBONS AND RELATED CONSTITUENTS

No cleanup levels are included in the CAP for diesel-range, gasoline-range, or motor oil-range petroleum hydrocarbons. As was done in previous evaluations, the process described in Section 4.1.1

above for calculating a screening level based on the 90th percentile value for arsenic was also used for diesel-range and gasoline-range petroleum hydrocarbons, benzene, and acenaphthene.

Previous evaluations of monitoring data have indicated that the source or sources of petroleum hydrocarbons and related constituents was upgradient of the Union Station property (Landau Associates 2000, 2002, and 2003a,b). As shown on Figures 3-9, 3-10, 3-11, 3-12, and 3-13, and in Table 2-3, concentrations of petroleum-related constituents, except benzene, in monitoring well B-4 have typically exceeded or been similar to concentrations found in property wells. However, subsequent to the change in groundwater flow direction near monitoring well B-4, concentrations of gasoline-range petroleum hydrocarbons, acenaphthene, and naphthalene in this well have significantly decreased. This indicates that groundwater to the west of well B-4 (formerly downgradient) has lower concentrations of these constituents than areas east and upgradient of the property. As described previously (Landau Associates 2003a), a comparison of the 1998 and 2003 ion concentration diagrams do not indicate significant differences in ion concentrations.

Ninetieth percentile values for diesel-range and gasoline-range petroleum hydrocarbons, benzene, and acenaphthene were calculated using two data sets from monitoring well B-4, one with all data from October 1997 to June 2004 and one with data from October 1997 to December 2000, the last quarter when the groundwater elevation at monitoring well B-4 was greater than those measured at nearby property wells. The calculated 90th percentile values using both data sets are similar for gasoline-range petroleum hydrocarbons, benzene, and acenapthene as shown in Table 4-1. The calculated 90th percentile value is lower for diesel-range petroleum hydrocarbons using only the data through December 2000. For this report, screening levels for these four constituents will be based on the 90th percentile values using concentrations in monitoring well B-4 from October 1997 through December 2000, when well B-4 was clearly upgradient of the property. These screening levels, in addition to the cleanup levels specified in the CAP, if any, were used for evaluation of data from property wells. Motor oil-range petroleum hydrocarbons were not detected in property wells; therefore, a background-based screening level was not calculated. For other petroleum-related constituents that also appear to be migrating onto the property from off of the property, background-based screening levels were not calculated because concentrations in property wells do not exceed the cleanup levels designated in the CAP. The printed reports for background calculations showing the screening level based on the 90th percentile value for diesel-range and gasoline-range petroleum hydrocarbons, acenapthene, and benzene using both data sets are provided in Appendix B.

4.2 STATISTICAL METHODOLOGY FOR CALCULATION OF UCL

In accordance with Ecology's guidance documents, the procedure for calculating the UCL was determined based on the percent of nondetect values and detected values less than the PQL (i.e., censored data) within a data set, as follows:

- **Case 1:** If the data set contained up to 15 percent censored data, the UCL was calculated. Prior to performing the calculation, the nondetect values were replaced by a value of half the detection limit and the detected values less than the PQL were replaced by a value of the detection limit. The distribution of the sample data was then determined (i.e., normal or lognormal distribution) and the appropriate UCL calculation was made. Ecology's software package (MTCAStat, Version 3.0) was used to determine the distribution of each data set and to calculate the UCL.

- **Case 2:** If the data set contained between 15 percent and 50 percent censored data, the UCL was calculated directly using MTCAStat, Version 3.0. Censored data was addressed by Cohen's method directly in MTCAStat.

- **Case 3:** If the data set contained more than 50 percent, but less than 100 percent censored data, the UCL was set equal to the maximum concentration in the data set.

No guidance is available for performing statistical evaluations on data sets that contain 100 percent censored data. For this evaluation, if a compound was not detected in any of the wells during the eight groundwater monitoring events, then no further evaluation was performed for that compound and the compound was omitted from Table 4-2. If a compound was detected at least once during the eight groundwater monitoring events in at least one of the property wells, the constituent was included in the statistical summary provided in Table 4-2. For those wells where the constituent was not detected, the following procedure was performed:

- **Case 0:** If the data set contained 100 percent censored data, no UCL was calculated and the well was determined to be in compliance.

Table 4-2 lists the statistical procedure (coded by case number) applied to each well data set. Also included in Table 4-2 are the percentages of censored and uncensored data for each well.

The data set used in each statistical evaluation consisted of eight data points (i.e., the eight groundwater sampling events from March 2001 to June 2004).

4.3 COMPLIANCE EVALUATION

In accordance with the CAP, a comparison of the UCL to the cleanup level for each constituent detected at each well was performed. If the calculated UCL for a property well was less than or equal to the cleanup level, then it was determined that the well was in compliance for that constituent. In some cases, no UCL was calculated because the analyte was not detected or all of the detected values were less

than the PQL, as described below. A summary of cleanup and screening levels, the calculated UCLs, and other statistical parameters required by the CAP for each well is provided in Table 4-2. For some petroleum-related constituents and arsenic, the UCL was also compared to a screening level based on concentrations in background well B-4 or B-6R. The results of the evaluation were similar to those of previous evaluations. The results of the evaluation for each onsite well are discussed below and summarized in Table 4-3.

4.3.1 MONITORING WELL MW-101R

At monitoring well MW-101R, UCLs were calculated for diesel-range petroleum hydrocarbons, gasoline-range petroleum hydrocarbons, arsenic, and several SVOCs and VOCs. No UCL was calculated for the other constituents because all of the data for these constituents were censored (below the PQL). Only the UCLs for benzene, acenaphthene, and arsenic exceed the cleanup levels included in the CAP. The UCLs for these constituents, however, were less than the background-based screening levels. There is no cleanup level for gasoline-range or diesel-range petroleum hydrocarbons in the CAP; therefore, the UCLs for these constituents were compared to the background-based screening levels. Neither background-based screening level was exceeded.

4.3.2 MONITORING WELL MW-102R

At monitoring well MW-102R, UCLs were calculated for arsenic, acenaphthene, acetone, diesel-range petroleum hydrocarbons, and naphthalene. No UCL was calculated for the other constituents because all of the data for these constituents were censored. The UCL for arsenic exceeded the cleanup level included in the CAP, but was less than the background-based screening level. All other UCLs were less than the respective cleanup levels in the CAP. There is no cleanup level for diesel-range petroleum hydrocarbons or acetone in the CAP. The UCL for diesel-range petroleum hydrocarbons was compared to background-based screening levels. The background-based screening level was not exceeded.

4.3.3 MONITORING WELL MW-104

For monitoring well MW-104, UCLs were calculated for diesel-range petroleum hydrocarbons, naphthalene, acenaphthene, and two other SVOCs. No UCL was calculated for the other constituents because all of the data for these constituents were censored. None of the UCLs exceeded the cleanup levels included in the CAP, or, for diesel-range petroleum hydrocarbons, the background-based screening level.

4.3.4 MONITORING WELL MW-105

For monitoring well MW-105, UCLs were calculated for diesel-range petroleum hydrocarbons, gasoline-range petroleum hydrocarbons, arsenic, and several SVOCs and VOCs. No UCL was calculated for the other constituents because all of the data for these constituents were censored. The UCL for benzene exceeded the cleanup level included in the CAP and the background-based screening level. The UCL for arsenic exceeded the cleanup level included in the CAP, but did not exceed the background-based screening level. All other UCLs were less than the respective cleanup levels or, for diesel-range and gasoline-range petroleum hydrocarbons, the background-based screening level.

4.3.5 MONITORING WELL MW-107R

For monitoring well MW-107R, UCLs were calculated for diesel-range and gasoline-range petroleum hydrocarbons, arsenic, and several SVOCs and VOCs. No UCL was calculated for the other constituents because all of the data for these constituents were censored. The UCL for arsenic exceeded the cleanup level included in the CAP, but did not exceed the background-based screening level. No other UCLs exceeded the respective cleanup levels in the CAP or, for diesel-range and gasoline-range petroleum hydrocarbons, the background-based screening level.

4.3.6 MONITORING WELL MW-108R

For monitoring well MW-108R, UCLs were calculated for naphthalene, arsenic, chromium, and selenium. No UCLs were calculated for the other constituents because all the data for these constituents were censored. Only the UCL for arsenic exceeded the cleanup level included in the CAP. The UCL for arsenic did not exceed the background-based screening level.

4.4 SUMMARY OF EVALUATION RESULTS

Acenapthene, arsenic, and benzene were identified in the previous section as exceeding cleanup levels included in the CAP in one or more wells. Each of these constituents is also found in one of the background wells at concentrations exceeding the cleanup level in the CAP; therefore, a background-based screening level was calculated for each. A background-based screening level was also calculated for diesel-range and gasoline-range petroleum hydrocarbons. Only the background-based screening level for benzene was exceeded. Exceedances of cleanup levels and background-based screening levels for these constituents are consistent with the exceedances identified during previous statistical evaluations

(Landau Associates 2000, 2002, and 2003a,b). Each of the constituents exceeding cleanup or background-based screening levels is discussed below and summarized in Table 4-3.

4.4.1 ACENAPHTHENE

Acenaphthene is a typical constituent of diesel as well as coal tar. Acenaphthene was detected at concentrations above the PQL at all property wells, except MW-108R. Acenaphthene has been consistently detected in samples collected from background well B-4. Concentrations decreased, however, during each of the last five monitoring events, and in June 2004, the lowest concentration of acenaphthane during the monitoring period was measured at well B-4. As described in Section 4.1.2, the background-based screening level is 485 µg/L. Only the UCL calculated for acenaphthene at well MW-101 (350 µg/L) exceeds the CAP cleanup level (225 µg/L). None of the calculated UCLs exceeded the background-based screening level. The presence of acenaphthene historically in monitoring well B-4 at high concentrations relative to concentrations detected on the property indicates that there is an off-property source or sources of acenaphthene. The exceedance of the CAP cleanup level in well MW-101 does not represent contamination originating from the property and, therefore, should not trigger implementation of groundwater treatment or prevent a reduction in frequency of groundwater monitoring.

4.4.2 BENZENE

Benzene is a constituent of gasoline and is typically found in groundwater contaminated from relatively recent spills of gasoline. It can also be associated with coal gasification plants; however, groundwater testing prior to and during the RI did not indicate that benzene was present at the property from the coal gasification plant formerly located on the property. In addition, gasoline and other gasoline-related constituents, such as ethylbenzene, toluene, xylenes, and substituted benzenes, are also detected in property monitoring wells, making it likely that the source of the benzene is gasoline. Benzene, along with other petroleum-related constituents, is apparently migrating in groundwater to the property from off of the property. Benzene has been detected consistently in samples from monitoring well B-4. Although the background-based screening level used for comparison (231 µg/L) was calculated based on the data from monitoring well B-4, it is likely that the data from B-4 does not reflect the maximum concentration in groundwater migrating onto the property. The UCLs for wells MW-101R and MW-105 exceed the CAP cleanup level. The UCL for well MW-105 also exceeds the background-based screening level. These exceedances do not represent contamination originating from the property and, therefore, should not trigger implementation of groundwater treatment or prevent a reduction in frequency of groundwater monitoring.

4.4.3 ARSENIC

Arsenic is a naturally occurring metal in soil and groundwater. Ecology determined that the 90th percentile value for background arsenic concentration in soil in the Puget Sound region is 7 mg/kg (Ecology 1994). Arsenic has been detected in groundwater at concentrations at or above the PQL in all property wells other than well MW-104, in at least six of the past eight monitoring events. Because the CAP cleanup level is equal to the PQL, the detections resulted in the UCLs exceeding the CAP cleanup level for all of the property wells except well MW-104. Based on the concentrations measured in well B-6R, the background-based screening level is 36 µg/L. There are no exceedances of the background-based screening level. The presence of arsenic in a background well at concentrations greater than those found in property wells indicates that arsenic is present upgradient of the property. The exceedances of the CAP cleanup level do not represent contamination originating from the property and, therefore, should not trigger implementation of groundwater treatment or prevent reduction of frequency of groundwater monitoring.

5.0 CONCLUSIONS

Evaluation of historical and current analytical results for the property indicates that there are upgradient sources of gasoline-range and diesel-range petroleum hydrocarbons and related constituents that are migrating in groundwater onto the property. For this reason, groundwater concentrations at well B-4 have historically been used to evaluate compliance for gasoline-range and diesel-range petroleum hydrocarbons, acenaphthene, and benzene in property wells. Beginning in March 2001, the groundwater flow direction near well B-4 changed. However, concentrations of constituents in property wells have not changed significantly since that time, indicating that there are still sources of contaminants upgradient (east) of the property. In addition, groundwater flow is likely to be generally to the west, consistent with the regional groundwater flow direction.

Screening levels based on 90th percentile values were calculated using well B-4 data from the entire monitoring period, October 1997 through June 2004, and from the period when well B-4 was clearly upgradient of property wells, October 1997 through December 2000. Ninetieth percentile values from both data sets were similar for gasoline-range petroleum hydrocarbons, benzene, and acenaphthene; the 90th percentile value for diesel-range petroleum hydrocarbons was less for the period October 1997 through December 2000. The 90th percentile values from October 1997 through December 2000 were used as background-based screening levels for all four constituents and used in compliance evaluations.

Based on the statistical evaluation of groundwater results from the past eight groundwater monitoring events, no exceedances of PAHs or metals other than arsenic have occurred. The only exceedances of CAP cleanup levels are for constituents related to petroleum contamination and arsenic that are migrating onto the property from off-property. Groundwater concentrations of acenapthene exceed the CAP cleanup level but do not exceed the screening level at well MW-101R. Groundwater concentrations of benzene exceed the CAP cleanup level at wells MW-101R and MW-105R. The concentration of benzene at well MW-105 also exceeds the screening level. There are no exceedances of screening levels for diesel-range or gasoline-range petroleum hydrocarbons in any property well. These results are consistent with the results of previous statistical evaluations. Historical results for groundwater samples at B-4 have consistently demonstrated that petroleum-related contamination was migrating from off-property onto the property (Landau Associates 2000, 2002, 2003a,b). The current evaluation indicates these contaminants are continuing to migrate onto the property. Therefore, because these exceedances do not represent contamination originating on the property, they should not be used to trigger groundwater treatment or preclude reduction in frequency of groundwater monitoring.

Arsenic was detected in most property wells and in background well B-6R. Evaluation of the data indicates that arsenic is migrating in groundwater onto the property. A background-based screening

level was calculated using the well B-6R data and was used to evaluate compliance. There were no exceedances of the background-based screening level.

6.0 RECOMMENDATIONS

As described below, it is recommended that the groundwater monitoring frequency be reduced to every 5 years, constituents for analysis be reduced, and a certificate of completion be issued in accordance with the Consent Decree.

6.1 GROUNDWATER MONITORING FREQUENCY

As summarized in Table 1-1, the CAP provides for reducing the groundwater monitoring frequency to every 5 years if, 3 years after foundation loading (building completion), UCLs are less than or equal to cleanup levels. Foundation loading was completed in 2001; therefore, 3 years of groundwater monitoring have been completed since then. Over the past 3 years, for most analytes at most wells no UCL was calculated because the analyte was not detected or all of the detected values were less than the PQL, or the calculated UCL was less than the CAP cleanup level. No cPAHs, identified as the "most significant contaminant of concern in soil" in the Consent Decree, were detected at concentrations above the PQL. Metals, identified in the Consent Decree as persistent contaminants present at the property, were, except for arsenic, either not detected at concentrations above the PQL or had UCLs below the CAP cleanup levels. The only analytes with calculated UCLs above the CAP cleanup level in one or more wells were acenaphthene, benzene, and arsenic. The UCLs were below the background-based screening levels in all wells for acenaphthene and arsenic. The UCL for benzene exceeded the background-based screening level only at well MW-105. The presence of benzene and other petroleum-related constituents in groundwater upgradient of the property, combined with monitoring results prior to and during the RI that did not indicate that benzene was present at the property from the coal gasification plant located at the property prior to 1912, indicate that these constituents are not originating at the property. For these reasons, the CAP cleanup level exceedances are not representative of contamination originating on the property and it is our recommendation to reduce monitoring frequency to every 5 years, in accordance with the Consent Decree.

6.2 CONSTITUENTS FOR ANALYSIS

Ecology requested that 3 full years of monitoring data be obtained after completing foundation loading prior to reduction of constituents for analysis (Ecology 2003). Three years of monitoring subsequent to foundation loading has now been completed. As described previously, most analytes at most wells were not detected or all of the detected values were less than the PQL during the past eight monitoring events used for statistical evaluation. For those property wells and those constituents for which UCLs were calculated, the UCLs were below the CAP cleanup levels for most constituents.

Although the calculated UCLs for acenaphthene, benzene, and arsenic were above their respective CAP cleanup levels, as described previously these exceedances do not represent contaminants from the property. For these reasons, we recommend that the list of constituents for analysis during future groundwater monitoring events be reduced to those constituents identified as the most significant constituent of concern in soil, cPAHs. We also recommend field monitoring for pH, specific conductivity, and temperature, and measurement of groundwater levels during each groundwater sampling event.

6.3 CERTIFICATE OF COMPLETION

The Consent Decree states that Ecology shall issue a Certificate of Completion and remove the facility from the Hazard Ranking List upon completion of all remedial actions specified in the CAP except confirmational monitoring. The CAP states that all remedial actions except confirmational monitoring will be considered to be complete when monitoring has been conducted for 3 years after completion of foundation loading, provided compliance with cleanup standards has been achieved and groundwater treatment has not been triggered. All remedial actions specified in the CAP, including 3 years of groundwater monitoring after completion of foundation loading, have been completed, compliance with cleanup standards has been achieved for constituents originating from the property, and groundwater treatment has not been triggered. Therefore, a Certificate of Completion should be issued and the property should be removed from the Hazard Ranking List.

7.0 USE OF THIS REPORT

This report has been prepared for the exclusive use of Union Station Associates for specific application to the Union Station property groundwater monitoring program. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau Associates. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau Associates, shall be at the user's sole risk. Landau Associates warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

This document has been prepared under the supervision and direction of the following key staff.

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Kristy J. Hendrickson, P.E.
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SJP/KJH/tam

8.0 REFERENCES

Ecology. 2003. Letter to K.J.Hendrickson, Landau Associates, Edmonds, Washington, re: *Union Station Groundwater Monitoring Report, dated February 25, 2003 pursuant to Consent Decree 97-2-18936-5SEA*. D.L. South, Senior Engineer, Toxics Cleanup Program, Washington State Department of Ecology, Bellevue, Washington. March 14.

Ecology. 2002. Letter to K.Hendrickson, Landau Associates, Inc., Edmonds, Washington, re: *Union Station*. D.L.South, Senior Engineer, Toxics Cleanup Program, Washington State Department of Ecology. November 4.

Ecology. 2000. Letter to K.J.Hendrickson, Landau Associates, Edmonds, Washington, re: *Union Station - Report, Groundwater Monitoring, Union Station, Seattle, Washington, dated August 31, 2000*. D.L. South, Senior Engineer, Toxics Cleanup Program, Washington State Department of Ecology, Bellevue, Washington. November 22.

Ecology. 1994. *Natural Background Soil Metals Concentrations in Washington State*. Toxics Cleanup Program, Department of Ecology, October 1994, Publication #94-115.

Ecology. 1993. Memorandum to Interested Parties re: *Supplement to Statistical Guidance for Ecology Site Managers.* C.L.Fleskes, Manager, Toxics Cleanup Program, Washington State Department of Ecology, Olympia, Washington. August 11.

Ecology. 1992. *Statistical Guidance for Ecology Site Managers.* Toxics Cleanup Program, Washington State Department of Ecology. August.

Healy, D. 2004. Personal communication (Communication with Stacy Pischer, Landau Associates, Inc., Edmonds, Washington re: permit extension approval). Denise Healy, King County Industrial Waste Division. June.

Healy, D. 2003. Personal communication (Communication with Stacy Pischer, Landau Associates, Inc., Edmonds, Washington re: permit extension approval). Denise Healy, King County Industrial Waste Division. May 29.

Landau Associates. 2003a. *Report, Groundwater Monitoring, Union Station, Seattle, Washington.* Prepared for Union Station Associates. October 29.

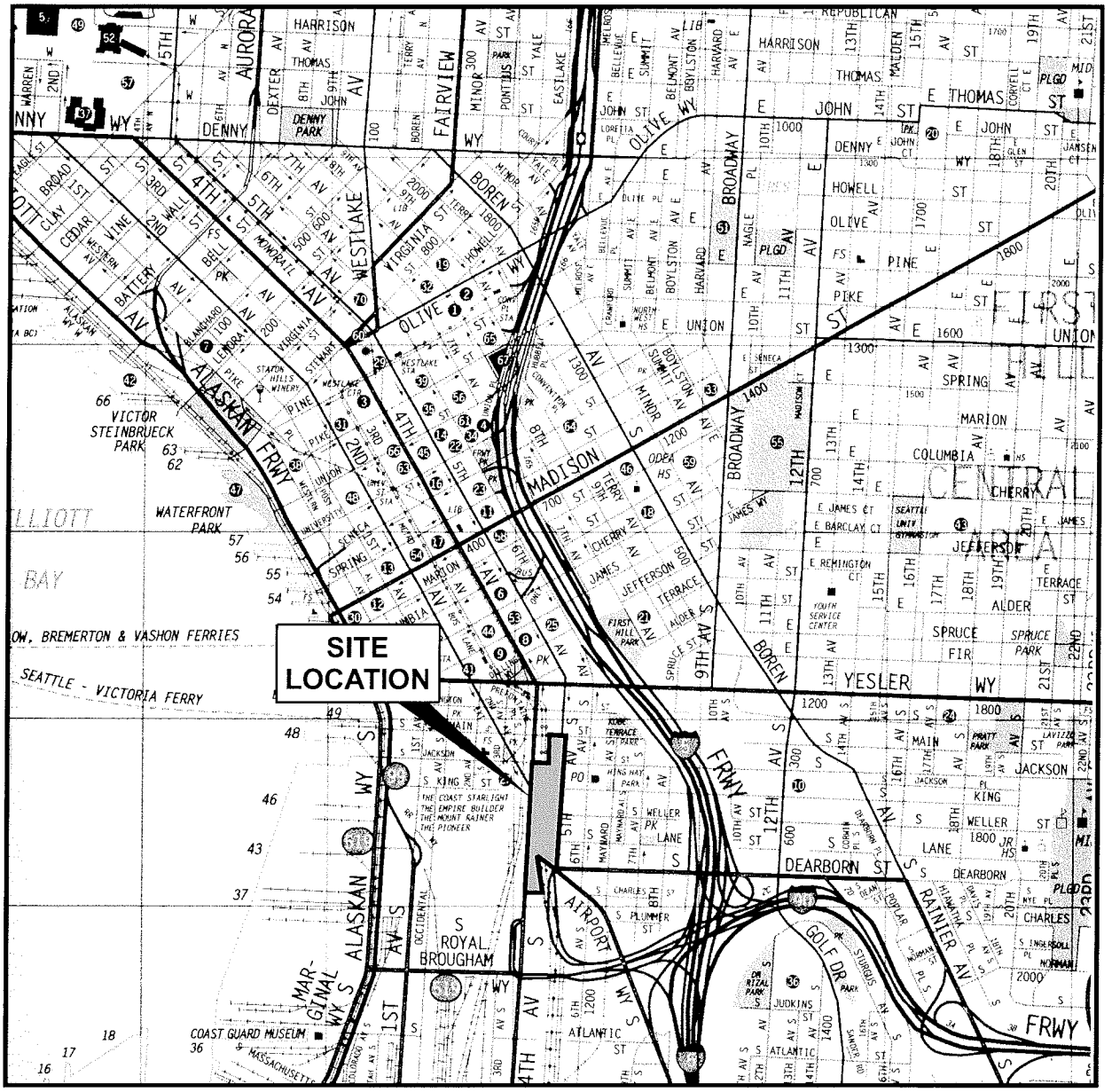
Landau Associates. 2003b. *Report, Groundwater Monitoring, Union Station, Seattle, Washington.* Prepared for Union Station Associates. February 25.

Landau Associates. 2002. *Report, Groundwater Monitoring, Union Station, Seattle, Washington.* Prepared for Union Station Associates. March 4.

Landau Asssociates. 2000. *Report, Groundwater Monitoring, Union Station, Seattle, Washington*. Prepared for Union Station Associates. August 31.

Landau Asssociates. 1997. *Cleanup Action Plan, Union Station Property, Seattle, Washington.* Prepared for Union Station Associates, LLC, Seattle, WA and Marten & Brown, LLP, Seattle, WA. July 28.

Landau Associates and Hart Crowser. 1996. *Report, Focused Remedial Investigation and Feasibility Study, Union Station, Seattle, Washington*. Prepared for Nitze-Stagen, Seattle, WA and Marten & Brown, Seattle, WA. July 1.



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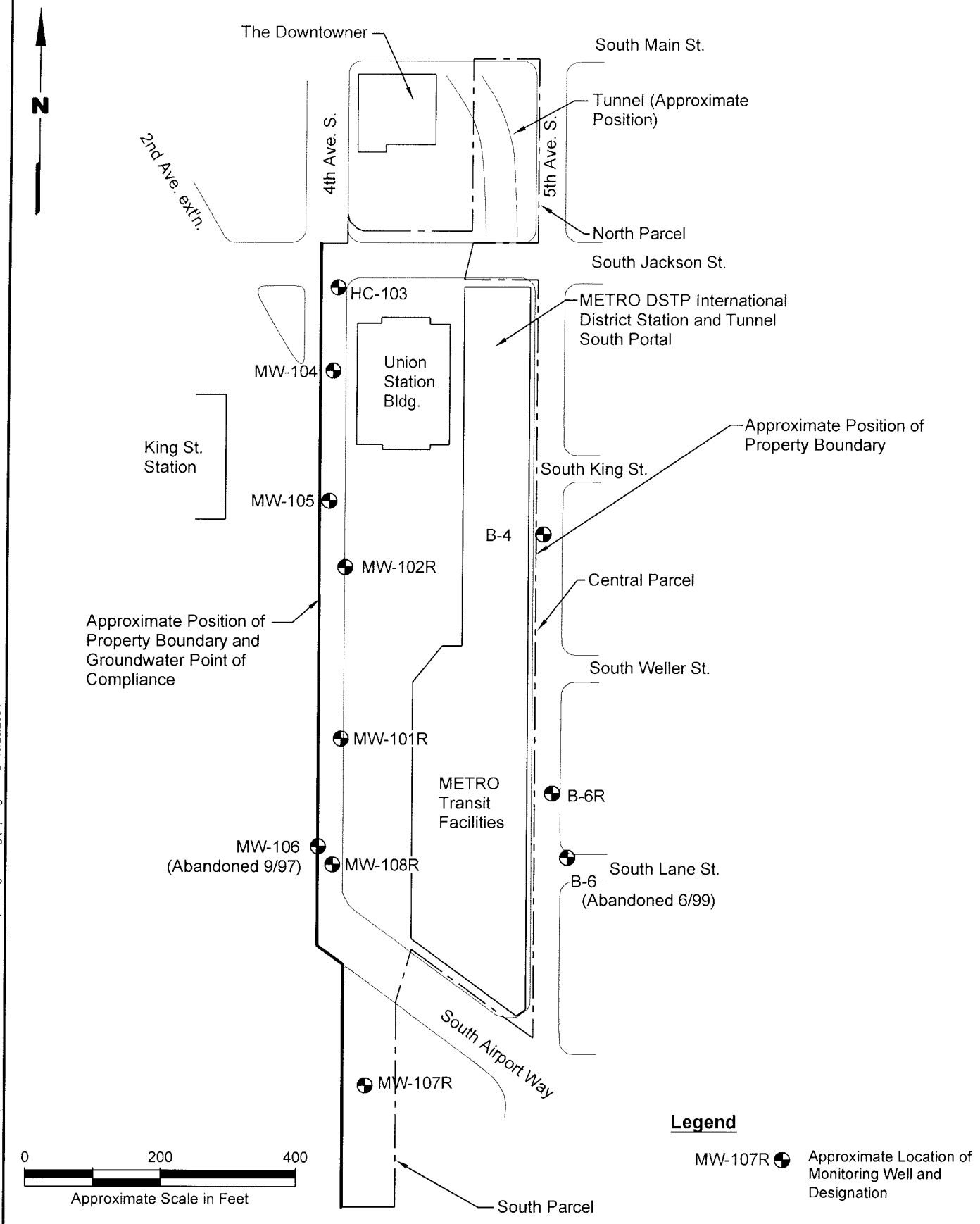
Union Station Seattle, Washington	**Vicinity Map**	Figure **1-1**



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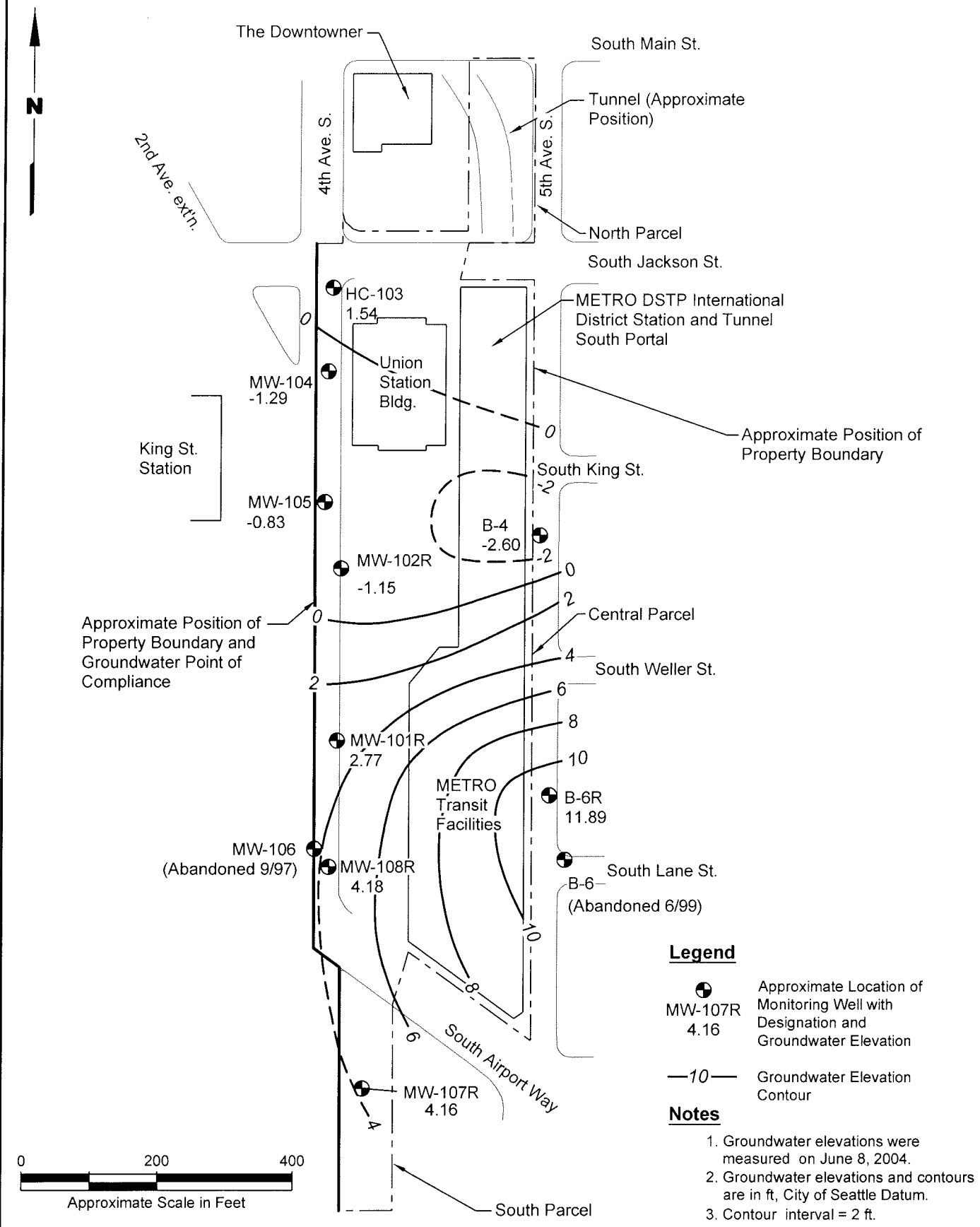
Union Station Seattle, Washington	**Union Station Groundwater Monitoring Well Locations**	Figure **1-2**



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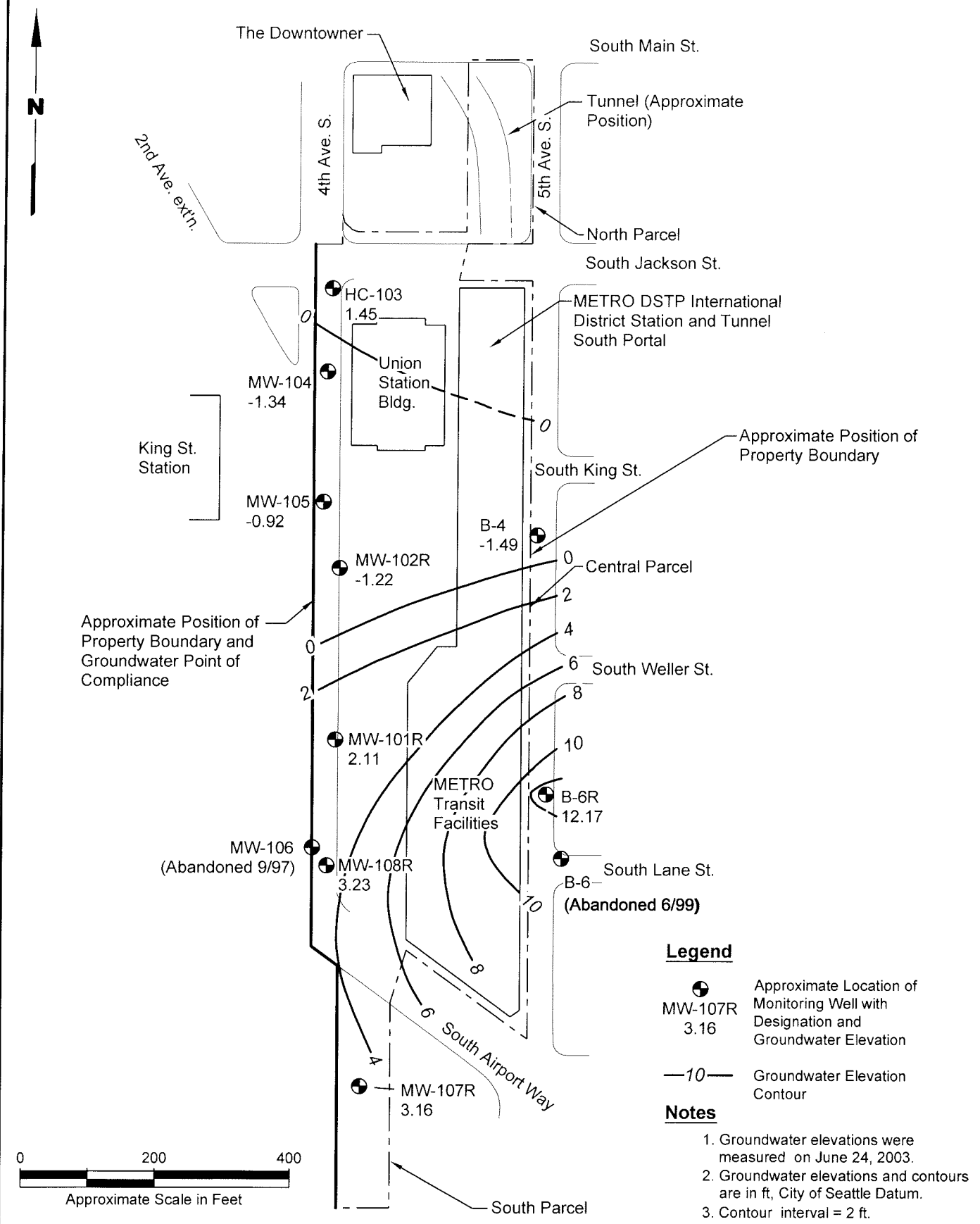
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 2004

Figure
3-1



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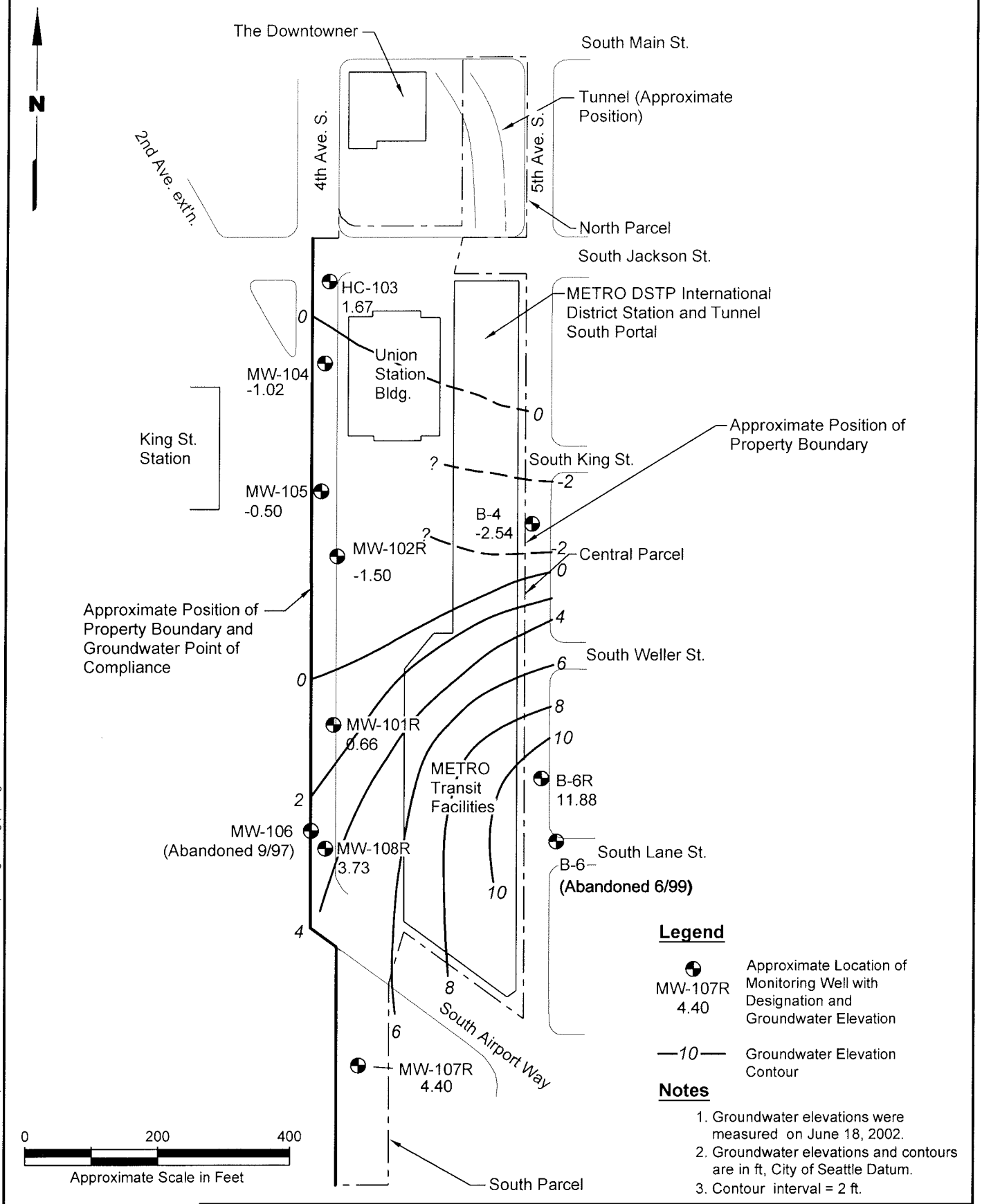
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 2003

Figure
3-2



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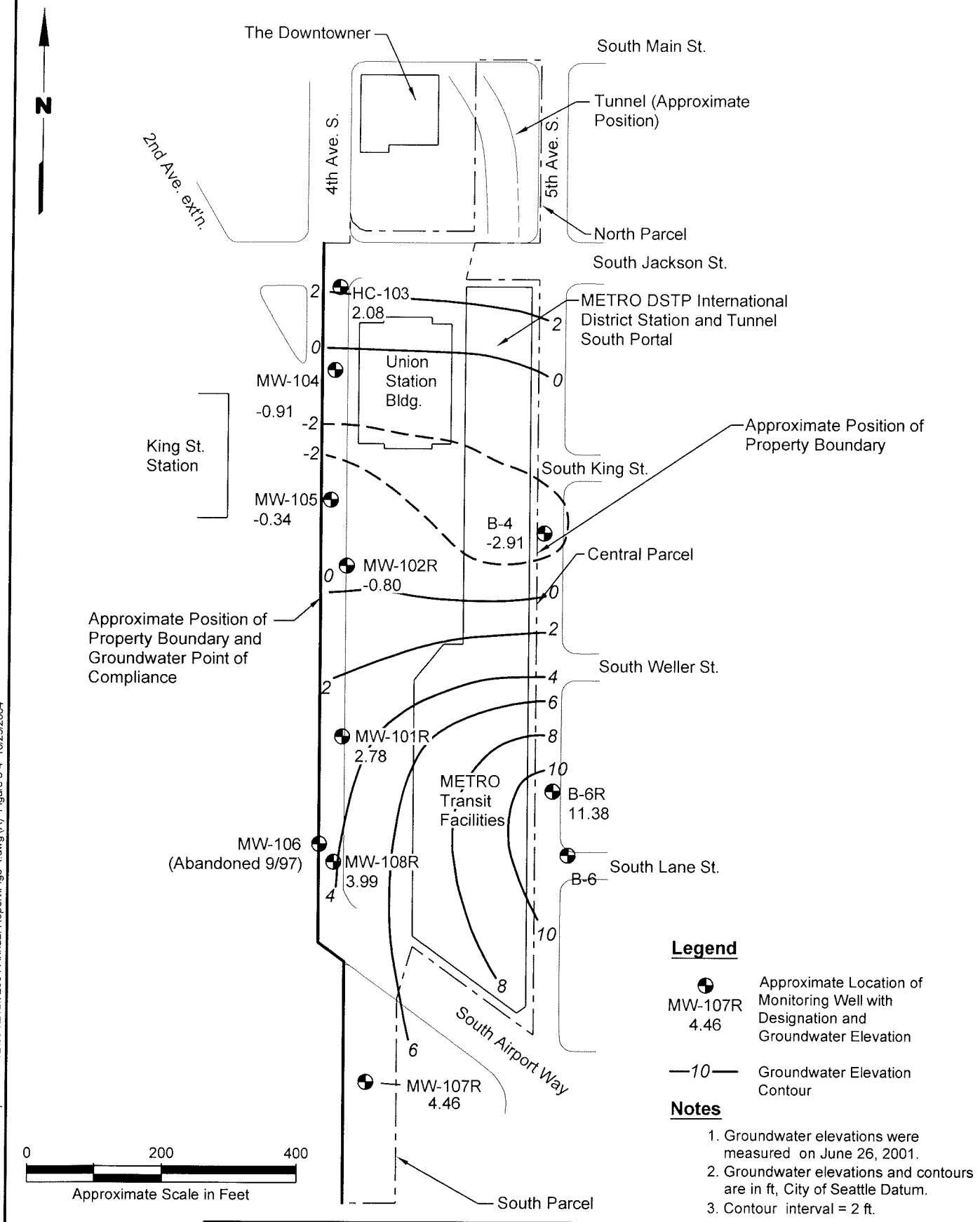
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 2002

Figure
3-3



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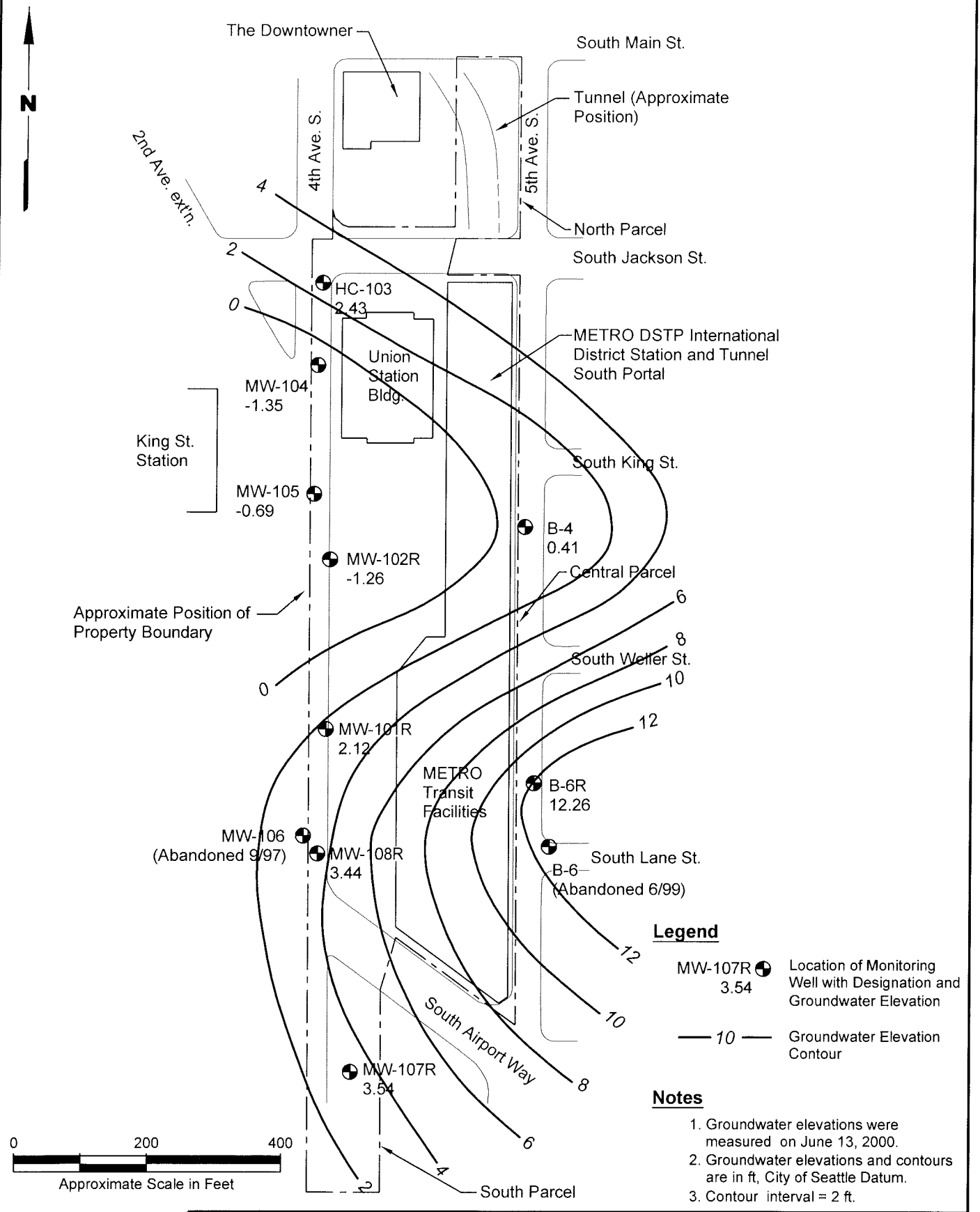
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 2001

Figure
3-4



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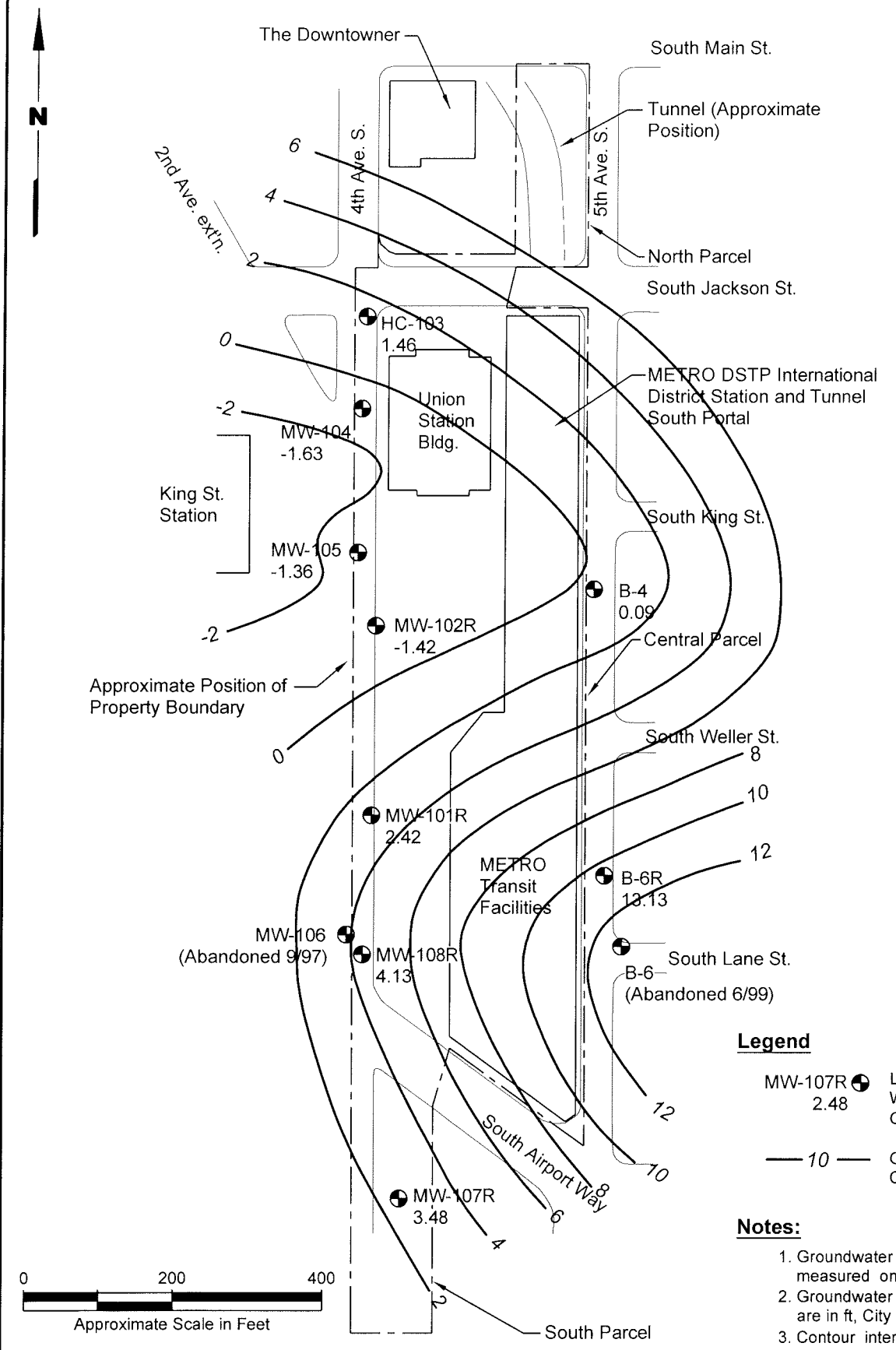
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 2000

Figure
3-5



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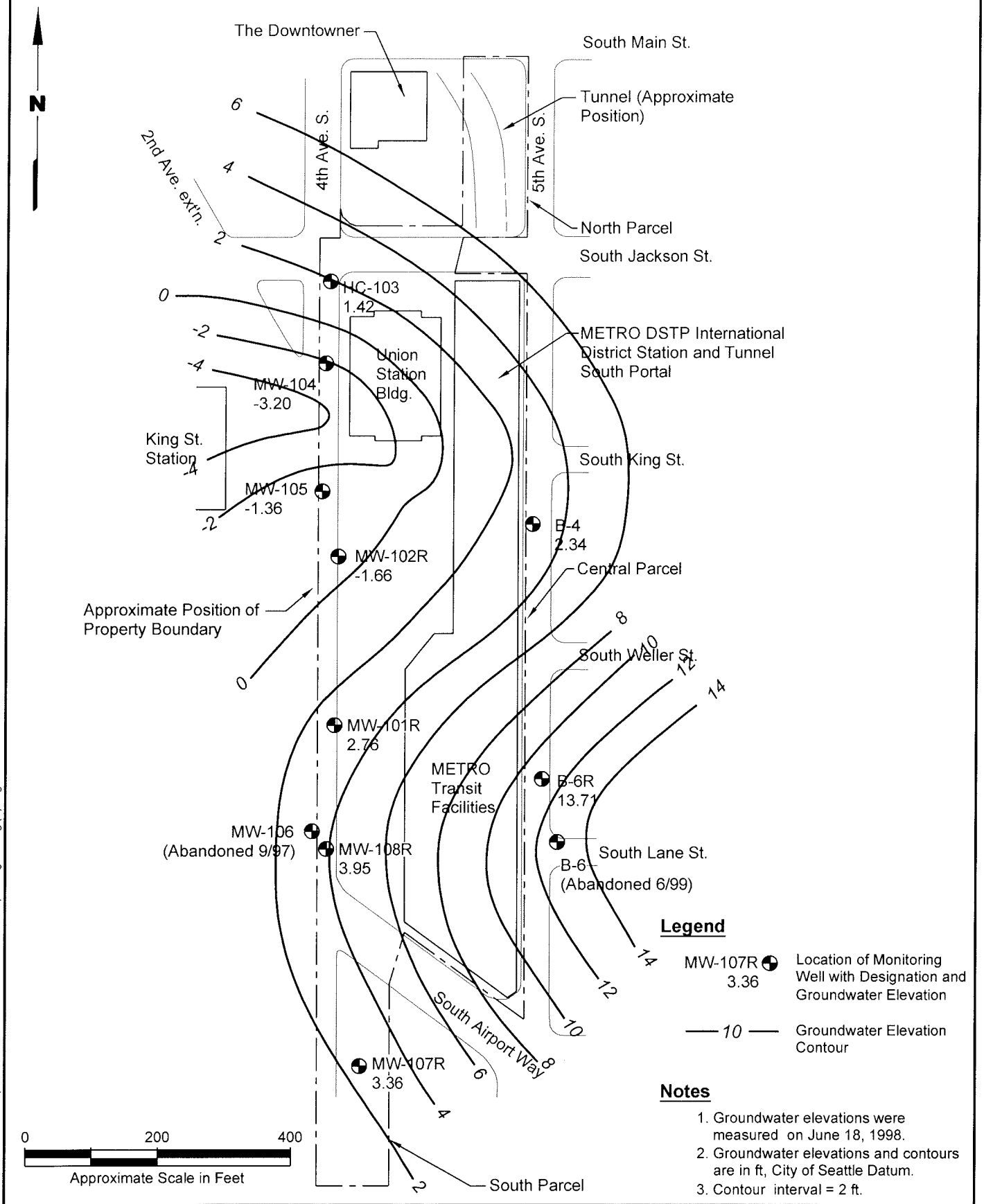
Union Station Seattle, Washington	**Groundwater Elevation Contours June 1999**	Figure **3-6**



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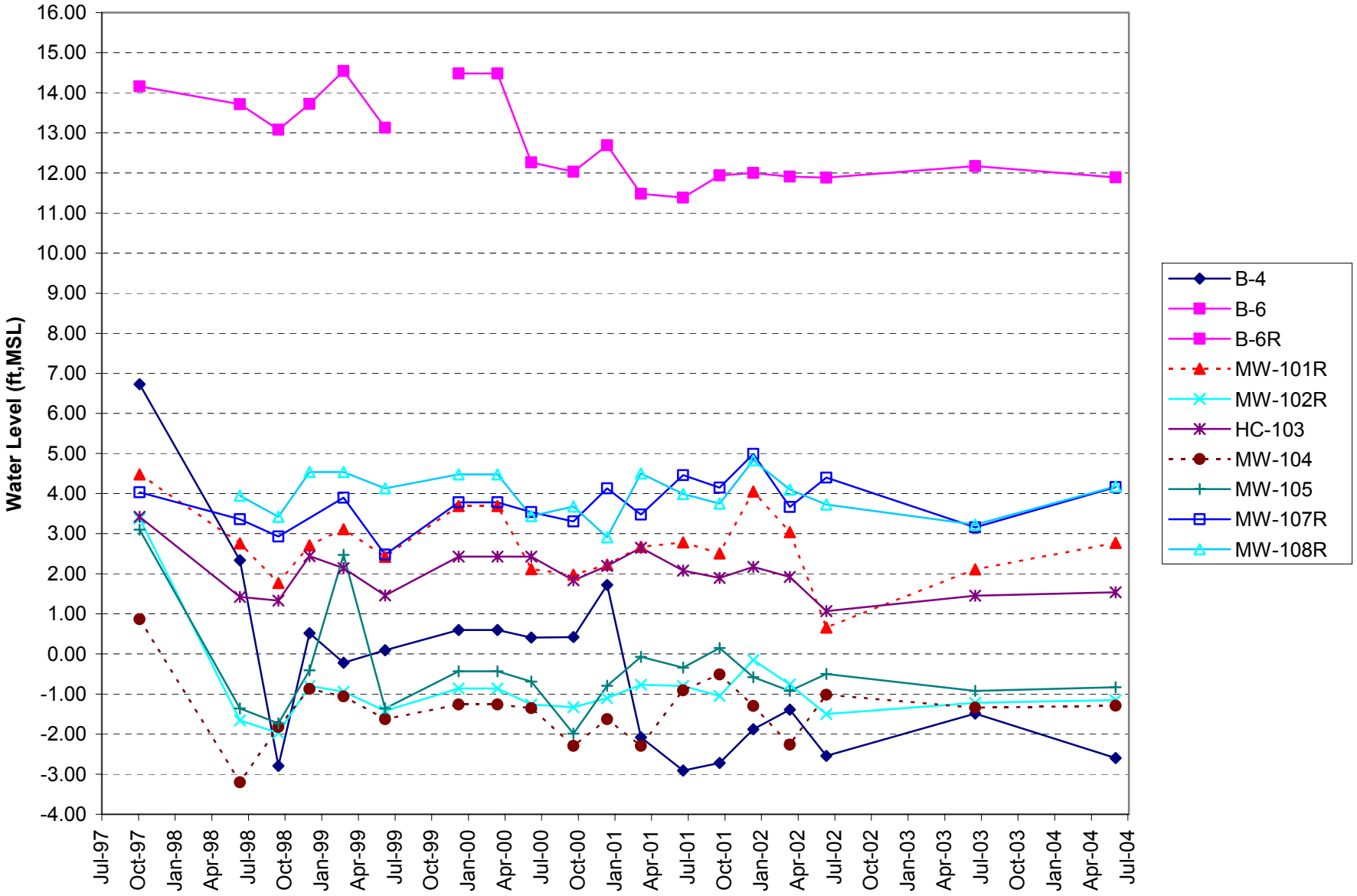
Union Station
Seattle, Washington

Groundwater Elevation Contours
June 1998

Figure
3-7



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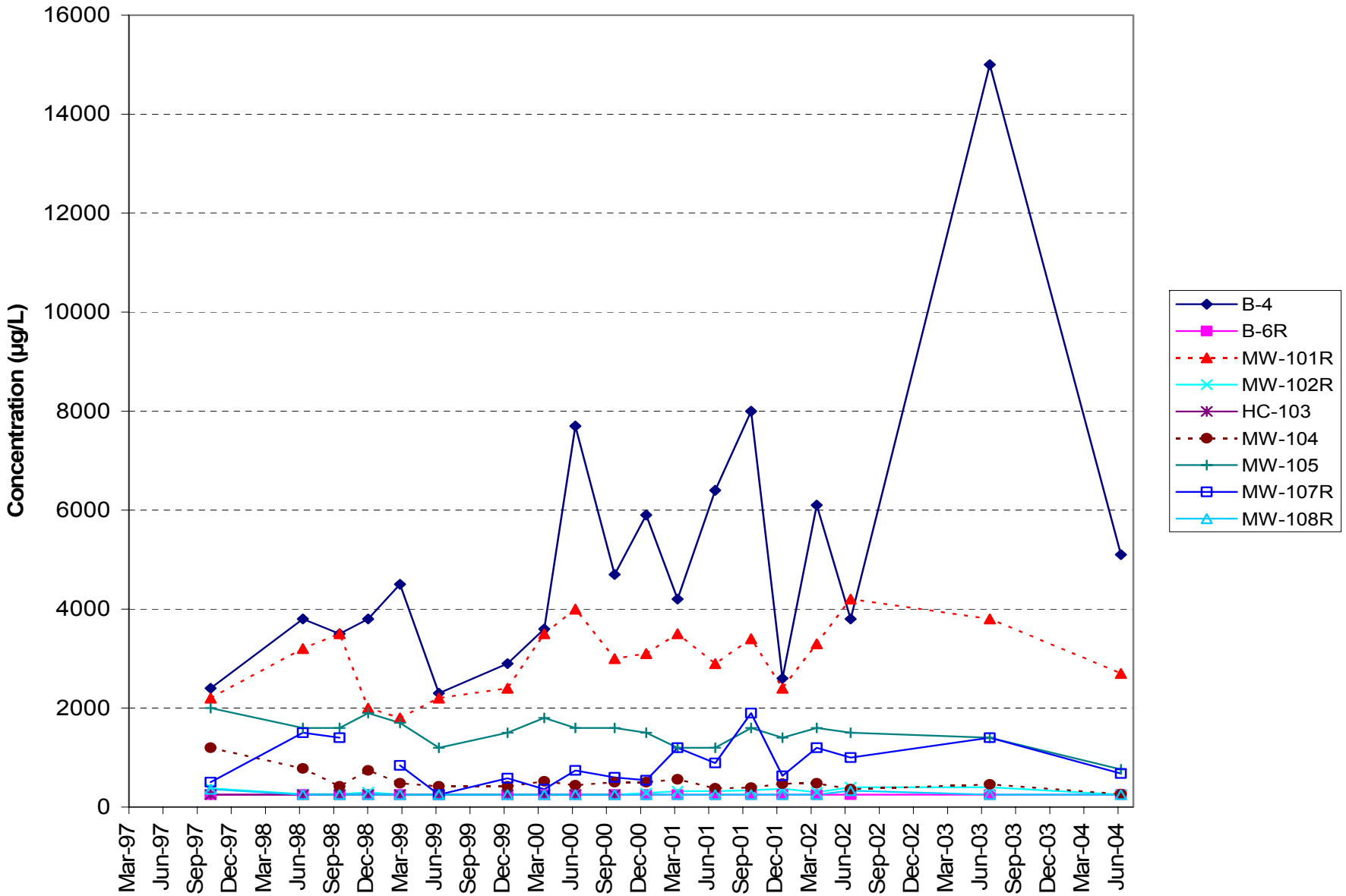
Union Station
Seattle, Washington

Groundwater Elevations
October 1997 through June 2004

Figure
3-8

Source: S:\sheets\unionstn\Annual2004\WQPlots2004.xls TPH-D



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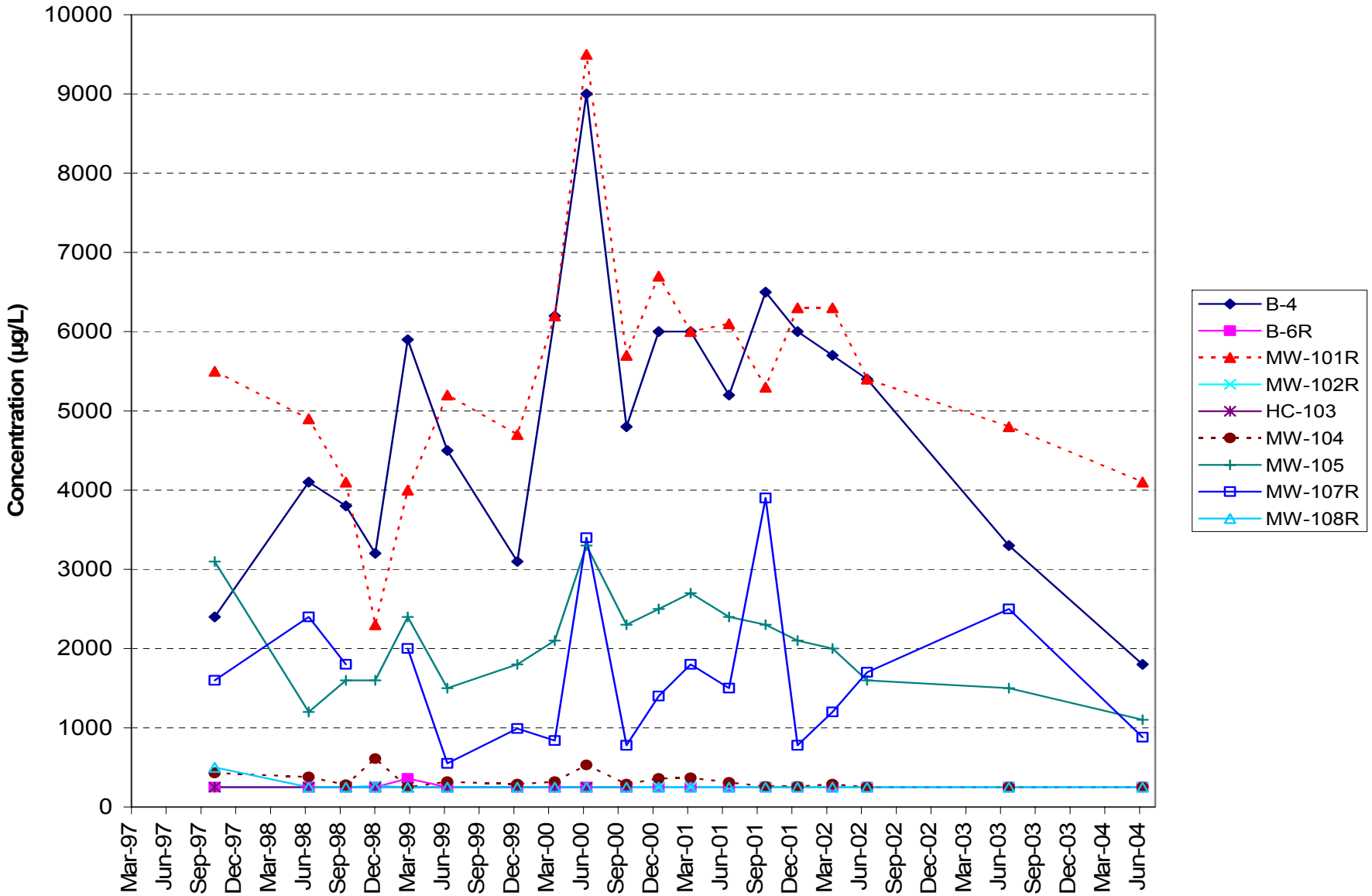
Union Station
Seattle, Washington

Diesel-range Petroleum Hydrocarbon Concentrations

Figure
3-9



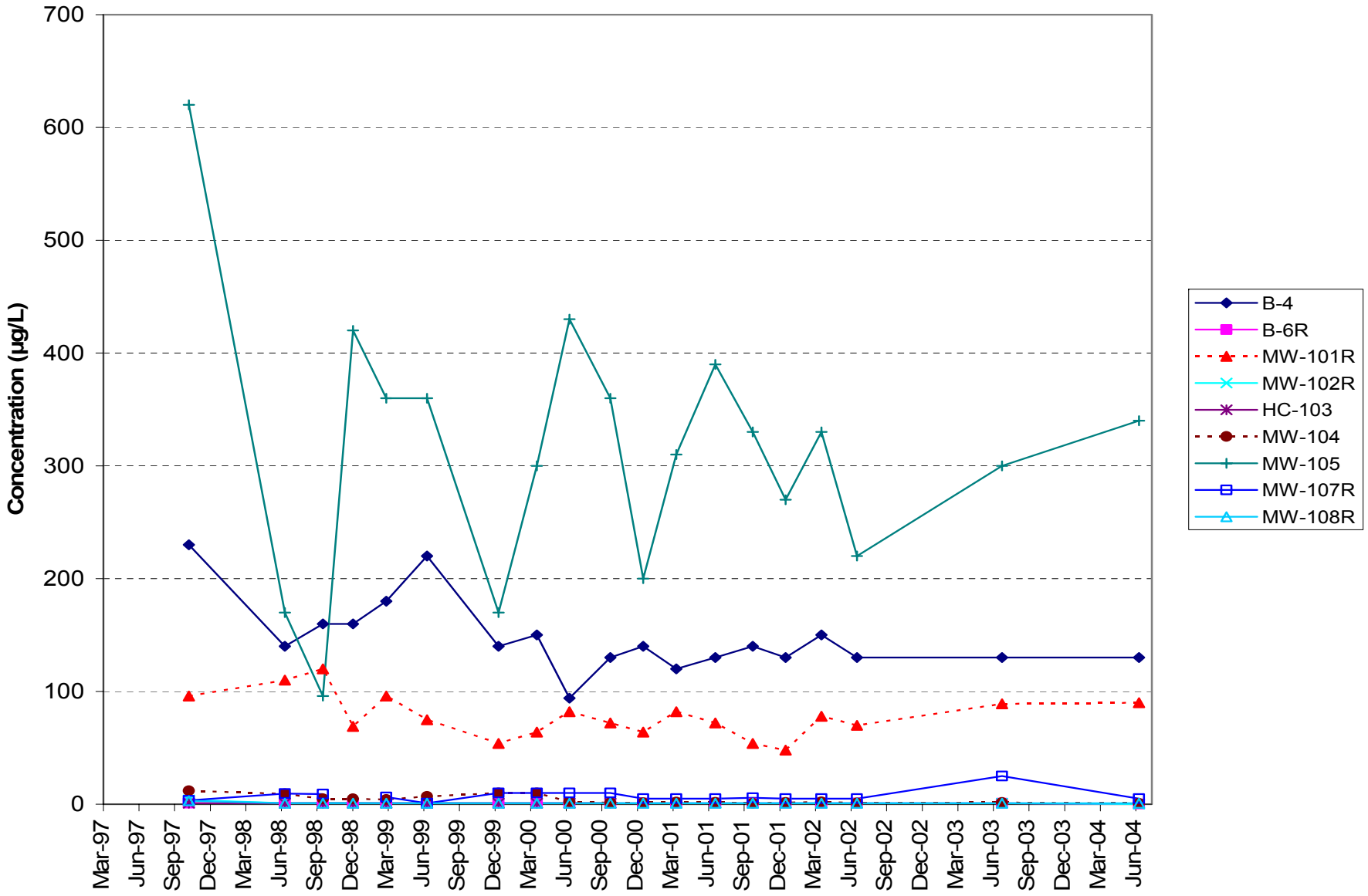
LANDAU ASSOCIATES

Union Station
Seattle, Washington

Gasoline-range Petroleum Hydrocarbon Concentrations

Figure
3-10

Source: S:\sheets\unionstn\Annual2004\WQPlots2004.xls Benzene Plot



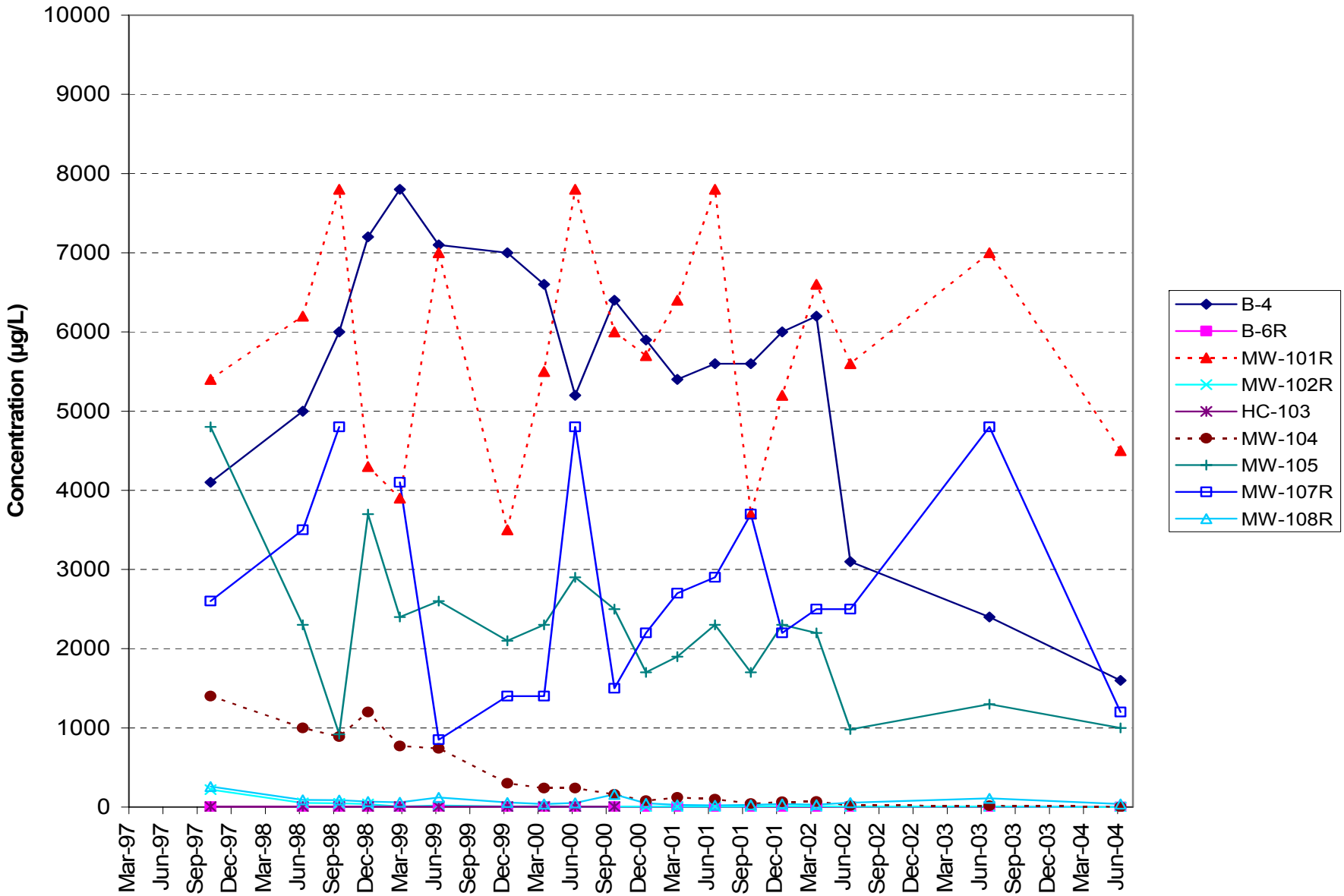
LANDAU ASSOCIATES

Union Station
Seattle, Washington

Benzene Concentrations

Figure
3-11

Source: S:\sheets\unionstn\Annual2004\WQPlots2004.xls naph 8260 Plot



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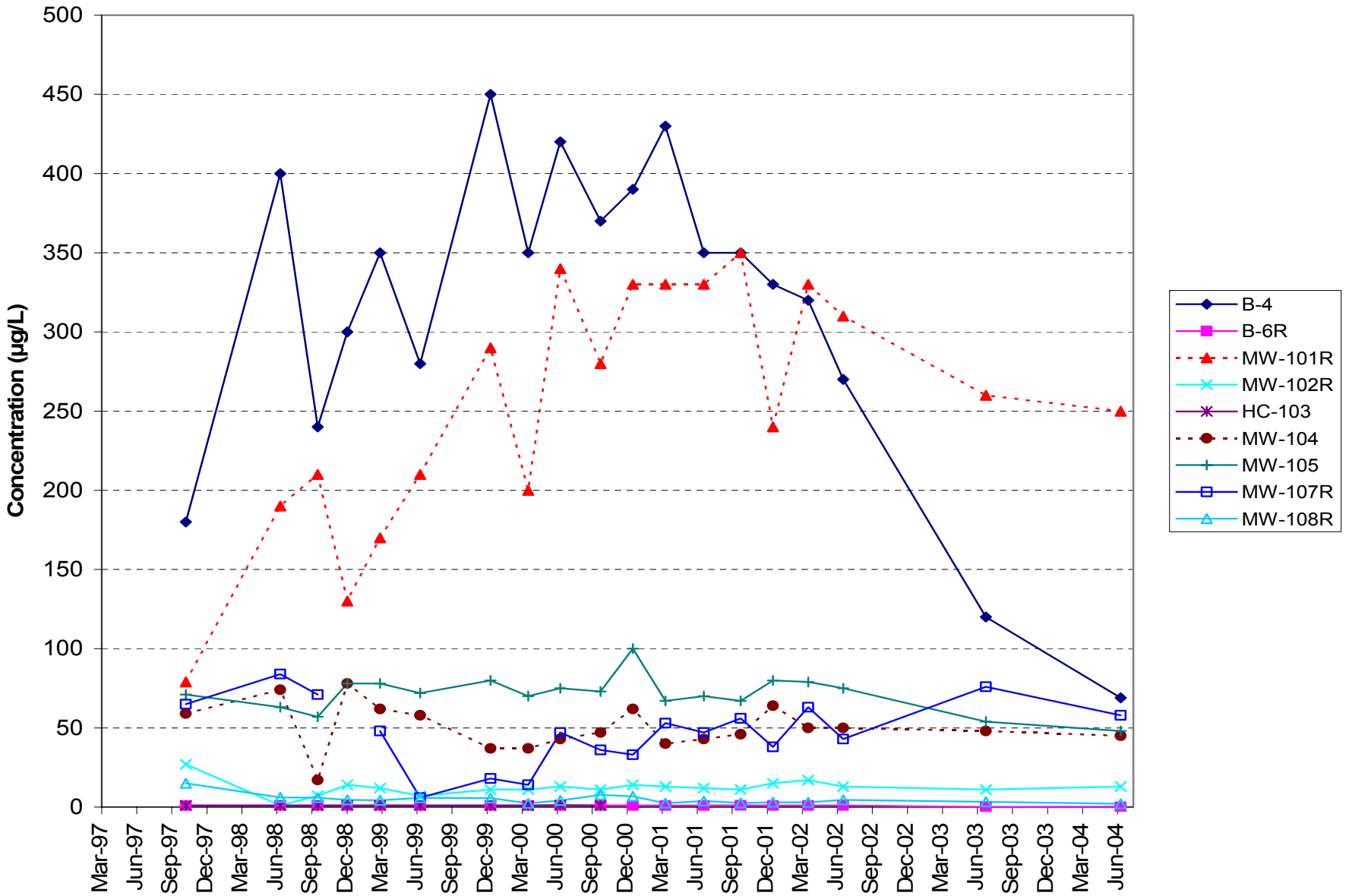
Union Station
Seattle, Washington

Naphthalene (Method 8260) Concentrations

Figure
3-12

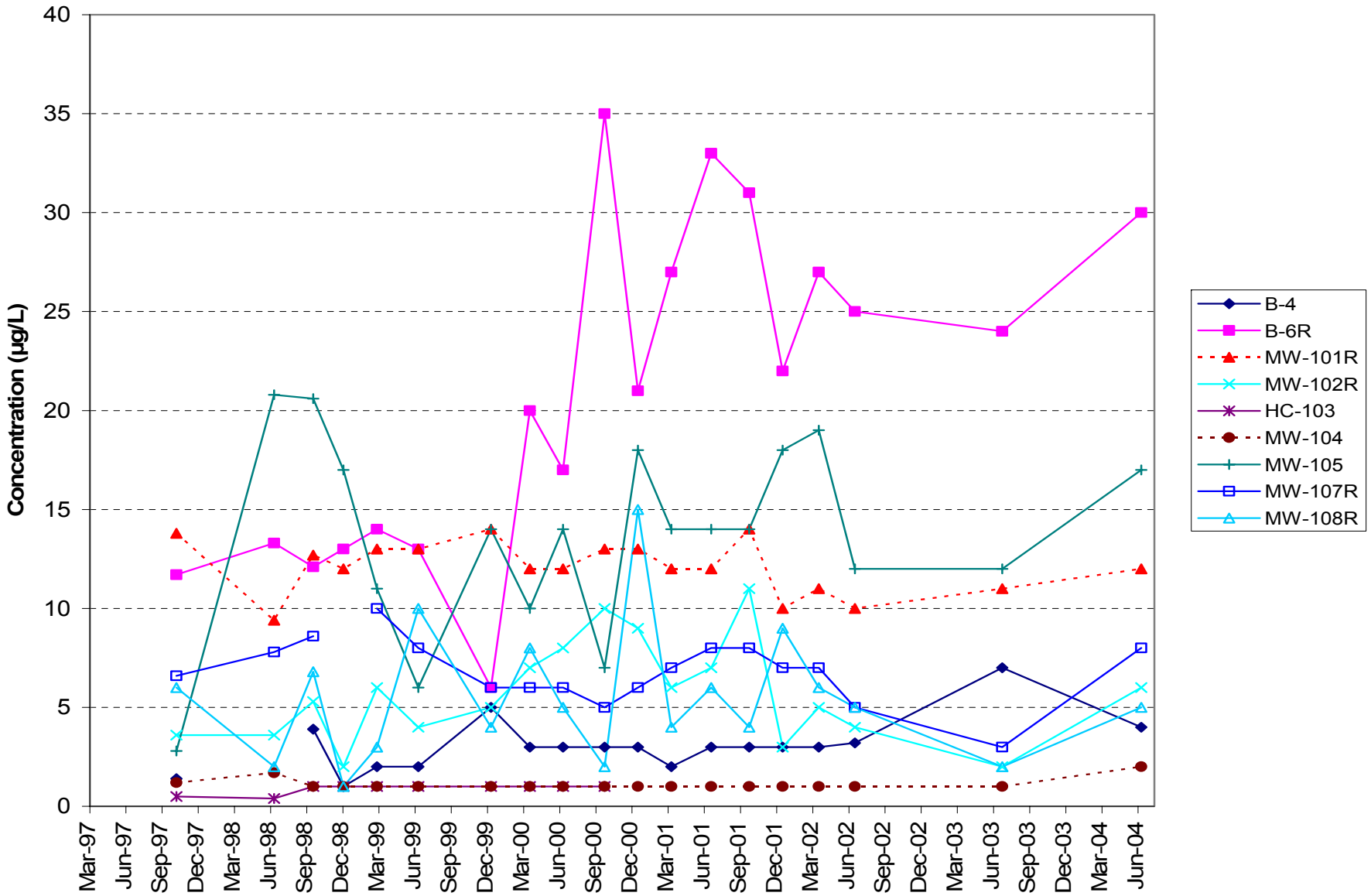


LANDAU ASSOCIATES

Union Station
Seattle, Washington

Acenaphthene Concentrations

Figure
3-13



LANDAU ASSOCIATES

Union Station
Seattle, Washington

Arsenic Concentrations

Figure
3-14

TABLE 1-1
CONSENT DECREE GROUNDWATER MONITORING AND REMEDIATION

Groundwater Monitoring

Quarterly monitoring for 8 quarters beginning within 3 months of the effective date of the consent decree.

Calculate upper 95% confidence limit (UCL) using the eight quarters of data.

If UCL exceeds cleanup levels, implement groundwater treatment if directed by Ecology to prevent contamination from leaving the site. The parties anticipate that Ecology may revise this cleanup action plan to incorporate new cleanup standards if the cleanup standards are revised by an amendment to the regulations and Ecology determines the use of the new standards is appropriate.

If UCL is less than or equal to cleanup levels, commence annual monitoring.

Annual monitoring until all foundations are completed or until two years after any foundation construction is initiated.

Quarterly sampling for 8 quarters beginning the first quarter after all foundations are completed or the first quarter occurring two years after any foundation construction is initiated.

Calculate upper 95% confidence limit (UCL) using the last eight quarters of data.

If UCL exceeds cleanup levels, implement groundwater treatment if directed by Ecology to prevent contamination from leaving the site. The parties anticipate that Ecology may revise this cleanup action plan to incorporate new cleanup standards if the cleanup standards are revised by an amendment to the regulations and Ecology determines the use of the new standards is appropriate.

If UCL is less than or equal to cleanup levels, commence annual monitoring.

Annual monitoring until foundation loading (building construction) is complete plus 3 additional years.

If any sample exceeds cleanup levels, collect another sample 1 quarter later.

If the second sample is less than cleanup levels, return to annual monitoring.

If the second sample exceeds cleanup levels, commence quarterly monitoring for 1 year (see below).

If no exceedance of cleanup levels has occurred after 3 years, commence monitoring every 5 years.

Monitoring every 5 years.

If any sample exceeds cleanup levels, collect another sample 1 quarter later.

If the second sample is less than cleanup levels, return to annual monitoring for 1 year.

If the second sample exceeds cleanup levels commence quarterly monitoring for 1 year (see below).

If UCL is less than or equal to cleanup levels continue monitoring every 5 years so long as residual hazardous substance concentrations contained onsite exceed site cleanup levels [see WAC 173-340-360 (8)(b)].

Quarterly sampling for 1 year

At end of year, if UCL based on four quarters of data is less than cleanup levels, return to annual monitoring for 3 years

At end of year, if UCL based on four quarters of data is greater than cleanup levels and data show increasing trend and last sample exceeds twice the cleanup level, implement groundwater treatment if directed by Ecology to prevent contamination from leaving the site. Otherwise, continue monitoring for another four quarters.

If, after eight quarters of data have been collected, the UCL based on the eight quarters of data exceed the cleanup level, implement groundwater treatment if directed by Ecology to prevent contamination from leaving the site.

If, after eight quarters of data have been collected, the UCL based on the eight quarters of data is less than the cleanup level, continue monitoring for another four quarters.

If, at the end of the last four quarters, the UCL based on the last eight quarters of data exceeds the cleanup level, implement groundwater treatment if directed by Ecology to prevent contamination from leaving the site.

If, at the end of the last four quarters, the UCL based on the last eight quarters of data is less than the cleanup level, return to annual monitoring for 5 years. If there are no exceedances of cleanup levels during that time, return to monitoring every 5 years.

TABLE 1-1
CONSENT DECREE GROUNDWATER MONITORING AND REMEDIATION

Groundwater Treatment

Minimize present worth of capital and O&M costs to determine the size and estimated operating time of the system.

Performance monitoring.

Quarterly monitoring during groundwater treatment.

Plot data and do statistical evaluation as directed by Ecology to determine when to terminate treatment or when cleanup standards are met.

Post-Treatment Monitoring

Quarterly monitoring for 8 quarters.

If UCL exceeds cleanup levels and trend analysis does not indicate decreasing trend, return to groundwater treatment.

If UCL exceeds cleanup levels and trend analysis indicates decreasing trend, continue monitoring quarterly. If UCL calculated using the last 8 quarters of data exceeds cleanup levels after 12 quarters of data have been collected, return to groundwater treatment.

If UCL is less than or equal to cleanup levels, commence annual monitoring for 3 years.

Annual monitoring for 3 years.

If any sample exceeds cleanup levels, collect another sample 1 quarter later.

If the second sample is less than cleanup levels return to annual monitoring.

If the second sample exceeds cleanup levels commence quarterly monitoring for 1 year and use triggers in quarterly monitoring above.

If no exceedance of cleanup levels has occurred after 3 years, commence monitoring every 5 years.

Monitoring every 5 years.

If any sample exceeds cleanup levels, collect another sample 1 quarter later.

If the second sample is less than cleanup levels return to monitoring every 5 years.

If the second sample exceeds cleanup levels commence quarterly monitoring (see above).

If UCL is less than or equal to cleanup levels, continue monitoring every 5 years so long as residual hazardous substance concentrations contained onsite exceed site cleanup levels [see WAC 173-340-360 (8)(b)].

Notes:

1. This table was prepared for and originally presented in the CAP.
2. As described in Appendix A of the CAP, alternate statistical methods may be used upon approval by Ecology.

TABLE 2-1
MONITORING WELL SUMMARY
UNION STATION

Well	Installation Date	Abandonment Date	Northing	Easting	Ground Surface Elevation (a)	Reference Elevation (b)	Top of Screen Elevation	Bottom of Screen Elevation	Top of Native Soil Elevation	Notes
HC-101	4-96	3-98	1583.27	1695.87	8.80	9.09	3.8	-6.2	NA	Well was damaged during construction activities and abandoned
MW-101R	3-98	N/A	1583.24	1695.87	9.77	9.06	2.8	-7.2	NA	Replacement well for HC-101; Boring could not be advanced beyond 16 ft BGS.
HC-102	4-96	3-98	1837.46	1700.69	9.30	8.64	4.3	-5.7	NA	Well was damaged during construction activities and abandoned
MW-102R	3-98	N/A	1837.26	1700.58	9.97	8.60	-3.7	-13.7	-14.7	Replacement well for HC-102.
HC-103	4-96	N/A	2253.49	1687.23	10.30	8.99	5.5	-4.5	NA	
MW-104	11-96	N/A	2129.50	1680.99	10.65	9.59	-0.1	-10.1	-12.6	
MW-105	11-96	N/A	1935.82	1676.45	10.07	8.92	-4.5	-14.0	-15.5	
MW-106	11-96	9-97	1422.63	1662.65	9.50	9.07	-1.0	-11.0	-13.5	Well was abandoned to accommodate construction.
MW-107	11-96	10-98	1048.59	1728.86	13.30	12.59	-1.7	-11.7	-12.7	Well was abandoned to accommodate construction.
MW-107R	2-99	N/A	1067.59	1734.64	12.99	12.43	-1.5	-7.0	-10.0	Replacement well for MW-107
MW-108	9-97	4-98	NA	NA	NA	NA	NA	NA	NA	Replacement well for MW-106; well was later damaged during construction activities and abandoned.
MW108R	4-98	N/A	1395.75	1684.25	9.56	8.78	-3.4	-13.4	-14.4	Replacement well for MW-108.
B-4	12-85	N/A	1886.32	1994.74	36.80	36.36	-4.6	-9.6	-12.1	
B-6	12-85	6-99	1406.35	2033.29	34.30	34.08	-0.9	-5.7	NA	Well was abandoned to accommodate construction.
B-6R	11-99	N/A	1501.99	2010.27	34.38	34.38	10.4	-9.6	-17.1	Replacement well for B-6.

NA = Not available
N/A = Not applicable.

(a) Ground surface elevation at time of well installation.
(b) Reference elevation is used for measuring groundwater levels and represents most current survey information.

Note: All elevations are in feet, City of Seattle Datum.

TABLE 2-2

GROUNDWATER ELEVATION SUMMARY
JUNE 2004
UNION STATION

Well	Measuring Point Elevation	Measured Depth to Groundwater	Groundwater Elevation
B-4	36.36	38.96	-2.60
B-6R	34.38	22.49	11.89
MW-101R	9.06	6.29	2.77
MW-102R	8.60	9.75	-1.15
HC-103	8.99	7.45	1.54
MW-104	9.59	10.88	-1.29
MW-105	8.92	9.75	-0.83
MW-107R	12.43	8.27	4.16
MW-108R	8.78	4.60	4.18

Note: All elevations are in feet, City of Seattle Datum.

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-4 CV96H 3/14/2001	B-4 DH51I 6/22/2001	B-4 DQ61G 9/26/2001	B-4 DY69A 12/19/2001	B-4 EE79H 3/20/2002	B-4 EM41H 6/19/2002	B-4 FP47G/P 06/25/03	B-4 GS18I 06/09/04
TPH (µg/L)												
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	4200	6400 J	8000 J	2600	6100	3800	15000	5100
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	1200	2900 J	570	2500 U	620	6800	2000
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	6000	5200	6500	6000 J	5700	5400	3300	1800
PAH (µg/L)												
Benzo(a)anthracene	8270-SIM	1.0		1.0	17	1.0	8.3	1.7	1.4	0.41	NA (*)	NA (*)
Chrysene	8270-SIM	1.0		1.0	16	0.83	7.4	1.5	1.3 J	0.36	NA (*)	NA (*)
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	9.6	0.22	4.3	0.61	0.46	0.10 U	0.77	1.1
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	13	0.33	5.6	1.2	1.0	0.10 U	0.86	1.1
Benzo(a)pyrene	8270-SIM	1.0		1.0	17	0.34	7.2	1.3	1.0	0.12	NA (*)	NA (*)
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	6.8	0.15	3.6	0.57	0.53	0.10 U	0.55	0.44
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	2.1	0.10 U	0.98	0.20 U	0.20 M	0.10 U	0.16	0.28
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	0.46
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.53	0.45
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA (*)	0.41 U
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
SEMIVOLATILES (µg/L)												
Phenol	8270	1100000		10	3.3	2.0 U	4.4	6.3	3.5	5.3	4.1	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	2.2	1.7	1.0 U	1.0 U	1.0 U	17	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	3100	3200	2600 J	2700 J	2400 J	1200	710 J	NA
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	670	510	450	480	510	260	160	NA
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-4 CV96H 3/14/2001	B-4 DH51I 6/22/2001	B-4 DQ61G 9/26/2001	B-4 DY69A 12/19/2001	B-4 EE79H 3/20/2002	B-4 EM41H 6/19/2002	B-4 FP47G/P 06/25/03	B-4 GS18I 06/09/04
Acenaphthylene	8270			10	8.8	2.0	6.5	3.2	3.0	10	1.6	2.9
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	430	350	350	330 J	320	270	120	69
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	23	18	25	20	22	18	10	3.4
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	150	69	120	88	96	78	45	18
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	230	79	130	110	110	69	46	7.8
Carbazole	8270			10	24	20	23	22	22	11	17	9.6
Anthracene	8270	25900		10	28	13	22	16	15	10	9.1	4.6
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
Fluoranthene	8270	27.1		10	42	9.3	23	14	11	9.1	8.3	9.0
Pyrene	8270	777		10	46	9.8	32	14	11	9.1	12	12
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	2.1	2.0
bis(2-Ethylhexyl)phthalate	8270	10		10	1.2	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	2.0	1.7
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	1.1	1.2
Benzo(g,h,i)perylene	8270			10	7.5	1.0 U	3.6	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)												
Chloromethane	8260	133		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	8260	968		10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	8260	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	8260	960		5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	8260			10	200	72	400	860	340	25 U	25 U	25 U
Carbon Disulfide	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	8260			5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	8260	32800		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	8260			5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	8260	470		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	8260	99		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	8260			50 (c)	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,1,1-Trichloroethane	8260	41700		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	8260			50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bromodichloromethane	8260	28		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	8260	23		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-4 CV96H 3/14/2001	B-4 DH51I 6/22/2001	B-4 DQ61G 9/26/2001	B-4 DY69A 12/19/2001	B-4 EE79H 3/20/2002	B-4 EM41H 6/19/2002	B-4 FP47G/P 06/25/03	B-4 GS18I 06/09/04
cis-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	8260	81		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	8260	21		10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	8260	42		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	8260	71	231	5	120	130	140	130	150	130	130	130
trans-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	8260			10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Bromoform	8260	360		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Hexanone	8260			50	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Tetrachloroethene	8260	8.9		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	8260	485		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	8260	5030		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	8260	276		5	200	220	230	190	230	190	160	110
Styrene	8260			5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	8260			10 (c)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m,p-Xylene	8260			5 (d)	5.3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	8260			5 (d)	6.0	5.4	6.0	5.0 U	5.6	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8260	4200		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	8260	2600		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	8260	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	8260	780		500 (c)	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
Methyl Iodide	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoethane	8260			10 (c)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,2,3-Trichloropropane	8260			10 (c)	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
1,3,5-Trimethylbenzene	8260			10 (c)	7.6	6.0	7.0	5.0	6.9	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	8260			10 (c)	12	9.6	11	8.0	9.1	6.6	5.0 U	5.0 U
Hexachlorobutadiene	8260	50		10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Ethylene Dibromide	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	8260			10 (c)	7.9	6.8	8.4	6.0	6.4	5.0 U	5.0 U	5.0 U
n-Propylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
n-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	8260	227		10	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Naphthalene	8260	9880		10	5400	5600	5600	6000	6200 J	3100	2400	1600
1,2,3-Trichlorobenzene	8260			10 (c)	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-4 CV96H 3/14/2001	B-4 DH51I 6/22/2001	B-4 DQ61G 9/26/2001	B-4 DY69A 12/19/2001	B-4 EE79H 3/20/2002	B-4 EM41H 6/19/2002	B-4 FP47G/P 06/25/03	B-4 GS18I 06/09/04
VOLATILES-SIM (µg/L)												
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)												
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Arsenic	200.8	4	36	4	2	3	3	3 J	3	3.2	7	4
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	2 U	2 U	9	2 U	4	1 U	2 U	5 U
Copper	200.8	10		10	3	3	2 U	2 U	2 U	1 U	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	5	5	6	6	9	7.5	7	7
Selenium	200.8	71		20	2 U	2 U	2 U	2 U	2 U	1	2 U	2 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	4 U	20 U	20
Cyanide (µg/L)												
Total Cyanide	335.2	50		50	44	44	43	36	46	74	62	48
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	6	5 U	5	6	9
CONVENTIONALS												
Total Dissolved Solids (µg/L)	160.1				820000 J	810000 J	780000 J	770000	740000	790000	790000	751000
Total Suspended Solids (µg/L)	160.2				1800000	1000000 J	400000	1400000 J	920000	680000	270000	938000
Ortho-Phosphorous (µg-P/L)	365.2				NA	6	NA	NA	NA	NA	NA	NA
pH	Field				NM	NM	NM	NM	NM	NM	NM	NM
Specific Conductance (µmhos)	Field				NM	NM	NM	NM	NM	NM	NM	NM
Temperature (°C)	Field				NM	NM	NM	NM	NM	NM	NM	NM
MAJOR IONS												
Calcium	6010				NA	111000	NA	NA	NA	NA	105000	NA
Magnesium	6010				NA	50500	NA	NA	NA	NA	47500	NA
Potassium	6010				NA	15000	NA	NA	NA	NA	15100	NA
Sodium	6010				NA	122000	NA	NA	NA	NA	115000	NA
Alkalinity (µg/L CaCO3)	2320				NA	NA	NA	NA	NA	NA	600000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	NA	NA	NA	NA	600000	NA
Bromide (µg/L)	4500Br-B				NA	10000 U	NA	NA	NA	NA	1600	NA
Fluoride (µg/L)	340.2				NA	300	NA	NA	NA	NA	300	NA
Chloride (µg/L)	325.2				NA	46000	NA	NA	NA	NA	56000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	4800	NA	NA	NA	NA	7100 J	NA

TABLE 2-3
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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-6R CV96I 3/14/2001	B-6R DH51D 6/22/2001	B-6R DQ61H 9/26/2001	B-6R DY69B 12/19/2001	B-6R EE79I 3/20/2002	MW-109R Dup of B-6R EE79G 3/20/2002	B-6R EM41I 6/19/2002	B-6R FP47H/Q 06/25/03	B-6R GS18J 06/09/04
TPH (µg/L)													
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	250 UJ	250 U	250 U	250 U	250 U	250 U	250	250 U	250 U
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 UJ	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	250 U	250 U	250 U	250 UJ	250 U	250 U	250 U	250 U	250 U
PAH (µg/L)													
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.13 MJ	0.10 U	0.26	0.10 U	0.10 U	0.10 U	0.10 U	0.020	0.035
Chrysene	8270-SIM	1.0		1.0	0.13 J	0.10 U	0.23	0.10 U	0.10 U	0.10 U	0.10 U	0.020	0.030
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.05 J	0.10 U	0.15	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.016
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.08 J	0.10 U	0.16	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.016
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.09 J	0.10 U	0.21	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.023
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.04 J	0.10 U	0.11	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.016
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.090	0.030 U
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA	0.050	0.14 U
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.010 J
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA	0.040	0.065
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.019
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA	0.060	0.081
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA	0.020	0.053
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA	0.14	0.13 U
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.080	0.16
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA	0.080	0.11
SEMIVOLATILES (µg/L)													
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	3.6	1.0 U	7.1 J	4.9 J	4.0 J	2.9 J	1.0 U	NA	NA
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-6R CV96I 3/14/2001	B-6R DH51D 6/22/2001	B-6R DQ61H 9/26/2001	B-6R DY69B 12/19/2001	B-6R EE79I 3/20/2002	MW-109R Dup of B-6R EE79G 3/20/2002	B-6R EM41I 6/19/2002	B-6R FP47H/Q 06/25/03	B-6R GS18J 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	1.0 U	1.0 UJ	1.1	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	1.8	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Carbazole	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	8270	25900		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Pyrene	8270	777		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)													
Chloromethane	8260	133		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromomethane	8260	968		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Chloride	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroethane	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Methylene Chloride	8260	960		5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.3 U
Acetone	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.7	5.0 U	3.8
Carbon Disulfide	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethene	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethane	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
trans-1,2-Dichloroethene	8260	32800		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
cis-1,2-Dichloroethene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroform	8260	470		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloroethane	8260	99		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Butanone	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,1-Trichloroethane	8260	41700		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Carbon Tetrachloride	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Acetate	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.2 U
Bromodichloromethane	8260	28		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloropropane	8260	23		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-6R CV96I 3/14/2001	B-6R DH51D 6/22/2001	B-6R DQ61H 9/26/2001	B-6R DY69B 12/19/2001	B-6R EE79I 3/20/2002	MW-109R Dup of B-6R EE79G 3/20/2002	B-6R EM41I 6/19/2002	B-6R FP47H/Q 06/25/03	B-6R GS18J 06/09/04
cis-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichloroethene	8260	81		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromochloromethane	8260	21		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichloroethane	8260	42		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Benzene	8260	71	231	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
trans-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chloroethylvinylether	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Bromoform	8260	360		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
2-Hexanone	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	8260	8.9		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Toluene	8260	485		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chlorobenzene	8260	5030		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Ethylbenzene	8260	276		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Styrene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichlorofluoromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
m,p-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4 U
o-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2
1,2-Dichlorobenzene	8260	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichlorobenzene	8260	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,4-Dichlorobenzene	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Acrolein	8260	780		500 (c)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	5.0 U
Methyl Iodide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromoethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
Acrylonitrile	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromomethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
1,2,3-Trichloropropane	8260			10 (c)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.5 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,3,5-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2,4-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Hexachlorobutadiene	8260	50		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Ethylene Dibromide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromochloromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2,2-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Isopropylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
n-Propylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromobenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
tert-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
sec-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Isopropyltoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
n-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2,4-Trichlorobenzene	8260	227		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Naphthalene	8260	9880		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
1,2,3-Trichlorobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	B-6R CV96I 3/14/2001	B-6R DH51D 6/22/2001	B-6R DQ61H 9/26/2001	B-6R DY69B 12/19/2001	B-6R EE79I 3/20/2002	MW-109R Dup of B-6R EE79G 3/20/2002	B-6R EM41I 6/19/2002	B-6R FP47H/Q 06/25/03	B-6R GS18J 06/09/04
VOLATILES-SIM (µg/L)													
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)													
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Arsenic	200.8	4	36	4	27	33	31	22 J	27 J	38 J	25	24	30
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	2 U	4	7	2 U	4 J	5 J	2 U	2 U	4
Copper	200.8	10		10	2 U	3	2 U	2 U	3	2 U	1.1	5	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	3	2	3	3	3	4	3.9	5	3
Selenium	200.8	71		20	2 U	2 U	2 U	2 U	2 U	2 U	1.0	2 U	2 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	20 U	6	20 U	20 U
Cyanide (µg/L)													
Total Cyanide	335.2	50		50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	10	5 U	5 U	5 U	5 U	5 U
CONVENTIONALS													
Total Dissolved Solids (µg/L)	160.1				1100000 J	1200000 J	1100000 J	780000	780000 J	1100000 J	890000	790000	923000
Total Suspended Solids (µg/L)	160.2				2400000	370000 J	500000	1400000 J	360000 J	790000 J	1100000	430000	940000
Ortho-Phosphorous (µg-P/L)	365.2				NA	16	NA	NA	NA	NA	NA	NA	NA
pH	Field				7.90	6.66	6.75	NM	6.65	6.90	6.95	7.06	6.89
Specific Conductance (µmhos)	Field				2720	1698	2370	NM	1340	1733	1348	1708	1570
Temperature (°C)	Field				15.1	16.8	16.1	NM	15.0	14.1	16.1	16.8	16.6
MAJOR IONS													
Calcium	6010				NA	57100	NA	NA	NA	NA	NA	48500	NA
Magnesium	6010				NA	43700	NA	NA	NA	NA	NA	40600	NA
Potassium	6010				NA	14600	NA	NA	NA	NA	NA	14400	NA
Sodium	6010				NA	338000	NA	NA	NA	NA	NA	217000	NA
Alkalinity (µg/L CaCO3)	2320				NA	1000000	NA	NA	NA	NA	NA	710000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	NA	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000000	NA	NA	NA	NA	NA	710000	NA
Bromide (µg/L)	4500Br-B				NA	500 U	NA	NA	NA	NA	NA	560	NA
Fluoride (µg/L)	340.2				NA	100	NA	NA	NA	NA	NA	160	NA
Chloride (µg/L)	325.2				NA	46000	NA	NA	NA	NA	NA	27000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	9000	NA	NA	NA	NA	NA	6100 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R CV96A 3/14/2001	MW-101R DH51F 6/22/2001	MW-109 Dup of MW-101R DH51E 6/22/2001	MW-101R DQ61A 9/26/2001	MW-101R DY69C 12/19/2001	MW-101R EE79A 3/20/2002
TPH (µg/L)										
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	3500	2900	2900	3400	2400	3300
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	6000	6100	7400	5300	6300 J	6300
PAH (µg/L)										
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.49	0.27	0.29	0.37	0.16	0.25
Chrysene	8270-SIM	1.0		1.0	0.44	0.18	0.20	0.27	0.15	0.14 J
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.20	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.24	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.30	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.14	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA
SEMIVOLATILES (µg/L)										
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	10 U	50 U	50 U	50 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	3900	3100	3200	4900 J	2000 J	3400 J
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	590	600	570	700	350	570
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R CV96A 3/14/2001	MW-101R DH51F 6/22/2001	MW-109 Dup of MW-101R DH51E 6/22/2001	MW-101R DQ61A 9/26/2001	MW-101R DY69C 12/19/2001	MW-101R EE79A 3/20/2002
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.4	1.5	1.3	2.4	1.0 J	1.5
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	330	330 J	330 J	350	240 J	330
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	10 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	17	19	18	20	19	21
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	58	78	64	70	72	75
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	10 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	59	74	63	73	97	77
Carbazole	8270			10	19	18	18	25	20	20
Anthracene	8270	25900		10	5.7	7.1	6.8	6.0	6.9	7.4
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	5.1	6.1	5.8	5.4	5.4	4.7
Pyrene	8270	777		10	4.8	6.0	5.5	5.2	5.1	4.2
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	2.3	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
VOLATILES (µg/L)										
Chloromethane	8260	133		10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Bromomethane	8260	968		10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Vinyl Chloride	8260	10		10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Chloroethane	8260			10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Methylene Chloride	8260	960		5	10 U	10 U	2.0 U	10 U	10 UJ	10 U
Acetone	8260			10	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Carbon Disulfide	8260			10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1-Dichloroethene	8260	5		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1-Dichloroethane	8260			5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
trans-1,2-Dichloroethene	8260	32800		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
cis-1,2-Dichloroethene	8260			5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Chloroform	8260	470		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,2-Dichloroethane	8260	99		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
2-Butanone	8260			50 (c)	25 U	25 U	5.0 U	25 U	25 UJ	25 U
1,1,1-Trichloroethane	8260	41700		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Carbon Tetrachloride	8260	5		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Vinyl Acetate	8260			50	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Bromodichloromethane	8260	28		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,2-Dichloropropane	8260	23		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R CV96A 3/14/2001	MW-101R DH51F 6/22/2001	MW-109 Dup of MW-101R DH51E 6/22/2001	MW-101R DQ61A 9/26/2001	MW-101R DY69C 12/19/2001	MW-101R EE79A 3/20/2002
cis-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Trichloroethene	8260	81		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Dibromochloromethane	8260	21		10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1,2-Trichloroethane	8260	42		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Benzene	8260	71	231	5	82	72	64	54	48 J	78
trans-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
2-Chloroethylvinylether	8260			10	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Bromoform	8260	360		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	25 U	25 U	5.0 U	25 U	25 UJ	25 U
2-Hexanone	8260			50	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Tetrachloroethene	8260	8.9		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Toluene	8260	485		5	11	14	18	8.4	5.0 UJ	7.6
Chlorobenzene	8260	5030		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Ethylbenzene	8260	276		5	250	250 J	130 J	170	130 J	260
Styrene	8260			5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Trichlorofluoromethane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	10 U	10 U	2.0 U	10 U	10 UJ	10 U
m,p-Xylene	8260			5 (d)	64	83 J	110 J	60	46 J	92
o-Xylene	8260			5 (d)	36	39 J	52 J	27	18 J	37
1,2-Dichlorobenzene	8260	4200		10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,3-Dichlorobenzene	8260	2600		10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,4-Dichlorobenzene	8260	10		10	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Acrolein	8260	780		500 (c)	250 U	250 U	50 U	250 U	250 UJ	250 U
Methyl Iodide	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Bromoethane	8260			10 (c)	10 U	10 U	2.0 U	10 U	10 UJ	10 U
Acrylonitrile	8260	5		5	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1-Dichloropropene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Dibromomethane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	25 U	25 U	5.0 U	25 U	25 UJ	25 U
1,2,3-Trichloropropane	8260			10 (c)	15 U	15 U	3.0 U	15 U	15 UJ	15 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	25 U	25 U	5.0 U	25 U	25 UJ	25 U
1,3,5-Trimethylbenzene	8260			10 (c)	20	19	23	14	11 J	22
1,2,4-Trimethylbenzene	8260			10 (c)	39	37 J	47 J	30	25 J	40
Hexachlorobutadiene	8260	50		10	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Ethylene Dibromide	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Bromochloromethane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
2,2-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,3-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
Isopropylbenzene	8260			10 (c)	11	9.3	9.8	8.6	7.9 J	11
n-Propylbenzene	8260			10 (c)	5.0 U	5.0 U	1.4	5.0 U	5.0 UJ	5.0 U
Bromobenzene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
2-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
4-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
tert-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
sec-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
4-Isopropyltoluene	8260			10 (c)	5.0	5.0 U	4.8	5.0 U	5.0 UJ	5.0 U
n-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	1.0 U	5.0 U	5.0 UJ	5.0 U
1,2,4-Trichlorobenzene	8260	227		10	25 U	25 U	5.0 U	25 U	25 UJ	25 U
Naphthalene	8260	9880		10	6400	7800	7000 J	3700	5200	6600 J
1,2,3-Trichlorobenzene	8260			10 (c)	25 U	25 U	5.0 U	25 U	25 UJ	25 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R CV96A 3/14/2001	MW-101R DH51F 6/22/2001	MW-109 Dup of MW-101R DH51E 6/22/2001	MW-101R DQ61A 9/26/2001	MW-101R DY69C 12/19/2001	MW-101R EE79A 3/20/2002
VOLATILES-SIM (µg/L)										
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)										
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	200.8	4	36	4	12	12	12	14	10 J	11
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	1 U
Chromium	200.8	50		50	4	5	4	7	2 U	7
Copper	200.8	10		10	2 U	2 U	2 U	2 U	3	3
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	200.8	10		10	2 U	2 U	2 U	2 U	2 U	2 U
Selenium	200.8	71		20	2 U	3	2 U	2 U	3 J	2 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	20 U
Cyanide (µg/L)										
Total Cyanide	335.2	50		50	18	17	19	18	15	16
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	6	5 U
CONVENTIONALS										
Total Dissolved Solids (µg/L)	160.1				1000000 J	1000000 J	1100000 J	1000000 J	1100000	970000
Total Suspended Solids (µg/L)	160.2				76000	76000 J	98000 J	79000	65000 J	71000
Ortho-Phosphorous (µg-P/L)	365.2				NA	11 J	21 J	NA	NA	NA
pH	Field				7.46	6.83	6.81	7.25	NM	6.70
Specific Conductance (µmhos)	Field				1918	2535	2908	2310	NM	2540
Temperature (°C)	Field				12.8	14.8	14.9	16.4	NM	14.2
MAJOR IONS										
Calcium	6010				NA	62900	60900	NA	NA	NA
Magnesium	6010				NA	54200	52900	NA	NA	NA
Potassium	6010				NA	15900	15900	NA	NA	NA
Sodium	6010				NA	294000	294000	NA	NA	NA
Alkalinity (µg/L CaCO3)	2320				NA	760000	780000	NA	NA	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	1000 U	NA	NA	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	760000	780000	NA	NA	NA
Bromide (µg/L)	4500Br-B				NA	10000 U	10000 U	NA	NA	NA
Fluoride (µg/L)	340.2				NA	500	500	NA	NA	NA
Chloride (µg/L)	325.2				NA	150000	130000	NA	NA	NA
N-Nitrate (µg-N/L)	Calculated				NA	13	10 U	NA	NA	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	10 U	NA	NA	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	13	10 U	NA	NA	NA
Sulfate (µg/L)	375.2				NA	10000	9100	NA	NA	NA

TABLE 2-3
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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R EM41A 6/19/2002	MW-109 Dup of MW-101R EM41B 6/19/2002	MW-101R FP47A/J 06/25/03	MW-109 Dup of MW-101R FP47F/O 06/25/03	MW-101R GS18F 06/09/04	MW-109 Dup of MW-101R GS18G 06/09/04
TPH (µg/L)										
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	4200	3800	3800	3900	2700	2600
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	5400	5400	4800	4800	4100	4100
PAH (µg/L)										
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.17	0.17	0.20	0.20	0.23	0.25
Chrysene	8270-SIM	1.0		1.0	0.14	0.13	0.15	0.13	0.16	0.17
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.030	0.020	0.048 J	0.048 J
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.030	0.040	0.048 J	0.071
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.040	0.040	0.052	0.060
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.010 U	0.010 U	0.050 U	0.050 U
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.010 U	0.010 U	0.050 U	0.050 U
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	0.58 J	0.53 J	2.0 (*)	2.3
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	0.010 U	0.010 U	0.050 U	0.050 U
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Phenanthrene	8270-SIM			10	NA	NA	NA	NA (*)	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA (*)	NA (*)	NA (*)
SEMIVOLATILES (µg/L)										
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0	6.4	5.6
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	50 U	50 U	50 U	50 U	10 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	3200	3400	2900 J	2000 J	1800	1800
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	530	530	490 J	600 J	280	290
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R EM41A 6/19/2002	MW-109 Dup of MW-101R EM41B 6/19/2002	MW-101R FP47A/J 06/25/03	MW-109 Dup of MW-101R FP47F/O 06/25/03	MW-101R GS18F 06/09/04	MW-109 Dup of MW-101R GS18G 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	2.4	2.1	NA	NA	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	310	310	260	280	250	260
2,4-Dinitrophenol	8270	3460		50	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	30	23	25	26	18	20
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	83	88	79	90	72	79
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	92	99	63	68	66	75
Carbazole	8270			10	20	18	24	25	20	23
Anthracene	8270	25900		10	6.5	6.4	7.2	8.2	6.5	7.6
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	5.4	5.2	5.4	5.3	5.0	5.6
Pyrene	8270	777		10	5.0	5.2	6.1	6.1	4.6	5.3
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	NA	NA	NA	NA
VOLATILES (µg/L)										
Chloromethane	8260	133		10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Bromomethane	8260	968		10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Vinyl Chloride	8260	10		10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Chloroethane	8260			10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Methylene Chloride	8260	960		5	10 U	10 U	10 U	2.0 U	10 U	10 U
Acetone	8260			10	25 U	25 U	25 U	5.0 U	25 U	25 U
Carbon Disulfide	8260			10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1-Dichloroethene	8260	5		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1-Dichloroethane	8260			5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	8260	32800		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	8260			5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Chloroform	8260	470		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,2-Dichloroethane	8260	99		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
2-Butanone	8260			50 (c)	25 U	25 U	25 U	5.0 U	25 U	25 U
1,1,1-Trichloroethane	8260	41700		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Carbon Tetrachloride	8260	5		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Vinyl Acetate	8260			50	25 U	25 U	25 U	5.0 U	25 U	25 U
Bromodichloromethane	8260	28		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,2-Dichloropropane	8260	23		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R EM41A 6/19/2002	MW-109 Dup of MW-101R EM41B 6/19/2002	MW-101R FP47A/J 06/25/03	MW-109 Dup of MW-101R FP47F/O 06/25/03	MW-101R GS18F 06/09/04	MW-109 Dup of MW-101R GS18G 06/09/04
cis-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Trichloroethene	8260	81		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Dibromochloromethane	8260	21		10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	8260	42		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Benzene	8260	71	231	5	70	69	89	96	90	92
trans-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	8260			10	25 U	25 U	25 U	5.0 U	25 U	25 U
Bromoform	8260	360		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	25 U	25 U	25 U	5.0 U	25 U	25 U
2-Hexanone	8260			50	25 U	25 U	25 U	5.0 U	25 U	25 U
Tetrachloroethene	8260	8.9		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Toluene	8260	485		5	5.7	5.5	5.0 U	4.1	5.5	6.0
Chlorobenzene	8260	5030		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Ethylbenzene	8260	276		5	250	240	300	260	210	230
Styrene	8260			5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Trichlorofluoromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	10 U	10 U	10 U	2.0 U	10 U	10 U
m,p-Xylene	8260			5 (d)	46	43	45	48	38	43
o-Xylene	8260			5 (d)	23	22	17	19	17	19
1,2-Dichlorobenzene	8260	4200		10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	8260	2600		10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	8260	10		10	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Acrolein	8260	780		500 (c)	250 U	250 U	250 U	50 U	250 U	250 U
Methyl Iodide	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Bromoethane	8260			10 (c)	10 U	10 U	10 U	2.0 U	10 U	10 U
Acrylonitrile	8260	5		5	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1-Dichloropropene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Dibromomethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	25 U	25 U	25 U	5.0 U	25 U	25 U
1,2,3-Trichloropropane	8260			10 (c)	15 U	15 U	15 U	3.0 U	15 U	15 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	25 U	25 U	25 U	5.0 U	25 U	25 U
1,3,5-Trimethylbenzene	8260			10 (c)	28 J	17 J	16	18	13	13
1,2,4-Trimethylbenzene	8260			10 (c)	29	28	30 J	38 J	25	26
Hexachlorobutadiene	8260	50		10	25 U	25 U	25 U	5.0 U	25 U	25 U
Ethylene Dibromide	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Bromochloromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
2,2-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,3-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
Isopropylbenzene	8260			10 (c)	7.3	7.0	9.0 J	12 J	11	10
n-Propylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.9	5.0 U	5.0 U
Bromobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
2-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
4-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
tert-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
sec-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
4-Isopropyltoluene	8260			10 (c)	5.0 U	5.0 U	5.3 J	7.1 J	5.0 U	5.0 U
n-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	8260	227		10	25 U	25 U	25 U	5.0 U	25 U	25 U
Naphthalene	8260	9880		10	5600	5400	7000	6700	4500	5900 J
1,2,3-Trichlorobenzene	8260			10 (c)	25 U	25 U	25 U	5.0 U	25 U	25 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-101R EM41A 6/19/2002	MW-109 Dup of MW-101R EM41B 6/19/2002	MW-101R FP47A/J 06/25/03	MW-109 Dup of MW-101R FP47F/O 06/25/03	MW-101R GS18F 06/09/04	MW-109 Dup of MW-101R GS18G 06/09/04
VOLATILES-SIM (µg/L)										
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)										
Antimony	200.8	4300		10	0.2 U	0.2 U	1 U	1 U	1 U	1 U
Arsenic	200.8	4	36	4	10	11	11	11	12	12
Beryllium	200.8	2		2	0.2 U	0.2 U	1 U	1 U	1 U	1 U
Cadmium	200.8	8		2	0.2 U	0.2 U	1 U	1 U	1 U	1 U
Chromium	200.8	50		50	1 U	1 U	2 U	3	6	7
Copper	200.8	10		10	0.5 U	0.5 U	3	2 U	2 U	2 U
Lead	200.8	10		10	1 U	1 U	5 U	5 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.10 U	0.10 U	0.1 U	0.1 U
Nickel	200.8	10		10	3.1 J	2.2 J	2 U	2 U	3	3
Selenium	200.8	71		20	2 U	2 U	2 U	2 U	5	5
Silver	200.8	2		2	0.5 U	0.5 U	2 U	2 U	2 U	2 U
Zinc	200.8	77		20	4 U	4 U	20 U	20 U	20 U	20 U
Cyanide (µg/L)										
Total Cyanide	335.2	50		50	19	20	21	23	18	18
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	9	8
CONVENTIONALS										
Total Dissolved Solids (µg/L)	160.1				1000000	1000000	960000	950000	1,250,000	1390000
Total Suspended Solids (µg/L)	160.2				72000	72000	79000	78000	284,000 J	90100 J
Ortho-Phosphorous (µg-P/L)	365.2				NA	NA	NA	NA	NA	NA
pH	Field				6.92	6.98	6.96	6.96	6.67	6.67
Specific Conductance (µmhos)	Field				1860	2418	1510	1510	2012	15.27
Temperature (°C)	Field				12.8	13.6	14.8	14.8	15.3	2012
MAJOR IONS										
Calcium	6010				NA	NA	37600	39200	NA	NA
Magnesium	6010				NA	NA	39600	40600	NA	NA
Potassium	6010				NA	NA	13700	14000	NA	NA
Sodium	6010				NA	NA	253000	255000	NA	NA
Alkalinity (µg/L CaCO3)	2320				NA	NA	720000	710000	NA	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	1000 U	1000 U	NA	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	720000	710000	NA	NA
Bromide (µg/L)	4500Br-B				NA	NA	5000 U	5000 U	NA	NA
Fluoride (µg/L)	340.2				NA	NA	730	650	NA	NA
Chloride (µg/L)	325.2				NA	NA	100000	100000	NA	NA
N-Nitrate (µg-N/L)	Calculated				NA	NA	10 U	10 U	NA	NA
N-Nitrite (µg-N/L)	354.1				NA	NA	10 U	10 U	NA	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	NA	10 U	10 U	NA	NA
Sulfate (µg/L)	375.2				NA	NA	14000 J	13000 J	NA	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW102R CV96B 3/14/2001	MW102R DH51B 6/22/2001	MW-102R DQ61B 9/26/2001	MW-109 Dup of MW102R DQ61I 9/26/2001	MW-102R DY69D 12/19/2001	MW-102R EE79B 3/20/2002	MW-102R EM41C 6/19/2002	MW-102R FP47B/K 06/25/03	MW-102R GS18E 06/09/04
TPH (µg/L)													
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	320	320	340	320	370	300	400	400	250 U
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	250 U	250 U	250 U	250 UJ	250 UJ	250 U	250 U	250 U	250 U
PAH (µg/L)													
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.030 J	0.12
Chrysene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.020 J	0.098
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 UJ	0.064
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 UJ	0.068
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 UJ	0.064
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 UJ	0.069
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 UJ	0.074
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.12 J	0.67
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.16 J	0.28
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA	0.84 J	0.98
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.010 UJ	0.059
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA	0.48 J	NA (*)
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA	0.060 UJ	0.24 U
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA	0.40 J	0.85
SEMIVOLATILES (µg/L)													
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	1.7	1.0 U	8.4 J	1.0 J	12 J	22 J	1.5	NA	NA
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	1.0 U	1.0 U	1.8	1.0 U	2.1	2.6	1.0 U	NA	NA
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW102R CV96B 3/14/2001	MW102R DH51B 6/22/2001	MW-102R DQ61B 9/26/2001	MW-109 Dup of MW102R DQ61I 9/26/2001	MW-102R DY69D 12/19/2001	MW-102R EE79B 3/20/2002	MW-102R EM41C 6/19/2002	MW-102R FP47B/K 06/25/03	MW-102R GS18E 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	13	12 J	11	12	15 J	17	13	11	13
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	1.5	1.3	1.1	1.1	1.4	1.4	1.2	1.2	1.0
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	2.9	3.2	2.9	3.0	3.4	3.7	2.6	2.9	3.2
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	1.0 U	4.3	4.3	4.3	3.3	3.8	1.0 U	2.7	3.8
Carbazole	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	8270	25900		10	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.1	1.0 U	NA	NA
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	1.0	1.0 U	1.0	1.1	1.0 U	1.0 U	1.0 U	NA	1.0
Pyrene	8270	777		10	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	NA	NA
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	7.9	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)													
Chloromethane	8260	133		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromomethane	8260	968		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Chloride	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroethane	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Methylene Chloride	8260	960		5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.1	2.0 U	0.3 U
Acetone	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	6.7	8.9	18	3.2
Carbon Disulfide	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethene	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethane	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
trans-1,2-Dichloroethene	8260	32800		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
cis-1,2-Dichloroethene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroform	8260	470		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloroethane	8260	99		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Butanone	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,1-Trichloroethane	8260	41700		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Carbon Tetrachloride	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Acetate	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.2 U
Bromodichloromethane	8260	28		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloropropane	8260	23		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U

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Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW102R CV96B 3/14/2001	MW102R DH51B 6/22/2001	MW-102R DQ61B 9/26/2001	MW-109 Dup of MW102R DQ61I 9/26/2001	MW-102R DY69D 12/19/2001	MW-102R EE79B 3/20/2002	MW-102R EM41C 6/19/2002	MW-102R FP47B/K 06/25/03	MW-102R GS18E 06/09/04
cis-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichloroethene	8260	81		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromochloromethane	8260	21		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichloroethane	8260	42		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Benzene	8260	71	231	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
trans-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chloroethylvinylether	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Bromoform	8260	360		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
2-Hexanone	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	8260	8.9		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Toluene	8260	485		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chlorobenzene	8260	5030		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Ethylbenzene	8260	276		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Styrene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichlorofluoromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
m,p-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.4 U
o-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichlorobenzene	8260	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichlorobenzene	8260	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,4-Dichlorobenzene	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Acrolein	8260	780		500 (c)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	5.0 U
Methyl Iodide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromoethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
Acrylonitrile	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromomethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
1,2,3-Trichloropropane	8260			10 (c)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.5 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,3,5-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2,4-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2
Hexachlorobutadiene	8260	50		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Ethylene Dibromide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromochloromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2,2-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Isopropylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
n-Propylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromobenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
tert-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
sec-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Isopropyltoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
n-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2,4-Trichlorobenzene	8260	227		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Naphthalene	8260	9880		10	5.0 U	5.0 U	5.0 U	6.9	11	11 J	5.0 U	5.0 U	0.5 U
1,2,3-Trichlorobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW102R CV96B 3/14/2001	MW102R DH51B 6/22/2001	MW-102R DQ61B 9/26/2001	MW-109 Dup of MW102R DQ61I 9/26/2001	MW-102R DY69D 12/19/2001	MW-102R EE79B 3/20/2002	MW-102R EM41C 6/19/2002	MW-102R FP47B/K 06/25/03	MW-102R GS18E 06/09/04
VOLATILES-SIM (µg/L)													
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)													
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Arsenic	200.8	4	36	4	6	7	11	11	3 J	5	4	2 U	6
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	6	4	14 J	18 J	2 U	8	2 U	4	10
Copper	200.8	10		10	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	4	4	4	5	4	4	5.1 J	2 U	5
Selenium	200.8	71		20	10 U	7	8	9	10 U	7	5 U	10 U	10 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	20 U	4 U	20 U	20 U
Cyanide (µg/L)													
Total Cyanide	335.2	50		50	13	13	12	11	14	8	10	8	9
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	6	5 U	5 U	4	5
CONVENTIONALS													
Total Dissolved Solids (µg/L)	160.1				2100000 J	2100000 J	2100000 J	2000000 J	1900000	1800000	1900000	1500000	1590000
Total Suspended Solids (µg/L)	160.2				53000	67000 J	72000	83000	61000 J	51000	41000	51000	40600
Ortho-Phosphorous (µg-P/L)	365.2				NA	4 U	NA	NA	NA	NA	NA	NA	NA
pH	Field				7.23	6.60	6.53	6.53	6.47	6.64	6.70	6.80	6.65
Specific Conductance (µmhos)	Field				3920	3875	3750	3750	3740	3090	3753	2710	2415
Temperature (°C)	Field				14.5	16.0	16.2	16.1	15.1	14.2	15.0	15.6	15.9
MAJOR IONS													
Calcium	6010				NA	239000	NA	NA	NA	NA	NA	142000	NA
Magnesium	6010				NA	71000	NA	NA	NA	NA	NA	44200	NA
Potassium	6010				NA	17700	NA	NA	NA	NA	NA	14000	NA
Sodium	6010				NA	484000	NA	NA	NA	NA	NA	352000	NA
Alkalinity (µg/L CaCO3)	2320				NA	820000	NA	NA	NA	NA	NA	660000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	NA	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	820000	NA	NA	NA	NA	NA	660000	NA
Bromide (µg/L)	4500Br-B				NA	50000 U	NA	NA	NA	NA	NA	100 U	NA
Fluoride (µg/L)	340.2				NA	200	NA	NA	NA	NA	NA	310	NA
Chloride (µg/L)	325.2				NA	730000	NA	NA	NA	NA	NA	510000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	8100	NA	NA	NA	NA	NA	7500 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-104 CV96C 3/14/2001	MW-104 DH51C 6/22/2001	MW-104 DQ61C 9/26/2001	MW-104 DY69E 12/19/2001	MW-104 EE79C 3/20/2002	MW-104 EM41D 6/19/2002	MW-104 FP47C/L 06/25/03	MW-104 GS18B 06/09/04
TPH (µg/L)												
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	560	380	390	470	480	360	460	260
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	370	310	260	260 J	290	250 U	250 U	250 U
PAH (µg/L)												
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.11	0.13	0.10 U	0.10 U	0.10 U	0.10 U	0.090	0.070
Chrysene	8270-SIM	1.0		1.0	0.10	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.060	0.047
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.010 U
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.47	0.70
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	0.77	0.010 U
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.010 U	0.010 U
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	0.40	0.75 U
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.010 U	0.36
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
SEMIVOLATILES (µg/L)												
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U	NA	NA
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	1.0 U	1.0 U	4.9	1.0 U	2.0	1.0 U	9.3	1.5
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-104 CV96C 3/14/2001	MW-104 DH51C 6/22/2001	MW-104 DQ61C 9/26/2001	MW-104 DY69E 12/19/2001	MW-104 EE79C 3/20/2002	MW-104 EM41D 6/19/2002	MW-104 FP47C/L 06/25/03	MW-104 GS18B 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.1	1.0 U	1.4	1.0 U	1.0 U	2.3	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	40	43 J	46	64 J	50	50	48	45
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	5.8	6.9	6.9	6.9	7.2	5.3	6.1	3.2
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	11	11	10	11	10	6.8	8.5	4.0
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	3.1	1.0 U	1.6	1.0 U	1.2	1.0 U	NA	NA
Carbazole	8270			10	6.8	4.0	5.0	1.4	2.6	1.0 U	10	9.1
Anthracene	8270	25900		10	1.2	1.3	1.0	1.1	1.2	1.0 U	NA	NA
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	1.6	1.5	1.5	1.7	1.4	1.4	1.4	1.4
Pyrene	8270	777		10	1.2	1.1	1.1	1.4	1.0	1.1	1.3	1.1
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)												
Chloromethane	8260	133		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromomethane	8260	968		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Chloride	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroethane	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Methylene Chloride	8260	960		5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.3 U
Acetone	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Carbon Disulfide	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethene	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1-Dichloroethane	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
trans-1,2-Dichloroethene	8260	32800		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
cis-1,2-Dichloroethene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chloroform	8260	470		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloroethane	8260	99		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Butanone	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,1,1-Trichloroethane	8260	41700		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Carbon Tetrachloride	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Vinyl Acetate	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.2 U
Bromodichloromethane	8260	28		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichloropropane	8260	23		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-104 CV96C 3/14/2001	MW-104 DH51C 6/22/2001	MW-104 DQ61C 9/26/2001	MW-104 DY69E 12/19/2001	MW-104 EE79C 3/20/2002	MW-104 EM41D 6/19/2002	MW-104 FP47C/L 06/25/03	MW-104 GS18B 06/09/04
cis-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichloroethene	8260	81		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromochloromethane	8260	21		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichloroethane	8260	42		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Benzene	8260	71	231	5	1.9	1.7	1.0	1.6	2.1	1.1	1.5	0.7
trans-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chloroethylvinylether	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Bromoform	8260	360		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
2-Hexanone	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
Tetrachloroethene	8260	8.9		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Toluene	8260	485		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Chlorobenzene	8260	5030		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Ethylbenzene	8260	276		5	1.2	1.5	1.0 U	1.0 U	1.4	1.0 U	1.1	0.6
Styrene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Trichlorofluoromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
m,p-Xylene	8260			5 (d)	3.1	2.2	1.8	1.9	2.7	1.9	1.6	1.5
o-Xylene	8260			5 (d)	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dichlorobenzene	8260	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichlorobenzene	8260	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,4-Dichlorobenzene	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Acrolein	8260	780		500 (c)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	5.0 U
Methyl Iodide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromoethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 U
Acrylonitrile	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Dibromomethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.0 U
1,2,3-Trichloropropane	8260			10 (c)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.5 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U
1,3,5-Trimethylbenzene	8260			10 (c)	1.6	1.4	1.1	1.2	1.6	1.2 J	1.2	1.3
1,2,4-Trimethylbenzene	8260			10 (c)	5.7	3.3	3.0	2.1	2.4	1.1	1.0 U	0.4
Hexachlorobutadiene	8260	50		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Ethylene Dibromide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Bromochloromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2,2-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,3-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
Isopropylbenzene	8260			10 (c)	1.5	1.2	1.0	1.1	1.5	1.0 U	1.1 J	1.3
n-Propylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2
Bromobenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
2-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
tert-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
sec-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
4-Isopropyltoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
n-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U
1,2,4-Trichlorobenzene	8260	227		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U
Naphthalene	8260	9880		10	120	100	44	67	70 J	19	17	2.2
1,2,3-Trichlorobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.5 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-104 CV96C 3/14/2001	MW-104 DH51C 6/22/2001	MW-104 DQ61C 9/26/2001	MW-104 DY69E 12/19/2001	MW-104 EE79C 3/20/2002	MW-104 EM41D 6/19/2002	MW-104 FP47C/L 06/25/03	MW-104 GS18B 06/09/04
VOLATILES-SIM (µg/L)												
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)												
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Arsenic	200.8	4	36	4	1	1	1	1 J	1	1.0	1	2
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	2 U	2 U	3	2 U	3	2 U	2 U	12
Copper	200.8	10		10	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	2 U	2 U	2 U	2 U	2 U	1.3 J	2 U	2 U
Selenium	200.8	71		20	2 U	2 U	2 U	2 U	2 U	1.1	2 U	2 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	4 U	20 U	20 U
Cyanide (µg/L)												
Total Cyanide	335.2	50		50	11	9	7	11	10	10	8	5
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CONVENTIONALS												
Total Dissolved Solids (µg/L)	160.1				570000 J	550000 J	530000 J	550000	530000	530000	510000	500000
Total Suspended Solids (µg/L)	160.2				12000	19000 J	5100	11000 J	19000	4900	6200	7900
Ortho-Phosphorous (µg-P/L)	365.2				NA	22	NA	NA	NA	NA	NA	NA
pH	Field				7.59	6.74	7.26	6.82	7.27	7.32	7.26	6.86
Specific Conductance (µmhos)	Field				1170	955	1020	1270	920	1088	641	930
Temperature (°C)	Field				13.1	14.7	16.5	13.2	11.4	14.6	15.4	15.2
MAJOR IONS												
Calcium	6010				NA	49000	NA	NA	NA	NA	40100	NA
Magnesium	6010				NA	23600	NA	NA	NA	NA	19200	NA
Potassium	6010				NA	19400	NA	NA	NA	NA	16800	NA
Sodium	6010				NA	104000	NA	NA	NA	NA	94100	NA
Alkalinity (µg/L CaCO3)	2320				NA	360000	NA	NA	NA	NA	340000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	360000	NA	NA	NA	NA	340000	NA
Bromide (µg/L)	4500Br-B				NA	50000 U	NA	NA	NA	NA	5000 U	NA
Fluoride (µg/L)	340.2				NA	200	NA	NA	NA	NA	220	NA
Chloride (µg/L)	325.2				NA	68000	NA	NA	NA	NA	80000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	13000	NA	NA	NA	NA	4000 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-105 CV96D 3/14/2001	MW-105 DH51G 6/22/2001	MW-105 DQ61D 9/26/2001	MW-105 DY69F 12/19/2001	MW-105 EE79D 3/20/2002	MW-105 EM41E 6/19/2002	MW-105 FP47D/M 06/25/03	MW-105 GS18D 06/09/04
TPH (µg/L)												
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	1200	1200	1600	1400	1600	1500	1400	760
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	2700	2400 J	2300 J	2100 J	2000	1600 J	1500	1100
PAH (µg/L)												
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.76	0.52	0.41	0.77 J	0.85	0.24	0.24	0.46
Chrysene	8270-SIM	1.0		1.0	0.69	0.35	0.27	0.56 J	0.66 J	0.16	0.15	0.28
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.23	0.12	0.10 U	0.20 J	0.17	0.10 U	0.030	0.10
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.35	0.13	0.10 U	0.32 J	0.36	0.10 U	0.040	0.12
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.36	0.15	0.10 U	0.40 J	0.41	0.10 U	0.040	0.14
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.15	0.10 U	0.10 U	0.19 J	0.15	0.10 U	0.010 U	0.068
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.010 U	0.053
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.29 J	0.98
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	0.010 U	0.062
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
SEMIVOLATILES (µg/L)												
Phenol	8270	1100000		10	4.8	2.0 U	6.3	4.9	2.0 U	8.2	7.0	8.9
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	32	30	22	12	12	10	4.1	4.9
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	1000	770	610 J	860 J	940 J	410	480 J	540
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	130	110	89	74	96	76	71	62
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-105 CV96D 3/14/2001	MW-105 DH51G 6/22/2001	MW-105 DQ61D 9/26/2001	MW-105 DY69F 12/19/2001	MW-105 EE79D 3/20/2002	MW-105 EM41E 6/19/2002	MW-105 FP47D/M 06/25/03	MW-105 GS18D 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.6	1.2	1.7	1.2	1.0 U	1.1	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	67	70	67	80 J	79	75	54	48
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	23	21	21	23	22	22	17	13
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	32	32	29	35	30	32	24	20
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	58	59	60	73	65	57	40	34
Carbazole	8270			10	31	24	29	28	27	23	21	23
Anthracene	8270	25900		10	8.1	7.0	6.4	9.6	8.1	5.8	5.6	4.8
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	11	9.5	8.1	11	11	7.4	5.9	6.5
Pyrene	8270	777		10	9.6	8.1	6.6	9.8	8.2	6.8	6.1	5.7
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)												
Chloromethane	8260	133		10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	8260	968		10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	8260	10		10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	8260			10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	8260	960		5	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Acetone	8260			10	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Carbon Disulfide	8260			10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	8260			5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	8260	32800		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	8260			5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	8260	470		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	8260	99		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	8260			50 (c)	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,1,1-Trichloroethane	8260	41700		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	8260			50	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Bromodichloromethane	8260	28		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	8260	23		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U

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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-105 CV96D 3/14/2001	MW-105 DH51G 6/22/2001	MW-105 DQ61D 9/26/2001	MW-105 DY69F 12/19/2001	MW-105 EE79D 3/20/2002	MW-105 EM41E 6/19/2002	MW-105 FP47D/M 06/25/03	MW-105 GS18D 06/09/04
cis-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	8260	81		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	8260	21		10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	8260	42		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	8260	71	231	5	310	390	330	270 J	330	220	310	340
trans-1,3-Dichloropropene	8260	19		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	8260			10	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Bromoform	8260	360		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
2-Hexanone	8260			50	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Tetrachloroethene	8260	8.9		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	8260	485		5	30	23	33	18 J	29	22	32	41
Chlorobenzene	8260	5030		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	8260	276		5	76	82	69	56 J	68	50	52	49
Styrene	8260			5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
m,p-Xylene	8260			5 (d)	69	60	56	38 J	47	36	37	39
o-Xylene	8260			5 (d)	42	42	37	29 J	29	21	19	15
1,2-Dichlorobenzene	8260	4200		10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	8260	2600		10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	8260	10		10	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	8260	780		500 (c)	250 U	250 U	250 U	250 UJ	250 U	250 U	250 U	250 U
Methyl Iodide	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromoethane	8260			10 (c)	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Acrylonitrile	8260	5		5	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,2,3-Trichloropropane	8260			10 (c)	15 U	15 U	15 U	15 UJ	15 U	15 U	15 U	15 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,3,5-Trimethylbenzene	8260			10 (c)	11	7.8	7.8	5.4 J	7.5	5.4 J	5.5	5.0
1,2,4-Trimethylbenzene	8260			10 (c)	30	24	22	17 J	20	15	15	12
Hexachlorobutadiene	8260	50		10	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Ethylene Dibromide	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2,2-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropane	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	8260			10 (c)	5.0	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
n-Propylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
n-Butylbenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	8260	227		10	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Naphthalene	8260	9880		10	1900	2300	1700	2300	2200 J	980	1300	1000
1,2,3-Trichlorobenzene	8260			10 (c)	25 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U

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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-105 CV96D 3/14/2001	MW-105 DH51G 6/22/2001	MW-105 DQ61D 9/26/2001	MW-105 DY69F 12/19/2001	MW-105 EE79D 3/20/2002	MW-105 EM41E 6/19/2002	MW-105 FP47D/M 06/25/03	MW-105 GS18D 06/09/04
VOLATILES-SIM (µg/L)												
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)												
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	0.4	1 U	1 U
Arsenic	200.8	4	36	4	14	14	14	18 J	19	12	12	17
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	7	9	21	3	14	2 U	6	20
Copper	200.8	10		10	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	2 U	3	2 U	3	3	3.2 J	3	3
Selenium	200.8	71		20	10 U	11	17	11 J	13	6	10 U	10 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	5	20 U	20 U
Cyanide (µg/L)												
Total Cyanide	335.2	50		50	7	5	7	18	7	7	5 U	6
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5	5 U	5 U	5 U	5 U
CONVENTIONALS												
Total Dissolved Solids (µg/L)	160.1				3400000 J	3200000 J	3400000 J	2700000	2700000	3300000	2400000	3510000
Total Suspended Solids (µg/L)	160.2				83000	85000 J	100000	110000 J	97000	88000	98000	44900
Ortho-Phosphorous (µg-P/L)	365.2				NA	5	NA	NA	NA	NA	NA	NA
pH	Field				7.26	7.01	6.72	6.73	6.87	6.94	7.08	7
Specific Conductance (µmhos)	Field				7310	7525	6230	5850	5460	6830	6610	5262
Temperature (°C)	Field				15.8	17.6	18.9	16.6	15.8	17.0	17.3	17.2
MAJOR IONS												
Calcium	6010				NA	119000	NA	NA	NA	NA	82100	NA
Magnesium	6010				NA	84900	NA	NA	NA	NA	67900	NA
Potassium	6010				NA	47300	NA	NA	NA	NA	40200	NA
Sodium	6010				NA	891000	NA	NA	NA	NA	777000	NA
Alkalinity (µg/L CaCO3)	2320				NA	1400000	NA	NA	NA	NA	1000000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	140000	NA	NA	NA	NA	1000000	NA
Bromide (µg/L)	4500Br-B				NA	50000 U	NA	NA	NA	NA	5000 U	NA
Fluoride (µg/L)	340.2				NA	400	NA	NA	NA	NA	480	NA
Chloride (µg/L)	325.2				NA	1100000	NA	NA	NA	NA	1000000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	15 U	NA
Sulfate (µg/L)	375.2				NA	11000	NA	NA	NA	NA	12000 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-107R CV96E 3/14/2001	MW-109 Dup of MW-107R CV96G 3/14/2001	MW-107R DH51H 6/22/2001	MW-107R DQ61E 9/26/2001	MW-107R DY69G 12/19/2001	MW-107R EE79E 3/20/2002	MW-107R EM41F 6/19/2002	MW-107R FP47E/N 06/25/03	MW-107R GS18C 06/09/04
TPH (µg/L)													
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	1200	1100	890	1900	630	1200	1000	1400	680
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	1800 J	1400 J	1500	3900	780 J	1200	1700	2500	880
PAH (µg/L)													
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.053
Chrysene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.051
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.050 U
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.050 U
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.050 U
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.050 U
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.050 U
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.30 J	0.47
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.050 U
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA	0.49	0.47
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA	0.44	0.49
SEMIVOLATILES (µg/L)													
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	2200	1900	1300	1400 J	990 J	2200 J	1000	1400 J	1200
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	170	150	130	150	66	150	77	220	140
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-107R CV96E 3/14/2001	MW-109 Dup of MW-107R CV96G 3/14/2001	MW-107R DH51H 6/22/2001	MW-107R DQ61E 9/26/2001	MW-107R DY69G 12/19/2001	MW-107R EE79E 3/20/2002	MW-107R EM41F 6/19/2002	MW-107R FP47E/N 06/25/03	MW-107R GS18C 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	53	53	47	56	38 J	63	43	76	58
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	3.9	4.0	3.0	3.6	2.4	4.2	3.1	6.3	4.0
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	16	17	14	15	10	17	13	27	19
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	12	12	9.8	12	7.6	14	8.8	18	14
Carbazole	8270			10	10	11	7.1	11	4.2	11	5.2	14	8.6
Anthracene	8270	25900		10	1.0	1.0	1.0 U	1.0	1.0 U	1.0	1.0 U	1.4	1.0
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Pyrene	8270	777		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	1.0 U	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.5	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)													
Chloromethane	8260	133		10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	8260	968		10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Chloride	8260	10		10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	8260			10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Methylene Chloride	8260	960		5	10 U	2.0 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Acetone	8260			10	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Carbon Disulfide	8260			10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	8260	5		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	8260			5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	8260	32800		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	8260			5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	8260	470		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	8260	99		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone	8260			50 (c)	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,1,1-Trichloroethane	8260	41700		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	8260	5		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl Acetate	8260			50	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Bromodichloromethane	8260	28		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	8260	23		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U

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Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-107R CV96E 3/14/2001	MW-109 Dup of MW-107R CV96G 3/14/2001	MW-107R DH51H 6/22/2001	MW-107R DQ61E 9/26/2001	MW-107R DY69G 12/19/2001	MW-107R EE79E 3/20/2002	MW-107R EM41F 6/19/2002	MW-107R FP47E/N 06/25/03	MW-107R GS18C 06/09/04
cis-1,3-Dichloropropene	8260	19		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	8260	81		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	8260	21		10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	8260	42		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	8260	71	231	5	5.0 U	1.2	5.0 U	5.7	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	8260	19		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloroethylvinylether	8260			10	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Bromoform	8260	360		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
2-Hexanone	8260			50	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Tetrachloroethene	8260	8.9		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	8260	485		5	8.6	7.6	7.3	22	5.0 UJ	5.0 U	5.0 U	9.0	5.0 U
Chlorobenzene	8260	5030		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	8260	276		5	46	44	47	110	21 J	33	32	72	24
Styrene	8260			5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	10 U	2.0 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
m,p-Xylene	8260			5 (d)	33	33	32	89	15 J	23	23	45	15
o-Xylene	8260			5 (d)	23	23	20	66	11 J	15	13	30	11
1,2-Dichlorobenzene	8260	4200		10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	8260	2600		10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	8260	10		10	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Acrolein	8260	780		500 (c)	250 U	50 U	250 U	250 U	250 UJ	250 U	250 U	250 U	250 U
Methyl Iodide	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromoethane	8260			10 (c)	10 U	2.0 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Acrylonitrile	8260	5		5	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloropropene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,2,3-Trichloropropane	8260			10 (c)	15 U	3.0 U	15 U	15 U	15 UJ	15 U	15 U	15 U	15 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
1,3,5-Trimethylbenzene	8260			10 (c)	7.0	7.0	6.2	17	5.0 UJ	5.5	7.4 J	8.8	5.0 U
1,2,4-Trimethylbenzene	8260			10 (c)	20	20	17	57	8.6 J	14	11	30	12
Hexachlorobutadiene	8260	50		10	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Ethylene Dibromide	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2,2-Dichloropropane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichloropropane	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	8260			10 (c)	5.0 U	1.9	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
n-Propylbenzene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorotoluene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorotoluene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
sec-Butylbenzene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Isopropyltoluene	8260			10 (c)	5.0 U	3.2	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
n-Butylbenzene	8260			10 (c)	5.0 U	1.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	8260	227		10	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U
Naphthalene	8260	9880		10	2700 J	2100 J	2900	3700	2200	2500 J	2500	4800	1200
1,2,3-Trichlorobenzene	8260			10 (c)	25 U	5.0 U	25 U	25 U	25 UJ	25 U	25 U	25 U	25 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-107R CV98E 3/14/2001	MW-109 Dup of MW-107R CV96G 3/14/2001	MW-107R DH51H 6/22/2001	MW-107R DQ61E 9/26/2001	MW-107R DY69G 12/19/2001	MW-107R EE79E 3/20/2002	MW-107R EM41F 6/19/2002	MW-107R FP47E/N 06/25/03	MW-107R GS18C 06/09/04
VOLATILES-SIM (µg/L)													
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)													
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Arsenic	200.8	4	36	4	7	8	8	8	7 J	7	5	3	8
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	6	5	10	12	3	14	2 U	9	10 U
Copper	200.8	10		10	3	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	2 U	2 U	2 U	2 U	2 U	2 U	2.1 J	2 U	2 U
Selenium	200.8	71		20	4	4	4	4	5 J	5	5 U	10 U	6
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	5 U	0.5 U	2 U	2 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	20 U	4 U	20 U	20 U
Cyanide (µg/L)													
Total Cyanide	335.2	50		50	5 U	5 U	5 U	5	9	5 U	5	7	8
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CONVENTIONALS													
Total Dissolved Solids (µg/L)	160.1				1900000 J	1800000 J	1900000 J	1300000 J	1700000	1500000	1800000	1500000	1550000
Total Suspended Solids (µg/L)	160.2				56000	53000	65000 J	63000	53000 J	46000	48000	53000	45800
Ortho-Phosphorous (µg-P/L)	365.2				NA	NA	350	NA	NA	NA	NA	NA	NA
pH	Field				8.22	8.24	6.84	7.31	6.79	6.85	6.90	6.94	6.85
Specific Conductance (µmhos)	Field				4350	4350	3550	2900	3710	2780	3303	2630	2792
Temperature (°C)	Field				12.3	12.3	13.6	14.6	12.4	11.9	13.0	14.0	14
MAJOR IONS													
Calcium	6010				NA	NA	39600	NA	NA	NA	NA	35700	NA
Magnesium	6010				NA	NA	51800	NA	NA	NA	NA	45500	NA
Potassium	6010				NA	NA	22000	NA	NA	NA	NA	19800	NA
Sodium	6010				NA	NA	629000	NA	NA	NA	NA	530000	NA
Alkalinity (µg/L CaCO3)	2320				NA	NA	1000000	NA	NA	NA	NA	880000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	1000 U	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	NA	1000000	NA	NA	NA	NA	880000	NA
Bromide (µg/L)	4500Br-B				NA	NA	50000 U	NA	NA	NA	NA	5000 U	NA
Fluoride (µg/L)	340.2				NA	NA	200	NA	NA	NA	NA	300	NA
Chloride (µg/L)	325.2				NA	NA	520000	NA	NA	NA	NA	500000	NA
N-Nitrate (µg-N/L)	Calculated				NA	NA	10 U	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	NA	10 U	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	NA	10 U	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	NA	10000	NA	NA	NA	NA	12000 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-108R CV96F 3/14/2001	MW-108R DH51A 6/22/2001	MW-108R DQ61F 9/26/2001	MW-108R DY69H 12/19/2001	MW-109R Dup of MW108R DY69I 12/19/2001	MW-108R EE79F 3/20/2002	MW-108R EM41G 6/19/2002	MW-108R FP47I/R 06/25/03	MW-108R GS18H 06/09/04
TPH (µg/L)													
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355	400 (b)	250 U	250 U	250 U	250 U	250 U	250 U	330	250 U	250 U
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (b)	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580	600 (b)	250 U	250 UJ	250 J	250 UJ	250 UJ	250 U	250 UJ	250 U	250 U
PAH (µg/L)													
Benzo(a)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.030	0.10
Chrysene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.020	0.099
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.055
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.074
Benzo(a)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.066
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.070
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.010 U	0.070
2-Methylnaphthalene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthene	8270-SIM	225	485	10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Acenaphthylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.040	0.050 U
Anthracene	8270-SIM	25900		10	NA	NA	NA	NA	NA	NA	NA	0.22	0.29
Benzo(g,h,i)perylene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	0.010 U	0.058
Fluoranthene	8270-SIM	27.1		10	NA	NA	NA	NA	NA	NA	NA	0.16	0.28
Fluorene	8270-SIM	2422		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Naphthalene	8270-SIM	9880		10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Phenanthrene	8270-SIM			10	NA	NA	NA	NA	NA	NA	NA	NA (*)	NA (*)
Pyrene	8270-SIM	777		10	NA	NA	NA	NA	NA	NA	NA	0.21	0.30
SEMIVOLATILES (µg/L)													
Phenol	8270	1100000		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis-(2-Chloroethyl) Ether	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chlorophenol	8270	96.7		10	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8270	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzyl Alcohol	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	8270	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylphenol	8270			10 (c)	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-Oxybis(1-Chloropropane)	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol	8270			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitroso-Di-N-Propylamine	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachloroethane	8270	10		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene	8270	449		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isophorone	8270	600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitrophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	8270	553		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Benzoic Acid	8270			10	10 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	10 U
bis(2-Chloroethoxy) Methane	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenol	8270	191		10	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trichlorobenzene	8270	227		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	8270	9880		10	19	30	22 J	31 J	20 J	27 J	49	33 J	11
4-Chloroaniline	8270			20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Hexachlorobutadiene	8270	50		10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	8270			20	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylnaphthalene	8270			10	4.0	5.4	3.9	4.7	3.7	5.0	7.9	6.2	2.8
Hexachlorocyclopentadiene	8270	4180		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
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03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-108R CV96F 3/14/2001	MW-108R DH51A 6/22/2001	MW-108R DQ61F 9/26/2001	MW-108R DY69H 12/19/2001	MW-109R Dup of MW108R DY69I 12/19/2001	MW-108R EE79F 3/20/2002	MW-108R EM41G 6/19/2002	MW-108R FP47I/R 06/25/03	MW-108R GS18H 06/09/04
2-Nitroaniline	8270			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethylphthalate	8270	72000		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acenaphthylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
3-Nitroaniline	8270			50	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Acenaphthene	8270	225	485	10	2.5	3.8 J	2.6	3.0 J	2.3 J	3.0	4.6	3.3	2.1
2,4-Dinitrophenol	8270	3460		50	10 U	10 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	8270			50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,6-Dinitrotoluene	8270			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	8270	10		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethylphthalate	8270	28400		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluorene	8270	2422		10	1.1	1.1	1.0	1.1	1.0 U	1.0	1.4	1.1	1.0
4-Nitroaniline	8270			20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4,6-Dinitro-2-Methylphenol	8270			50 (c)	10 U	10 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
N-Nitrosodiphenylamine	8270	16		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Bromophenyl-phenylether	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	8270	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	8270	50		50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	8270			10	2.1	1.7	1.8	2.0	1.7	1.6	1.7	1.5	1.9
Carbazole	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	8270	25900		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Di-n-Butylphthalate	8270	2910		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	8270	27.1		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Pyrene	8270	777		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
Butylbenzylphthalate	8270	1250		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3,3'-Dichlorobenzidine	8270	20		20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	8270	10		10	1.0 U	1.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	1.0 U	1.0 U
Chrysene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octyl phthalate	8270			10	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U
Benzo(a)pyrene	8270			1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	8270			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA
VOLATILES (µg/L)													
Chloromethane	8260	133		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	8260	968		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	8260	960		5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	8260			10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	8260	32800		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	8260	470		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	8260	99		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,1-Trichloroethane	8260	41700		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Acetate	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	8260	28		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	8260	23		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-108R CV96F 3/14/2001	MW-108R DH51A 6/22/2001	MW-108R DQ61F 9/26/2001	MW-108R DY69H 12/19/2001	MW-109R Dup of MW108R DY69I 12/19/2001	MW-108R EE79F 3/20/2002	MW-108R EM41G 6/19/2002	MW-108R FP47I/R 06/25/03	MW-108R GS18H 06/09/04
cis-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	8260	81		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	8260	21		10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	8260	42		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	8260	71	231	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	8260	19		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chloroethylvinylether	8260			10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	8260	360		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone (MIBK)	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	8260			50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	8260	8.9		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	8260	6.5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	8260	485		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	8260	5030		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	8260	276		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	1.0 U
Styrene	8260			5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
m,p-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	8260			5 (d)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	8260	4200		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	8260	2600		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	8260	10		10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Acrolein	8260	780		500 (c)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Methyl Iodide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoethane	8260			10 (c)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acrylonitrile	8260	5		5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloropropene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromomethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1,2-Tetrachloroethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,3-Trichloropropane	8260			10 (c)	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
trans-1,4-Dichloro-2-butene	8260			50 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	8260	50		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylene Dibromide	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromochloromethane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropane	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Propylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromobenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
tert-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
sec-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Isopropyltoluene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
n-Butylbenzene	8260			10 (c)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	8260	227		10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	8260	9880		10	28 J	21	28	38	36	30 J	55	110	39
1,2,3-Trichlorobenzene	8260			10 (c)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (µg/L)	Background-based Screening Level (a) (µg/L)	Practical Quantitation Limits (µg/L)	MW-108R CV96F 3/14/2001	MW-108R DH51A 6/22/2001	MW-108R DQ61F 9/26/2001	MW-108R DY69H 12/19/2001	MW-109R Dup of MW108R DY69I 12/19/2001	MW-108R EE79F 3/20/2002	MW-108R EM41G 6/19/2002	MW-108R FP47I/R 06/25/03	MW-108R GS18H 06/09/04
VOLATILES-SIM (µg/L)													
Vinyl Chloride	SW8260-SIM	10		10	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	SW8260-SIM	8.9		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	SW8260-SIM	6.5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	SW8260-SIM	5		5	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED METALS (µg/L)													
Antimony	200.8	4300		10	1 U	1 U	1 U	1 U	1 U	1 U	0.3	1 U	1 U
Arsenic	200.8	4	36	4	4	6	4	9 J	14 J	6	5	2 U	5 U
Beryllium	200.8	2		2	1 U	1 U	1 U	1 U	1 U	1 U	0.5 U	1 U	1 U
Cadmium	200.8	8		2	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	1 U
Chromium	200.8	50		50	9	16	30	12	11	46	2 U	12	54
Copper	200.8	10		10	2 U	2 U	2 U	2 U	2 U	2 U	2	2 U	2 U
Lead	200.8	10		10	5 U	5 U	5 U	5 U	5 U	5 U	2 U	5 U	5 U
Mercury	7470	1		1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.10 U	0.1 U
Nickel	200.8	10		10	4	4	4	4	4	4	5.2 J	5	5
Selenium	200.8	71		20	10	20	10	30 J	43 J	30	20	10 U	20 U
Silver	200.8	2		2	2 U	2 U	2 U	2 U	2 U	2 U	0.5 U	2 U	5 U
Zinc	200.8	77		20	20 U	20 U	20 U	20 U	20 U	20 U	4 U	20 U	20 U
Cyanide (µg/L)													
Total Cyanide	335.2	50		50	5 U	5 U	5 U	6	5 U	5 U	5	11	6
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
CONVENTIONALS													
Total Dissolved Solids (µg/L)	160.1				11000000 J	11000000 J	11000000 J	9900000	9800000	10000000	10000000	11000000	8970000
Total Suspended Solids (µg/L)	160.2				88000	130000 J	99000	130000 J	94000 J	87000	84000	86000	79100
Ortho-Phosphorous (µg-P/L)	365.2				NA	240	NA	NA	NA	NA	NA	NA	NA
pH	Field				7.12	6.72	7.39	6.76	6.77	6.72	6.73	6.71	6.76
Specific Conductance (µmhos)	Field				19675	18925	18800	19300	19300	1800	2548	21100	11900
Temperature (°C)	Field				13.2	15.0	16.2	13.6	13.4	13.1	14.4	15.2	15.4
MAJOR IONS													
Calcium	6010				NA	147000	NA	NA	NA	NA	NA	143000	NA
Magnesium	6010				NA	348000	NA	NA	NA	NA	NA	366000	NA
Potassium	6010				NA	160000	NA	NA	NA	NA	NA	160000	NA
Sodium	6010				NA	2990000	NA	NA	NA	NA	NA	3100000	NA
Alkalinity (µg/L CaCO3)	2320				NA	2900000	NA	NA	NA	NA	NA	3100000	NA
Carbonate (Alkalinity) (µg/L CaCO3)	2320				NA	1000 U	NA	NA	NA	NA	NA	1000 U	NA
Bicarbonate (Alkalinity) (µg/L CaCO3)	2320				NA	2900000	NA	NA	NA	NA	NA	3100000	NA
Bromide (µg/L)	4500Br-B				NA	50000 U	NA	NA	NA	NA	NA	1900	NA
Fluoride (µg/L)	340.2				NA	500	NA	NA	NA	NA	NA	700	NA
Chloride (µg/L)	325.2				NA	5400000	NA	NA	NA	NA	NA	4900000	NA
N-Nitrate (µg-N/L)	Calculated				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
N-Nitrite (µg-N/L)	354.1				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Nitrate+Nitrite (NO2+NO3) (µg-N/L)	353.2				NA	10 U	NA	NA	NA	NA	NA	10 U	NA
Sulfate (µg/L)	375.2				NA	38000	NA	NA	NA	NA	NA	27000 J	NA

TABLE 2-3
SUMMARY OF GROUNDWATER ANALYTICAL DATA
03/01 TO 06/04
UNION STATION

NA = Not analyzed for this constituent.

(*) = Samples were not analyzed by 8270 SIM because concentrations were detected for this sample using method 8270.

NM = Not measured due to insufficient volume.

U = Indicates the compound was undetected at the listed concentration

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

M = Indicates an estimated value of analyte detected and confirmed by analyst with low spectral match parameters.

Note: All metals samples were field filtered.

(a) Screening level is based on the 90th percentile of the background data obtained from well B4 or B6/B6R. The 90th percentile was calculated using MTCA stat Background Module V2.0.

(b) PQL calculated from method detection limit.

(c) PQL based on method reporting limit and PQLs of similar compounds.

(d) PQL identified for total xylenes in CAP.

TABLE 4-1
90TH PERCENTILE VALUES FOR
PETROLEUM-RELATED CONSTITUENTS IN MONITORING WELL B-4

Constituent	Based on Data from Oct. 1997 to June 2004	Based on Data from Oct. 1997 to Dec. 2000
Diesel-Range Petroleum Hydrocarbons	8555	6355
Gasoline-Range Petroleum Hydrocarbons	7868	7580
Benzene	230	231
Acenaphthene	453	485

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B4
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	8	0	0	---	---	2600	15000	6400	3861	5600
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	4	4	50	---	---	1200	6800	3225	2482	2450
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	8	0	0	---	---	1800	6500	4988	1607	5550
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	6	5	1	17	---	---					
Chrysene	8270-SIM	1.0		1.0	6	4	2	33	---	---					
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	3	5	63	---	---					
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	5	3	38	---	---					
Benzo(a)pyrene	8270-SIM	1.0		1.0	6	4	2	33	---	---					
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	2	6	75	---	---					
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	1	7	88	---	---					
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	---	---	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	---	---	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	---	---	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	1	7	88	---	---					
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	---	---	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	---	---	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	---	---	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	---	---	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	---	---	--	--	--	--	--
Naphthalene	8270	9880		10	7	7	0	0	---	---					
4-Chloroaniline	8270			20	8	0	8	100	---	---	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	---	---	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	---	---	--	--	--	--	--
2-Methylnaphthalene	8270			10	7	7	0	0	---	---					
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	---	---	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	---	---	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	---	---	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B4
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	---	---	--	--	--	--	--
Acenaphthylene	8270			10	8	1	7	88	---	---					
3-Nitroaniline	8270			50	8	0	8	100	---	---	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	8	0	0	---	---					
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	---	---	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	---	---	--	--	--	--	--
Dibenzofuran	8270			10	8	7	1	13	---	---					
2,6-Dinitrotoluene	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	---	---	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	---	---	--	--	--	--	--
Fluorene	8270	2422		10	8	8	0	0	---	---					
4-Nitroaniline	8270			20	8	0	8	100	---	---	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	---	---	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	---	---	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	---	---	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	---	---					
Phenanthrene	8270			10	8	7	1	13	---	---					
Carbazole	8270			10	8	7	1	13	---	---					
Anthracene	8270	25900		10	8	6	2	25	---	---					
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	---	---	--	--	--	--	--
Fluoranthene	8270	27		10.0	8	4	4	50	---	---					
Pyrene	8270	777		10	8	6	2	25	---	---					
Butylbenzylphthalate	8270	1250		10	8	0	8	100	---		--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	---	---	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	2	0	2	100	---	---	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Chrysene	8270			1.0	2	0	2	100	---		--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	---		--	--	--	--	--
Benzo(a)pyrene	8270			1.0	2	0	2	100	---		--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	6	0	6	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B4
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	---	---	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	---	---	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	---	---	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	---	---	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	---	---	--	--	--	--	--
Acetone	8260			10	8	5	3	38	---	---					
Carbon Disulfide	8260			10	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	---	---	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	---	---	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	---	---	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	---	---	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	---	---	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	---	---	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	---	---	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	---	---	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	---	---	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	---	---	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	8	0	0	---	---					
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	---	---	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	---	---	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	---	---	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	---	---	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	---	---	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	---	---	--	--	--	--	--
Toluene	8260	485		5	8	0	8	100	---	---	--	--	--	--	--
Chlorobenzene	8260	5030		5	8	0	8	100	---	---	--	--	--	--	--
Ethylbenzene	8260	276		5	8	8	0	0	---	---					
Styrene	8260			5	8	0	8	100	---	---	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	1	7	88	---	---					
o-Xylene	8260			5 (n)	8	4	4	50	---	---					
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	---	---	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	---	---	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	---	---	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B4
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trimethylbenzene	8260			10 (k)	8	2	6	75	---	---					
Hexachlorobutadiene	8260	50		10	8	0	8	100	---	---	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	---	---	--	--	--	--	--
Naphthalene	8260	9880		10	8	8	0	0	---	---					
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	---	---	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	2	6	75	---	---					
Beryllium	200.8	2		2	8	0	8	100	---	---	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	---	---	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	---	---	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	---	---	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	---	---	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	---	---	--	--	--	--	--
Zinc	200.8	77		20	8	1	7	88	---	---					
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	2	6	75	---	---					
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B6R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	0	8	100	---	---	--	--	--	--	--
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	---	---	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	0	8	100	---	---	--	--	--	--	--
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	---	---	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	---	---	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	---	---	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	---	---	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	---	---	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	---	---	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	---	---	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	---	---	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	---	---	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	---	---	--	--	--	--	--
Naphthalene	8270	9880		10	6	0	6	100	---	---	--	--	--	--	--
4-Chloroaniline	8270			20	8	0	8	100	---	---	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	---	---	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	---	---	--	--	--	--	--
2-Methylnaphthalene	8270			10	6	0	6	100	---	---	--	--	--	--	--
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	---	---	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	---	---	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	---	---	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B6R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	---	---	--	--	--	--	--
Acenaphthylene	8270			10	6	0	6	100	---	---	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	---	---	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	6	0	6	100	---	---	--	--	--	--	--
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	---	---	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	---	---	--	--	--	--	--
Dibenzofuran	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,6-Dinitrotoluene	8270			10	8	0	8	100	---	---	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	---	---	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	---	---	--	--	--	--	--
Fluorene	8270	2422		10	6	0	6	100	---	---	--	--	--	--	--
4-Nitroaniline	8270			20	8	0	8	100	---	---	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	---	---	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	---	---	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	---	---	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	---	---	--	--	--	--	--
Phenanthrene	8270			10	6	0	6	100	---	---	--	--	--	--	--
Carbazole	8270			10	8	0	8	100	---	---	--	--	--	--	--
Anthracene	8270	25900		10	6	0	6	100	---	---	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	---	---	--	--	--	--	--
Fluoranthene	8270	27		10.0	6	0	6	100	---	---	--	--	--	--	--
Pyrene	8270	777		10	6	0	6	100	---	---	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	---	---	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	---	---	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	---	---	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	---	---	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	---	---	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	---	---	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	---	---	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	6	0	6	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B6R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	---	---	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	---	---	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	---	---	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	---	---	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	---	---	--	--	--	--	--
Acetone	8260			10	8	0	8	100	---	---	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	---	---	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	---	---	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	---	---	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	---	---	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	---	---	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	---	---	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	---	---	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	---	---	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	---	---	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	---	---	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	0	8	100	---	---	--	--	--	--	--
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	---	---	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	---	---	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	---	---	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	---	---	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	---	---	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	---	---	--	--	--	--	--
Toluene	8260	485		5	8	0	8	100	---	---	--	--	--	--	--
Chlorobenzene	8260	5030		5	8	0	8	100	---	---	--	--	--	--	--
Ethylbenzene	8260	276		5	8	0	8	100	---	---	--	--	--	--	--
Styrene	8260			5	8	0	8	100	---	---	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	0	8	100	---	---	--	--	--	--	--
o-Xylene	8260			5 (n)	8	0	8	100	---	---	--	--	--	--	--
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	---	---	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	---	---	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	---	---	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - BACKGROUND WELL B6R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	---	---	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	---	---	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trimethylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Hexachlorobutadiene	8260	50		10	8	0	8	100	---	---	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	---	---	--	--	--	--	--
Naphthalene	8260	9880		10	8	0	8	100	---	---	--	--	--	--	--
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	---	---	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	---	---	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	8	0	0	---	---					
Beryllium	200.8	2		2	8	0	8	100	---	---	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	---	---	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	---	---	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	---	---	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	---	---	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	---	---	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	---	---	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	---	---	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	---	---	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	---	---	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW101R
12/00 TO 06/03
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	8	0	0	1	3754 (l)	2400	4200	3275	590	3350
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	8	0	0	1	6067 (l)	4100	6300	5538	791	5700
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	0	NC	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	8	0	0	1	4,123 (l)	1800	4900	3150	993	3150
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	8	0	0	1	606 (l)	280	700	514	138	550
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW101R
12/00 TO 06/03
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	8	0	0	1	350 (j)	240	350	300	43	320
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	8	0	0	1	30 (j)	17	30	21	4	20
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	8	0	0	1	78 (l)	58	83	73	8	74
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	8	0	0	1	85 (l)	59	97	75	13	74
Carbazole	8270			10	8	8	0	0	1	25 (j)	18	25	21	2	20
Anthracene	8270	25900		10	8	0	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10	8	0	8	100	0	NC	--	--	--	--	--
Pyrene	8270	777		10	8	0	8	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270		*	1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	0	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW101R
12/00 TO 06/03
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	8	0	0	1	87 (l)	48	90	73	15	75
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	6	2	25	2	11 (i)	6	14	9	3	8
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	8	0	0	1	264 (l)	130	300	228	55	250
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	8	0	0	1	76 (l)	38	92	59	19	53
o-Xylene	8260			5 (n)	8	8	0	0	1	39 (j)	17	39	27	9	25
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW101R
12/00 TO 06/03
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	8	0	0	1	23 (l)	11	28	18	6	18
1,2,4-Trimethylbenzene	8260			10 (k)	8	8	0	0	1	37 (l)	25	40	32	6	30
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	3	5	63	3	11 (m)	11	11	11	0	11
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	8	0	0	1	7084 (l)	3700	7800	5850	1359	6000
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	8	0	0	1	12 (l)	10	14	12	1	12
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	0	NC	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	0	NC	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW102R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	2	6	75	3	400 (m)	400	400	400	0	400
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	0	8	100	0	NC	--	--	--	--	--
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	0	NC	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	2	1	75	3	22 (m)	12	22	17	7	17
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW102R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270				8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)		8	8	0	0	1	15 (l)	11	17	13	2	13
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	0	8	100	0	NC	--	--	--	--	--
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	6	8	100	0	NC	--	--	--	--	--
Carbazole	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Anthracene	8270	25900		10	8	9	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10	8	0	8	100	0	NC	--	--	--	--	--
Pyrene	8270	777		10	6	0	6	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW102R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	1	7	88	3	18 (m)	18	18	18	0	18
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	0	8	100	0	NC	--	--	--	--	--
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	0	8	100	0	NC	--	--	--	--	--
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
o-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW102R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	2	6	75	3	11 (m)	11	11	11	0	11
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	6	2	25	2	8 (i)	4	11	7	2	6
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	0	NC	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	0	NC	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW104
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	4	4	50	2	560 (j)	460	560	493	46	475
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	0	8	100	0	NC	--	--	--	--	--
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	0	NC	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW104
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	8	0	0	1	64 (j)	40	64	48	7	47
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	5	3	38	2	11 (j)	10	11	11	1	11
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Carbazole	8270			10	8	1	7	88	3	10 (m)	10	10	10	0	10
Anthracene	8270	25900		10	8	0	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10	8	0	8	100	0	NC	--	--	--	--	--
Pyrene	8270	777		10	8	0	8	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW104
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	0	8	100	0	NC	--	--	--	--	--
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	0	8	100	0	NC	--	--	--	--	--
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
o-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW104
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	7	1	13	1	83 (l)	2.2	120	55	42	56
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	0	8	100	0	NC	--	--	--	--	--
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	0	NC	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	0	NC	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW105
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	8	0	0	1	1600 (j)	760	1600	1333	279	1400
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	8	0	0	1	2488 (l)	1100	2700	1963	529	2050
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	6	2	25	2	23 (i)	10	32	20	10	17
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	8	0	0	1	919 (l)	410	1000	701	222	690
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	8	0	0	1	107 (l)	62	130	89	23	83
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW105
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	8	0	0	1	75 (l)	48	80	68	11	69
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	8	0	0	1	23 (j)	13	23	20	3	22
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	8	0	0	1	35 (j)	20	35	29	5	31
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	8	0	0	1	73 (j)	34	73	56	13	59
Carbazole	8270			10	8	8	0	0	1	28 (l)	21	31	26	3	26
Anthracene	8270	25900		10	8	0	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10.0	8	3	5	63	3	11 (m)	11	11	11	0	11
Pyrene	8270	777		10	8	0	8	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW105
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	8	0	0	1	346 (l)	220	390	312	50	320
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	8	0	0	1	35 (l)	18	41	29	7	30
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	8	0	0	1	73 (l)	49	82	63	13	62
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	8	0	0	1	69 (j)	36	69	48	13	43
o-Xylene	8260			5 (n)	8	8	0	0	1	41 (l)	15	42	29	10	29
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW105
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	1	7	88	3	11 (m)	11	11	11	0	11
1,2,4-Trimethylbenzene	8260			10 (k)	8	8	0	0	1	25 (l)	12	30	19	6	19
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	8	0	0	1	2,084 (l)	980	2300	1710	558	1800
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	8	0	0	1	17 (l)	12	19	15	3	14
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	0	NC	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	0	NC	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW107R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	8	0	0	1	1513 (l)	630	1900	1113	414	1100
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	8	0	0	1	2928 (l)	780	3900	1783	1017	1600
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	0	NC	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	8	0	0	1	2,200 (j)	990	2200	1461	482	1350
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	8	0	0	1	171 (l)	66	220	138	49	145
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW107R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	8	0	0	1	64 (l)	38	76	54	12	55
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	8	0	0	1	21 (l)	10	27	16	5	16
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	5	3	38	2	15 (i)	12	18	14	2	14
Carbazole	8270			10	8	4	4	50	2	14 (j)	10	14	12	2	11
Anthracene	8270	25900		10	8	0	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10	8	0	8	100	0	NC	--	--	--	--	--
Pyrene	8270	777		10	8	0	8	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW107R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	1	7	88	3	5.7 (m)	5.7	5.7	5.7	0	5.7
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	4	4	50	2	22 (j)	7.3	22	12	7	9
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	8	0	0	1	81 (l)	21	110	48	30	40
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	8	0	0	1	61 (l)	15	89	34	24	28
o-Xylene	8260			5 (n)	8	8	0	0	1	66 (j)	11	66	24	18	18
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW107R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	1	7	88	3	17 (m)	17	17	17	0	17
1,2,4-Trimethylbenzene	8260			10 (k)	8	7	1	13	1	57 (j)	8.6	57	20	17	16
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	8	0	0	1	3994 (l)	1200	4800	2813	2854	2600
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	7	1	13	1	8 (j)	3	8	7	2	7
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	0	8	100	0	NC	--	--	--	--	--
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	0	8	100	0	NC	--	--	--	--	--
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW108R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
TPH (µg/L)															
Diesel-Range Petroleum Hydrocarbons	WTPH-Dx		6355 (g)	400 (h)	8	0	8	100	0	NC	--	--	--	--	--
Motor Oil-Range Petroleum Hydrocarbons	WTPH-Dx			1100 (h)	8	0	8	100	0	NC	--	--	--	--	--
Gasoline-Range Petroleum Hydrocarbons	WTPH-G		7580 (g)	600 (h)	8	0	8	100	0	NC	--	--	--	--	--
cPAH (µg/L)															
Benzo(a)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(b)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(k)fluoranthene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
Dibenzo(a,h)anthracene	8270-SIM	1.0		1.0	8	0	8	100	0	NC	--	--	--	--	--
SEMIVOLATILES (µg/L)															
Phenol	8270	1100000		10	8	0	8	100	0	NC	--	--	--	--	--
Bis-(2-Chloroethyl) Ether	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorophenol	8270	97		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8270	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Benzyl Alcohol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8270	4200		10	8	0	8	100	0	NC	--	--	--	--	--
2-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2'-Oxybis(1-Chloropropane)	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Methylphenol	8270			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitroso-Di-N-Propylamine	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Hexachloroethane	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Nitrobenzene	8270	449		10	8	0	8	100	0	NC	--	--	--	--	--
Isophorone	8270	600		10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitrophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dimethylphenol	8270	553		10	8	0	8	100	0	NC	--	--	--	--	--
Benzoic Acid	8270			10	8	0	8	100	0	NC	--	--	--	--	--
bis(2-Chloroethoxy) Methane	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dichlorophenol	8270	191		10	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8270	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8270	9880		10	8	8	0	0	1	41 (l)	11	49	28	11	29
4-Chloroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8270	50		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chloro-3-methylphenol	8270			20	8	0	8	100	0	NC	--	--	--	--	--
2-Methylnaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorocyclopentadiene	8270	4180		20	8	0	8	100	0	NC	--	--	--	--	--
2,4,6-Trichlorophenol	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
2,4,5-Trichlorophenol	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Chloronaphthalene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW108R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Dimethylphthalate	8270	72000		10	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
3-Nitroaniline	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Acenaphthene	8270	225	485 (g)	10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrophenol	8270	3460		50	8	0	8	100	0	NC	--	--	--	--	--
4-Nitrophenol	8270			50	8	0	8	100	0	NC	--	--	--	--	--
Dibenzofuran	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,6-Dinitrotoluene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
2,4-Dinitrotoluene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Diethylphthalate	8270	28400		10	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Fluorene	8270	2422		10	8	0	8	100	0	NC	--	--	--	--	--
4-Nitroaniline	8270			20	8	0	8	100	0	NC	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	8270			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
N-Nitrosodiphenylamine	8270	16		10	8	0	8	100	0	NC	--	--	--	--	--
4-Bromophenyl-phenylether	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobenzene	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Pentachlorophenol	8270	50		50	8	0	8	100	0	NC	--	--	--	--	--
Phenanthrene	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Carbazole	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Anthracene	8270	25900		10	8	0	8	100	0	NC	--	--	--	--	--
Di-n-Butylphthalate	8270	2910		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Fluoranthene	8270	27		10	8	0	8	100	0	NC	--	--	--	--	--
Pyrene	8270	777		10	8	0	8	100	0	NC	--	--	--	--	--
Butylbenzylphthalate	8270	1250		10	8	0	8	100	0	NC	--	--	--	--	--
3,3'-Dichlorobenzidine	8270	20		20	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)anthracene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	8270	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chrysene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Di-n-Octyl phthalate	8270			10	8	0	8	100	0	NC	--	--	--	--	--
Benzo(a)pyrene	8270			1.0	0	0	0	0	0	NC	--	--	--	--	--
Benzo(g,h,i)perylene	8270			10	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW108R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
VOLATILES (µg/L)															
Chloromethane	8260	133		10	8	0	8	100	0	NC	--	--	--	--	--
Bromomethane	8260	968		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Chloride	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Chloroethane	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Methylene Chloride	8260	960		5	8	0	8	100	0	NC	--	--	--	--	--
Acetone	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Carbon Disulfide	8260			10	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethene	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloroethane	8260			5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,2-Dichloroethene	8260	32800		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,2-Dichloroethene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Chloroform	8260	470		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloroethane	8260	99		5	8	0	8	100	0	NC	--	--	--	--	--
2-Butanone	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1-Trichloroethane	8260	41700		5	8	0	8	100	0	NC	--	--	--	--	--
Carbon Tetrachloride	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
Vinyl Acetate	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Bromodichloromethane	8260	28		5	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichloropropane	8260	23		5	8	0	8	100	0	NC	--	--	--	--	--
cis-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
Trichloroethene	8260	81		5	8	0	8	100	0	NC	--	--	--	--	--
Dibromochloromethane	8260	21		10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichloroethane	8260	42		5	8	0	8	100	0	NC	--	--	--	--	--
Benzene	8260	71	231 (g)	5	8	0	8	100	0	NC	--	--	--	--	--
trans-1,3-Dichloropropene	8260	19		5	8	0	8	100	0	NC	--	--	--	--	--
2-Chloroethylvinylether	8260			10	8	0	8	100	0	NC	--	--	--	--	--
Bromoform	8260	360		5	8	0	8	100	0	NC	--	--	--	--	--
4-Methyl-2-Pentanone (MIBK)	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Hexanone	8260			50	8	0	8	100	0	NC	--	--	--	--	--
Tetrachloroethene	8260	8.9		5	8	0	8	100	0	NC	--	--	--	--	--
1,1,2,2-Tetrachloroethane	8260	6.5		5	8	0	8	100	0	NC	--	--	--	--	--
Toluene	8260	485		5	8	0	8	100	0	NC	--	--	--	--	--
Chlorobenzene	8260	5030		5	8	0	8	100	0	NC	--	--	--	--	--
Ethylbenzene	8260	276		5	8	0	8	100	0	NC	--	--	--	--	--
Styrene	8260			5	8	0	8	100	0	NC	--	--	--	--	--
Trichlorofluoromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,2-Trichlorotrifluoroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
m,p-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
o-Xylene	8260			5 (n)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dichlorobenzene	8260	4200		10	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichlorobenzene	8260	2600		10	8	0	8	100	0	NC	--	--	--	--	--
1,4-Dichlorobenzene	8260	10		10	8	0	8	100	0	NC	--	--	--	--	--
Acrolein	8260	780		500 (k)	8	0	8	100	0	NC	--	--	--	--	--
Methyl Iodide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - WELL MW108R
03/01 TO 06/04
UNION STATION

Analyte	Method	CAP Cleanup Level (a) (µg/L)	Background-based Screening Level (µg/L)	Practical Quantitation Limits (b) (µg/L)	Number of Samples (c)	Number of Detects (>= PQL)	Number of Censored Data (d)	Percent Censored Data	Statistical Case No. (e)	UCL (f)	Minimum Uncensored Data	Maximum Uncensored Data	Mean of Uncensored Data (f)	Std. Dev. of Uncensored Data (f)	Median of Uncensored Data (f)
Bromoethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Acrylonitrile	8260	5		5	8	0	8	100	0	NC	--	--	--	--	--
1,1-Dichloropropene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Dibromomethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,1,1,2-Tetrachloroethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2-Dibromo-3-chloropropane	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,3-Trichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260			50 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3,5-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trimethylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Hexachlorobutadiene	8260	50		10	8	0	8	100	0	NC	--	--	--	--	--
Ethylene Dibromide	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromochloromethane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2,2-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,3-Dichloropropane	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Isopropylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Propylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
Bromobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
2-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Chlorotoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
tert-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
sec-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
4-Isopropyltoluene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
n-Butylbenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
1,2,4-Trichlorobenzene	8260	227		10	8	0	8	100	0	NC	--	--	--	--	--
Naphthalene	8260	9880		10	8	8	0	0	1	110 (j)	21	110	44	29	34
1,2,3-Trichlorobenzene	8260			10 (k)	8	0	8	100	0	NC	--	--	--	--	--
DISSOLVED METALS (µg/L)															
Antimony	200.8	4300		10	8	0	8	100	0	NC	--	--	--	--	--
Arsenic	200.8	4	36 (g)	4	8	6	2	25	2	9 (j)	4	9	6	2	6
Beryllium	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Cadmium	200.8	8		2	8	0	8	100	0	NC	--	--	--	--	--
Chromium	200.8	50		50	8	1	7	88	3	54 (j)	54	54	54	0	54
Copper	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Lead	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Mercury	7470	1		1	8	0	8	100	0	NC	--	--	--	--	--
Nickel	200.8	10		10	8	0	8	100	0	NC	--	--	--	--	--
Selenium	200.8	71		20	8	4	4	50	2	30 (j)	20	30	25	6	25
Silver	200.8	2		2	8	0	8	100	0	NC	--	--	--	--	--
Zinc	200.8	77		20	8	0	8	100	0	NC	--	--	--	--	--
Cyanide (µg/L)															
Total Cyanide	335.2	50		50	8	0	8	100	0	NC	--	--	--	--	--
Weak Acid Dissoc. Cyanide	SM4500CN-I			50	8	0	8	100	0	NC	--	--	--	--	--

TABLE 4-2
STATISTICAL SUMMARY OF GROUNDWATER DATA - FOOTNOTES
UNION STATION

-- = Not Applicable.

UCL = Upper confidence limit.

NC = Not calculated.

= UCL exceeds the cleanup level.

(a) Cleanup levels are from Table 1 of the Cleanup Action Plan, unless otherwise indicated.

(b) Practical quanitation limits are from Table 1 of the Cleanup Action Plan, unless otherwise indicated.

(c) The number of samples is equal to the number of samples analyzed.

(d) Censored data consists of nondetected results and detected values less than the PQL.

(e) Statistical Case Nos:

0 = Data set consists of 100% censored data

1 = Data set consists of not more than 15 % censored data.

2 = Data set consists of more than 15 % censored data but less than or equal to 50% censored data.

3 = Data set consists of more than 50 % censored data but less than 100 % censored data.

(f) No UCL, mean, standard deviation, or median were calculated for data sets with 100% censored data. Also, no UCL was calculated for background wells B-4 and B-6/B-6R.

(g) Screening level is based on the 90th percentile of the background data obtained from well B4 or B6/B6R. The 90th percentile was calculated using MTCAstat 97 Background Module.

(h) Practical quantitation limit is equal to approximately 10 times the laboratory method detection limit.

(i) Upper confidence limit calculated using MTCAStat 97 Site Module.

(j) The data set was determined to be neither lognormally nor normally distributed by MTCAstat; therefore, in accordance with the Supplement to Statistical Guidance for Ecology Site Managers (Ecology 1993), the upper confidence level was set equal to the maximum concentration in the data set.

(k) Practical quantitation limit based on method reporting limit and PQLs of similar compounds

(l) The data set consists of less than or equal to 15 % censored data (Case No. 1): therefore, in accordance with the Supplement to Statstical Guidance for Ecology Site Managers (Ecology 1993), all nondetected values were replaced with 1/2 the detection limit and all detected values less than the PQL were replaced with the detection limit. Statistics were then performed on the adjusted data.

(m) Greater than 50% of the data are censored; therefore, in accordance with the Supplement to Statistical Guidance for Ecology Site Managers (Ecology 1993), the upper 95% confidence limit was set equal to the maximum concentration in the data set.

(n) Practical quantitation limit identified for total xylenes in Cleanup Action Plan.

TABLE 4-3
SUMMARY OF CLEANUP AND SCREENING LEVEL EXCEEDANCES
(Concentrations in µg/L)

Constituent	Location	CAP CUL	Background-based Screening Level	3/2001 - 6/2004 UCL	12/2000 - 6/2003 UCL	9/2000 - 6/2002 UCL	9/1999 - 6/2001 UCL	6/1998 - 6/2000 UCL	Comments
Acenaphthene									Apparent off-property sources
	MW-101R	225	485	350	350	350	340	276	
Benzene									Apparent off-property sources
	Well MW-101R	71	231	87	82	77	78	104	
	Well MW-105	71	231	346	350	361	376	373	
Arsenic									Apparent off-property sources
	MW-101R	4	36	12	13	13	14	14	
	MW-102R	4	36	8	9	9	9	7	
	MW-105	4	36	17	19	19	18	21	
	MW-107R	4	36	8	8	8	8	10	
	MW-108R	4	36	9	15	15	12	8	

CAP CUL = Cleanup level listed in the Cleanup Action Plan.
UCL = Upper Confidence Limit.

APPENDIX A

Data Validation Technical Memorandum

TECHNICAL MEMORANDUM

LANDAU ASSOCIATES
ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES

TO: Kristy Hendrickson, Project Manager

FROM: April Wallace and Anne Halvorsen

DATE: July 13, 2004

RE: UNION STATION
ANNUAL 2004 GROUNDWATER SAMPLING
LABORATORY DATA QUALITY EVALUATION

This memorandum provides the results of a data quality evaluation for nine groundwater samples and one trip blank collected during the quarterly groundwater sampling event at the Union Station property on June 9, 2004. A data quality evaluation was performed for the following analyses:

- Volatile organic compounds [VOCs; U.S. Environmental Protection Agency (EPA) Method 8260B]
- Polycyclic aromatic hydrocarbons [PAHs; EPA Method 8270C with selected ion monitoring (SIM)]
- Semivolatile organic compounds (SVOCs; EPA Method 8270C)
- Total petroleum hydrocarbons [TPH; Washington State Department of Ecology (Ecology) Methods NWTPH-G and NWTPH-Dx]
- Dissolved metals (EPA Method 200.8/7470A)
- Total dissolved solids and total suspended solids (EPA Methods 160.1 and 160.2, respectively)
- Total cyanide (EPA Method 335.2) and Weak Acid Dissociable (WAD) cyanide (Standard Method 4500CN-I).

All of the above analyses were performed by Analytical Resources, Inc. (ARI) laboratory located inTukwila, Washington. This data quality evaluation covers ARI data package GS18.

The data quality evaluation was performed in accordance with Appendix A of the *Union Station Property Cleanup Action Plan* (CAP; Landau Associates 1997), and with applicable portions of the EPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* and *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 1994a,b).

The evaluation considered the following elements:

- Chain-of-custody records
- Holding times
- Blank results (laboratory and field)
- Surrogate recoveries
- Laboratory matrix spikes and matrix spike duplicates (MS/MSD) and including laboratory control samples

- Duplicate analyses (field and laboratory)
- Reporting limits
- Completeness.

Data validation qualifiers are added to sample results based on the evaluation of data quality. The absence of a data qualifier indicates that the datum is acceptable without qualification. The data qualifiers added to this data set are summarized in Table 1.

CHAIN-OF-CUSTODY RECORD

A signed chain-of-custody record accompanied the data package. All analyses requested were performed.

HOLDING TIMES

For all analyses and all samples, the time between sample collection, extraction, and analysis was determined to be within EPA holding times, except as discussed below.

- **VOC Analysis by 8260B.** Sample MW-109 required dilution because the original value for naphthalene exceeded the linear range of the instrument for both the 5X and 20X dilutions. The sample was re-extracted analyzed a third time at a 50X dilution, one day past the method-specified holding time of fourteen days. Naphthalene was successfully quantitated in the linear range of this 50x analysis. Based on this data quality evaluation, it is recommended that the naphthalene result from the MW-109 50X dilution be reported and be qualified as an estimate (J), as indicated in Table 1.

- **NWTPH-Dx Analysis.** Sample B-6R required re-analysis because of a low surrogate recovery in the initial analysis. The sample was re-extracted four days past the method-specific holding time of seven days. The surrogate recoveries for the re-analysis were within control limits. Diesel-range petroleum hydrocarbons were not detected above the reporting limits in either analyses. Based on this data quality evaluation, it is recommended that the diesel-range petroleum hydrocarbons results for the initial analysis be reported, and that no qualification of the data is necessary.

SURROGATE SPIKE RECOVERIES

Surrogates were added to each sample for each organic analysis. Recoveries of the surrogates were within the laboratory-specified control limits with the following exceptions:

- The recovery of surrogate d10-2-methylnaphthalene was slightly less than the lower laboratory-specified control limit during the PAH analysis of sample B-4. Because recovery of the second surrogate associated with this analysis was within the control limits, no qualification was necessary.

- The recovery of surrogate o-terphenyl was less than the lower laboratory-specified control limit during the NWTPH-Dx analysis of sample B-6R. The sample was re-extracted and re-

analyzed. The surrogate recovery for the re-analysis was within the specific conditions. The results for the re-analysis confirmed the results of the initial analysis; therefore, it is recommended that the results from the initial analysis be reported, and no qualification of the data was deemed necessary.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

One matrix spike/matrix spike duplicate (MS/MSD) was performed with each organic analysis. One matrix spike (MS) was performed with the each inorganic analyses. All MS/MSDs were prepared using a project sample and spiked with appropriate target analytes. All recoveries and relative percent differences (RPDs) were within the laboratory or method-specified control limits, except as discussed below:

- RPDs between the MS and MSD results for five VOCs were slightly greater than the control limit. Because the MS and MSD recoveries were for these VOCs were within laboratory control limits, no qualification of the data was deemed necessary.

LABORATORY DUPLICATES

One laboratory duplicate (or laboratory replicate) was analyzed for total cyanide, WAD cyanide, TSS, and TDS. All RPDs were within the method or laboratory control limits. No qualification of the data was necessary.

LABORATORY CONTROL SAMPLE (BLANK SPIKE) RESULTS

At least one laboratory control sample, blank spike, or standard reference material sample was analyzed with each batch of samples. Laboratory control sample duplicates were performed with VOC and NWTPH-Gx analyses. All recoveries were within the laboratory-specified control limits. No qualification of the data was necessary.

METHOD BLANKS

Method blanks were analyzed with each analysis and each batch of samples. Naphthalene, 2-methylnaphthalene, and acenaphthene were detected in the method blank associated with the PAH 8270 SIM analysis. Acenaphthene was detected in project sample B-6R, naphthalene was detected in project samples B-4, B-6R, MW-102R, and MW-104, and 2-methylnaphthalene was detected in project sample B-6R at concentrations less than five times the method blank concentration. These results were qualified as not detected (U) at the concentration reported, as indicated in Table 1. 2-Methylnaphthalene results for samples B-4 and MW-102R were greater than five times the method blank concentration, therefore, no qualification of the data was necessary.

FIELD TRIP BLANKS

One trip blank was submitted to the laboratory for both the VOC and NWTPH-G analyses. No contamination was detected in the trip blank. No qualification of the data was necessary.

FIELD DUPLICATE RESULTS

One blind field duplicate sample pair (MW-101R/MW-109) was collected, meeting the requirement specified in Appendix A of the Cleanup Action Plan of one duplicate per 20 samples, but no less than one field duplicate per sampling round. RPDs between the blind field duplicate sample results were within the project-specified control limit of 20 percent, with the following exception:

- **TSS**. The RPD between duplicate sample results for TSS exceeded the project-specified control limits. The TSS results for both samples were qualified as estimates (J), as indicated in Table 1.

REPORTING LIMITS

Raised reporting limits were reported for some VOCs due to diluted analyses and lower purge volume. No qualification of the data was necessary.

OVERALL DATA QUALITY AND COMPLETENESS

Data precision was evaluated through laboratory, field, and matrix spike duplicates. Data accuracy was evaluated through laboratory control samples, surrogate spikes, and matrix spikes. Based on this data quality evaluation, all of the data were determined to be acceptable as qualified, and no data were rejected. The completeness for this set of data is 100 percent, which exceeds the project goal of 90 percent.

REFERENCES

EPA. 1994a. *Contract Laboratory Program National Functional Guidelines for Organic Data Review.* U.S. Environmental Protection Agency.

EPA. 1994b. *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review.* U.S. Environmental Protection Agency.

Landau Associates. 1997. *Cleanup Action Plan, Union Station Property, Seattle, Washington.*

TABLE 1
DATA QUALIFIER SUMMARY
UNION STATION 2004 ANNUAL SAMPLING
ARI DATA PACKAGE GS18

Analysis	Analyte	Sample Number	Concentration	Data Qualifier	Reason for Qualification
PAHs	2-Methylnaphthalene	B-6R	0.03	U	Concentration becomes nondetect (U).
	Naphthalene	MW-102R	0.24	U	Concentration becomes nondetect (U).
	Naphthalene	MW-104	0.75	U	Concentration becomes nondetect (U).
	Naphthalene	B-4	0.41	U	Concentration becomes nondetect (U).
	Naphthalene	B-6R	0.13	U	Concentration becomes nondetect (U).
					Concentration becomes nondetect (U).
	Acenaphthene	B-6R	0.14	U	Concentration becomes nondetect (U).
TSS	TSS	MW-101R	284	J	High field duplicate RPD.
		MW-109	90.1	J	High field duplicate RPD.
VOCs	Naphthalene	MW-109	5,900	J	Holding time exceeded by one day.

APPENDIX B

Screening Levels Based on Background

2300 **UNION STATION:**

2400 **B4, Diesel-Range Petroleum Hydrocarbons**

2900 **Screening Levels Based on Background 10/97 - 12/00**

3500 MTCA*Stat* 3.0

3600 Number of samples		Uncensored values	
3800 Uncensored	11	Mean	4100.00
3800 Censored	0	Lognormal mean	4116.48
4500 TOTAL	11	Std. devn.	1583.67
4700		Median	3800
5900		Min.	2300
7700		Max.	7700

Lognormal distribution?	Normal distribution?
r-squared is: 0.97	r-squared is: 0.89

Recommendations:

Use lognormal distribution.

Distribution selection		Value corresponding
	Enter percentile	to that percentile is:
1	90	6355.19
1 = Lognormal	50th	3855.53
2 = Normal	4 X 50th	15422.13
3 = Nonparametric method	Coefficient of Variation = 0.41	

UNION STATION:

B4, Diesel-Range Petroleum Hydrocarbons

Screening Level based on Background 10/97 - 6/04

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	19	Mean	5068.42
Censored	0	Lognormal mean	5037.18
TOTAL	19	Std. devn.	2924.24
		Median	4200
		Min.	2300
		Max.	15000

Lognormal distribution?	Normal distribution?
r-squared is: 0.95	r-squared is: 0.75

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	8554.85
1 = Lognormal	50th	4517.57
2 = Normal	4 X 50th	18070.29
3 = Nonparametric method	Coefficient of Variation = 0.53	

2400 **UNION STATION:**

3100 **B4, Gasoline-Range Hydrocarbons**

3200 **Screening Level Based on Background 10/97 - 12/00**

3800 MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	11	Mean	4818.18
Censored	0	Lognormal mean	4847.98
TOTAL	11	Std. devn.	1871.80
		Median	4500
		Min.	2400
		Max.	9000

Lognormal distribution?	Normal distribution?
r-squared is: 0.98	r-squared is: 0.92

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	7579.63
1 = Lognormal	50th	4513.25
2 = Normal	4 X 50th	18052.99
3 = Nonparametric method	Coefficient of Variation = 0.42	

UNION STATION:

B4, Gasoline-Range Petroleum Hydrocarbons

Screening Level Based on Background 10/97 - 6/04

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	19	Mean	4889.47
Censored	0	Lognormal mean	4940.78
TOTAL	19	Std. devn.	1719.79
		Median	5200
		Min.	1800
		Max.	9000

Lognormal distribution?	Normal distribution?
r-squared is: 0.93	r-squared is: 0.95

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	7867.38
1 = Lognormal	50th	4574.57
2 = Normal	4 X 50th	18298.28
3 = Nonparametric method	Coefficient of Variation = 0.44	

UNION STATION

B4, Benzene

Screening Level Based on Background 10/97 - 12/00

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	11	Mean	162.18
Censored	0	Lognormal mean	162.63
TOTAL	11	Std. devn.	46.69
		Median	150
		Min.	94
		Max.	260

Lognormal distribution?	Normal distribution?
r-squared is: 0.92	r-squared is: 0.88

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	231.11
1 = Lognormal	50th	156.57
2 = Normal	4 X 50th	626.28
3 = Nonparametric method	Coefficient of Variation = 0.31	

UNION STATION:

B4, Benzene

Screening Level Based on Background 10/97 - 6/04

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	19	Mean	149.47
Censored	0	Lognormal mean	149.43
TOTAL	19	Std. devn.	38.65
		Median	140
		Min.	90
		Max.	260

Lognormal distribution?	Normal distribution?
r-squared is: 0.85	r-squared is: 0.78

Recommendations:

Use nonparametric method.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
3	90	230.00
1 = Lognormal	50th	140.00
2 = Normal	4 X 50th	560.00
3 = Nonparametric method	Coefficient of Variation = N/A	

UNION STATION:

B4, Acenaphthene

Screening Level Based on Background 10/97 - 12/00

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	11	Mean	339.09
Censored	0	Lognormal mean	341.22
TOTAL	11	Std. devn.	81.54
		Median	350
		Min.	180
		Max.	450

Lognormal distribution?	Normal distribution?
r-squared is: 0.90	r-squared is: 0.96

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	485.44
1 = Lognormal	50th	328.76
2 = Normal	4 X 50th	1315.05
3 = Nonparametric method	Coefficient of Variation = 0.31	

UNION STATION:

B4, Acenaphthene

Screening Level Based on Background 10/97 - 6/04

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	19	Mean	321.53
Censored	0	Lognormal mean	331.80
TOTAL	19	Std. devn.	97.28
		Median	350
		Min.	69
		Max.	450

Lognormal distribution?	Normal distribution?
r-squared is: 0.69	r-squared is: 0.88

Recommendations:

Use nonparametric method.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
3	90	430.00
1 = Lognormal	50th	350.00
2 = Normal	4 X 50th	1400.00
3 = Nonparametric method	Coefficient of Variation = N/A	

UNION STATION:

B-6R, Arsenic

Screening Level Based on Background 10/97- 06/04

MTCA*Stat* 3.0

Number of samples		Uncensored values	
Uncensored	19	Mean	20.79
Censored	0	Lognormal mean	21.12
TOTAL	19	Std. devn.	8.38
		Median	21
		Min.	6
		Max.	35

Lognormal distribution?	Normal distribution?
r-squared is: 0.93	r-squared is: 0.97

Recommendations:

Use lognormal distribution.

Distribution selection	Enter percentile	Value corresponding to that percentile is:
1	90	35.94
1 = Lognormal	50th	18.99
2 = Normal	4 X 50th	75.96
3 = Nonparametric method	Coefficient of Variation = 0.53	