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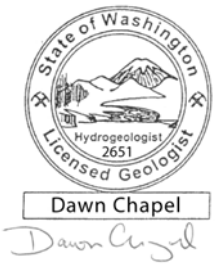
Technical Memorandum



To:	Grant County Public Works and City of Ephrata
From:	Dawn Chapel and Pony Ellingson, Pacific Groundwater Group
Re:	Addendum to Remedial Investigation Ephrata Landfill (Agency Draft)
Date:	August 28, 2012

This memo summarizes additional groundwater data collected for the Remedial Investigation (RI) of the Ephrata Landfill in Grant County, Washington (Figure 1). The additional data were collected after drafting the RI report (PGG, 2010b). This memo also addresses updated groundwater quality screening criteria, which became available in April 2011 after the RI report was drafted. The updated criteria, together with the additional groundwater data, are used to update the list of contaminants of concern (COCs). This memo also provides tables that compare concentrations of updated COCs measured in individual wells during the RI to screening criteria.

Findings presented in this addendum are consistent with descriptions of the nature and extent of contamination presented in the RI report of 2010. Our professional services were performed, our findings obtained, and our report prepared in accordance with generally accepted hydrogeological practices. This warranty is in lieu of all other warranties, expressed or implied.

BACKGROUND

The RI was conducted as described in the *Remedial Investigation/Feasibility Study (RI/FS) Work Plan* (PGG *et al* 2006) and update (PGG *et al* 2010a), together referred to herein as the RI/FS work plan. Four quarters of groundwater sampling events from each site monitoring well[1] was the basis of the RI/FS work plan. However, due to the phased nature of the RI, some of the wells installed during Phase 2 of the RI did not have the full four rounds of quarterly groundwater data at the time the RI report was drafted in early 2010 (all site wells had at least two rounds of data and most had at least 4 rounds). This memo thus presents additional RI groundwater data collected since drafting the RI report.

[1] Site monitoring wells include monitoring wells installed during the RI (Remedial Investigation Wells) and existing solid waste facility wells (Quarterly Monitoring Wells) which are sampled quarterly as required by the solid waste permit (WAC 173-351). Figure 1 distinguishes between solid waste monitoring wells and RI wells.

RI data collected after the RI report include RI sampling Rounds 8 and 9 (June 2010 and September 2010 respectively). Five groundwater samples were also collected from MW-34p1 (Figure 1) during the 2010 groundwater extraction season (June to September 2010). With completion of these sampling events, all RI wells have at least four quarters of groundwater data and this completes the RI dataset[2].

The main criteria for screening groundwater data in the RI are the Model Toxic Control Act (MTCA) Method B Groundwater Cleanup Levels from the Cleanup Level and Risk Calculation (CLARC) database (Chapter 173-340 WAC). The CLARC database was updated by Washington State in April 2011.The COC list in the draft RI report was developed prior to the CLARC update. Other criteria for screening groundwater data in the RI are Federal Maximum Contaminant Levels (40 CFR 141.61) and State Groundwater Quality Standards (WAC 173-200) (referred to jointly or separately as 'MCLs')[3]. MCLs have not changed during the RI.

This memo provides an updated COC list (Table 1) reflecting the CLARC update of April 2011 and the complete RI data set.

REVISED RI SCREENING LEVELS AND UPDATED COCS

COCs were identified for the Ephrata Landfill RI/FS by comparing the complete RI dataset to the following criteria:

- Model Toxic Control Act (MTCA) Method B Groundwater Cleanup Levels (WAC 173-340) as listed in CLARC as of April 2011
- Federal Maximum Contaminant Levels (MCL; 40 CFR 141.61)
- State Groundwater Contaminant Levels (GWCL; WAC 173-200 Appendix A).

[2] The RI groundwater dataset is groundwater data collected from site monitoring wells between March 2008 and September 2010. It includes all nine RI sampling events (Rounds 1 through 9). Multiple sampling rounds were required due to the phased installation of wells over the 2.5 year period. The RI groundwater dataset also includes data collected for solid waste facility monitoring for the site. Four quarters of Solid waste facility monitoring data (first three quarters of 2008 and the first quarter of 2009) were presented in the RI report (PGG, 2010b). Solid waste facility monitoring data from seven additional quarterly sampling events conducted during the RI period were combined with the four quarters previously reported (11 quarters total) to support the FS and to evaluate COC trends presented in this memo. The RI dataset does not include historical data collected from solid waste facility monitoring wells prior to March 2008, nor does it include data collected after September 2010.

[3] COCs for the RI were developed using only groundwater data and screening levels. Subsequent work in the FS uses soil and air screening levels as well. Consistent with the RI report, this memo only applies groundwater screening levels.

MTCA Method B criteria (carcinogenic or non-carcinogenic) are used for all RI screening levels except:

- Federal MCLs are used for screening of volatile organic compounds (VOCs) if there is no MTCA Method B value or if the Federal MCL is lower.

- State GWCLs are used for inorganic parameters if there is no MTCA Method B value[4].

If the concentration of a chemical exceeds any RI screening level, the chemical is identified as a COC.

Detected VOCs without an established screening level are also retained as a COC.

The CLARC update included changes to a number of Method B groundwater cleanup levels and results in the following changes to COCs at this site:

- 1,3,5-trimethylbenzene is a new COC based on a new lower non-carcinogenic Method B CLARC value that was exceeded in one well (MW-38p2).

- n-propylbenzene is no longer a COC because CLARC now lists a non-carcinogenic Method B value, which is not exceeded in any of the wells (formerly there was no Method B CLARC value or other standard).

- 1,4-dichlorobenzene is no longer a COC because the Method B cleanup level was deleted from CLARC and none of the wells exceed the screening concentration based on the Federal MCL.

- Several COCs are retained but with new criteria (either a new screening level or a VOC detection without an established screening level)[5]

Changes to the COC list also result from inclusion of more recent RI data and re-comparing concentrations to the screening levels:

[4] The COC list in the RI/FS Work Plan (PGG and Parametrix, 2006) was created by comparing historic data for organic contaminants to GWCL and MTCA Method-B criteria. GWCL were applied to organic COCs in the original work plan because they are the threshold concentrations that establish a corrective action requirement under the solid waste facility permitting regulation WAC 173-351. However, to create the current COC list under the MTCA regulation, the GWCL were applied only to inorganic parameters if there was no MTCA Method B value.

[5] The CLARC revision deleted the Method B value for Methyl tert-butyl ether (MTBE). MTBE is not a COC and is not analyzed as part of the standard 8260-VOC method. However, MTBE was analyzed as part of the 8260-VOC method by the lab during some of the earlier RI sampling events and a single low level detection occurred in MW-33p2 (0.4ug/L) during the Round 3 RI sampling event (PGG, 2010b). Although there was a single low level detection, MTBE was not added to the updated COC list because it is not commonly analyzed, has not been detected in any other well, and the concentration in MW-33p2 (0.4 ug/L) was well below the old Method B carcinogenic screening value (24 ug/L).

- Two semi-volatile organic compounds (SVOCs), 2-methylphenol and 4-methylphenol, were added to the COC list based on detections in two wells near the former drums (MW-33p2 and MW-38p2) during the Round 9 sampling event. Previously, the only SVOC on the COC list was bis(2-ethylhexyl) phthalate.

- 1,2-dichlorobenzene is no longer a COC. It was included with the COC list developed in the RI/FS Work Plan (PGG and Parametrix, 2006), but subsequent RI screening indicates concentrations have not exceeded the screening level in any well during the RI or historically.

- Trichlorofluoromethane is no longer a COC. It was included with the COC list developed in the RI/FS Work Plan, but subsequent RI screening indicates concentrations have not exceeded the screening level in any well during the RI or historically.

- Trans-1,2-dichloroethene is no longer a COC. It was included with the COC list developed in the RI/FS Work Plan, but subsequent RI screening indicates concentrations have not exceeded the screening level in any well during the RI or historically[6].

Groundwater sampling from MW-34p1 in 2010, although part of the RI, was to assess water treatment and disposal options and general water quality trends during the extraction season. Because light non-aqueous phase liquid (LNAPL) occurs in MW-34p1, the groundwater results from MW-34p1 may not represent dissolved phase concentrations. Therefore, groundwater data collected from MW-34p1 during the 2010 extraction season were not used to revise the list of COCs. The analytical results from MW-34p1 were previously reported under a separate technical memorandum (PGG, 2011).

SUMMARY OF ADDITIONAL GROUNDWATER DATA (ROUNDS 8 AND ROUND 9)

Twenty-four monitoring wells were sampled during the Round 8 RI sampling event in June 2010 (Tables 2 and 3). Twenty monitoring wells and the Whitson private domestic well were sampled during the Round 9 RI sampling event in September 2010 (Tables 4 and 5). Chemical parameters analyzed during both sampling events consisted of VOCs, inorganic parameters, and metals. Semi-volatile organic compounds (SVOCs) were also analyzed during the Round 9 RI sampling event (Table 4).

Quality Assurance and Quality Control (QA/QC) data were reviewed for this report to assess the validity of the analytical results. The analyses were performed by Analytical Resources, Inc. (ARI) in Tukwila. Data were validated in accordance with the work plans, including laboratory and field quality assurance quality control procedures as out-

[6] A single detection of trans-1,2-dichloroethene above the screening level occurred in MW-3b in 1994 but that historical data is suspect given the much lower concentrations typically observed in this well.

lined in the RI/FS sampling and analysis plans. The data were determined to be acceptable for use in the RI as summarized in Tables 3 and 5.

Round 8 and 9 analytical results are generally similar to previous RI sampling events and consistent with the conceptual model presented in the RI report. The same parameters and concentrations that were previously detected at a particular well were detected again during the Round 8 and 9 sampling events.

As mentioned, SVOCs were sampled during the Round 9 sampling event. Early in the RI (Round 2, July 2008) SVOCs were sampled in all existing solid waste facility monitoring wells and RI wells MW-24a, MW-25a, MW-26a and MW-28d. SVOCs were not subsequently sampled during the RI until Round 9. SVOCs are typically not detected in site groundwater and, with the exception of bis(2-ethylhexyl) phthalate, they were not identified as COCs in the RI/FS Work Plan.

The results of the Round 9 sampling event showed a few detections of SVOCs in the P2 drum area wells MW-33p2, MW-35p2, and MW-38p2 (Table 4)[7]. Benzoic acid and methylphenols (both breakdown products of toluene[8]) were the SVOCs with the highest concentrations, both of which were detected in wells MW-35p2 and MW-38p2. Two SVOCs were detected above RI screening levels in the P2 drum area wells. The concentration of 2-methylphenol in MW-38p2 (510 ug/L) was above the RI screening level (400 ug/L) and the concentration of 4-methylphenol in MW-35p2 and MW-38p2 (170 and 430 ug/L respectively) was above the RI screening level (40 ug/L). Therefore, these two SVOCs were added to the revised COC list (Table 1). Methylphenols have not been detected in other site monitoring wells and all other detected SVOCs in the P2 drum area wells were below RI screening levels (Table 4).

RI DATASET COMPARED TO UPDATED COCS

Tables 6 through 53 provide datasets for COCs measured in individual wells and compares the concentrations to the RI screening criteria. These tables provide a current and complete list of COC groundwater data for the entire RI period and update and replace similar lists in the draft RI repot (PGG, 2010b). Although some differences in the screening criteria exist between the datasets and results of the COC identification process, the updated findings fully support the conclusions in the draft RI (PGG, 2010b).

[7] Low levels of bis(2-ethylthexyl) phthalate were detected in wells MW-40p2, MW-43p2, and MW-50c below RI screening levels. The detection in MW-50c was flagged with a "B" indicating the compound was also detected in the method blank. A low level detection of diethyl phthalate was detected in MW-44b below the RI screening level. No other SVOCs were detected in sampled wells with the exception of the P2 drum area wells discussed above.

[8] Toluene accounts for about 15 percent of the total LNAPL mass in the P1 zone by the former drum area (PGG, 2010b).

GROUNDWATER TIME SERIES PLOTS

Time series plots (Figures 2 through 15) provide a summary of select COC concentrations over time during the RI (March 2008 through September 2010). The COCs plotted are the most commonly detected organics above RI screening levels and some are also part of the degradation pathway for chloro-ethenes (i.e. PCE→TCE→DCE→VC).

The RI identified two groundwater contaminant plumes originating from sources at the landfill (Figure 1):

1. A northerly plume migrating beyond the landfill property in the Roza aquifer towards the north and the northeast and then downward to the Interflow aquifer and laterally into saturated alluvium[9] within a bedrock draw northeast of the site (Figure 1). Enhanced vertical migration to deeper aquifers may also have occurred through the Whitson domestic well, which was completed as an open borehole through multiple aquifers between 1997 and 2012[10].

2. A landfill plume in the Interflow aquifer beneath the original landfill and extending radially (in the direction of groundwater flow) to the west, south, and east and discharging into the Outwash aquifer (Figure 1). Some vertical migration to the deeper Frenchman Springs aquifer apparently also occurs. Historically, enhanced vertical migration to the Frenchman Springs aquifer may have occurred through the landfill's old water supply well at the northwest corner of the landfill (PGG, 2010b). The old supply well was decommissioned in 1993.

The concentration of contaminants within each plume attenuate (decrease) with distance from their source (both laterally within specific aquifers and vertically through sequentially deeper aquifers). The RI report describes the hydrogeology and the nature and extent of contamination in detail (PGG, 2010b).

Time series plots were constructed for select wells within these two plumes for the following select COCs:

- 1,2-Dichloropropane (1,2-DCP)
- 1,2-Dichloroethane (1,2-DCA)
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)

[9] Saturated fine grained sediments above bedrock in an erosional feature north of the site (PGG, 2010b).
[10] The Whitson well was recently videoed and modified in July 2012. The video confirmed that the well was an open borehole between 19 and 294 feet below groundwater surface. The well modification work was performed in accordance with WAC 173-160 and consisted of sealing the lower portion of the boring and installing a new 2-inch monitoring well within the Interflow Aquifer. The sealing of the open boring has reduced the potential for vertical migration.

- Cis-1,2-Dichlorothene (cis-1,2-DCE)
- Vinyl Chloride (VC)
- Benzene (Northerly Plume only)
- Methylene Chloride (Northerly Plume only)

These COCs were selected for time series plots because they are the most commonly detected organic COCs above RI screening levels and some are also part of the degradation pathway for chloro-ethenes (i.e. PCE→TCE→DCE→VC→Ethene). Note that benzene and methylene chloride are typically not detected in the Landfill Plume wells; therefore, time series data for these COCs are not shown for the Landfill Plume.

In general, the concentrations of these COCs were higher in Northerly Plume wells than Landfill Plume wells with the exception of PCE and TCE. PCE and TCE concentrations in some Landfill Plume wells were either higher or similar to the concentrations in the Northerly Plume wells.Time series trends for each plume are discussed below.

NORTHERLY PLUME – TIME SERIES PLOTS

Select wells in the Northerly Plume time series plots are:

- Roza Aquifer wells (MW-42b, MW-3b, and MW-7b)
- Roza Aquifer well (MW-44b)
- Domestic water supply well (Whitson)

This list of wells is generally in order beginning with those closest to the source and going to those furthest from the source. Note that wells MW-3b and MW-7b are solid waste facility monitoring wells with quarterly groundwater data available for the RI period (March 2008 to September 2010). The other wells have four to five rounds of RI data collected between 2009 and 2010[11].

Northerly Plume – 1,2-DCP (Time Series)

1,2-DCP was detected in all of the select Northerly Plume wells (Figure 2). The highest concentration in these wells was observed in well MW-44b (36 ug/L in June 2010). Concentrations were also elevated in well MW-42b (17 to 26 ug/L); moderately elevated in wells MW-3b and MW-7b (about 7 to 12 ug/L); and lowest in the Whitson well (about 5 ug/L).

1,2-DCP concentrations in MW-42b and MW-44b displayed the most variability between sampling events; however, continued monitoring will be required to assess long-term

[11] Monitoring of MW-44b and the Whitson well began in 2009 during Phase 2 of the RI (PGG, 2010b).

trends. The higher concentration observed in well MW-44b relative to the wells closer to the source (MW-3b, MW-7b, and MW-42b) suggest there might have been a higher source release of 1,2-DCP in the past[12].

Northerly Plume – 1,2-DCA (Time Series)

1,2-DCA was detected in all of the select Northerly Plume wells (Figure 3). The highest concentration in these wells was observed in well MW-42b (6.2 ug/L in September 2009). Concentrations were also elevated in well MW-44b (2.4 to 3.8 ug/L); moderately elevated in wells MW-3b and MW-7b (about 1 to 3 ug/L); and lowest in the Whitson well (less than 1 ug/L).

Northerly Plume – PCE (Time Series)

PCE was detected in all select Northerly Plume wells except well MW-44b (Figure 4). The highest PCE concentration in these wells was observed in well MW-42b. PCE concentrations in MW-42b decreased from 4 ug/L in September 2009 to 2.2 ug/L in September 2010. The decrease in concentration may be due to natural variability in the plume or to a long term trend. Continued monitoring of this well will be required to assess long-term trends. PCE concentrations in the other wells were all less than 1 ug/L.

The non-detection of PCE in well MW-44b suggests PCE attenuates to below detection before the plume reaches MW-44b.

Northerly Plume – TCE (Time Series)

TCE was detected in all select Northerly Plume wells (Figure 5). The highest TCE concentration in these wells was observed in well MW-3b. TCE concentrations in MW-3b varied seasonally with maximum concentrations occurring in March 2009 (3.8 ug/L) and March 2010 (2.4 ug/L). The seasonal variability in this well may be related to seasonal changes in groundwater levels and flow directions. Groundwater levels in the Roza wells are generally at a low in March.

TCE concentrations were also relatively high in well MW-42b (1.4 ug/L to 2.2 ug/L); moderately high in well MW-7b (about 0.5 to 1.5 ug/L), and relatively low in wells MW-44b and the Whitson well (less than 0.5 ug/L). TCE concentrations in wells MW-44b and the Whitson well displayed the least amount of variability between sampling events.

[12] A review of the long-term solid waste facility monitoring data in the draft RI report showed there was a sudden increase in a number of VOCs in wells MW-3b and MW-7b in the past (1997 and 2004), including 1,2-DCP (PGG, 2010b, Section 9.5.2). Concentrations in these wells decreased back to previous concentrations within about 1 year of the event. However, this event may explain the higher concentration of 1,2-DCP currently observed downgradient in well MW-44b.

Northerly Plume – cis-1,2-DCE (Time Series)

Cis-1,2-DCE was detected in all select Northerly Plume wells (Figure 6). Concentrations of cis-1,2-DCE and vinyl chloride (see below) were higher than the concentrations of PCE and TCE in all these wells, suggesting the biodegradation pathway for chloroethenes (PCE→TCE→DCE→VC→Ethene) in the Northerly Plume stalls to some extent at cis-1,2-DCE and vinyl chloride (VC), leading to higher concentrations of these two constituents.

Similar to TCE, the highest concentration of cis-1,2-DCE in these wells was observed in well MW-3b with maximum concentrations occurring in March 2009 (85 ug/L) and March 2010 (53 ug/L). Concentrations were also relatively high in well MW-42b (25 ug/L to 38 ug/L); moderately high in well MW-7b (10 to 25 ug/L); and relatively lower in wells MW-44b and the Whitson well (less than 10 ug/L). Also similar to TCE, concentrations of cis-1,2-DCE in well MW-44b and the Whitson well showed the least amount of variability between sampling events.

Northerly Plume – Vinyl Chloride (Time Series)

Vinyl chloride was detected in all select Northerly Plume wells (Figure 7). Similar to TCE and cis-1,2-DCE, the highest concentration of vinyl chloride in these wells was observed in well MW-3b with maximum concentrations occurring in March 2009 (56 ug/L) and March 2010 (42 ug/L). Concentrations were also relatively high in well MW-7b (12 to 23 ug/L); moderately high in well MW-42b (6 to 9 ug/L); relatively lower in the Whitson well (4 to 5 ug/L); and lowest in well MW-44b (less than 3 ug/L). Also similar to TCE and cis-1,2-DCE, vinyl chloride concentrations in wells MW-44b and the Whitson well showed the least amount of variability between sampling events.

Northerly Plume – Benzene (Time Series)

Benzene was detected in all select Northerly Plume wells; however, unlike the chloroethenes, the highest benzene concentration in these wells was observed in well MW-44b (Figure 8). Benzene concentrations in MW-44b decrease between 2009 and 2010 (from 39 ug/L to 25 ug/L). Benzene concentrations in all other wells were less than 10 ug/L and relatively consistent during the RI.

The comparatively high but decreasing benzene concentration in well MW-44b is consistent with a historical source release of benzene. Continued monitoring is recommended to assess long-term trends

Northerly Plume – Methylene Chloride (Time Series)

Methylene chloride was detected in all select Northerly Plume wells and similar to benzene and 1,2-DCP, the highest concentration was observed in well MW-44b (Figure 9), suggesting there may have been a higher source release of methylene chloride in the past.

The concentration of methylene chloride in MW-44b varied (with no apparent trend) between 11 and 14 ug/L.

Methylene chloride concentrations were also elevated in well MW-42b (4 to 7 ug/L); moderately elevated in wells MW-3b and MW-7b (about 1 to 4 ug/L); and the lowest in the Whitson well (less than 1 ug/L).

LANDFILL PLUME – TIME SERIES PLOTS

Select wells in the Landfill Plume used in the time series plots are:

- Interflow Aquifer Wells (MW-2c, MW-5c, MW-6c, and MW-22c)
- Frenchman Springs Aquifer Well (MW-28d)

The Interflow aquifer wells are located along the east, west and south boundary of the original landfill (Figure 1). MW-28d is located along the west boundary of the original landfill, just outside the permitted landfill boundary, and about 600 feet downgradient (south) of the old water supply well for the landfill (33E1 in Figure 1). Historically, the old water supply well may have acted as a vertical conduit for groundwater contaminants in upper aquifers (PGG, 2010b). The old supply well was decommissioned in 1993.

The Interflow aquifer wells are solid waste facility monitoring wells with quarterly groundwater data available for the RI dataset period (March 2008 to September 2010). Four rounds of RI samples were collected from MW-28d between 2008 and 2010.

Landfill Plume – 1,2-DCP (Time Series)

Low levels of 1,2-DCP were detected in wells MW-2c, MW-5c and MW-28d with the highest concentrations (about 1.4 to 2 ug/L) observed in MW-5c on the west side of the original landfill (Figure 10). 1,2-DCP was not detected in MW-22c or MW-6c (south and southeast boundary of original landfill). Concentrations were relatively consistent in all wells during the RI.

Landfill Plume – 1,2-DCA (Time Series)

1,2-DCA was detected in only one of the select Landfill Plume wells, MW-5c (Figure 11). Concentrations of 1,2-DCA in MW-5c were relatively consistent during the RI (1.2 to 1.4 ug/L).

Landfill Plume – PCE (Time Series)

PCE was detected in all of the select Landfill Plume wells with the highest concentrations observed in MW-5c on the west side of the original landfill (Figure 12). PCE concentrations generally decreased in MW-5c between 2008 (12 ug/L) to 2010 (8 ug/L); however, continued monitoring will be required to assess long-term trends.

PCE concentrations were also relatively high in MW-22c at the south end of the original landfill (about 3 to 5 ug/L). PCE concentrations in the other wells were lower (about 1 to 2 ug/L).

Landfill Plume – TCE (Time Series)

Similar to PCE, TCE was detected in all of the select Landfill Plume wells with the highest concentrations observed in MW-5c (1.5 to 2.3 ug/L), followed by MW-22c (1 to 1.7 ug/L). TCE concentrations in the other wells were lower (0.3 to 0.6 ug/L).

Landfill Plume – cis-1,2-DCE (Time Series)

Cis-1,2-DCE was detected in all of the select Landfill Plume wells with the highest concentrations observed in MW-5c (Figure 14). Cis-1,2-DCE concentrations generally decreased in MW-5c between 2008 (12 ug/L) and 2010 (8 ug/L); however, continued monitoring will be required to assess long-term trends. Cis-1,2-DCE concentrations in the other wells were all generally less than 2 ug/L (Figure 14).

Landfill Plume – Vinyl Chloride (Time Series)

Except for a single low level detection (0.028 ug/L) in MW-28d in 2008, vinyl chloride was only detected in MW-5c (Figure 15). Concentrations in MW-5c were relatively low and generally decreased between 2008 and 2009 (from 0.4 ug/L to 0.2 ug/L).

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Table 31 Interflow Aquifer – RI Dataset for COCs (MW-4c)
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Table 33 Interflow Aquifer – RI Dataset for COCs (MW-6c)
Table 34 Interflow Aquifer – RI Dataset for COCs (MW-20c)
Table 35 Interflow Aquifer – RI Dataset for COCs (MW-21c)
Table 36 Interflow Aquifer – RI Dataset for COCs (MW-22c)
Table 37 Interflow Aquifer – RI Dataset for COCs (MW-45c)
Table 38 Interflow Aquifer – RI Dataset for COCs (MW-47c)
Table 39 Interflow Aquifer – RI Dataset for COCs (MW-50c)
Table 40 Interflow Aquifer – RI Dataset for COCs (MW-54c)
Table 41 Below Interflow Aquifer – RI Dataset for COCs (MW-16d)
Table 42 Frenchman Springs Aquifer – RI Dataset for COCs (MW-28d)
Table 43 Outwash Aquifer – RI Dataset for COCs (MW-1a)
Table 44 Outwash Aquifer – RI Dataset for COCs (MW-6a)
Table 45 Outwash Aquifer – RI Dataset for COCs (MW-10a)
Table 46 Outwash Aquifer – RI Dataset for COCs (MW-11a)

Table 47 Outwash Aquifer – RI Dataset for COCs (MW-14a)
Table 48 Outwash Aquifer – RI Dataset for COCs (MW-17a)
Table 49 Outwash Aquifer – RI Dataset for COCs (MW-18a)
Table 50 Outwash Aquifer – RI Dataset for COCs (MW-23a)
Table 51 Outwash Aquifer – RI Dataset for COCs (MW-24a)
Table 52 Outwash Aquifer – RI Dataset for COCs (MW-25a)
Table 53 Outwash Aquifer – RI Dataset for COCs (MW-26a)

Location G
Location H
Location F
Location B
Location C
Location A
Location E
Location D
Former Buried Drums Location
The Hole
Original Landfill
New Landfill
Lined Leachate Pond
Lysimeter #1 Access Manhole
Lysimeter #2 Access Manhole
SR 28
Atkins Old
Atkins New
Whitson
Abrams (aka Paris)

Quarterly Monitoring Well (MW)
Remedial Investigation Monitoring Well (MW)
Gas Extraction (GE)
Gas Probe (GP)
Other Well
Lysimeter
Access Manhole
Locations A through G Refer to Phase 2 Well Locations (See Tables 2 and 4)

Approximate Extent of Groundwter Contamination (VOCs' Above RI Screening Levels)
Northerly Plume -Roza Aquifer
Landfill Plume - Interflow Aquifer
Permitted Landfill Property Boundary
County Owned Parcels

Basalt Outcrops
Outwash Water Table / Top of Basalt Contact
Landfill Extents

0 Feet 400
Orthophoto: June 2011 (Bing Maps)

Figure 1
Ephrata Landfill Map

Ephrata Landfill
RIFS

PgG

K:\PONY\Ephrata\CA_2005_JE0511\GIS\mxds\RIFS_SiteMap.mxd, 7/6/2012

Figure 2. Time Series for 1,2-Dichloropropane (1,2-DCP)
Select Wells in Northerly Plume

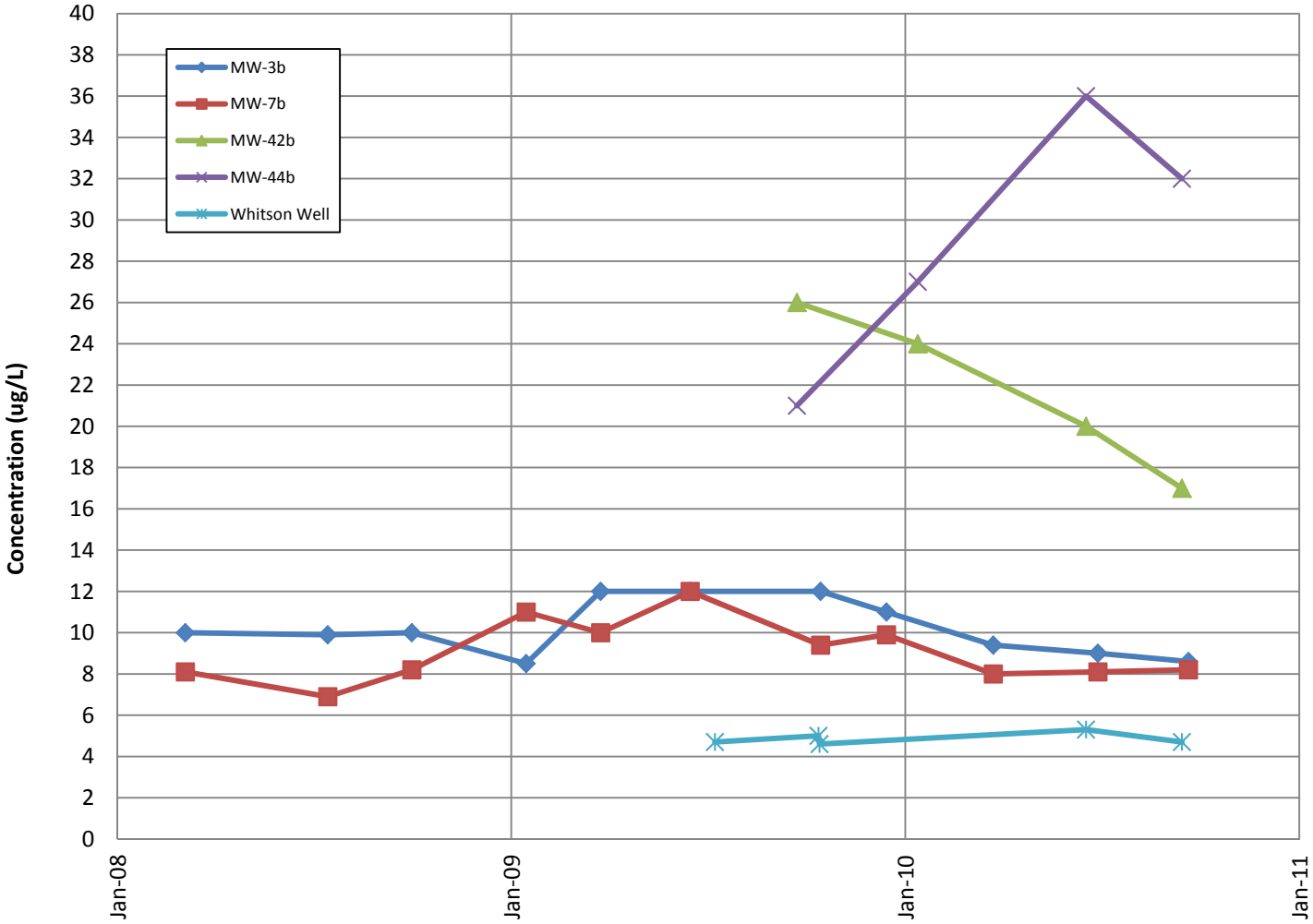

Figure 3. Time Series for 1,2-Dichloroethane (1,2-DCA)
Select Wells in Northerly Plume

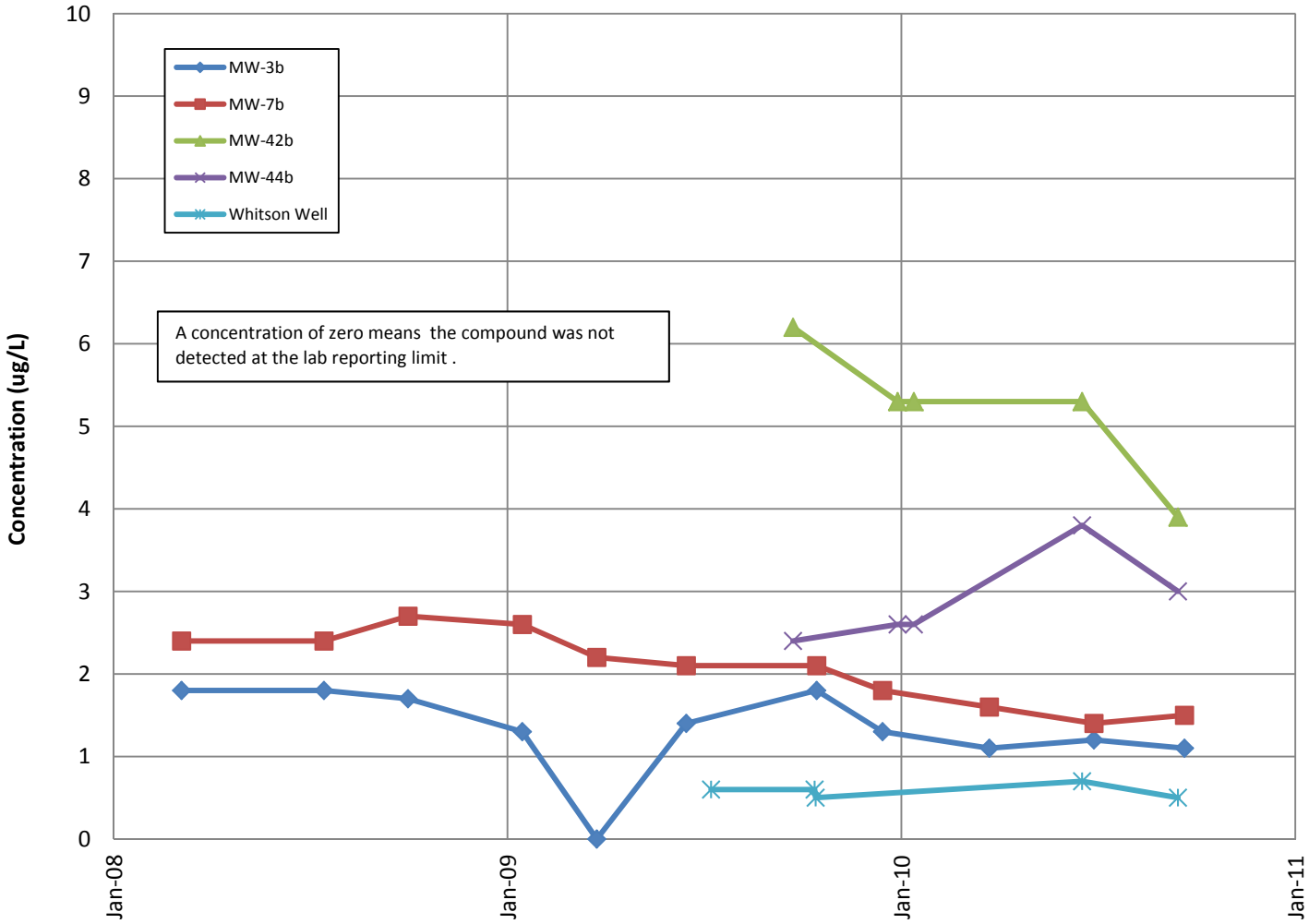

Figure 4. Time Series for Tetrachloroethene (PCE)
Select Wells in Northerly Plume

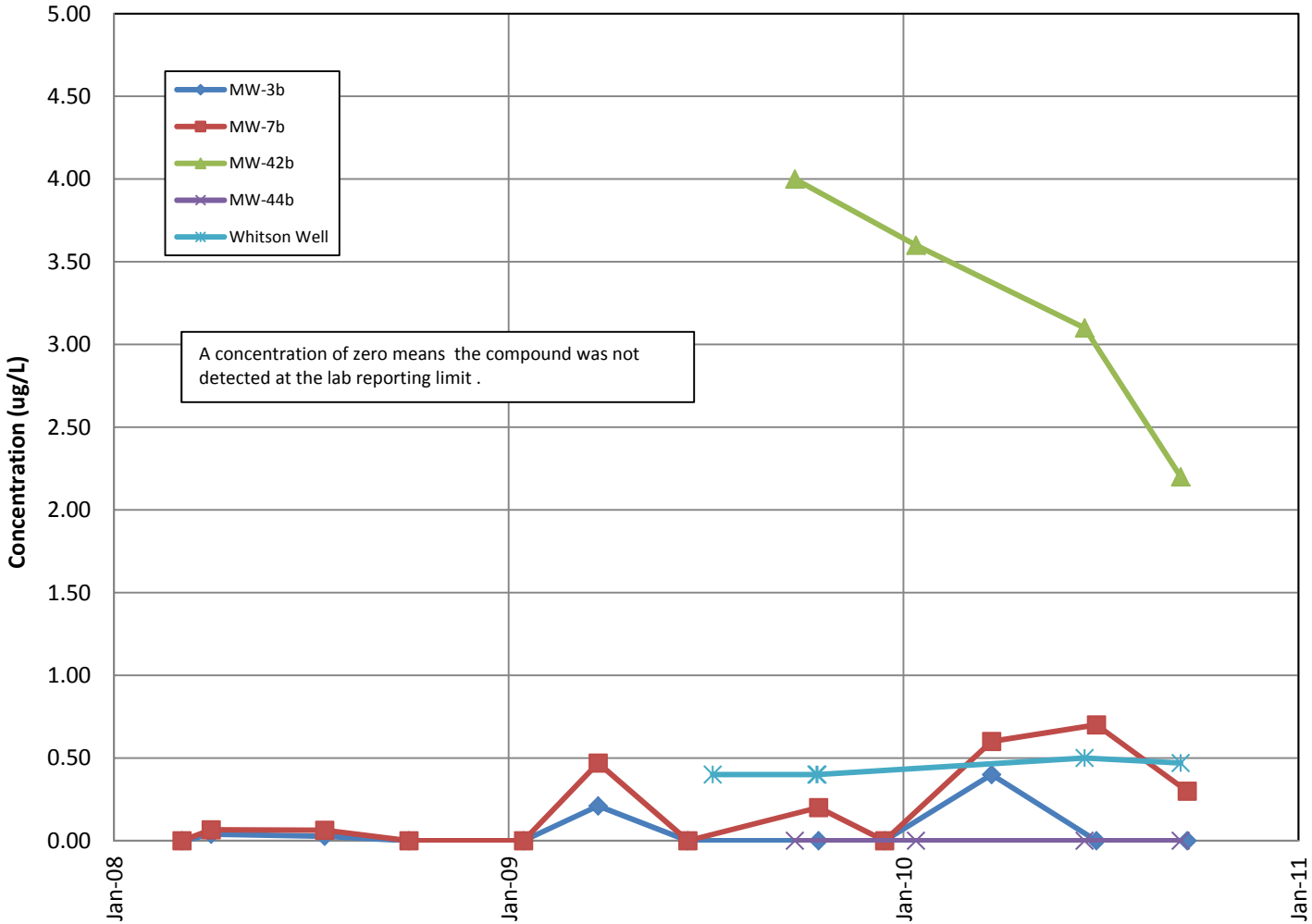

Figure 5. Time Series Trichloroethene (TCE)
Select Wells in Northerly Plume

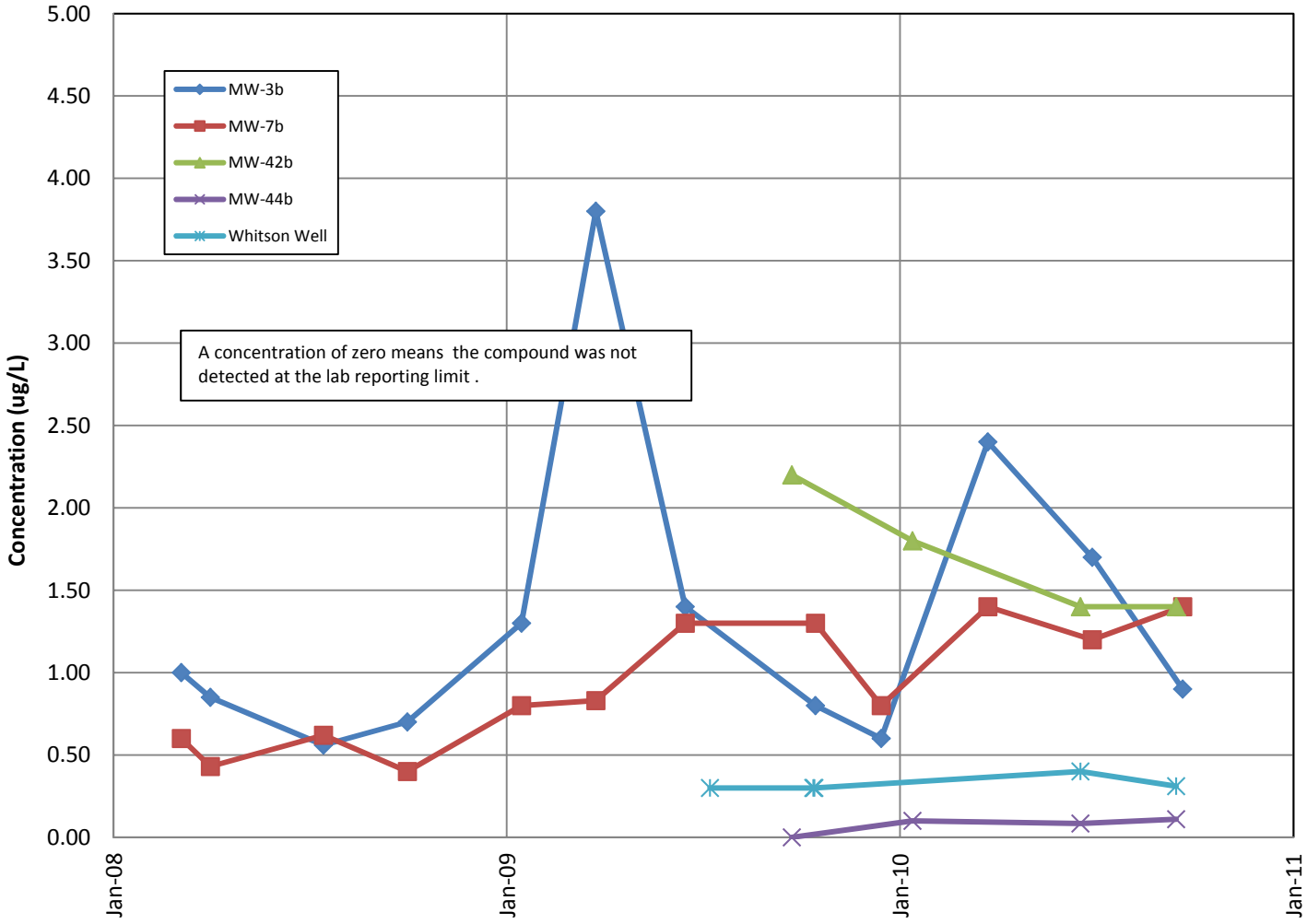

Figure 6. Time Series Cis-1,2-Dichloroethene
Select Wells in Northerly Plume

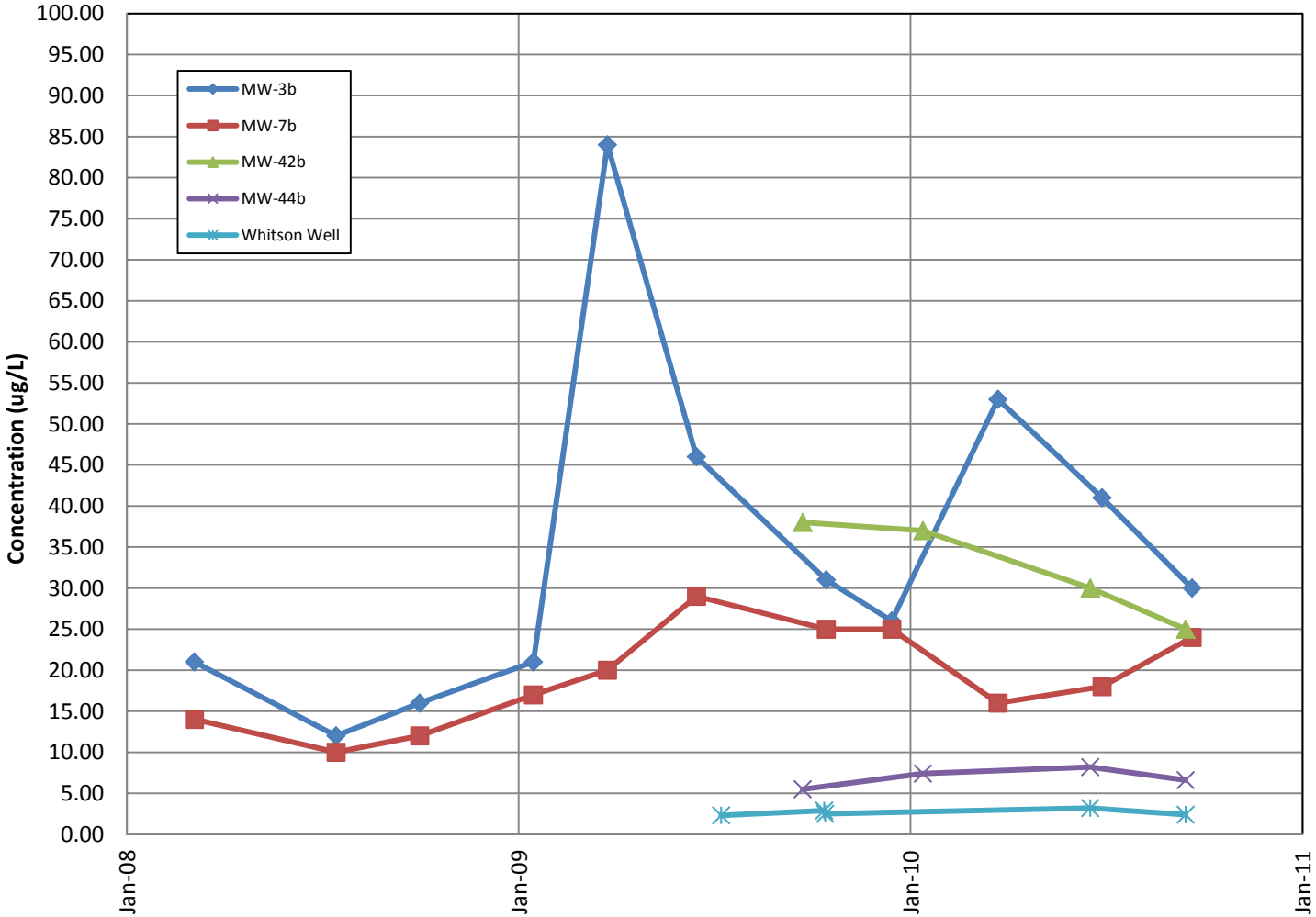

Figure 7. Time Series Vinyl Chloride
Select Wells in Northerly Plume

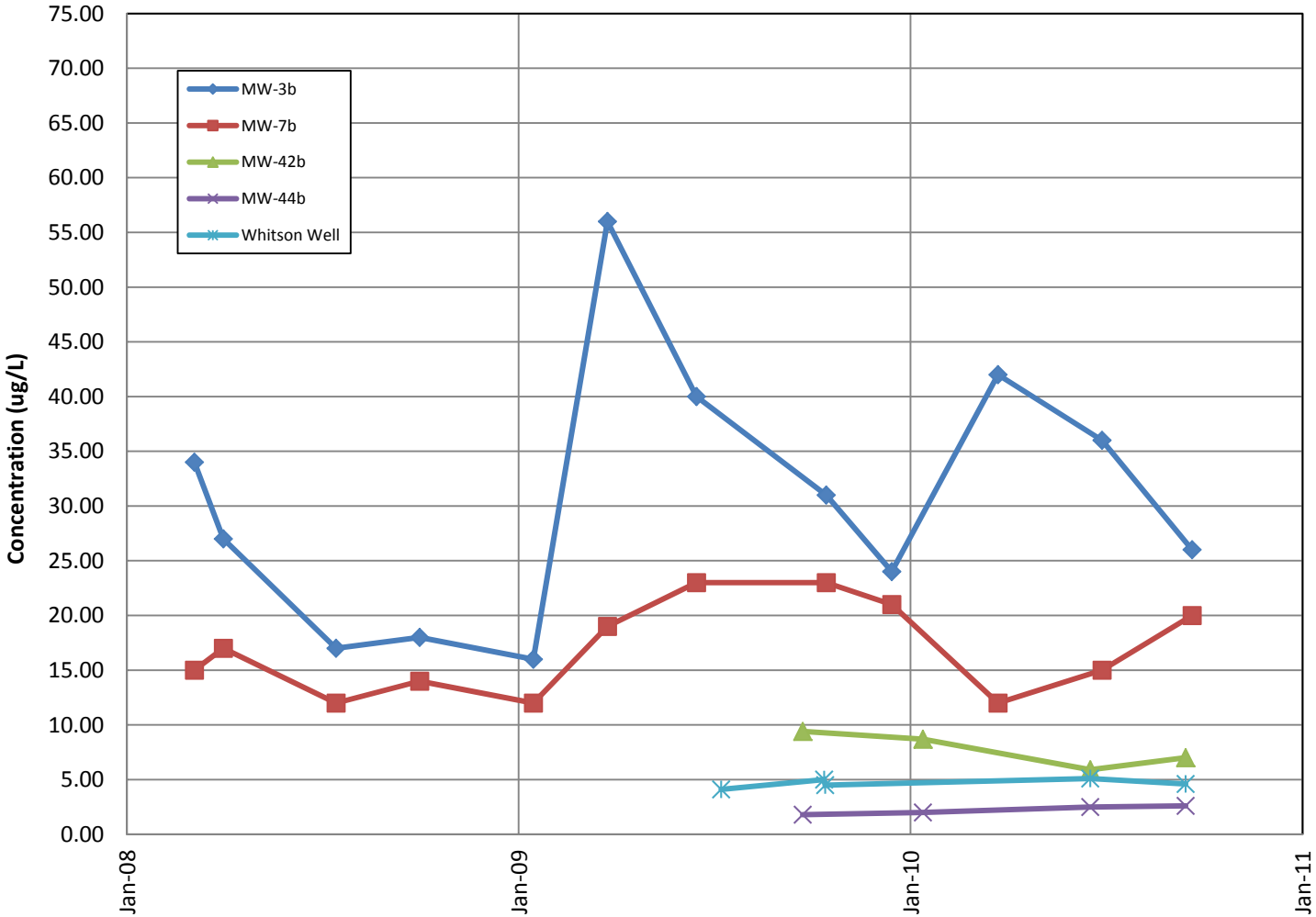

Figure 8. Time Series Benzene
Select Wells in Northerly Plume

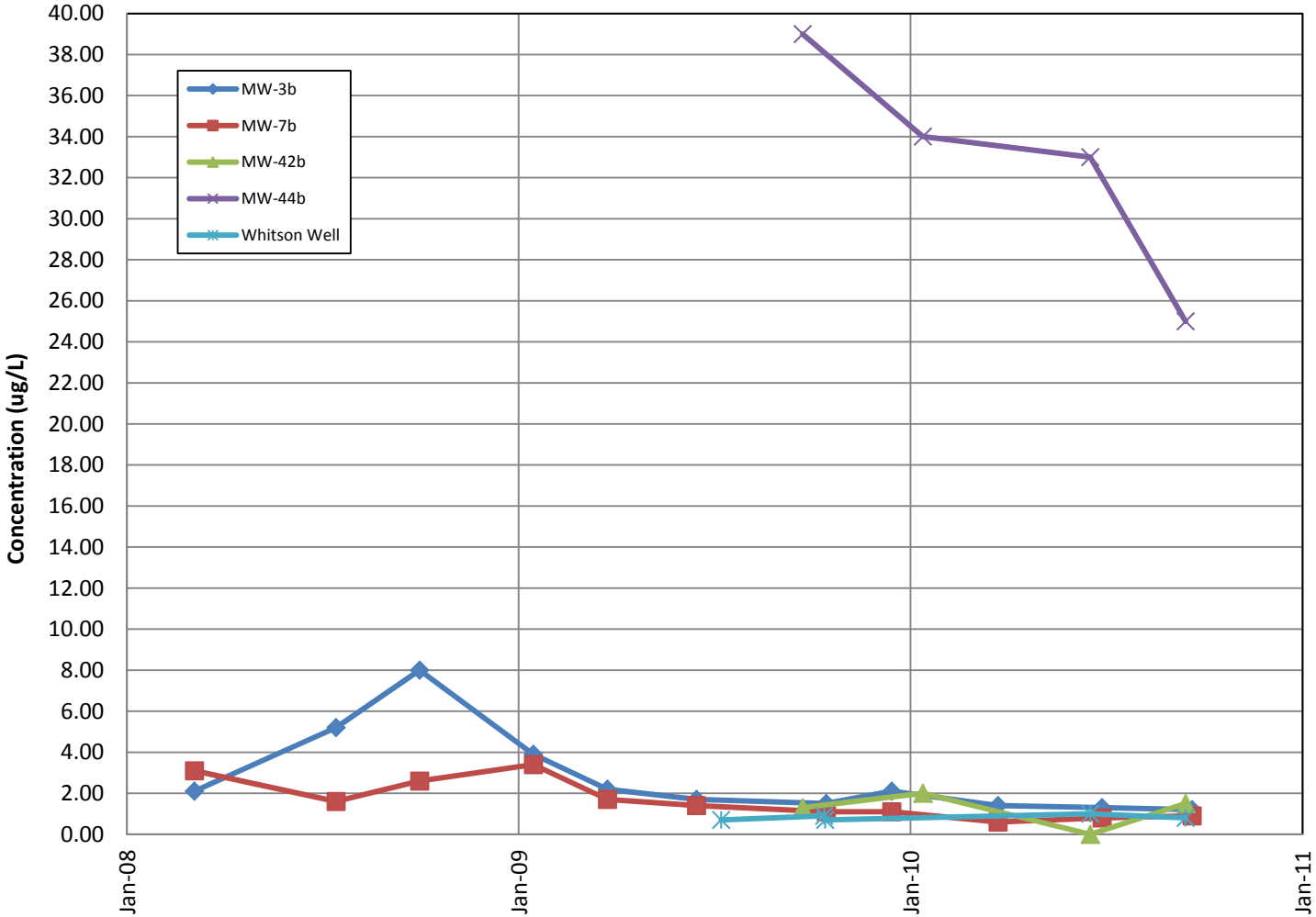

Figure 9. Time Series Methylene Chloride
Select Wells in Northerly Plume

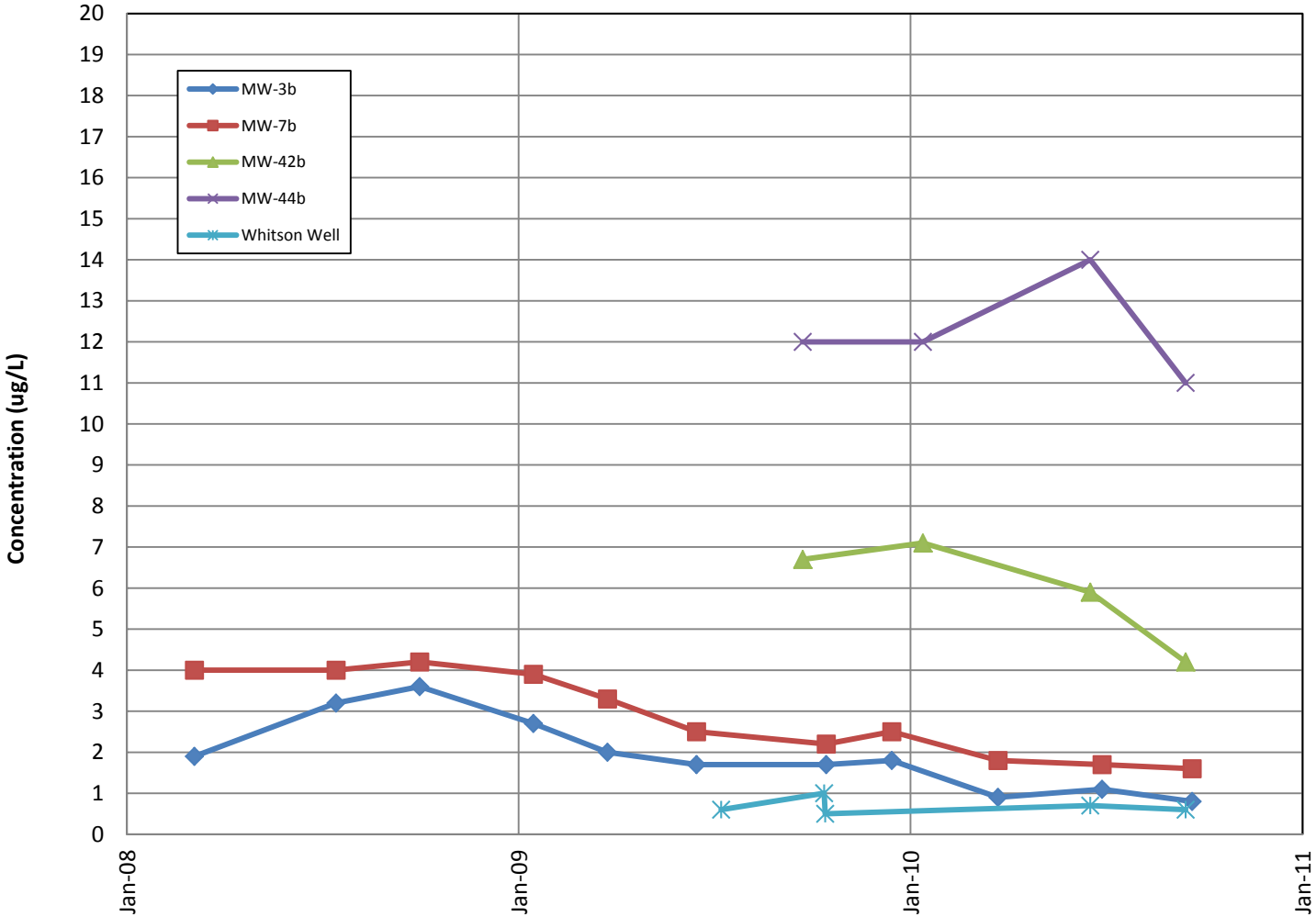

Figure 10. Time Series for 1,2-Dichloropropane (1,2-DCP)
Select Wells in Landfill Plume

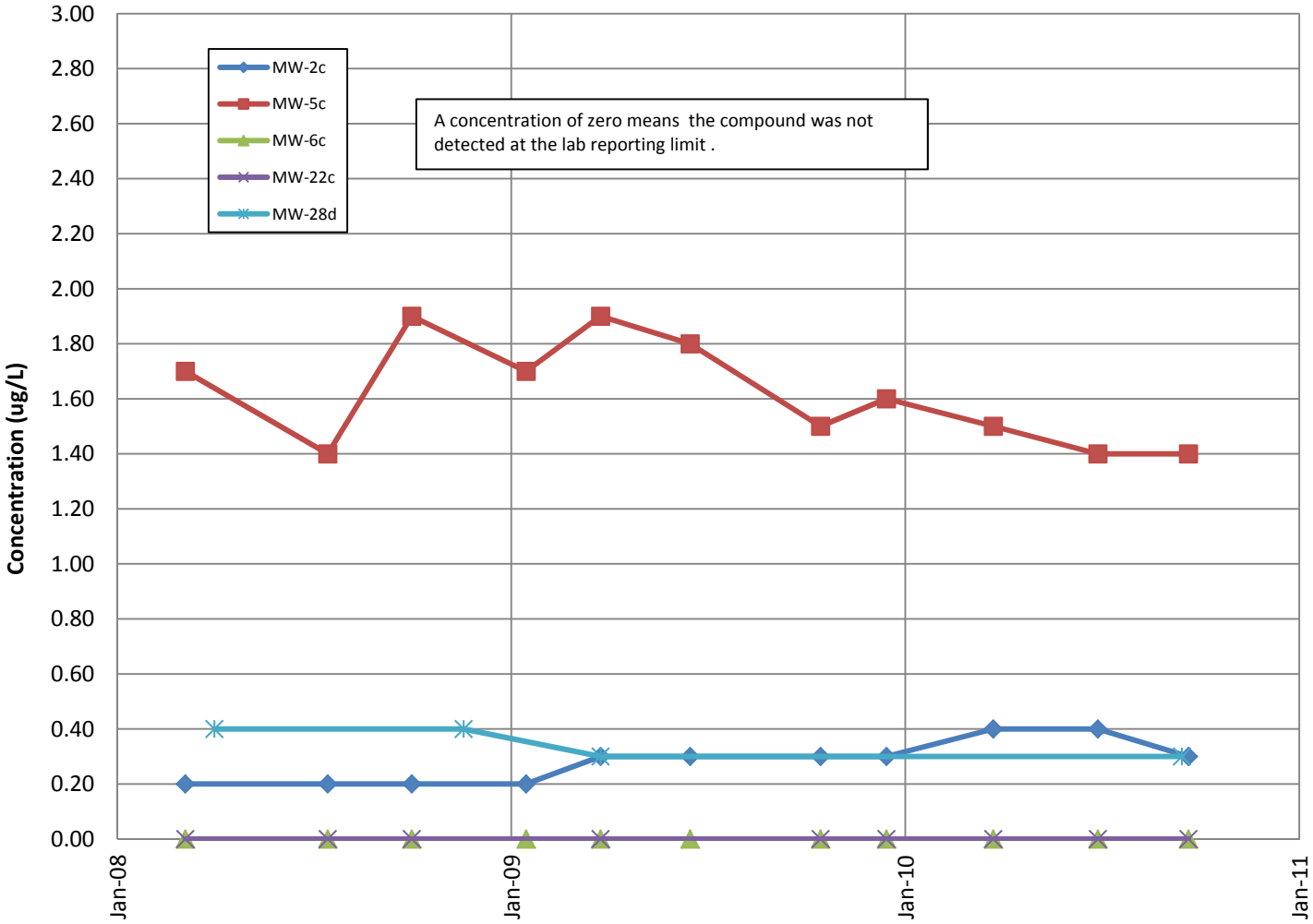

Figure 11. Time Series for 1,2-Dichloroethane (1,2-DCA)
Select Wells in Landfill Plume

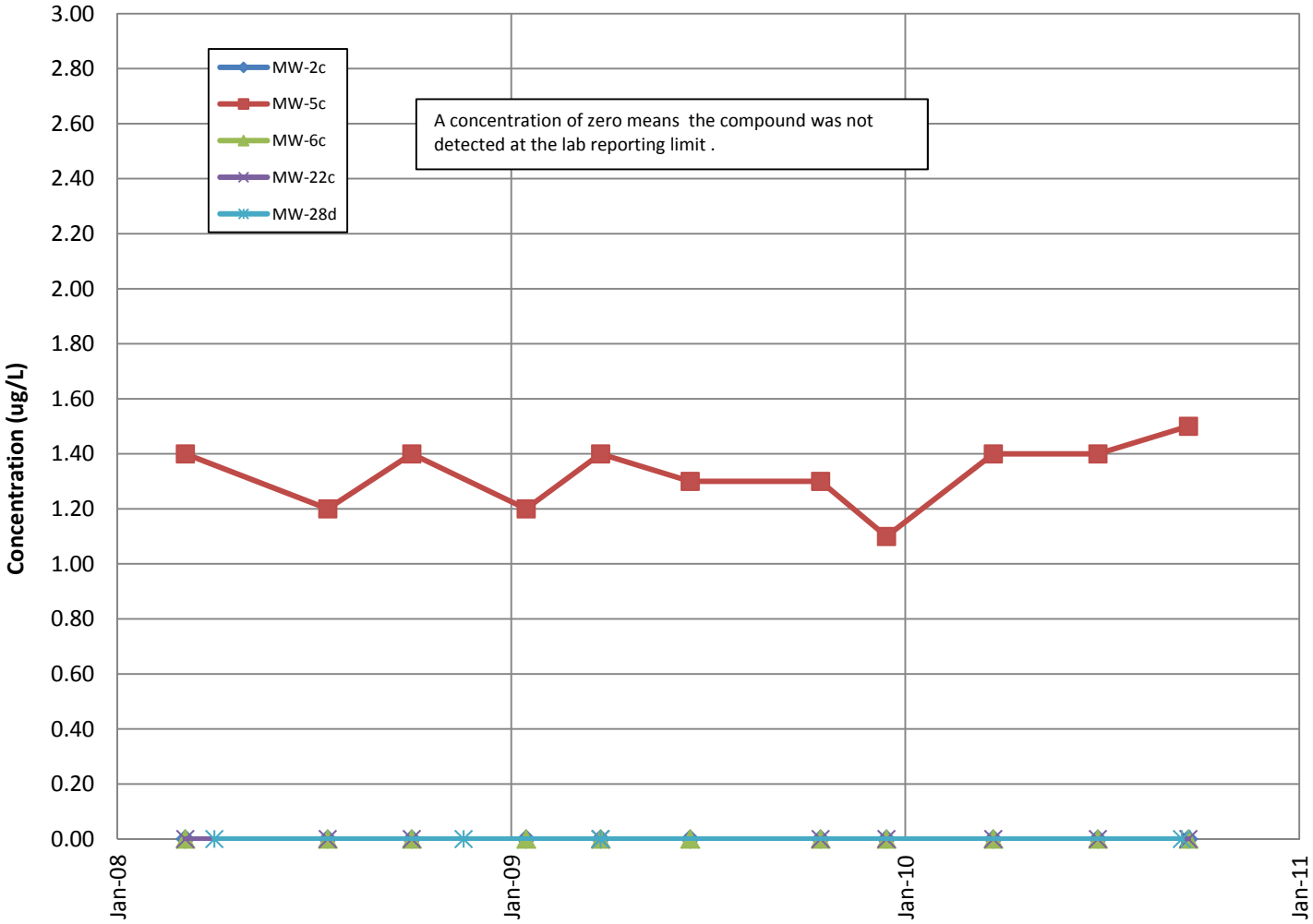

Figure 12. Time Series for Tetrachloroethene (PCE)
Select Wells in Landfill Plume

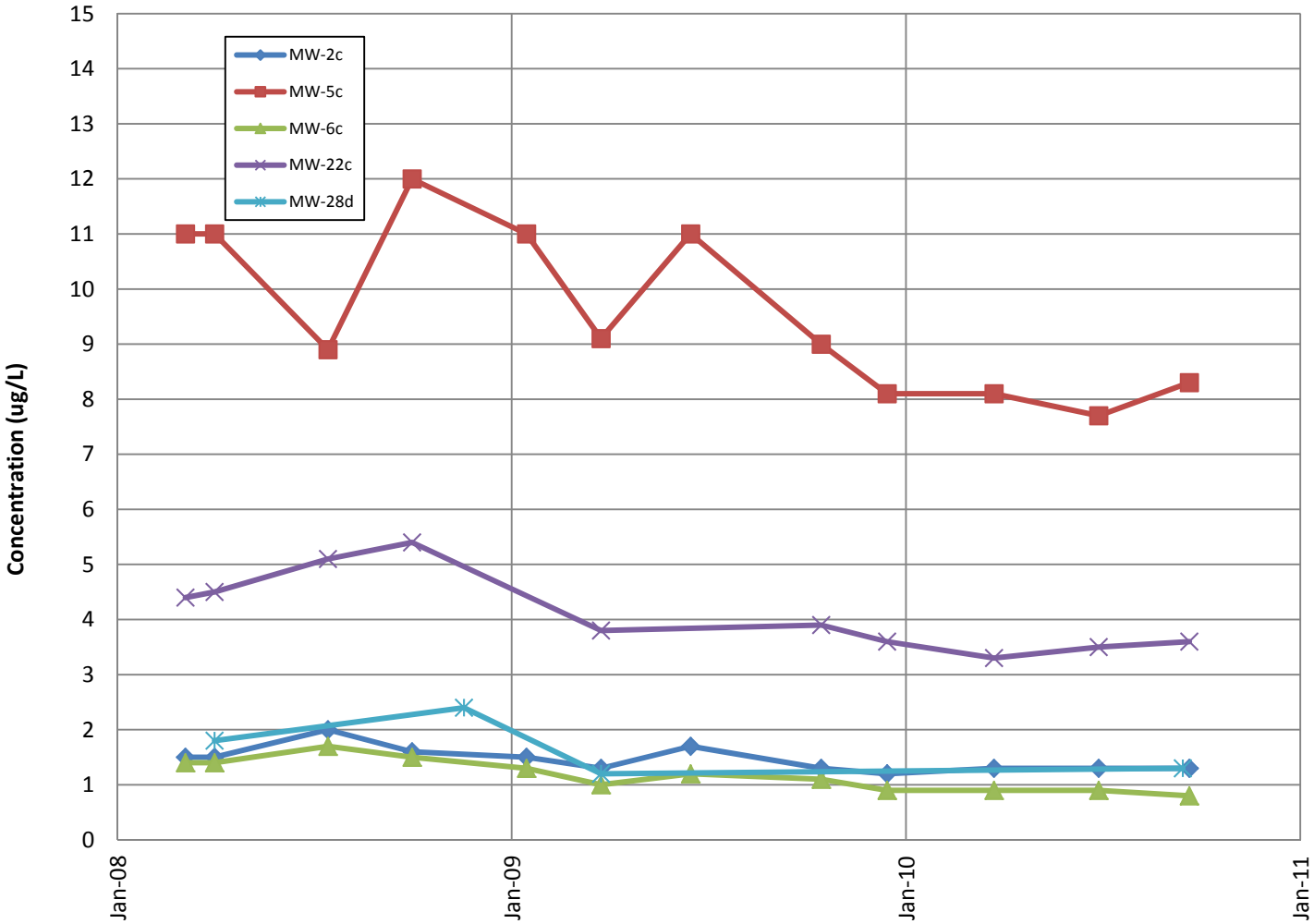

Figure 13. Time Series for Trichloroethene (TCE)
Select Wells in Landfill Plume

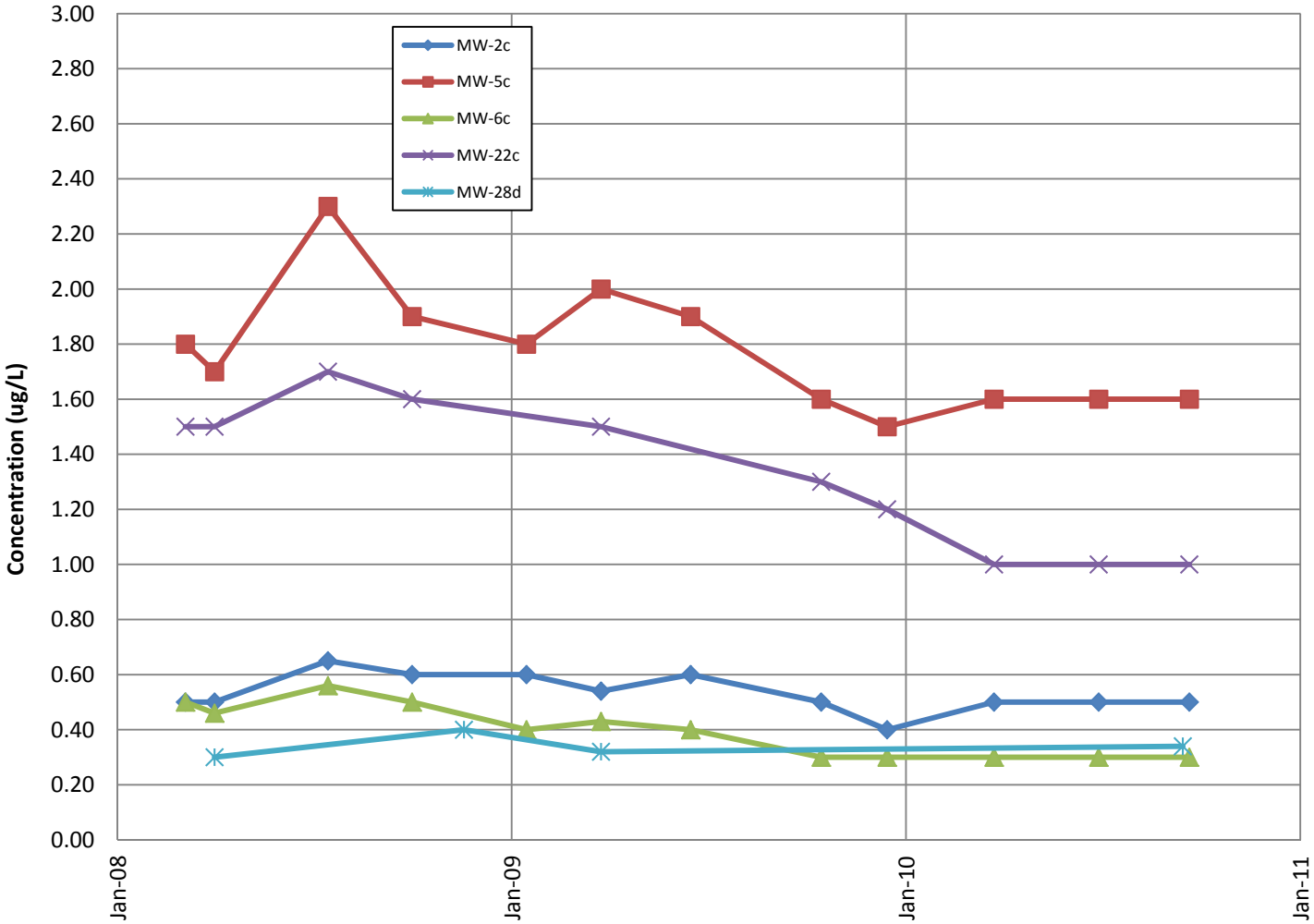

Figure 14. Time Series for cis-1,2-Dichloroethene
Select Wells in Landfill Plume

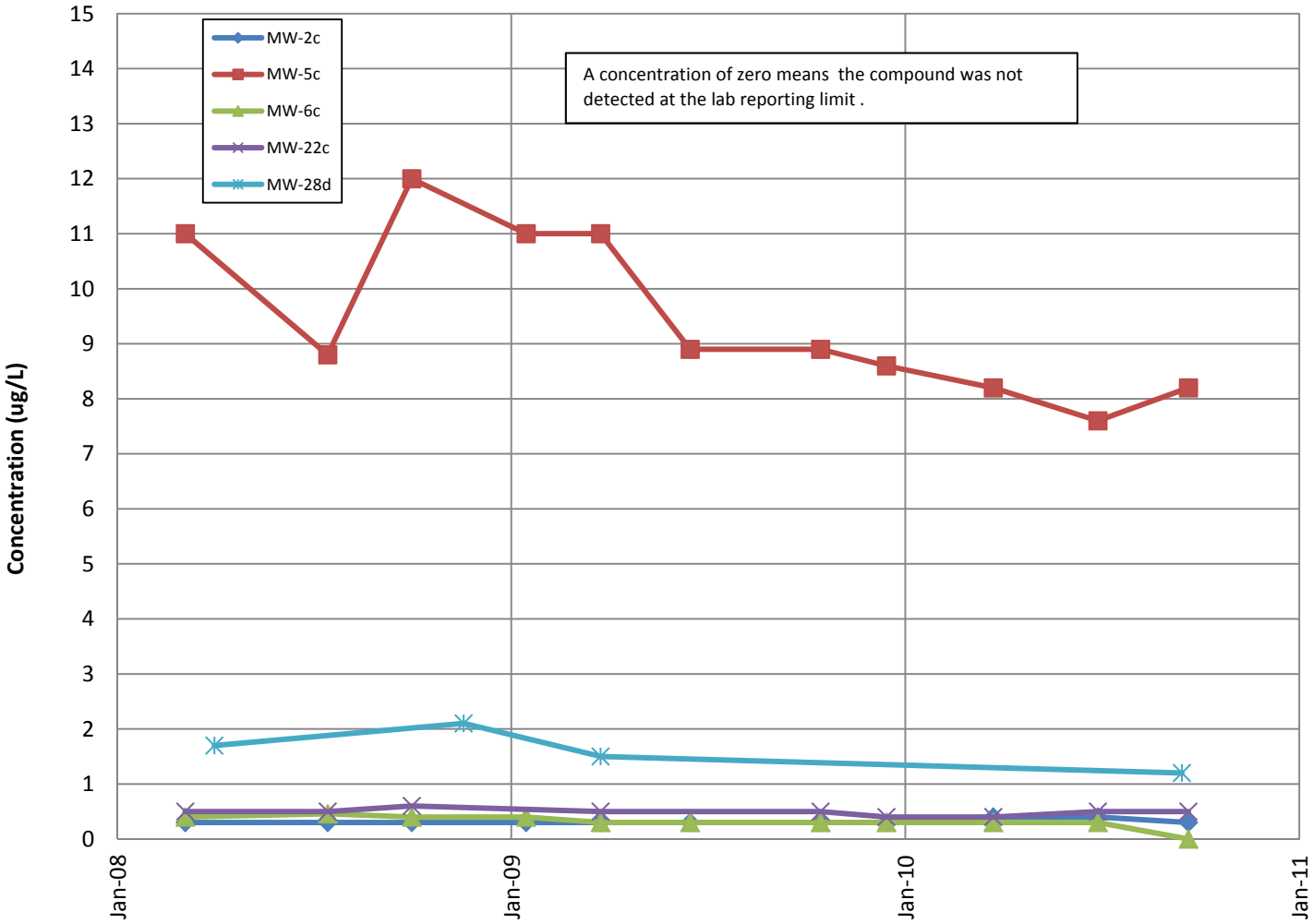

Figure 15. Time Series for Vinyl Chloride
Select Wells in Landfill Plume

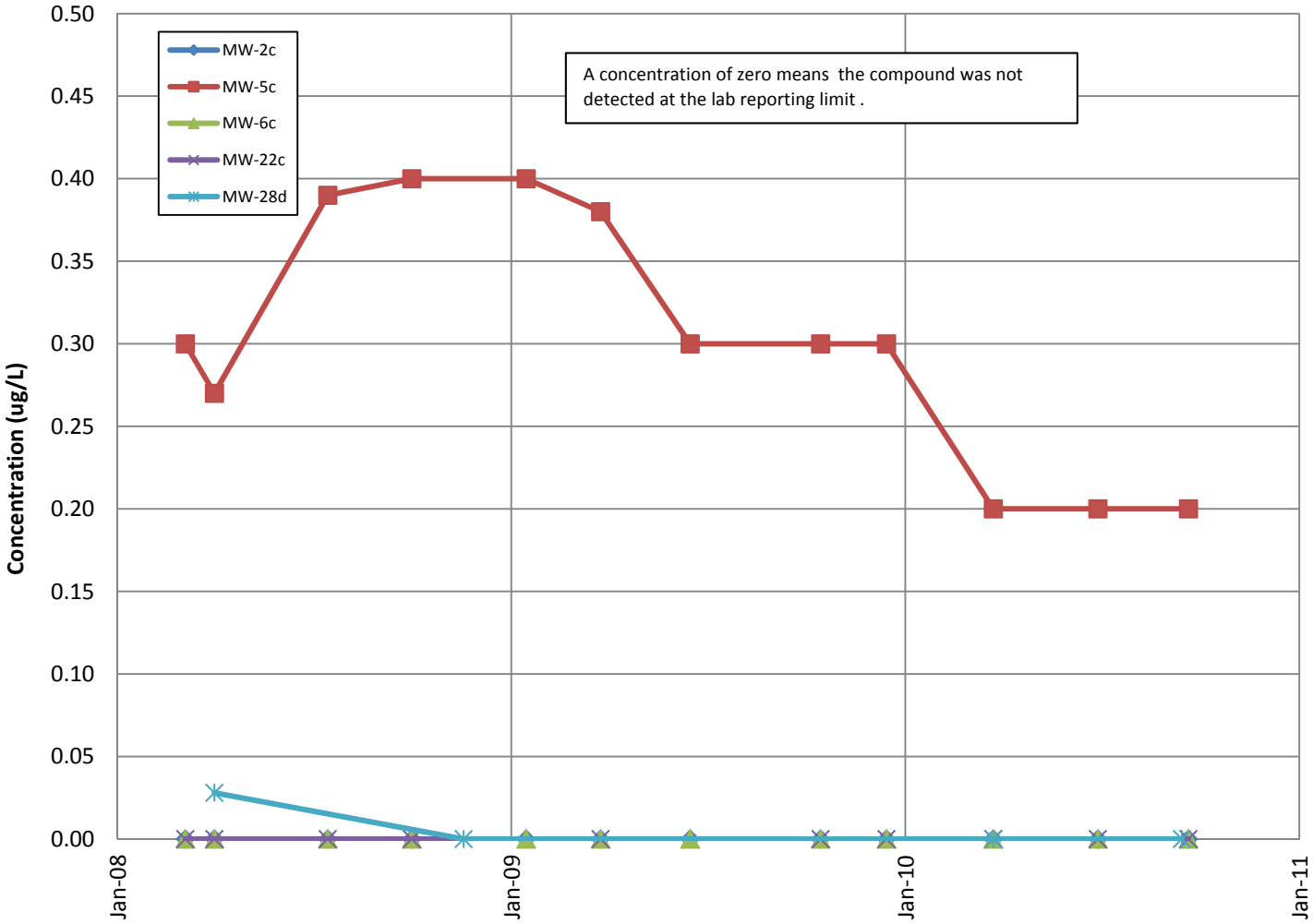

Table 1. Updated Contaminants of Concern (COCs) - Ephrata Landfill

Updated COCs[1]	Units	Group[2]	Group Classes[3]	Old RI Screening Level	Old RI Screening Level Source	New RI Screening Level[4]	New RI Screening Level Source	Notes on New Updates[5]
1,2-Dichloropropane	ug/L	VOC	12-DCP	0.64	MTCA-B car	5	FED	New Screening Level: CLARC no longer has value (now based on FED MCL)
Benzene	ug/L	VOC	BTEX	0.8	MTCA-B car	0.8	MTCA-B car	SAME
Ethylbenzene	ug/L	VOC	BTEX	800	MTCA-B non-car	700	FED	New Screening Level: FED MCL is lower (correction from orginal)
o-Xylene	ug/L	VOC	BTEX	16000	MTCA-B non-car	1600	MTCA-B non-car	New Screening Level: CLARC updated to lower value
Toluene	ug/L	VOC	BTEX	640	MTCA-B non-car	640	MTCA-B non-car	SAME
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MTCA-B non-car	1600	MTCA-B non-car	SAME
1,1,1-Trichloroethane	ug/l	VOC	Ethanes	200	FED MCL	200	FED	SAME
1,1,2-Trichloroethane	ug/L	VOC	Ethanes	0.77	MTCA-B car	0.77	MTCA-B car	SAME
1,1-Dichloroethane	ug/L	VOC	Ethanes	1600	MTCA-B non-car	1600	MTCA-B non-car	SAME
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethanes	0.48	MTCA-B car	0.48	MTCA-B car	SAME
Chloroethane	ug/L	VOC	Ethanes	15	MTCA-B car	NA	NA	No Screening Level: CLARC no longer has value (no FED MCL)
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED MCL	7	FED MCL	SAME
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	70	FED MCL	16	MTCA-B non-car	New Screening Level: CLARC updated to lower value (now based on CLARC)
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MTCA-B car	0.081	MTCA-B car	SAME
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MTCA-B car	0.49	MTCA-B car	SAME
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MTCA-B car	0.029	MTCA-B car	SAME
2-Butanone	ug/L	VOC	Ketone	4800	MTCA-B non-car	4800	MTCA-B non-car	SAME
2-Hexanone	ug/L	VOC	Ketone	NA	NA	NA	NA	SAME
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MTCA-B non-car	640	MTCA-B non-car	SAME
Acetone	ug/L	VOC	Ketone	800	MTCA-B non-car	7200	MTCA-B non-car	New Screening Level: CLARC updated to higher value
Methylene Chloride	ug/l	VOC	MC	5	FED MCL	5	FED MCL	SAME
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	400	MTCA-B non-car	NA	NA	No Screening Level: CLARC no longer has value (no FED MCL).
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	400	MTCA-B non-car	80	MTCA-B non-car	New COC based on CLARC updated to lower value
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	NA	NA	SAME
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	NA	NA	SAME
Bromobenzene	ug/L	VOC	Other	NA	NA	NA	NA	SAME
Chloroform	ug/L	VOC	Other	7.2	MTCA-B car	80	MTCA-B non-car	New Screening Level: carcinogenic value dropped (now based on non-carcinogenic value)
Chloromethane	ug/L	VOC	Other	3.4	MTCA-B car	NA	NA	New Screening Level: CLARC no longer has value (no FED MCL)
Naphthalene	ug/L	VOC	Other	160	MTCA-B non-car	160	MTCA-B non-car	SAME
n-Butylbenzene	ug/L	VOC	Other	NA	NA	NA	NA	SAME
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	NA	NA	SAME
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED MCL	6	FED MCL	SAME
2-Methylphenol	ug/L	SVOC	SVOC	400	MTCA-B non-car	400	MTCA-B non-car	New COC based on recent SVOC analysis (MW-38p2)
4-Methylphenol	ug/L	SVOC	SVOC	40	MTCA-B non-car	40	MTCA-B non-car	New COC based on recent SVOC analysis (MW-35p2 and MW-38p2)
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	10	GWQS	SAME
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	250	GWQS	SAME
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	250	GWQS	SAME
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	500	GWQS	SAME
Arsenic, Total	ug/L	Metals	Metals	0.058	MTCA-B car	0.058	MethB carc	SAME
Iron, Dissolved	ug/L	Metals	Metals	300	GWCL	11200	MTCA-B non-car	New Screening Level: CLARC now has value (previously no CLARC value)
Iron, Total	ug/L	Metals	Metals	300	GWCL	11200	MTCA-B non-car	New Screening Level: CLARC now has value (previously no CLARC value)
Manganese, Dissolved	ug/L	Metals	Metals	2200	MTCA-B non-car	2200	MTCA-B non-car	SAME
Manganese, Total	ug/L	Metals	Metals	2200	MTCA-B non-car	2200	MTCA-B non-car	SAME

Note

1. The following COCs have been eliminated from the original COC list:
   n-proplybenzene is no longer a COC. All detections are all below the new CLARC value.
   1,2-dichlorobenzene is no longer a COC. It was included on the original COC list developed for the work plan, but subsequent RI screening indicates concentrations have not exceeded the screening value in any well during the RI or historically
   1,4-dichlorobenzene is no longer a COC. CLARC no longer has a value and the new criteria is based on the federal MCL. No wells have exceeded the federal MCL criteria
   Trans-1,2-dichloroethene is no longer a COC. It was included on the original COC list developed for the work plan, but subsequent RI screening indicates concentrations have not exceeded the screening level in any wells during the RI.
   A single exceedance of trans-1,2-dichloroethene occured in MW-3b in 1994 but that historical data is suspect given the concentrations typically observed in this well.
   Trichlorofluoromethane is no longer a COC. It was included on the original COC list developed for the work plan, but subsequent RI screening indicates concentrations have not exceeded the screening level in any wells during the RI or historically
2. COCs are grouped into volatile organic compounds (VOCs), semi-VOCs, Inorganics and Metals
3. COC groups are further organized into VOC classes (i.e. chloro-ethenes)
4. New screening levels are either the same as the old screening level or revised based on April 2011 updates to MTCA cleanup levels from the Cleanup Level and Risk Calculation (CLARC) databse
5. Notes on updated COC and/or RI screening levels

NA = no screening criteria available

Table 2. Round 8 Groundwater Analytical Results (June 2010)

				Former Drum Area								Loc. D[2]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G
Organic Parameters (VOCs)	Units	RI Screening Level	Screening Level Source	MW-29b	MW-30b	MW-31b	MW-32a	MW-33p2	MW-35p2	MW-37p1	MW-38p2	MW-39p2	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c
1,1,1,2-Tetrachloroethane	ug/L	1.7	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,1-Trichloroethane	ug/l	200	FED	0.6U	**0.6**	**0.8**	**250**	0.6U	20U	**3.2**	**4200**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane	ug/L	0.22	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	0.77	MethB carc	0.6U	0.2U	0.2U	**0.9**	0.6U	20U	0.2U	**35**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichlorotrifluoroethane	ug/L	240000	MethB non-carc.	0.6U	0.2U	0.2U	**1.8**	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	1600	MethB non-carc.	**66**	**1.8**	**2.2**	**200**	**19**	**340**	**13**	**4500**	**0.5**	0.2U	0.2U	**44**	**14**	**64**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**1.4**	0.2U
1,1-Dichloroethene	ug/L	7	FED	**0.8**	**0.043**	**3.6**	**15**	**0.038**	**0.35**	**3.4**	**710**	0.02U	0.02U	0.02U	**3.2**	**0.8**	**0.74**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
1,1-Dichloropropene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene	ug/L	NA	NA	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,3-Trichloropropane	ug/L	0.00146	MethB carc	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene	ug/L	1.51	MethB carc	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	NA	NA	0.6U	0.2U	0.2U	**74**	**17**	**140**	0.2U	**110**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane	ug/L	0.0547	MethB carc	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichlorobenzene	ug/L	600	FED	**17**	0.2U	0.2U	**1.2**	**16**	20U	0.2U	20U	0.2U	0.2U	0.2U	**2.7**	**0.4**	**21**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	0.48	MethB carc	**5.4**	0.2U	0.2U	**3.6**	**1.6**	20U	**0.6**	**410**	0.2U	0.2U	0.2U	**5.3**	**2.4**	**3.8**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloropropane	ug/L	5	FED	**67**	0.2U	0.2U	**30**	**1.3**	20U	**36**	**1200**	0.2U	0.2U	0.2U	**20**	**27**	**36**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**0.4**	0.2U
1,3,5-Trimethylbenzene	ug/L	80	MethB non-carc.	0.6U	0.2U	0.2U	**26**	**4.7**	**52**	0.2U	**76**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	NA	NA	**4.7**	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichloropropane	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	ug/L	75	FED	**4.6**	0.2U	0.2U	**0.9**	**32**	20U	0.2U	20U	**0.4**	0.2U	0.2U	**2.6**	**0.3**	**9.4**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2,2-Dichloropropane	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-butanone	ug/L	4800	MethB non-carc.	15U	5U	5U	15U	15U	500U	5U	500U	5U	5U	5U	50U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2-Chloroethylvinylether	ug/L	NA	NA	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Chlorotoluene	ug/L	160	MethB non-carc.	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Hexanone	ug/L	NA	NA	15U	5U	5U	15U	15U	500U	5U	500U	5U	5U	5U	50U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Chlorotoluene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	NA	NA	0.6U	0.2U	0.2U	**2.3**	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Methyl-2-pentanone (MIBK)	ug/L	640	MethB non-carc.	15U	5U	5U	15U	15U	**760**	5U	500U	5U	5U	5U	50U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	7200	MethB non-carc.	15U	5U	5U	15U	**32**	500U	**7.8**	500U	5U	5U	5U	50U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acrolein	ug/L	4	MethB non-carc.	15U	5U	5U	15U	15U	500U	5U	500U	5U	5U	5U	50U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acrylonitrile	ug/L	0.081	MethB carc	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzene	ug/L	0.8	MethB carc	**5.1**	0.2U	0.2U	**2.7**	**24**	**64**	**0.2**	**150**	0.2U	0.2U	0.2U	2U	0.2U	**33**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	NA	NA	**0.7**	0.2U	0.2U	0.6U	**1.9**	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	4M	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromochloromethane	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromodichloromethane	ug/L	0.71	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoethane	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	ug/L	5.5	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromomethane	ug/L	11	MethB non-carc.	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	ug/L	800	MethB non-carc.	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Carbon Tetrachloride	ug/L	0.625	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chlorobenzene	ug/L	100	FED	**3.2**	0.2U	0.2U	0.6U	**4.9**	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	**2.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	NA	NA	**14**	0.2U	**0.5**	**5.9**	**210**	**650**	**0.4**	20U	0.2U	0.2U	0.2U	**200**	**21**	**440**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	80	MethB non-carc.	0.6U	0.2U	0.2U	0.6U	0.6U	20U	**1.5**	**280**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	NA	NA	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U

Table 2. Round 8 Groundwater Analytical Results (June 2010)

Organic Parameters (VOCs) Cont.	Units	RI Screening Level	Screening Level Source	Former Drum Area								Loc. D[2]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G
				MW-29b	MW-30b	MW-31b	MW-32a	MW-33p2	MW-35p2	MW-37p1	MW-38p2	MW-39p2	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c
cis-1,2-Dichloroethene	ug/L	16	MethB non-carc.	**21**	**0.6**	0.2U	**26**	**0.8**	20U	**7.5**	**1100**	**1.6**	0.2U	0.2U	**30**	**17**	**8.2**	**0.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,3-Dichloropropene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dibromochloromethane	ug/L	0.52	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dibromomethane	ug/L	80	MethB non-carc.	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	700	FED	0.6U	0.2U	0.2U	**140**	**50**	**830**	0.2U	**610**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylene Dibromide (EDB)	ug/L	0.00051	MethB carc	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Hexachlorobutadiene	ug/L	0.56	MethB carc	1.5U	0.5U	0.5U	1.5U	1.5U	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Isopropylbenzene (Cumene)	ug/L	800	MethB non-carc.	0.6U	0.2U	0.2U	**7.2**	**2.2**	**23**	0.2U	**29**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Methyl iodide	ug/L	NA	NA	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methylene Chloride	ug/l	5	FED	**2.3**	0.5U	0.5U	**3.2**	**11**	50U	0.5U	**230**	0.5U	0.5U	0.5U	**5.9**	**1.9**	**14**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	160	MethB non-carc.	1.5U	0.5U	0.5U	**27**	**9.2**	50U	0.5U	50U	0.5U	0.5U	0.5U	5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
n-Propylbenzene	ug/L	800	MethB non-carc.	0.6U	0.2U	0.2U	**10**	**2.3**	**33**	0.2U	**20**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	1600	MethB non-carc.	0.6U	0.2U	0.2U	**200**	**42**	**810**	0.2U	**1200**	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	ug/L	100	FED	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
tert-Butylbenzene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	0.081	MethB carc	**0.37**	**0.028**	**0.097**	**2.6**	**0.049**	**0.71**	**3.1**	**17**	**1.1**	**0.17**	**2.2**	**3.1**	**0.91**	0.02U	**0.038**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
Toluene	ug/L	640	MethB non-carc.	0.6U	0.2U	**0.5**	**180**	**4.8**	**10000**	0.2U	**3800**	0.2U	0.2U	0.2U	2U	**0.3**	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,2-Dichloroethene	ug/L	100	FED	0.6U	0.2U	0.2U	0.6U	**1.4**	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	**0.2**	**2.4**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene	ug/L	NA	NA	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene	ug/L	NA	NA	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene (TCE)	ug/L	0.49	MethB carc	**1.8**	**0.04**	**0.12**	**5.6**	**0.5**	**0.84**	**3.9**	**50**	**0.4**	0.02U	**1.2**	**1.4**	**0.8**	**0.084**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
Trichlorofluoromethane	ug/l	2400	MethB non-carc.	0.6U	0.2U	0.2U	0.6U	0.6U	20U	0.2U	20U	0.2U	0.2U	0.2U	2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Acetate	ug/L	8000	MethB non-carc.	3U	1U	1U	3U	3U	100U	1U	100U	1U	1U	1U	10U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	ug/L	0.029	MethB carc	**38**	**0.025**	**7.8**	**16**	**4.1**	**58**	**0.077**	**1300**	**0.092**	0.02U	**0.081**	**5.9**	**0.24**	**2.5**	**0.026**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
Xylene Isomers, M+P	ug/L	1600	MethB non-carc.	1.2U	0.4U	0.4U	**290**	**47**	**1800**	0.4U	**2400**	0.4U	0.4U	0.4U	4U	0.4U	4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U

Inorganic Parameters	Units	RI Screening Level	Screening Level Source	Former Drum Area								Loc. D[2]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G
				MW-29b	MW-30b	MW-31b	MW-32a	MW-33p2	MW-35p2	MW-37p1	MW-38p2	MW-39p2	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c
Alkalinity (as CaCO3)	mg/L	NA	NA	288	155	122	943	1470	844	516	470	790	130	323	669	258	655	112	148	148	179	103	126	163	121	198	118
Arsenic, Dissolved[1]	ug/L	0.058	MethB carc	0.6	0.6	0.3	13.8	9.1	16.3	0.5U	2.9	4.6	0.5U	0.5U	1.3	1	3.7	0.8	0.4	1.6	1.4	0.9	0.5	0.6	0.4	8	0.9
Bicarbonate As CaCO3	mg/L	NA	NA	288	155	122	943	1470	844	516	470	790	130	323	669	258	655	112	148	148	179	103	126	163	121	198	118
Calcium, Total	mg/L	NA	NA	219	32	28.1	209	664	446	124	218	261	67.5	196	345	130	266	41.9	60.1	29.9	44.4	29.1	17.3	37	25.6	48.6	12.4
Carbonate as CaCO3	mg/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloride	mg/L	250	GWCL	519	10	4.4	63.3	765	974	80.9	175	281	37.6	88.2	338	164	444	71.7	6.5	7.3	5.5	3.1	5.8	7.6	3.6	16.4	6.3
Hydroxide (as CaCO3)	mg/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Iron, Dissolved	ug/L	11200	MethB non-carc	520	50U	70	18200	16200	34000	50U	2790	50U	150	3060	110	50U	820	50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	11200	MethB non-carc	3260	1050	1100	19000	64000	77600	230	4040	13700	28900	4350	140	4940	830	100	38200	50U	50U	200	280	310	3880	150	1100
Magnesium, Total	mg/L	NA	NA	96.3	15.4	13.3	86.6	296	226	56.7	82.5	131	30.4	61.7	113	46.9	119	23.1	30.8	14.8	18.8	11.5	15	17.9	12.1	14.8	7.95
Manganese, Dissolved	ug/L	2200	MethB non-carc.	1280	158	84	8320	16500	11000	72	3150	150	15	271	1290	10	2870	6	26	29	2	3	41	13	27	1U	44
Manganese, Total	ug/L	2200	MethB non-carc.	1280	216	100	8830	16300	12500	236	2040	232	484	290	1400	160	2780	11	600	31	2	6	48	15	87	2	53

Table 2. Round 8 Groundwater Analytical Results (June 2010)

				Former Drum Area								Loc. D[2]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G
Inorganic Parameters Cont.	Units	RI Screening Level	Screening Level Source	MW-29b	MW-30b	MW-31b	MW-32a	MW-33p2	MW-35p2	MW-37p1	MW-38p2	MW-39p2	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c
Nitrate as Nitrogen	mg/L a	10	GWCL	0.04	0.01U	0.022	0.01U	0.03	0.05U	9.68	0.054	5.83	1.06	6.19	0.011	0.271	0.01U	3.12	0.01U	1.67	3.13	0.026	0.01U	0.787	0.015	3.15	0.028
Nitrate+Nitrite as Nitrogen	mg/L a	10	GWCL	0.04	0.01U	0.022	0.01U	0.104	0.05U	9.71	0.182	5.84	1.08	6.54	0.011	0.271	0.01U	3.12	0.011	1.67	3.13	0.026	0.01U	0.787	0.015	3.15	0.062
Nitrite as Nitrogen	mg/L a	1	GWCL	0.01U	0.01U	0.01U	0.1U	0.074	0.021	0.028	0.128	0.012	0.024	0.348	0.01U	0.01U	0.01U	0.01U	0.026	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.034
Potassium, Total	mg/L	NA	NA	16.1	6.93	5.94	26.2	30	21.2	8.07	11.9	16	11.7	41.4	10.7	7.45	15	7.85	11	5.49	5.16	3.45	7.91	6.63	6.41	2.65	16.6
Sodium, Total	mg/L	NA	NA	49.7	22.3	14	72.6	335	111	149	211	64.4	25.9	85.7	45.5	21.5	41.6	17.9	21.9	20.9	14	14.7	22.5	17.9	15	45.2	32.7
Sulfate	mg/L	250	GWCL	38.3	43.7	49	52.2	40U	8.4	99.3	666	43.6	113	385	270	42.9	27.2	41.3	109	30.8	28.9	55.4	38.7	45.9	24	52.3	39.1
Total Dissolved Solids	mg/L	500	GWCL	1380	276	234	1150	3870	2380	778	1020	1320	419	1220	1560	685	1460	339	308	235	274	204	218	275	204	395	208
Total Organic Carbon	mg/L	NA	NA	26.5	6.62	1.5U	31.9	158	80.8	4.25	16.6	18.1	1.85	11.2	34.6	11.4	38	1.5U	1.5U	2.03	1.5U	1.5U	1.5U	1.59	1.95	2.31	1.5U

				Former Drum Area								Loc. D[2]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G
Field Parameters	Units	RI Screening Level	Screening Level Source	MW-29b	MW-30b	MW-31b	MW-32a	MW-33p2	MW-35p2	MW-37p1	MW-38p2	MW-39p2	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c
Depth to Water	feet	NA	NA	51.82	55.56	41.51	22.19	52.1	49.96	20.84	42.96	28.12	22.17	7.17	47.08	47.5	32.63	95.43	26.88	106.81	45.16	44.95	81.88	42.03	36.91	10.82	98.45
Dissolved Oxygen	mg/L	NA	NA	4.5	0.7	0.5	7	1.5	3	2.5	2	7	5	0.2	2	6	0.3	2.5	4	2			0.4	2	6	4	1
Oxidation Reduction Potential	mV	NA	NA	-134	-117	-145	-116	-81	-97	94	-59	122	78	-160	-6	88	-65	-76	81	-26	68	-58	-114	-47	20	94	74
pH	std. un	NA	NA	7.38	7.79	7.57	6.52	6.67	6.74	6.8	6.97	6.84	7.62	7.25	6.91	7.83	7.05	7.91	7.91	7.84	7.22	8.09	8.12	8	8.15	7.14	7.7
Specific Conductance @ 25C	umhos	NA	NA	2470	457	389	2090	6970	4620	1410	1790	2860	666	1940	274	1190	2690	613	528	393	447	336	378	461	304	638	364
Temperature, 0 F	0 F	NA	NA	70.5	70.2	67.82	66	64.2	65.3	65.48	61.7	60.8	60.8	58.46	63.32	59.9	60.1	64.58	58.1	63.5	60.1	62.6	66.6	59.9	58.46	53.96	65.12

FED = Federal Maximum Contaminant Level (40 CFR 141.61)
GWCL = State Groundwater Contaminant Level (Chapter 173-200 WAC)
MTCA-B car = MTCA Method-B carcinogenic (Chapter 173-340 WAC)
MTCA-B non-car = MTCA Method-B non-carcinogenic (Chapter 173-340 WAC)
NA = no established screening level
#U = Undetected; associated number is lab reporting limit (e.g. 0.2U)
Bold results = VOC detection
Shaded = concentration above RI screening levels
Blank = not measured
1. Site background concentration for dissolved arsenic is 3.4 ug/L
2. Location letters refers to phase 2 RI well locations (see Figure 1)

Table 3. Round 8 Quality Assurance and Quality Control Summary

Data Set:	Groundwater Sampling (RI Round 8) June 2010 Wells: MW-43p2, MW-38p2, MW-29b, MW-33p2, MW-30b, MW-50c, MW-51b, MW-52p2, MW-53a, MW-54c, MW-39p2, MW-41a, MW-37p1, MW-40p2	Groundwater Sampling (RI Round 8) June 2010 and MW-34p1 (Round 1 - Inorganics) Wells: MW-42b, MW-35p2, MW-31b, MW-32a, MW-34p1, MW-47c, MW-49p2, MW-48b, MW-46p2, MW-45c, MW-44b, MW-1000 (field duplicate)
Lab Data Batch -------->	**ARI RB01**	**ARI RA76**
METHODOLOGY		
Method	ok	ok
Date Sampled	ok	ok
Date Analyzed	ok	Nitrate and Nitrate+Nitrite analyzed 6/25/10
Holding Time	ok	Nitrate+Nitrite 1 to 2 days past holding time for following: MW-31b, MW-32a, MW-35p2, MW-42b, MW-46p2, MW-44b and MW-1000 (field duplicate). Initial runs were performed within holding times, but the analysis failed. Those samples were preserved before performing second run and were therefore not technically out of holding time.
Preservative	ok	ok
Acceptability	Yes	Yes
SURROGATE SPIKES		
Surrogate Used	Yes (4 for VOC; 2 for SIM-VOC)[1]	Yes (4 for VOC; 2 for SIM-VOC)[1]
Sample Spike Recovery	SIM-VOC d4-12-dichloroethane surrrogate recovered out of control low in SIM-VOC run for MW-43p2, MW-43p2-RE, and MW-38p2. MW-38-RE within control. No volume from MW-43p2 remaining to do 3rd run. No corrective action taken.	SIM VOC d4-12-dichloroethane surrogate recovered out of control low in SIM-VOC run for MW-35p2 and MW-35p2-RE. d3-toluene recovered low in MW-35p2 (in control for MW-35p2-RE). The standard VOC run for this sample was within control. No corrective action taken.
Control Spike Recovery	ok	ok
Acceptability	Yes	Yes
MS/MSD	MS/MSD for VOCs, SIM-VOCs, and MS for dissolved metals (MW-51b)	MS for conventionals (MW-42b)
MS Recovery	ok	ok
MSD Recovery	ok	NA
RPD	ok	NA
Acceptability	Yes	Yes
METHOD BLANK	Yes (VOCs, SIM-VOCs, Dissolved Metals, Total Metals, and Conventionals)	Yes (VOCs, SIM-VOCs, Dissolved Metals, Total Metals, and Conventionals)
Detections	None	TDS detected at reporting limit (5 mg/L). Significantly less than sample concentrations. No corrective action taken.
Surrogate Recovery	ok	ok
Acceptability	Yes	Yes
TRIP BLANK	None	None
Detections	NA	NA
Acceptability	NA	NA
RDL		
Regulation/Method	ok	ok
Lab	Samples requiring dilution had higher RDLs	Samples requiring dilutions had higher RDLs
Acceptability	Yes	Yes
FIELD DUPLICATES		
Sample:	None	MW-44b (sample ID MW-1000)
RPD	NA	ok
Acceptability	NA	Yes
LAB DUPLICATES	Yes - dissolved metals and conventionals	Yes - conventionals
Sample	MW-51b	MW-42b
RPD	ok	ok
Acceptability	Yes	Yes
LAB CONTROL	Yes (LCS and LCSD for VOCs and SIM-VOCs and LCS for Dissolved Metals, Total Metals and TDS)	Yes (LCS and LCSD for VOCs and SIM-VOCs and LCS for Dissolved Metals, Total Metals, and TDS
Spike Recovery	ok	ok
Surrogate Recovery	ok	ok
Spike Dupl. Recovery	ok	ok
RPD	ok	ok

[1]Note:
VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene; Bromofluorobenzene; and d4-1,2-dichlorobenzene
SIM VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene

Table 3. Round 8 Quality Assurance and Quality Control Summary

Data Set:	Groundwater Sampling (RI Round 8) June 2010 Wells: MW-43p2, MW-38p2, MW-29b, MW-33p2, MW-30b, MW-50c, MW-51b, MW-52p2, MW-53a, MW-54c, MW-39p2, MW-41a, MW-37p1, MW-40p2	Groundwater Sampling (RI Round 8) June 2010 and MW-34p1 (Round 1 - Inorganics) Wells: MW-42b, MW-35p2, MW-31b, MW-32a, MW-34p1, MW-47c, MW-49p2, MW-48b, MW-46p2, MW-45c, MW-44b, MW-1000 (field duplicate)
Acceptability	YES	YES
STANDARD REFERENCE	Yes (Conventionals)	Yes (Conventionals)
Recovery	ok	ok
COC		
Acceptability	Yes	Yes
LAB REPORT	Cover Report	Cover Report
Additional Information	Bromomethane and methyl iodide out of control low in continuing calibration with 6/22/10 VOC run. Q flags applied to forms III.	SIM-VOC results with E-flags are quantified with VOC 8260 run.
	Bromomethane out of control low in continuing calibration with 6/23/10 VOC run. Q flags applied to forms III.	Dilutions for MW-35p2, MW-32a and MW-34p1 were required resulting in elevated RDLs
	SIM-VOC results with E and S flagged values are quantified with VOC 8260 run.	
	SIM-VOC internal standards pentafluorobenzene and 1,4-difluorobenzene out of control low with initial analysis of MW-41a, but within control with MW-41a-RE (no further action taken) Containers for alkalinity analyses contained headspace.	
Acceptability	Yes	Yes
QA/QC performed by:	Dawn Chapel	Dawn Chapel

[1] VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene; Bromofluorobenzene; and d4-1,2-dichlorobenzene
SIM-VOC Surrogates: d4-1,2-dichloroethane and d8-Toluene

[1]Note:
VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene; Bromofluorobenzene; and d4-1,2-dichlorobenzene
SIM VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene

Table 4. Round 9 Groundwater Analytical Results (September 2010)

			Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
Organic Parameters (VOCs)	Units	RI Screening Level	Screening Level Source	MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
1,1,1,2-Tetrachloroethane	ug/L	1.7	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,1-Trichloroethane	ug/l	200	FED	1.2U	100U	**5000**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2,2-Tetrachloroethane	ug/L	0.22	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	0.77	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichlorotrifluoroethane	ug/L	240000	MethB non-carc.	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	1600	MethB non-carc.	**14**	**220**	**5200**	**0.7**	**0.3**	0.2U	0.2U	**42**	**11**	**54**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**1.6**	0.2U	**6.2**
1,1-Dichloroethene	ug/L	7	FED	**0.029**	2U	**920**	0.02U	0.02U	0.02U	0.02U	**2.7**	**0.67**	**0.99**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	**0.22**
1,1-Dichloropropene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2,3-Trichlorobenzene	ug/L	NA	NA	3U	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,3-Trichloropropane	ug/L	0.00146	MethB carc	3U	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trichlorobenzene	ug/L	1.51	MethB carc				0.5U	0.5U	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	NA	NA	**13**	100U	**130**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dibromo-3-chloropropane	ug/L	0.0547	MethB carc	3U	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2-Dichlorobenzene	ug/L	600	FED	**14M**			0.2U	0.2U	0.2U	0.2U	**2**	**0.3M**	**16**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**0.3M**
1,2-Dichloroethane (EDC)	ug/L	0.48	MethB carc	1.2U	100U	**510**	0.2U	0.2U	0.2U	0.2U	**3.9**	**2.1**	**3**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**0.5**
1,2-Dichloropropane	ug/L	5	FED	**1.4**	100U	**1100**	0.2U	**0.3**	0.2U	0.2U	**17**	**21**	**32**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**0.5**	0.2U	**4.7**
1,3,5-Trimethylbenzene	ug/L	80	MethB non-carc.	**3.6**	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	NA	NA				0.2U	0.2U	0.2U	0.2U	0.2U	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichloropropane	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,4-Dichlorobenzene	ug/L	75	FED	**30**			**1M**	0.2U	0.2U	0.2U	**2.2**	0.2U	**7.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2,2-Dichloropropane	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-butanone	ug/L	4800	MethB non-carc.	30U	2500U	2500U	5U	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2-Chloroethylvinylether	ug/L	NA	NA	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Chlorotoluene	ug/L	160	MethB non-carc.	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Hexanone	ug/L	NA	NA	30U	2500U	2500U	5U	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Chlorotoluene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Methyl-2-pentanone (MIBK)	ug/L	640	MethB non-carc.	30U	2500U	2500U	5U	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	7200	MethB non-carc.	30U	2500U	2500U	**13**	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acrolein	ug/L	4	MethB non-carc.	30U	2500U	2500U	5U	5U	5U	5U	5U	5U	50U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acrylonitrile	ug/L	0.081	MethB carc	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzene	ug/L	0.8	MethB carc	**22**	100U	**180**	0.2U	0.2U	0.2U	0.2U	**1.5**	0.2U	**25**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**0.8**
Bromobenzene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**3**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromochloromethane	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromodichloromethane	ug/L	0.71	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoethane	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromoform	ug/L	5.5	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromomethane	ug/L	11	MethB non-carc.	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	ug/L	800	MethB non-carc.	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Carbon Tetrachloride	ug/L	0.625	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chlorobenzene	ug/L	100	FED	**5.9M**	100U	100U	0.2U	0.2U	0.2U	0.2U	**0.7**	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

Table 4. Round 9 Groundwater Analytical Results (September 2010)

Organic Parameters (VOCs) Cont.	Units	RI Screening Level	Screening Level Source	Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
				MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
Chloroethane	ug/L	NA	NA	**190**	**600**	100U	**0.3**	0.2U	0.2U	0.2U	**190**	**19**	**380**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**2.3**
Chloroform	ug/L	80	MethB non-carc.	1.2U	100U	**300**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	NA	NA	3U	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
cis-1,2-Dichloroethene	ug/L	16	MethB non-carc.	1.2U	100U	**1600**	**2.5**	**1.2**	0.2U	0.2U	**25**	**13**	**6.6**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	**2.4**
cis-1,3-Dichloropropene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dibromochloromethane	ug/L	0.52	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Dibromomethane	ug/L	80	MethB non-carc.	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	700	FED	**29**	**630**	**900**	0.2U	0.2U	0.2U	0.2U	**0.4**	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylene Dibromide (EDB)	ug/L	0.00051	MethB carc	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Hexachlorobutadiene	ug/L	0.56	MethB carc	3U	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Isopropylbenzene (Cumene)	ug/L	800	MethB non-carc.	**1.6**	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Methyl iodide	ug/L	NA	NA	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Methylene Chloride	ug/l	5	FED	**9.1**	250U	250U	0.5U	0.5U	0.5U	0.5U	**4.2**	**1.3**	**11**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**0.6**
Naphthalene	ug/L	160	MethB non-carc.	**6.6**	250U	250U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
n-Propylbenzene	ug/L	800	MethB non-carc.	**1.2**	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	1600	MethB non-carc.	**9.5**	**560**	**1400**	0.2U	0.2U	0.2U	0.2U	**0.3**	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Styrene	ug/L	100	FED	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
tert-Butylbenzene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	0.081	MethB carc	**0.033**	**2.3**	**31**	**1.2**	**1.3**	**0.33**	**1.4**	**2.2**	**0.93**	0.02U	**0.035**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	**0.47**
Toluene	ug/L	640	MethB non-carc.	**1.3**	**9300**	**21000**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,2-Dichloroethene	ug/L	100	FED	**1.2**	100U	100U	0.2U	0.2U	0.2U	0.2U	**0.7**	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,3-Dichloropropene	ug/L	NA	NA	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
trans-1,4-Dichloro-2-butene	ug/L	NA	NA	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene (TCE)	ug/L	0.49	MethB carc	**0.44M**	**2.9**	**56**	**0.5**	**0.34**	0.02U	**0.31**	**1.4**	**0.65**	**0.11**	**0.021**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	**0.31**
Trichlorofluoromethane	ug/l	2400	MethB non-carc.	1.2U	100U	100U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Acetate	ug/L	8000	MethB non-carc.	6U	500U	500U	1U	1U	1U	1U	1U	1U	10U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	ug/L	0.029	MethB carc	**3.2**	**20**	**1100**	**0.71**	0.02U	0.02U	**0.046**	**7**	**0.12**	**2.6**	**0.027**	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U	**4.6**
Xylene Isomers, M+P	ug/L	1600	MethB non-carc.	**19**	**1300**	**3300**	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U

Organic Parameters (SVOCs)	Units	RI Screening Level	Screening Level Source	Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
				MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
1,2,4-Trichlorobenzene	ug/L	1.51	MethB carc	1U	1U	1U							1U											
1,2-Dichlorobenzene	ug/L	600	FED		**4.2**	**10**																		
1,3-Dichlorobenzene	ug/L	NA	NA	1U	1U	1U							1U											
1,4-Dichlorobenzene	ug/L	75	FED		**5.4**	**4.8**																		
1-Methylnaphthalene	ug/L	1.51	MethB carc	**1.3**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2,2-Oxybis(1-Chloropropane)	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

Table 4. Round 9 Groundwater Analytical Results (September 2010)

				Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
Organic Parameters (SVOCs) Cont.	Units	RI Screening Level	Screening Level Source	MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
2,4,5-Trichlorophenol	ug/L	800	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2,4,6-Trichlorophenol	ug/L	4	MethB carc	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2,4-Dichlorophenol	ug/L	24	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2,4-Dimethylphenol	ug/L	160	MethB non-carc.	1U	**31**	**90**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2,4-Dinitrophenol	ug/L	32	MethB non-carc.	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2,4-Dinitrotoluene	ug/L	32	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2,6-Dinitrotoluene	ug/L	16	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2-Chloronaphthalene	ug/L	640	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Chlorophenol	ug/L	40	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Methyl-4,6-dinitrophenol	ug/L	NA	NA	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-Methylnaphthalene	ug/L	32	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Methylphenol	ug/L	400	MethB non-carc.	1U	**150**	**510**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Nitroaniline	ug/L	160	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
2-Nitrophenol	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
3,3'-Dichlorobenzidine	ug/L	0.19	MethB carc	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
3-Nitroaniline	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Bromophenyl Phenyl Ether	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
4-Chloro-3-methylphenol	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Chloroaniline	ug/L	0.219	MethB carc	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Chlorophenyl Phenyl Ether	ug/l	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
4-Methylphenol	ug/L	40	MethB non-carc.	1U	**170**	**430**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
4-Nitroaniline	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
4-Nitrophenol	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Acenaphthene	ug/L	960	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Acenaphthylene	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Anthracene	ug/L	4800	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benz(a)anthracene	ug/L	0.12	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzo(a)pyrene	ug/L	0.012	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzo(b)fluoranthene	ug/L	0.12	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzo(g,h,i)perylene	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzo(k)fluoranthene	ug/L	1.2	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Benzoic Acid	ug/L	64000	MethB non-carc.	10U	**16**	**120**	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U	10U
Benzyl Alcohol	ug/L	800	MethB non-carc.	5U	**7.6**	**29**	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Bis(2-chloroethoxy)methane	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Bis(2-chloroethyl) Ether	ug/L	0.04	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Bis(2-ethylhexyl) Phthalate	ug/L	6	FED	1U	1U	**2.3**	1U	1U	**5**	1U	1U	**1**	1U	1U	1U	1U	1U	1U	**2.7B**	1U	1U	1U	1U	1U
Butylbenzyl Phthalate	ug/L	46.1	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Carbazole	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chrysene	ug/L	12	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Dibenz(a,h)anthracene	ug/L	0.012	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Dibenzofuran	ug/L	16	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Diethyl Phthalate	ug/L	13000	MethB non-carc.	**9.2**	**47**	**1.4**	1U	1U	1U	1U	1U	1U	**8.5**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Dimethyl Phthalate	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

Table 4. Round 9 Groundwater Analytical Results (September 2010)

				Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
Organic Parameters (SVOCs) Cont.	Units	RI Screening Level	Screening Level Source	MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
Di-n-butyl Phthalate	ug/L	1600	MethB non-carc.	1U	**11**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Di-n-octyl Phthalate	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Fluoranthene	ug/L	640	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Fluorene	ug/L	640	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Hexachlorobenzene	ug/L	0.055	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Hexachlorobutadiene	ug/L	0.56	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Hexachlorocyclopentadiene	ug/L	48	MethB non-carc.	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Hexachloroethane	ug/L	3.1	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Indeno(1,2,3-cd)pyrene	ug/L	0.12	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Isophorone	ug/L	46	MethB carc	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Naphthalene	ug/L	160	MethB non-carc.	**4.3**	**10**	**7.8**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Nitrobenzene	ug/L	16	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
N-Nitrosodi-n-propylamine	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
N-Nitrosodiphenylamine	ug/L	NA	NA	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Pentachlorophenol	ug/L	0.219	MethB carc	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Phenanthrene	ug/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Phenol	ug/L	2400	MethB non-carc.	1U	1U	**19**	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Pyrene	ug/L	480	MethB non-carc.	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

				Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
Inorganic Parameters	Units	RI Screening Level	Screening Level Source	MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
Alkalinity (as CaCO3)	mg/L	NA	NA	1430	793	498	954	132	121	555	715	244	652	111	134	145	179	103	126	163		197	121	127
Arsenic, Dissolved[1]	ug/L	0.058	MethB carc	8.9	16.1	4.1	4.4	0.5U	0.5U	0.9	1.5		3.3	1.4	0.9	1.6	1.6		0.4	0.9		9.6	0.9	0.5U
Bicarbonate As CaCO3	mg/L	NA	NA	1430	793	498	954	132	121	555	715	244	652	111	134	145	179	103	126	163		197	121	127
Calcium, Total	mg/L	NA	NA	680	390	199	291	70.7	81.1	296	358	147	290	44.8	27.9	29.4	42.1	59.9	17.4	38	19.1	51.9	21.2	47.6
Carbonate as CaCO3	mg/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U		1U	1U	1U
Chloride	mg/L	250	GWCL	1580	848	211	230	126	47.7	173	325	200	397	76.7	7.9	7.6	5.9	3.2	6.1	8.2	3.6	32.3	6.4	98.5
Hydroxide (as CaCO3)	mg/L	NA	NA	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U		1U	1U	1U
Iron, Dissolved	ug/L	11200	MethB non-carc	16900	29400	4070	60	50U	50U	2530	150		800	50U	50U	50U	50U		50U	50U		50U	330	50U
Iron, Total	ug/L	11200	MethB non-carc	66700	50500	5240	25300	110	29100	4560	220	1340	920	50U	190	50U	50U	38500	130	310	1830	4220	16100	50U
Magnesium, Total	mg/L	NA	NA	319	192	76.3	151	37.7	36.1	118	117	55.2	135	24.7	11.1	14.3	18	29.1	14.5	17.8	8.6	15.6	12.1	32.3
Manganese, Dissolved	ug/L	2200	MethB non-carc.	15000	9560	1890	70	18	3	428	1430		2560	4	1U	18	1U		35	11		1	36	1U
Manganese, Total	ug/L	2200	MethB non-carc.	15900	10000	2480	356	20	699	488	1610	146	2840	4	3	19	1U	877	41	14	55	54	269	1U
Nitrate as Nitrogen	mg/L	10	GWCL	0.05U	0.1U	0.05U	2.34	1.44	4.48	16.1	0.01U	0.297	0.01U	3.29	0.05U	1.65	3.13	0.01U	0.01U	0.803	0.014	2.73	0.065	2.55
Nitrate+Nitrite as Nitrogen	mg/L	10	GWCL	0.05U	0.1U	0.05U	2.36	1.7	4.49	17.3	0.01U	0.297	0.01U	3.29	0.05U	1.65	3.13	0.01U	0.01U	0.803	0.014	2.73	0.105	2.55
Nitrite as Nitrogen	mg/L	1	GWCL	0.05U	0.1U	0.05U	0.021	0.256	0.015	1.2	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	0.05U	0.01U	0.01U	0.01U	0.01U	0.01U	0.04	0.01U
Potassium, Total	mg/L	NA	NA	29.9	17.7	11.1	17.6	7.98	12.9	63.2	11	7.98	15.4	8.11	3.43	5.5	4.95	10.9	8.02	7.04	5.66	3.08	18.8	12.2
Sodium, Total	mg/L	NA	NA	347	100	153	77.5	19.2	25.9	116	49.1	25.3	45.6	18.5	14.1	19.2	13	23	21.1	17.7	13.4	45.7	36.6	21.9
Sulfate	mg/L	250	GWCL	27.2	25.7	128	74.2	59.6	153	718	244	90.4	43	45.2	105	35	32.2	56.8	41	51.4	27.4	63.9	41.2	33.6
Total Dissolved Solids	mg/L	500	GWCL	4100		976	1310	433	459	1910	1540		1520	304	308	238	256	185	211	257		360	228	362
Total Organic Carbon	mg/L	NA	NA	208	54.4	17.6	18.2	2.89	2.73	22.2	34	9.98	35.9	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U	1.5U		2.16	1.5U	2.76

Table 4. Round 9 Groundwater Analytical Results (September 2010)

				Drum Area Wells			Loc. D[2]	FS[3]	Location A		Location E		Location C			Location B			Location F			Loc. H	Loc. G	Whitson
Field Parameters	Units	RI Screening Level	Screening Level Source	MW-33p2	MW-35p2	MW-38p2	MW-39p2	MW-28d	MW-40p2	MW-41a	MW-42b	MW-43p2	MW-44b	MW-45c	MW-46p2	MW-47c	MW-48b	MW-49p2	MW-50c	MW-51b	MW-52p2	MW-53a	MW-54c	Domistic Well
Depth to Water	feet	NA	NA	52.13	50.3	43.04	27.59	158.3	21.97	8.35	47.22	47.58	32.66	94.61	26.95	106.07	45.16	44.92	81.85	42.91	37.4	11.81	100.21	
Dissolved Oxygen	mg/L	NA	NA					0.1			0.25		0.15	0.5					0.15	2		2.5	0.6	
Oxidation Reduction Potential	mV	NA	NA	-39	-35.4	-27.3	83.5	-141.9	65.3	-6.8	18.9	37.1	63.1	7.3	66	30.3	80.31	44.4	19.9	85.7	70.9	48.7	-6.1	61.7
pH	std.	NA	NA	7.03	7.16	7.32	7.36	8.14	8.2	7.68	7.42	8.06	7.46	8.25	8.25	8.17	7.9	8.31	8.2	8.22	8.48	7.98	8.55	8.16
Specific Conductance @ 25C	umhos/cm	NA	NA	5516	3172	1556	1738	671	473	2208	2032	956	1963	477	354	288	323	240	265	307	196	405	260	507
Temperature, 0 F	0 F	NA	NA	65.8	64.4	61.2	59.6	68.1	57.5	66.2	62.7	59.8	61.05	65.8	57.97	62	59.9	59.6	62.3	59.3	60.3	55.5	63.7	60.5

FED = Federal Maximum Contaminant Level (40 CFR 141.61)

GWCL = State Groundwater Contaminant Level (Chapter 173-200 WAC)

MTCA-B car = MTCA Method-B carcinogenic (Chapter 173-340 WAC)

MTCA-B non-car = MTCA Method-B non-carcinogenic (Chapter 173-340 WAC)

NA = no established screening level

#U = Undetected; associated number is lab reporting limit (e.g. 0.2U)

#M = Estimated value for a constituent detected and confirmed by analyst but with low spectral match parameters.

Bold results = VOC detection

Shaded = concentration above RI screening levels

Blank = 1) not measured or 2) in the case where an organic constintuent is analyzed with multiple methods, only the result with the highest detection or lowest reporting limit is presented - results for the other methods are left blank.

1. Site background concentration for dissolved arsenic is 3.4 ug/L

2. Location letters refers to phas 2 RI well locations (see Figure 1)

3. FS = Frenchman Springs Well (MW-29d)

Table 5. Round 9 Quality Assurance and Quality Control Summary

Data Set:	Groundwater Sampling (RI Round 9) September 2010 Wells: MW-28d, MW-53a, MW-50c, MW-51b, MW-47c, MW-48b, MW-49p2, MW-45c, MW-44b, MW-46p2, and MW-41a	Groundwater Sampling (RI Round 9) September 2010 and MW-34p1 (Extraction Event 5) and Whitsons Wells: MW-33p2, MW-35p2, MW-38p2, MW-39p2, MW-40p2, MW-42b, MW-43p2, MW-52p2, MW-54c, MW-34p1, Whitson-Well, Whitson-KitchenSink
Lab Data Batch -------->	**ARI RN13**	**ARI RN23**
METHODOLOGY		
Method	Ok	Ok
Date Sampled	Ok	Ok
Date Analyzed	Ok	Ok
Holding Time	Ok	(VOCs) reanalyses of MW-34p1 on 9/30/10 was slightly outside holding time.
Preservative	Ok	(VOCs and SIM-VOCs) pH above the compliance range fro MW-33p2 and MW-34p1. May be due to matrix effect.
Acceptability	Yes	Yes
SURROGATE SPIKES		
Surrogate Used	Yes (4 for VOC; 2 for SIM-VOC; 8 for Semi-VOC)[1]	Yes (4 for VOC; 2 for SIM-VOC; 8 for Semi-VOC)[1]
Sample Spike Recovery	d4-2-Chlorophenol out of control low by 0.5% in MW-50c for Semi-VOC. Method allows for one acid and one base surrogate to be out of control with no further corrective action	(SEMI-VOC) 246-Tribromophenol out of control high in several samples and dilutions. Surrogate related to Pentachlorophenol for which there were no detections in sample or method blank.
		(SIM-VOC) Surrogates for MW-34p1 recovered out of control low and attributed to matrix effect.
Control Spike Recovery	Ok	(SEMI-VOC) 246-Tribromophenol out of control high in LCSD. No corrective action.
Acceptability	Yes	YES
MS/MSD	MS/MSD for VOCs, SIM-VOCs, SEMI-VOCs, and MS for dissolved metals and conventionals (MW-51b)	MS for Nitrate and sulfate (MW-35p2)
MS Recovery	2,2-Dichloropropane recovered low (VOC)	Ok
	Hexachloroethane recovered low (SEMI-VOC).	
	Vinyl chloride recovered high (SIM-VOC)	
	Nitrate+Nitrite recovered high	
MSD Recovery	2,2-Dichloropropane recovered low (VOC)	Ok
	Chloromethane recovered low (VOC)	
	2-chloroethylbinylether recovered low (VOC)	
	Hexachloroethane recovered low (SEMI-VOC)	
RPD	Chloromethane outside +/- 30% limit	Ok
Lab Note	Control limits for MS/MSD are only advisory - No Corrective Action Performed	
Acceptability	YES	YES
METHOD BLANK	Yes (VOCs, SIM-VOCs, SEMI-VOCs, Dissolved Metals, Total Metals, and Conventionals)	Yes (VOCs, SIM-VOCs, SEMI-VOCs, Dissolved Metals, Total Metals, and Conventionals)
Detections	(SEMI-VOCs) Bis(2-ethylhexyl)phthalate detected at reporting limit. B-flags applied to data as appropriate	None
Surrogate Recovery	Ok	Ok
Acceptability	Yes	Yes
TRIP BLANK	Yes (VOCs and SIM-VOCs)	Yes (VOCs and SIM-VOCs)
Detections	(VOCs) Chloromethane detected at reporting limit. No Action Taken	None
Acceptability	Yes	Yes
RDL		
Regulation/Method	ok	ok
Lab	Samples requiring dilution had higher RDLs	Samples requiring dilution had higher RDLs
Acceptability	Yes	Yes
FIELD DUPLICATES		
Sample:	None	None
RPD	NA	NA
Acceptability	NA	NA
LAB DUPLICATES	Yes - Dissolved Metals, Total Metals, and Conventionals	Yes - Conventionals
Sample	MW-51b and MW-44b	MW-35p2 and MW-42p2
RPD	ok	ok
Acceptability	Yes	Yes

Table 5. Round 9 Quality Assurance and Quality Control Summary

Data Set:	Groundwater Sampling (RI Round 9) September 2010 Wells: MW-28d, MW-53a, MW-50c, MW-51b, MW-47c, MW-48b, MW-49p2, MW-45c, MW-44b, MW-46p2, and MW-41a	Groundwater Sampling (RI Round 9) September 2010 and MW-34p1 (Extraction Event 5) and Whitsons Wells: MW-33p2, MW-35p2, MW-38p2, MW-39p2, MW-40p2, MW-42b, MW-43p2, MW-52p2, MW-54c, MW-34p1, Whitson-Well, Whitson-KitchenSink
Lab Data Batch -------->	**ARI RN13**	**ARI RN23**
LAB CONTROL	Yes (LCS and LCSD for VOCs, SIM-VOCs, and SEMI-VOCs, and LCS for Dissolved Metals, Total Metals and TDS)	Yes (LCS and LCSD for VOCs, SIM-VOCs, and SEMI-VOCs, and LCS for Dissolved Metals, Total Metals and TDS)
Spike Recovery	(VOCs) Acrolein and trans-14-Dichloro-2-butene out of control low in LCS on 9/21.	(VOCs) Acrolein and trans-14-Dichloro-2-butene out of control low in LCS on 9/22.
	(VOCs) Acrolein and trans-14-Dichloro-2-butene out of control low in LCS on 9/22	(VOCs) Acetone, 2-butanone, and 2-hexanone out of control high in the LCS on 9/24. LCS and LCSD met overall acceptance criteria
		(VOCs) Acrolein out of control high in LCS on 9/30
		(SEMI-VOCs) Carbazole out of control low in LCS. LCS and LCSD met overall acceptance criteria.
Surrogate Recovery	ok	(SEMI-VOC) 246-Tribromophenol out of control high in LCSD on 9/23
Spike Dupl. Recovery	(VOCs) Acrolein, trans-14-Dichloro-2-butene, and 123-trichloropropane out of control low in LCSD on 9/21	(VOCs) Acrolein and 1122-Tetrachloroethane out of control low in LCSD on 9/22
	(VOCs) Acroleien and 1122-Tetrachloroethane out of control low in LCSD on 9/22	(VOCs) Acrolein out of control high in LCSD on 9/30. Acrolein not detected in sample. LCS and LCSD met overall acceptance criteria. (SEMI-VOCs) Carbazole out of control low in LCSD. LCS and LCSD met overall acceptance criteria.
RPD	ok	>20% but less than 30% for: Acetone, 2-Butanone, and Methyl Iodide on 9/24
Acceptability	LCS and LCSD met overall criteria - YES	LCS and LCSD met overall criteria - YES
STANDARD REFERENCE	Yes (Conventionals)	Yes (Conventionals)
Recovery	ok	ok
COC	MW-44b sample not on COC.	ok
Acceptability	Yes	Yes

LAB REPORT	Cover Report	Cover Report
	(VOCs): Acrolein, 1122-Tetrachloroethane, 12-Dibromo-3-chloropropane, 123-Trichloropropane, and trans-14-Dichloro-2-butene out of control low in continuing calibrations on 9/21 and 9/22. Q-flags applied to form III.	VOC and SIM VOC Vials for samples MW-33p2 and MW-34p1 had pHs above the compliance range for proper preservative (less than or equal to 2) at 6 to 8. Unknown if these pHs were higher directly due to matrix effect.
Additional Information	(SEMI-VOCS): 24-Dinitrophenol, fluorene, 4-chlorophenyl-phenylether, and 46-Dinitro-2-methylphenol out of control high continuing calibration on 10/5. Q-flags applied to form III. No detections of these compounds in samples.	(VOCs): Acrolein, 1122-Tetrachloroethane, 12-Dibromo-3-chloropropane, 123-Trichloropropane, and trans-14-Dichloro-2-butene out of control low in continuing calibration on 9/22. Q-flags applied to form III.
	(SEMI-VOCS): The benzidine peak tailing factor was greater than allowable 2 in continuing calibration on 10/5. Not a requested analyte. No further corrective action	(VOCs): Acrolein out of control high in continuing calibration on 9/30. Q-flags applied to form III. Acrolein no detected in samples.
	(SEMI-VOCS): 24-Dinitrophenol, 4-Chlorophenyl-phenylether, and 46-Dinitro-2-methylphenol out of control high in continuing calibration on 10/6. Calibration met overall acceptance criteria. No detections of these compounds in samples.	(SEMI-VOCs): 22-Oxybis(1-Chloropropane), N-Nitroso-Di-N-Propylamine, 2-Nitroaniline, 24-Dinitrophenol, 46-Dinitro-2-Methylphenol, and Butylbenzylphthalate out of control low in continuing calibration on 9/23. Q-flags applied to form III. Calibration met overall acceptance criteria.
	(Nitrate): MW-46p2 was analyzed at dilution due to nature of sample matrix. Reporting limit was elevated.	(SEMI-VOCs): Hexachlorocyclopentadiene, 24-Dinitrophenol, and 46-Dinitro-2-Methylphenol out of control low in continuing calibration on 9/25. Calibration only associated with sample MW-38p2. The calibartion met overall acceptance criteria.
		(Nitrate): Some samples analyzed at dilutions due to sample matrix. As such, reporting limits vary.
Acceptability	YES	YES
QA/QC performed by:	Dawn Chapel	Dawn Chapel

1 VOC Surrogates: d4-1,2-dichloroethane; d8-Toluene; Bromofluorobenzene; and d4-1,2-dichlorobenzene
SIM-VOC Surrogates: d4-1,2-dichloroethane and d8-Toluene
SEMI-VOC Surrogates: d5-Nitrobenzene; d14-p-Terphenyl; d5-Phenol; 2,4,6-Tribromophenol; 2-Fluorobiphenyl; d4-1,2-Dichlorobenzene; 2-Fluorophenol; d4-2-Chlorophenol

Table 6. P1 Zone - RI Dataset for COCs (MW-32a)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	11/20/2008	3/25/2009	1/15/2010	6/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**73**	**39**	**12**	**30**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**2.1**	**1.5**	**0.9**	**2.7**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	**120**	**25**	**26**	**140**
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	**150**	**16**	**44**	**200**
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**560**	**2**	**95**	**180**
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	**230**	2U	**70**	**290**
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	**73**	**67**	**17**	**250**
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	1U	1U	0.2U	**0.9**
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**180**	**65**	**98**	**200**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**6.4**	**4.2**	**3.8**	**3.6**
Chloroethane	ug/L	Ethane	VOC	NA	NA	1U	**1.9**	**0.8**	**5.9**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**1.7**	**2.9**	**5**	**15**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**12**	**21**	**11**	**26**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**20**	**1.4**	**0.63**	**2.6**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**11**	0.02U	**0.72**	**5.6**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**42**	**18**	**9.8**	**16**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	**24**	15U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	15U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	**9.7**	15U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	5U	10U	**210**	15U
Methylene Chloride	ug/l	MC	VOC	5	FED	2U	2U	**0.8**	**3.2**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	**49**	**16**	**13**	**74**
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	**23**	**5**	**5.1**	**26**
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	1U	1U	0.2U	0.6U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	**1.4**	1U	0.2U	**2.3**
Bromobenzene	ug/L	Other	VOC	NA	NA	1U	1U	0.2U	0.6U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	**2.1**	1U	0.2U	0.6U
Chloromethane	ug/L	Other	VOC	NA	NA	1U	1U	0.5U	1.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	**5.7**	**5.1**	**6.4**	**27**
n-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	1U	0.2U	0.6U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	1U	0.2U	0.6U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**45.9**	**121**	**80.3**	**63.3**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.025**	0.01U	0.1U	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**11.7**	**143**	**82.9**	**52.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**860**	**1320**	**1510**	**1150**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**14.9**	**16.4**	**13.8**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		**11300**	**15300**	**18200**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**5180**	**11000**		**19000**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**7590**	**9370**	**8320**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**3650**	**7250**		**8830**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 7. P1 Zone -RI Dataset for COCs (MW-37p1)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level	Screening Level Source	11/20/2008	3/25/2009	1/14/2010	6/17/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	12-DCP	5	FED	**54**	**50**	**20**	**36**
Benzene	ug/L	BTEX	VOC	BTEX	0.8	MethB carc	1U	1U	0.2U	**0.2**
Ethylbenzene	ug/L	BTEX	VOC	BTEX	700	FED	1U	1U	**0.4**	0.2U
o-Xylene	ug/L	BTEX	VOC	BTEX	1600	MethB non-carc.	1U	1U	**0.3**	0.2U
Toluene	ug/L	BTEX	VOC	BTEX	640	MethB non-carc.	**5.4**	1U	**3**	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	BTEX	1600	MethB non-carc.	2U	2U	**0.7**	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	Chloro-ethanes	200	FED	**24**	**15**	**2.3**	**3.2**
1,1,2-Trichloroethane	ug/L	Ethane	VOC	Chloro-ethanes	0.77	MethB carc	1U	1U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	Chloro-ethanes	1600	MethB non-carc.	**28**	**28**	**7.9**	**13**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	Chloro-ethanes	0.48	MethB carc	1U	1U	0.2U	**0.6**
Chloroethane	ug/L	Ethane	VOC	Chloro-ethanes	NA	NA	1U	**6.2**	**0.6**	**0.4**
1,1-Dichloroethene	ug/L	Ethenes	VOC	Chloro-ethenes	7	FED	**4.8**	**6.4**	**1.7**	**3.4**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	Chloro-ethenes	16	MethB non-carc.	**11**	**11**	**3.7**	**7.5**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	Chloro-ethenes	0.081	MethB carc	**7.7**	**8.8**	**1.9**	**3.1**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	Chloro-ethenes	0.49	MethB carc	**7.1**	**6.9**	**2.2**	**3.9**
Vinyl Chloride	ug/L	Ethenes	VOC	Chloro-ethenes	0.029	MethB carc	**0.082**	**0.52**	**0.58**	**0.077**
2-Butanone	ug/L	Ketone	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	Ketone	7200	MethB non-carc.	5U	10U	5U	**7.8**
Methylene Chloride	ug/l	MC	VOC	MC	5	FED	2U	2U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	TMB	NA	NA	1U	1U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	TMB	80	MethB non-carc.	1U	1U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	DCB	NA	NA	1U	1U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	Other	NA	NA	1U	1U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	Other	NA	NA	1U	1U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	Other	80	MethB non-carc.	**2.4**	**2.4**	**0.9**	**1.5**
Chloromethane	ug/L	Other	VOC	Other	NA	NA	1U	1U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	Other	160	MethB non-carc.	5U	5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	Other	NA	NA	1U	1U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	Other	NA	NA	1U	1U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	Semi-VOC	6	FED				
2-Methylphenol	ug/L	SVOC	SVOC	Semi-VOC	400	MethB non-carc				
4-Methylphenol	ug/L	SVOC	SVOC	Semi-VOC	40	MethB non-carc				
Chloride	mg/L	Inorganic	Inorganic	Inorganic	250	GWCL	**77.5**	**84.8**	**92.9**	**80.9**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	Inorganic	10	GWCL	**8.97**	**8.66**	**5.59**	**9.68**
Sulfate	mg/L	Inorganic	Inorganic	Inorganic	250	GWCL	**150**	**143**	**368**	**99.3**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	Inorganic	500	GWCL		**820**	**1150**	**778**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	Metals	0.058	MethB carc		1.1	**2.9**	0.5U
Iron, Dissolved	ug/L	Metals	Metals	Metals	11200	MethB non-carc		50U	50U	50U
Iron, Total	ug/L	Metals	Metals	Metals	11200	MethB non-carc	**420**	**240**		**230**
Manganese, Dissolved	ug/L	Metals	Metals	Metals	2200	MethB non-carc		**284**	**199**	**72**
Manganese, Total	ug/L	Metals	Metals	Metals	2200	MethB non-carc	**252**	**261**		**236**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable resul
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sampl
Shaded = Exceedance of RI screening Level
Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 8. P1 Zone - RI Dataset for COCs (MW-41a)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	9/24/2009	1/14/2010	6/17/2010	9/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**1.8**	**1.3**	**2.2**	**1.4**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**0.2**	**0.2**	**1.2**	**0.31**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.2U	0.02U	**0.081**	**0.046**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/l	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**196**		**88.2**	**173**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**1.92**	**3.17**	**6.19**	**16.1**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**675**	**317**	**385**	**718**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1850**	**821**	**1220**	**1910**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.8**	**0.8**	0.5U	**0.9**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	**9220**	**1770**	**3060**	**2530**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**4350**	**4560**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**756**	**174**	**271**	**428**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**290**	**488**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 9. P2 Zone - RI Dataset for COCs (MW-33p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	11/19/2008	3/26/2009	1/15/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**20**	**34**	**3.5**	**1.3**	**1.4**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**55**	**55**	**16**	**24**	**22**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	**70**	5U	**7.6**	**50**	**29**
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	**2.4**	5U	**1.8**	**42**	**9.5**
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**5.8**	5U	**10**	**4.8**	**1.3**
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	**100**	10U	**10**	**47**	**19**
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	5U	0.2U	0.6U	1.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	5U	0.2U	0.6U	1.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**52**	**71**	**17**	**19**	**14**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**2.9**	**5.6**	**1**	**1.6**	1.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	**840**	**520**	**130**	**210**	**190**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**0.11**	**0.54**	**0.13**	**0.038**	**0.029**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**3.8**	**7.9**	**2.3**	**0.8**	1.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**0.7**	**2.6**	**0.33**	**0.049**	**0.033**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**1.8**	**5.2**	**1.6**	**0.5**	**0.44**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**6.2**	**22**	**4.7**	**4.1**	**3.2**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	2.5U	25U	5U	15U	30U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	2.5U	25U	5U	15U	30U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	2.5U	25U	**5.3**	15U	30U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**19**	50U	5U	**32**	30U
Methylene Chloride	ug/l	MC	VOC	5	FED	**10**	**15**	**5.1**	**11**	**9.1**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	**33**	5U	**5**	**17**	**13**
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	**6.8**	5U	**0.4**	**4.7**	**3.6**
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	**0.4**	5U	**0.4**	0.6U	1U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	**0.5**	5U	**0.3**	0.6U	1.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	**1.6**	5U	**1.1**	**1.9**	1.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	5U	0.2U	0.6U	1.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.2U	5U	0.5U	1.5U	3U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	**10**	25U	**1.8**	**9.2**	**6.6**
n-Butylbenzene	ug/L	Other	VOC	NA	NA	**0.2**	5U	0.2U	0.6U	1.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	5U	**0.4**	0.6U	1.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**1290**	**1290**	**1370**	**765**	**1580**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.014**	0.01U	0.01U	**0.03**	0.05U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**19.9**	**17.4**	**46.8**	40U	**27.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL		**3340**	**2980**	**3870**	**4100**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**6.8**	**2**	**9.1**	**8.9**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		**8450**	**90**	**16200**	**16900**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**126000**	**35600**		**64000**	**66700**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**12300**	**13400**	**16500**	**15000**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**12600**	**11900**		**16300**	**15900**

Bold = Detection

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#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 10. P2 Zone - RI Dataset for COCs (MW-35p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	11/18/2008	3/26/2009	1/14/2010	6/15/2010	9/16/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**17**	50U	20U	20U	100U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**81**	**110**	**61**	**64**	100U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	**600**	**760**	**510**	**830**	**630**
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	**620**	**480**	**290**	**810**	**560**
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**11000**	**2300**	**2200**	**10000**	**9300**
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	**1300**	**840**	**600**	**1800**	**1300**
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	**2.1**	50U	20U	20U	100U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	1U	50U	20U	20U	100U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**1000**	**95**	**100**	**340**	**220**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**14**	50U	20U	20U	100U
Chloroethane	ug/L	Ethane	VOC	NA	NA	**880**	**1600**	**560**	**650**	**600**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**1.3**	50U	**0.67**	**0.35**	2U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**19**	50U	**15**	20U	100U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**3.2**	50U	**0.55**	**0.71**	**2.3**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**4.2**	50U	**0.83**	**0.84**	**2.9**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**47**	50U	**22**	**58**	**20**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	**9000**	250U	500U	500U	2500U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	**340**	250U	500U	500U	2500U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	**3700**	250U	500U	**760**	2500U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**26000**	500U	500U	500U	2500U
Methylene Chloride	ug/l	MC	VOC	5	FED	**25**	100U	50U	50U	250U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	**110**	**150**	**80**	**140**	100U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	**47**	**54**	**25**	**52**	100U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	1U	50U	20U	20U	1U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	1U	50U	20U	20U	100U
Bromobenzene	ug/L	Other	VOC	NA	NA	1U	50U	20U	20U	100U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	1U	50U	20U	20U	100U
Chloromethane	ug/L	Other	VOC	NA	NA	1U	50U	50U	50U	250U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	**34**	250U	50U	50U	**10**
n-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	50U	20U	20U	100U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	50U	20U	20U	100U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					**150**
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					**170**
Chloride	mg/L	Inorganic	Inorganic	250	STATE	**853**	**953**		**974**	**848**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	STATE	**0.015**	0.02U	0.01U	0.05U	0.1U
Sulfate	mg/L	Inorganic	Inorganic	250	STATE	**14.1**	**8.8**	2U	**8.4**	**25.7**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	STATE			**2040**	**2380**	
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc			**3**	**16.3**	**16.1**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc			**90**	**34000**	**29400**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**20700**	**54200**		**77600**	**50500**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc			**8730**	**11000**	**9560**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**11400**	**11400**		**12500**	**10000**

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#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 11. P2 Zone - RI Dataset for COCs (MW-38p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	11/18/2008	3/26/2009	1/14/2010	6/16/2010	9/16/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**1100**	**970**	**990**	**1200**	**1100**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**89**	**110**	**150**	**150**	**180**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	**200**	**590**	**1300**	**610**	**900**
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	**470**	**930**	**2000**	**1200**	**1400**
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**2900**	**5200**	**18000**	**3800**	**21000**
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	**300**	**1300**	**4000**	**2400**	**3300**
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	**210**	**1200**	**2700**	**4200**	**5000**
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	**15**	100U	150U	**35**	100U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**1400**	**2200**	**3300**	**4500**	**5200**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**140**	**260**	**440**	**410**	**510**
Chloroethane	ug/L	Ethane	VOC	NA	NA	1U	100U	150U	20U	100U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**300**	**300**	**470**	**710**	**920**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**500**	**520**	**820**	**1100**	**1600**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**24**	100U	**21**	**17**	**31**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**180**	100U	**19**	**50**	**56**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**620**	**880**	**1000**	**1300**	**1100**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	**2600**	500U	3800U	500U	2500U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	**73**	500U	3800U	500U	2500U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	**1000**	500U	3800U	500U	2500U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**12000**	1000U	3800U	500U	2500U
Methylene Chloride	ug/l	MC	VOC	5	FED	**230**	200U	380U	**230**	250U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	**38**	**120**	**300**	110	**130**
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	**27**	100U	**160**	**76**	100U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	1U	100U	150U	20U	1U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	1U	100U	150U	20U	100U
Bromobenzene	ug/L	Other	VOC	NA	NA	**3.2**	100U	150U	20U	100U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	**89**	**100**	**230**	**280**	**300**
Chloromethane	ug/L	Other	VOC	NA	NA	1U	100U	380U	50U	250U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	**12**	500U	380U	50U	250U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	100U	150U	20U	100U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	1U	100U	150U	20U	100U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					**2.3**
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					**510**
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					**430**
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**213**	**179**		**175**	**211**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	**0.011**	**0.03**	**0.054**	0.05U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**158**	**147**	**67.3**	**666**	**128**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**874**		**860**	**1020**	**976**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc			**2.8**	**2.9**	**4.1**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc			**270**	**2790**	**4070**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**17800**	**98000**		**4040**	**5240**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc			**4020**	**3150**	**1890**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**2840**	**3360**		**2040**	**2480**

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#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 12. P2 Zone - RI Dataset for COCs (MW-39p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	8/4/2009	9/25/2009	1/13/2010	6/17/2010	9/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U	**0.3**	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**0.4**	**0.6**	**0.3**	**0.5**	**0.7**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	**0.4**	0.2U	0.2U	**0.3**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**1.3**	**2**	**1.7**	**1.6**	**2.5**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**0.8**	**1.8**	**1.1**	**1.1**	**1.2**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**0.30**	**0.50**	**0.35**	**0.40**	**0.50**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.2U	**0.3**	**0.29**	**0.092**	**0.71**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**7.7**	5U	5U	5U	**13**
Methylene Chloride	ug/l	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**327**	**279**		**281**	**230**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**17.8**	**11.5**	**0.823**	**5.83**	**2.34**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**93.5**	**86.4**	**95.6**	**43.6**	**74.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1270**	**1250**	**1240**	**1320**	**1310**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2.5**	**3.6**	**3.1**	**4.6**	**4.4**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	**400**	50U	50U	**60**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc				**13700**	**25300**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**147**	**131**	**29**	**150**	**70**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc				**232**	**356**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 13. P2 Zone - RI Dataset for COCs (MW-40p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	8/6/2009	9/24/2009	1/14/2010	6/17/2010	9/16/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U	**0.2**	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	0.2U	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.2U	**0.2**	**0.22**	**0.17**	**0.33**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	0.2U	0.2U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.2U	0.2U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.8	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					**5**
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**43.5**	**35.7**		**37.6**	**47.7**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**4.48**	**2.49**	**1.74**	**1.06**	**4.48**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**112**	**124**	**142**	**113**	**153**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**463**	**429**	**412**	**419**	**459**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.4**	**1.4**	1U	0.5U	0.5U
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	**180**	**150**	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc				**28900**	**29100**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**50**	**99**	**293**	**15**	**3**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc				**484**	**699**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 14. P2 Zone - RI Dataset for COCs (MW-43p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	9/24/2009	1/14/2010	6/16/2010	9/16/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**13**	**12**	**27**	**21**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U	0.2U	**0.3**	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**6.9**	**6**	**14**	**11.00**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**1**	**1**	**2.4**	**2.10**
Chloroethane	ug/L	Ethane	VOC	NA	NA	**100**	**11Q**	**21**	**19.00**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**0.6**	**0.5**	**0.8**	**0.67**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**8.6**	**7**	**17**	**13.00**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**1.1**	**0.56**	**0.91**	**0.93**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**0.7**	**0.42**	**0.8**	**0.65**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**0.4**	**0.038**	**0.24**	**0.12**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**6.5**	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	**1.3**	0.5U	**1.9**	**1.30**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	**0.4**	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				**1.00**
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**45.6**	**90**	**164**	**200.00**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.027**	**0.3**	**0.271**	**0.30**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**45.6**	**53**	**42.9**	**90.40**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**462**	**438**	**685**	
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.4**	**1.1**	**1**	
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**4940**	**1340.00**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**462**	**138**	**10**	
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**160**	**146.00**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 15. P2 Zone - RI Dataset for COCs (MW-46p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	9/23/2009	1/13/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.2U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	0.2U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.2U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**7.1**	**6.4**	**6.5**	**7.9**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.05U	0.074	0.01U	0.05U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**117**	**99.5**	**109**	**105**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**305**	**319**	**308**	**308**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.7**		**0.4**	**0.9**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**38200**	**190**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**53**		**26**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**600**	**3**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 16. P2 Zone - RI Dataset for COCs (MW-49p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	9/23/2009	1/13/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**0.7**	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.2U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	0.2U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.2U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**5**	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**3.7**	**3.2**	**3.1**	**3.2**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.09**	**0.013**	**0.026**	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**44.2**	**52.3**	**55.4**	**56.8**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**200**	**175**	**204**	**185**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**0.7**	**0.9**	
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		50U	50U	
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**9230**		**200**	**38500**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**8**	**3**	
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**126**		**6**	**877**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 17. P2 Zone - RI Dataset for COCs (MW-52p2)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	12/29/2009	2/16/2010	6/17/2010	9/16/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	**0.2**	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	0.02U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.02U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	0.02U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**3.7**	**3.9**	**3.6**	**3.6**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	**0.021**	**0.015**	**0.014**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**26.3**	**24.4**	**24**	**27.4**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**185**	**189**	**204**	
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.7**	1U	**0.4**	
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**3880**	**1830**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**27**	**42**	**27**	
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**87**	**55**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 18. Roza - RI Dataset for COCs (MW-3b)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	3/6/08	4/4/08	7/16/08	10/2/08	1/15/09	3/25/09	6/17/09	10/15/09	12/16/09	3/25/10	6/30/10	9/21/10
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**10.0**		**9.9**	**10.0**	**8.5**	**12.0**	**12.0**	**12.0**	**11.0**	**9.4**	**9.0**	**8.6**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**2.1**		**5.2**	**8.0**	**3.9**	**2.2**	**1.7**	**1.5**	**2.1**	**1.4**	**1.3**	**1.2**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U		1U	**0.2**	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U		1U	**0.3**	**0.2**	0.6U	**0.2**	0.2U	0.2U	**0.3**	**0.3**	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	1.2U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**13.0**		**15**	**13.0**	**10.0**	**9.8**	**10.0**	**12.0**	**12.0**	**6.4**	**7.2**	**7.0**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**1.8**		**1.8**	**1.7**	**1.3**	0.6U	**1.4**	**1.8**	**1.3**	**1.1**	**1.2**	**1.1**
Chloroethane	ug/L	Ethane	VOC	NA	NA	**29.0**		**140.0**	**170.0**	**74.0**	**36.0**	**31.0**	**27.0**	**47.0**	**10.0**	0.2U	**8.7**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**0.8**	**0.8**	**1.0**	**0.8**	**0.7**	**0.9**	**0.7**	**0.8**	**0.8**	**0.7**	**0.0**	**0.6**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**21.0**		**12.0**	**16.0**	**21.0**	**84.0**	**46.0**	**31.0**	**26.0**	**53.0**	**41.0**	**30.0**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.2U	**0.039**	**0.027**	0.2U	0.2U	**0.2**	0.2U	0.2U	0.2U	**0.4**	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**1.0**	**0.9**	**0.56**	**0.7**	**1.3**	**3.8**	**1.4**	**0.8**	**0.6**	**2.4**	**1.7**	**0.9**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**34.0**	**27.0**	**17**	**18.0**	**16.0**	**56.0**	**40.0**	**31.0**	**24.0**	**42.0**	**36.0**	**26.0**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	7.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	2.5U		5U	2.5U	2.5U	7.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	7.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	3U		**18**	**7.2**	**5.2**	7.5U	5U	**6.9**	5U	**5.1**	**5.9**	5U
Methylene Chloride	ug/L	MC	VOC	5.0	FED	**1.9**		**3.2**	**3.6**	**2.7**	**2.0**	**1.7**	**1.7**	**1.8**	**0.9**	**1.1**	**0.8**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80.0	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	**0.3**	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	**0.2**		1U	**0.6**	**0.3**	0.6U	**0.2**	**0.2**	**0.2**	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80.0	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.6U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160.0	MethB non-carc.	0.5U		5U	**0.6**	0.5U	1.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	**0.2**	0.2U	0.6U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6.0	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**1470**		**1000**	**1060**	**1210**	**1240**	**1270**	**1260**	**1200**	**981**	**934**	**510**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	**0.011**	0.01U	0.01U	0.01U	0.01U	**0.011**	0.01U	0.01U	0.01U	0.01U	0.02U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**1420**		**790**	**883**	**1040**	**1340**	**1390**	**1380**	**1100**	**1440**	**1130**	**1620**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**5200**		**3680**	**3940**	**4780**	**4970**	**4490**	**5100**	**4640**	**4660**	**4740**	**4810**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.0**		**1.0**	**2.5**	**2.7**	**2.4**	**3.2**	**2.3**	**2.0**	**2.6**	**2.0**	**2.5**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						**9100**	**8550**	**8670**	**8320**	**7390**	**7510**	**8670**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**7790**		**7080**	**7450**	**8830**	**8700**	**8680**	**8050**	**6130**	**7490**	**7410**	**8150**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						**20200**	**21100**	**21000**	**18800**	**17300**	**18700**	**20700**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**16600**		**14800**	**15600**	**19000**	**19900**	**21000**	**18500**	**15500**	**17500**	**18300**	**19200**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 19. Roza - RI Dataset for COCs (MW-7b)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	3/6/2008	4/4/2008	7/16/2008	10/2/2008	1/15/2009	3/24/2009	6/17/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5.0	FED	**8.1**		**6.9**	**8.2**	**11.0**	**10.0**	**12.0**	**9.4**	**9.9**	**8.0**	**8.1**	**8.2**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**3.1**		**1.6**	**2.6**	**3.4**	**1.7**	**1.4**	**1.1**	**1.1**	**0.6**	**0.8**	**0.9**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	**0.3**		1U	**0.2**	**0.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**18.0**		**21.0**	**27.0**	**17.0**	**19.0**	**17.0**	**16.0**	**18.0**	**12.0**	**10.0**	**12**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**2.4**		**2.4**	**2.7**	**2.6**	**2.2**	**2.1**	**2.1**	**1.8**	**1.6**	**1.4**	**1.5**
Chloroethane	ug/L	Ethane	VOC	NA	NA	**120.0**		**130.0**	**150.0**	**100.0**	**72.0**	**49.0**	**42.0**	**45.0**	**26.0**	0.2U	**19**
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	**0.7**	**0.8**	**1.1**	**0.9**	**1.0**	**0.8**	**0.8**	**0.9**	**1.0**	**0.6**	**0.6**	**0.7**
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**14.0**		**10.0**	**12.0**	**17.0**	**20.0**	**29.0**	**25.0**	**25.0**	**16.0**	**18.0**	**24**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	0.2U	**0.1**	**0.1**	0.2U	0.2U	**0.5**	0.2U	**0.2**	0.2U	**0.6**	**0.7**	**0.3**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**0.6**	**0.4**	**0.6**	**0.4**	**0.8**	**0.8**	**1.3**	**1.3**	**0.8**	**1.4**	**1.2**	**1.4**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**15.0**	**17.0**	**12.0**	**14.0**	**12.0**	**19.0**	**23.0**	**23.0**	**21.0**	**12.0**	**15.0**	**20**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	3U		5U	**4.2**	**4.3**	**4.3**	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	**4.0**		**4.0**	**4.2**	**3.9**	**3.3**	**2.5**	**2.2**	**2.5**	**1.8**	**1.7**	**1.6**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	**0.3**		1U	**0.2**	**0.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	**0.7**		1U	**0.6**	**0.5**	**0.4**	0.2U	**0.3M**	**0.3**	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			**3.3**		1U				**1.5**			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorg.	250	GWCL	**993**		**930**	**946**	**1050**	**1110**	**1260**	**1040**	**1070**	**836**	**847**	**894**
Nitrate as Nitrogen	mg/L	Inorganic	Inorg.	10	GWCL	0.01U	0.01U	0.01U	**0.2**	0.01U	**0.013**	**0.01**	0.01U	0.01U	0.01U	0.01U	0.01U
Sulfate	mg/L	Inorganic	Inorg.	250	GWCL	**834**		**760**	**746**	**706**	**978**	**1140**	**1090**	**1110**	**816**	**776**	**1060**
Total Dissolved Solids	mg/L	Inorganic	Inorg.	500	GWCL	**3500**		**3140**	**3260**	**3620**	**3840**	**4040**	**3920**	**3920**	**3160**	**3720**	**3900**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2.0**		1U	**0.8**	**1.1**	**0.9**	**1.5**	**1.0**	1U	**2.0**	**1.7**	**1.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						**2900**	**3320**	**2870**	**2880**	**1750**	**2210**	**2610**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**3100**		**2620**	**2800**	**3150**	**2800**	**3510**	**3020**	**2550**	**1600**	**2230**	**2490**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						**16200**	**18200**	**16600**	**16100**	**11700**	**13800**	**14600**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**15800**		**14200**	**14400**	**15800**	**15900**	**18400**	**16300**	**14200**	**10900**	**13900**	**13500**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 20. Roza - RI Dataset for COCs (MW-9b)

Chemical of Concern (COC)	Units	Group	Group Classes	Screening Level Source	Screening Level Source	3/6/2008	4/3/2008	7/15/2008	10/1/2008	1/14/2009	3/24/2009	6/17/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010
1,2-Dichloropropane	ug/L	12-DCP	VOC	5	FED	**3**		**3.4**	**4.4**	**3.4**	**3.1**	**2.6**	**2**	**2.5**	**2**	**1.8**
Benzene	ug/L	BTEX	VOC	0.8	MethB carc	**0.7**		1U	**0.7**	**0.6**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**
Ethylbenzene	ug/L	BTEX	VOC	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	VOC	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	VOC	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	VOC	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	Ethane	VOC	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	VOC	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	VOC	1600	MethB non-carc.	**5.6**		**4.9**	**5.9**	**5.2**	**4.2**	**2.7**	**1.8**	**2.5**	**1.8**	**1.4**
1,2-Dichloroethane (EDC)	ug/L	Ethane	VOC	0.48	MethB carc	**0.7**		1U	**0.8**	**0.7**	0.2U	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**
Chloroethane	ug/L	Ethane	VOC	NA	NA	**0.8**		**1.8**	**1.8**	**1.8**	**0.7**	**0.5**	0.2U	**0.5**	**0.2**	0.2U
1,1-Dichloroethene	ug/L	Ethenes	VOC	7	FED	0.2U	**0.21**	0.02U	**0.3**	**0.2**	**0.16**	**0.2**	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	VOC	16	MethB non-carc.	**15**		**13**	**18**	**14**	**12**	**8.2**	**5.5**	**8.4**	**6.3**	**5.9**
Tetrachloroethene (PCE)	ug/L	Ethenes	VOC	0.081	MethB carc	**5.4**	**5.7**	**5**	**6.5**	**5.6**	**3.6**	**3.8**	**1.9**	**3.5**	**2.7**	**2.6**
Trichloroethene (TCE)	ug/L	Ethenes	VOC	0.49	MethB carc	**1.2**	**1.2**	**1.6**	**1.4**	**1.4**	**1**	**0.8**	**0.5**	**0.9**	**0.6**	**0.8**
Vinyl Chloride	ug/L	Ethenes	VOC	0.029	MethB carc	**15**	**13**	**12**	**14**	**12**	**8.1**	**4.3**	**4**	**4.8**	**3.4**	**2.7**
2-Butanone	ug/L	Ketone	VOC	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	VOC	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	VOC	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	VOC	7200	MethB non-carc.	**3.4**		5U	3U	**4**	**5.4K**	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	VOC	5	FED	**0.6**		2U	**0.6**	**0.5**	0.5U	0.5U	0.5U	0.5U	0.5U	**0.5**
1,2,4-Trimethylbenzene	ug/L	TMB	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	VOC	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	VOC	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	VOC	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	VOC	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U		
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U								
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U								
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**1160**		**930**	**948**	**1020**	**1090**	**644**	**357**	**581**	**431**	**316**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**7.58**	**9.82**	**11.5**	**12.1**	**10.2**	**21.6**	**17.8**	**5.86**	**16.1**	**19.9**	**15.9**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**851**		**900**	**777**	**731**	**846**	**683**	**376**	**388**	**524**	**452**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**3720**		**3280**	**3240**	**3560**	**3400**	**2880**	**2080**	**2580**	**2380**	**2180**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2**		**1.9**	**2.1**	**2.6**	**9.4**	**9.7**	**3.7**	**5.4**	**13.9**	**9.8**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	100U		50U	100U	100U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						**6660**	**4600**	**2780**	**4040**	**3170**	**3180**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**8650**		**6080**	**6140**	**7480**	**6170**	**4630**	**2520**	**3610**	**3080**	**3100**

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#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 21. Roza - RI Dataset for COCs (MW-29b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	11/20/2008	3/26/2009	1/15/2010	6/16/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**120**	**110**	**62**	**67**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	1U	**1.6**	**3.4**	**5.1**
Ethylbenzene	ug/L	VOC	BTEX	700	FED	**1.9**	1U	0.2U	0.6U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	**1.5**	1U	**0.2**	0.6U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	**20**	**1.6**	**0.4**	0.6U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	**4.3**	2U	0.4U	1.2U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	1U	1U	0.2U	0.6U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	1U	1U	0.2U	0.6U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**73**	**79**	**51**	**66**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	**7.5**	**7.5**	**5.1**	**5.4**
Chloroethane	ug/L	VOC	Ethane	NA	NA	**11**	1U	**6.5Q**	**14**
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**1.2**	**1**	**0.76**	**0.8**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**27**	**25**	**18**	**21**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**1.1**	**0.85**	**0.6**	**0.37**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**3.3**	**2.7**	**1.8**	**1.8**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**13**	**17**	**23**	**38**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	15U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	15U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	15U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	**11**	5U	15U
Methylene Chloride	ug/L	VOC	MC	5	FED	**2.8**	**2.5**	**1.4**	**2.3**
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	1U	1U	0.2U	0.6U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	1U	1U	0.2U	0.6U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	1U	1U	0.2U	**4.7**
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	1U	1U	0.2U	0.6U
Bromobenzene	ug/L	VOC	Other	NA	NA	1U	1U	**0.4**	**0.7**
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	1U	1U	0.2U	0.6U
Chloromethane	ug/L	VOC	Other	NA	NA	1U	1U	0.5U	1.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	5U	5U	0.5U	1.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	1U	1U	0.2U	0.6U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	1U	1U	0.2U	0.6U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**309**	**392**	**466**	**519**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.679**	**0.257**	**0.128**	**0.04**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**71.9**	**76.1**	**84.3**	**38.3**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1050**	**1140**	**1070**	**1380**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**1.8**	1U	**0.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		**150**	**320**	**520**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**3400**	**440**		**3260**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**988**	**882**	**1280**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**1450**	**979**		**1280**

Bold = Detection

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#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 22. Roza - RI Dataset for COCs (MW-30b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	11/18/2008	3/26/2009	1/15/2010	6/16/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**0.2**	1U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	**0.2**	1U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	**1.6**	1U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	**1.5**	1U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	**35**	**9.8**	**1.4**	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	**3.4**	2U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	VOC	Ethane	200.00	FED	**4.50**	**2.4**	**1.1**	**0.6**
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1,600.00	MethB non-carc.	**4.60**	**3.6**	**1.4**	**1.8**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	1	1U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**0.3**	**0.14**	**0.056**	**0.043**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**1**	1U	**0.4**	**0.6**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**0.5**	**0.11**	**0.032**	**0.028**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.5**	**0.31**	**0.066**	**0.04**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**2.4**	**0.3**	**0.043**	**0.025**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	**14**	10U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	**0.5**	2U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	1U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	**0.2**	1U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U	1U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**10.4**	**12.1**	**8.9**	**10**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.169**	**0.016**	0.02U	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**55.2**	**54.7**	**37.6**	**43.7**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**248**	**288**	**245**	**276**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**0.6**	**1.5**	**0.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		**80**	**10200**	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**11100**	**3360**		**1050**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**308**	**302**	**158**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**460**	**319**		**216**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 23. Roza - RI Dataset for COCs (MW-31b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	11/18/2008	3/26/2009	1/14/2010	6/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	1U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	1U	**1.4**	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	1U	**0.9**	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	**0.6**	1U	**11**	**0.5**
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	2U	**2**	0.4U
1,1,1-Trichloroethane	ug/l	VOC	Ethane	200	FED	0.2U	1U	**0.4**	**0.8**
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	**1.6**	**1.1**	**2.2**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	1U	**0.3Q**	**0.5**
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**0.064**	**1.4**	**3.2**	**3.6**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.02U	1U	**0.056**	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.02U	0.02U	0.02U	**0.097**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.052**	**0.38**	**0.079**	**0.12**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**0.5**	**3.6**	**5.1**	**7.8**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	**17**	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	**4.1**	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	**78**	10U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	2U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	1U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	**3.6**	1U	**0.2**	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U	1U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**5.7**	**6**		**4.4**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	**0.018**	0.01U	**0.022**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**39.7**	**40.9**	**45.6**	**49**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**238**	**234**	**248**	**234**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc		**0.4**	0.5U	**0.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc		50U	**270**	**70**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**27200**	**4870**		**1100**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc		**91**	**84**	**84**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**512**	**162**		**100**

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#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 24. Roza - RI Dataset for COCs (MW-42b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	9/24/2009	1/12/2010	6/15/2010	9/16/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**26**	**24**	**20**	**17**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	**1.3**	**2**	2U	**1.5**
Ethylbenzene	ug/L	VOC	BTEX	700	FED	**0.5**	0.2U	2U	**0.4**
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	**0.8**	**0.4**	2U	**0.3**
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	**0.5**	0.4U	4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**43**	**43**	**44**	**42**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	**6.2**	**5.3**	**5.3**	**3.9**
Chloroethane	ug/L	VOC	Ethane	NA	NA	**330**	**320**	**200**	**190**
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**4.2**	**4.1**	**3.2**	**2.7**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**38**	**37**	**30**	**25**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**4**	**3.6**	**3.1**	**2.2**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**2.2**	**1.8**	**1.4**	**1.4**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**9.4**	**8.7**	**5.9**	**7**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	50U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	50U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	50U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	**8**	**6.4**	50U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	**6.7**	**7.1**	**5.9**	**4.2**
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	**0.2**	0.2U	2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	**0.4**	**0.4**	2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	**0.5**	**0.4**	2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	5U	1U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	**0.3**	**0.2**	2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**329**	**348**	**338**	**325**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.023**	0.01U	**0.011**	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**95.2**	**264**	**270**	**244**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1350**	**1520**	**1560**	**1540**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.5**	**1.4**	**1.3**	**1.5**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	**120**	**110**	**150**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**140**	**220**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc.	**1350**	**1650**	**1290**	**1430**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc.			**1400**	**1610**

Bold = Detection

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#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 25. Roza - RI Dataset for COCs (MW-44b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	9/24/2009	1/13/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**21**	**27**	**36**	**32**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	**39**	**34**	**33**	**25**
Ethylbenzene	ug/L	VOC	BTEX	700	FED	**2.1**	**1.3**	2U	2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	**0.7**	**0.4**	2U	2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	**0.3**	**0.4**	2U	2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	**0.6**	0.4U	4U	4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	2U	2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	2U	2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**39**	**53**	**64**	**54**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	**2.4**	**2.6**	**3.8**	**3**
Chloroethane	ug/L	VOC	Ethane	NA	NA	**450**	**440**	**440**	**380**
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**0.7**	**0.86**	**0.74**	**0.99**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**5.5**	**7.4**	**8.2**	**6.6**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	**0.1**	**0.084**	**0.11**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**1.8**	**2**	**2.5**	**2.6**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	50U	50U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	50U	50U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	50U	50U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	**12**	**5.8**	50U	50U
Methylene Chloride	ug/L	VOC	MC	5	FED	**12**	**12**	**14**	**11**
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	**1.7M**	0.2U	2U	2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	2U	2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	**1.1**	**1.1**	2U	1U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	2U	2U
Bromobenzene	ug/L	VOC	Other	NA	NA	**3.1**	**3.2**	**4M**	**3**
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	2U	2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	5U	5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	5U	1U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	**0.2**	0.2U	2U	2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	**0.7**	**0.7**	2U	2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**484**	**431**	**444**	**397**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	0.01U	0.01U	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**29.1**	**34.2**	**27.2**	**43**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1360**	**1350**	**1460**	**1520**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.3**	**3.9**	**3.7**	**3.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	**290**	**640**	**820**	**800**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**830**	**920**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**3120**	**2890**	**2870**	**2560**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**2780**	**2840**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 26. Roza - RI Dataset for COCs (MW-48b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	9/23/2009	1/12/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**5**	**5.8**	**5.5**	**5.9**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**3.3**	**3.51**	**3.13**	**3.13**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**21.4**	**28.2**	**28.9**	**32.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**254**	**284**	**274**	**256**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.6**	**1.5**	**1.4**	**1.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**11**	**11**	**2**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**2**	1U

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 27. Roza - RI Dataset for COCs (MW-51b)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	12/28/2009	2/16/2010	6/17/2010	9/14/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.02U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.02U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.02U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**7.9**	**5.9**	**7.6**	**8.2**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.846**	**0.445**	**0.787**	**0.803**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**50.9**	**39.1**	**45.9**	**51.4**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**270**	**240**	**275**	**257**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.1**	**2**	**0.6**	**0.9**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**310**	**310**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**9**	**11**	**13**	**11**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**15**	**14**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 28. Saturated Alluvium - RI Dataset for COCs (MW-53a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	12/29/2009	2/16/2010	6/17/2010	9/14/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**0.3**	**0.4**	**0.4**	**0.5**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	**0.4**	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**0.9**	**1.3**	**1.4**	**1.6**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**0.022**	**0.053**	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.02U	**0.15**	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.02U	**0.083**	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	1U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**16**	**16.7**	**16.4**	**32.3**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**3.38**	**3.3**	**3.15**	**2.73**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**66.4**	**68.5**	**52.3**	**63.9**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**353**	**358**	**395**	**360**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**9**	**9**	**8**	**9.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**150**	**4220**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**8**	**7**	1U	**1**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**2**	**54**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 29. Whitson Well - RI Dataset for COCs (Whitson)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	7/9/2009	8/4/2009	10/14/2009	6/17/2010	9/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**4.7**	**4.6**	**5**	**5.3**	**4.7**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	**0.7**	**0.7**	**0.9**	**1**	**0.8**
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**5.8**	**6.2**	**6.8**	**7.5**	**6.2**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	**0.6**	**0.5**	**0.6**	**0.7**	**0.5**
Chloroethane	ug/L	VOC	Ethane	NA	NA	**2.1**	**2.4**	**2.7**	**2.4**	**2.3**
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**0.2**	**0.2**	**0.2**	**0.2**	**0.22**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**2.3**	**2.5**	**2.9**	**3.2**	**2.4**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**0.4**	**0.4**	**0.4**	**0.5**	**0.47**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.3**	**0.3**	**0.3**	**0.4**	**0.31**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**4.1**	**4.5**	**5**	**5.1**	**4.6**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	6	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	**0.6**	**0.5K**	**1**	**0.7**	**0.6**
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED					1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc					1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc					1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**74.1**		**87.5**	**97.5**	**98.5**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**3.37**		**5.81**	**2.59**	**2.55**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**32.3**		**30.3**	**22.2**	**33.6**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**350**		**376**	**368**	**362**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.8**		**0.8**	0.5U	0.5U
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc				50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc				1U	1U

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 30. Interflow Aquifer - RI Dataset for COCs (MW-2c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/2/2008	7/14/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/22/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**0.2**		**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**3.3**		**3.3**	**3.4**	**3.5**	**3.4**	**3.2**	**2.8**	**2.8**	**2.8**	**2.9**	**3.1**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	**0.046**	**0.064**	0.2U	0.2U	**0.056**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**0.3**		**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**1.5**	**1.5**	**2**	**1.6**	**1.5**	**1.3**	**1.7**	**1.3**	**1.2**	**1.3**	**1.3**	**1.3**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.5**	**0.5**	**0.65**	**0.6**	**0.6**	**0.54**	**0.6**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		3U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		0.5U	0.5U	0.5U	0.5	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	**0.3M**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				**11**			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**659**		**680**	**712**	**722**	**748**	**732**	**757**	**754**	**780**	**781**	**832**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**8.43**	**8.41**	**7.31**	**8.76**	**7.93**	**8.33**	**7.68**	**7.58**	**7.79**	**7.58**	**8.01**	**7.63**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**55.9**		**56**	**53.3**	**55.7**	**40.5**	**42.8**	**50**	**56.7**	**45**	**42.3**	**57.3**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1820**		**2080**	**2110**	**1540**	**1350**	**1340**	**1790**	**1730**	**1840**	**1360**	**2120**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	1U		0.5U	**0.6**	**0.6**	0.5U	0.5U	**2.2**	0.5U	0.5U	**0.7**	0.5U
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	**120**	50U	**80**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	**4**	**7**	**8**	**4**	**7**	**10**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		**2**	**6**	**2**	1U	**5**	**8**	**8**	**7**	**7**	**13**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 31. Interflow Aquifer - RI Dataset for COCs (MW-4c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/1/2008	7/15/2008	10/1/2008	1/15/2009	3/25/2009	6/16/2009	10/15/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		3U	3U	3U	**2.6K**	5U	5U	**5.5Q**	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		0.5U	0.5U	0.5U	**0.6**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	20U		**9.7**	**10.7**	**9.8**	**10.6**	**9.8**	**10**	**9.9**	**11**	**10.1**	**10.6**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	0.01U	**0.068**	0.01U	0.02U	0.01U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**33**		**30**	**32.5**	**33.4**	**34.6**	**34.1**	**33.4**	**36.7**	**36.2**	**35.6**	**34.9**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**192**		**211**	**188**	**184**	**167**	**190**	**204**	**194**	**198**	**234**	**200**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	1U		**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.4**	**0.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						**29**	**29**	**29**	**30**	**29**	**28**	**31**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**27**		**28**	**27**	**29**	**26**	**30**	**29**	**30**	**27**	**27**	**32**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 32. Interflow Aquifer - RI Dataset for COCs (MW-5c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/6/2008	4/3/2008	7/15/2008	10/1/2008	1/14/2009	3/24/2009	6/17/2009	10/14/2009	12/16/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**1.7**		**1.4**	**1.9**	**1.7**	**1.9**	**1.8**	**1.5**	**1.6**	**1.5**	**1.4**	**1.4**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**1.8**		**1.6**	**2.0**	**1.9**	**2.0**	**1.6**	**1.5**	**1.5**	**1.5**	**1.4**	**1.5**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	**1.4**		**1.2**	**1.4**	**1.2**	**1.4**	**1.3**	**1.3**	**1.1**	**1.4**	**1.4**	**1.5**
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	**0.1**	**0.1**	0.2U	0.2U	**0.1**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**11**		**8.8**	**12.0**	**11.0**	**11.0**	**8.9**	**8.9**	**8.6**	**8.2**	**7.6**	**8.2**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**11**	**11.0**	**8.9**	**12.0**	**11.0**	**9.1**	**11.0**	**9.0**	**8.1**	**8.1**	**7.7**	**8.3**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**1.8**	**1.7**	**2.3**	**1.9**	**1.8**	**2**	**1.9**	**1.6**	**1.5**	**1.6**	**1.6**	**1.6**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**0.30**	**0.27**	**0.39**	**0.40**	**0.40**	**0.38**	**0.30**	**0.30**	**0.30**	**0.20**	**0.20**	**0.20**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	**0.5**		2U	0.5U	**0.5**	0.5U	0.5U	**0.8**	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	**0.6**		1U	**0.6**	**0.6**	**0.6**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.6**
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**517**		**530.0**	**494.00**	**598.0**	**661.0**	**542.0**	**598.0**	**577.0**	**597.0**	**564.0**	**583.0**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**9.8**	**10.0**	**10.2**	**11.9**	**10.0**	**11.1**	**10.0**	**12.0**	**11.6**	**10.2**	**9.7**	**11.5**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**175**		**190.0**	**182.0**	**173.0**	**187.0**	**173.0**	**183.0**	**242.0**	**165.0**	**139.0**	**199.0**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1730**		**1690.0**	**1860.0**	**1750.0**	**1530.0**	**1460.0**	**1790.0**	**1610.0**	**1640.0**	**1370.0**	**1340.0**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	1U		**0.6**	**1.2**	**1.3**	**1.4**	**1.5**	**1.4**	**1**	**1.4**	**1.6**	**1.2**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	**150**	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	**1**	**2**	**2**	**2**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	5	**2**	**2**	**2**	**3**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 33. Interflow Aquifer - RI Dataset for COCs (MW-6c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/14/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**2.1**		**1.7**	**2**	**2**	**1.8**	**1.5**	**1.3**	**1.2**	**1.2**	**1.2**	**1.2**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	**0.11**	**0.14**	0.2U	0.2U	**0.085**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**0.4**		**0.46**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**1.4**	**1.4**	**1.7**	**1.5**	**1.3**	**1**	**1.2**	**1.1**	**0.9**	**0.9**	**0.9**	**0.8**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.5**	**0.46**	**0.56**	**0.5**	**0.4**	**0.43**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	**2.9K**	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	**0.2**		1U	**0.2**	**0.2**	**0.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**603**		**642**	**641**	**627**	**682**	**656**	**621**	**599**	**614**	**582**	**579**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**17.7**	**17.8**	**18.8**	**19.8**	**21**	**22.5**	**20.6**	**22.2**	**24.8**	**24.9**	**23**	**21.5**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**60.5**		**58.9**	**59.5**	**167**	**76.8**	**61.6**	**61.2**	**79.1**	**67.6**	**56.2**	**65.1**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**1880**		**1810**	**1980**	**1810**	**1520**	**1550**	**1790**	**1890**	**1840**	**2240**	**1510**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1**		**1**	**1.8**	**1.3**	**1.3**	**1.6**	0.5U	**3**	**3.9**	**3.5**	**3.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						**19**	**20**	**24**	**24**	**28**	**27**	**28**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**26**		**18**	**17**	**18**	**19**	**20**	**24**	**22**	**30**	**27**	**29**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 34. Interflow Aquifer - RI Dataset for COCs (MW-20c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/6/2008	4/4/2008	7/16/2008	10/2/2008	1/15/2009	3/24/2009	6/17/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010	9/22/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/l	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**4.8**		**6.1**	**5.9**	**5.7**	**5.9**	**5.6**	**5.6**	**5.5**	**6**	**5.8**	**6.2**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.75**	**0.909**	**1.14**	**1.19**	**1.15**	**1.17**	**0.938**	**1.17**	**1.17**	**1.2**	**1.18**	**1.19**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**26.3**		**28**	**30**	**28.4**	**30.1**	**31.3**	**31**	**34.6**	**33.6**	**32.2**	**35.1**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**240**		**246**	**216**	**262**	**251**	**248**	**250**	**247**	**236**	**264**	**248**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2**		**1.3**	**1.2**	**1.2**	**1.3**	**1.2**	**1.3**	**1.3**	**1.3**	**1.3**	**1.4**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	80		50U	50U	50U	50U	50U	50	50U	50U	50U	60
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	**1**	1U	1U	**1**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**4**		1U	1U	1U	1U	1U	**2**	1U	1U	**1**	**1**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 35. Interflow Aquifer - RI Dataset for COCs (MW-21c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/6/2008	4/3/2008	7/15/2008	1/15/2009	3/24/2009	6/17/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010	9/22/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U	1U				**1.1**			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U								
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U								
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**22.1**		**24**	**23.6**	**23.6**	**22.7**	**22.6**	**22.1**	**24.4**	**22.9**	**46.6**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**74.6**	**87.9**	**97.5**	**64.4**	**84.9**	**88.8**	**88**	**91.9**	**90.4**	**93.9**	**95.6**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**65.8**		**76**	**76.5**	**19.4**	**64.4**	**66.3**	**68.1**	**65.7**	**61.7**	**73.9**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**788**		**857**	**815**	**720**	**907**	**825**	**717**	**708**	**857**	**783**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	1U		**1.1**	**1.1**	**0.7**	**0.7**	0.5U	**0.7**	**0.5**	**0.8**	**0.8**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc					50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	**140**	50U	80	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc					**180**	**151**	**140**	**153**	**139**	**158**	**137**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**169**		**171**	**159**	**180**	**153**	**136**	**160**	**156**	**149**	**131**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 36. Interflow Aquifer - RI Dataset for COCs (MW-22c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/2/2008	7/14/2008	10/1/2008	3/23/2009	10/14/2009	12/16/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**4**		**4.4**	**4.5**	**3.9**	**3.3**	**3.2**	**2.8**	**3.1**	**3.3**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	**0.6**	**0.58**	**0.71**	**0.6**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**0.5**		**0.5**	**0.6**	**0.5**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**4.4**	**4.5**	**5.1**	**5.4**	**3.8**	**3.9**	**3.6**	**3.3**	**3.5**	**3.6**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**1.5**	**1.5**	**1.7**	**1.6**	**1.5**	**1.3**	**1.2**	**1**	**1**	**1**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		2.5U	2.5U	2.5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		3U	3U	2.5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	**1**		**1.1**	**1.1**	**1.1**	**1**	**1**	**1**	**1.1**	**1.1**
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		1U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	Other	6	FED			**6.3B**				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U							
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U							
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**110**		**120**	**148**	**135**	**164**	**137**	**155**	**170**	**189**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**8.41**	**8.41**	**7.58**	**9.32**	**9.73**	**10.4**	**10.4**	**11.4**	**12**	**11.8**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**43.3**		**40**	**42**	**31.6**	**28.1**	**48.5**	**39.5**	**47.9**	**44.6**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**517**		**608**	**626**	**526**	**610**	**616**	**641**	**870**	**691**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1**		**1.8**	**1.7**	**1**	**2.3**	**1.8**	**2.7**	**3.2**	**3.5**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc					50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	**160**	**400**	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc					1U	1U	**2**	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	**2**	1U	**25**	**51**	1U	1U	**2**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 37. Interflow Aquifer - RI Dataset for COCs (MW-45c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	9/24/2009	12/29/2009	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U	**0.2**	**0.2**	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	**0.031**	**0.038**	**0.035**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.021
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	**0.023**	**0.026**	**0.027**
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	1U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**67.4**	**68**	**71.7**	**76.7**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**2.78**	**2.99**	**3.12**	**3.29**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**37**	**40.2**	**41.3**	**45.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**314**	**284**	**339**	**304**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.2**	**1**	**0.8**	**1.4**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**100**	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**21**	**11**	**6**	**4**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**11**	**4**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 38. Interflow Aquifer - RI Dataset for COCs (MW-47c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	9/23/2009	1/12/2010	6/16/2010	9/15/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	Other	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**7.6**	**7.4**	**7.3**	**7.6**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**1.54**	**2.13**	**1.67**	**1.65**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**33.5**	**34**	**30.8**	**35**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**253**	**236**	**235**	**238**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**1.7**	**1.6**	**1.6**	**1.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**21**	**36**	**29**	**18**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**31**	**19**

Bold = Detection

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#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 39. Interflow Aquifer - RI Dataset for COCs (MW-50c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	12/28/2009	2/16/2010	6/17/2010	9/14/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.02U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.02U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.02U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				**2.7B**
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**6**	**5.8**	**5.8**	**6.1**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	0.01U	0.01U	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**50.8**	**40.9**	**38.7**	**41**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**228**	**212**	**218**	**211**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.6**	1U	**0.5**	**0.4**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	**330**	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**280**	**130**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**45**	**44**	**41**	**35**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**48**	**41**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 40. Interflow Aquifer - RI Dataset for COCs (MW-54c)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	12/29/2009	2/17/2010	6/17/2010	9/16/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.02U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.02U	0.02U	0.02U	0.02U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.02U	**0.027**	0.02U	0.02U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	5U	5U	5U	5U
Methylene Chloride	ug/l	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**9.6**	**6.2**	**6.3**	**6.4**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.02U	0.01U	**0.028**	**0.065**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**63.5**	**39.6**	**39.1**	**41.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**382**	**216**	**208**	**228**
Arsenic, Dissolved	ug/L	Metals	Metals	0.058	MethB carc	**3.1**	**1**	**0.9**	**0.9**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc	**2200**	50U	50U	330
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc			**1100**	**16100**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc	**57**	**52**	**44**	**36**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc			**53**	**269**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 41. Below the Interflow - RI Dataset for COCs (MW-16d)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/1/2008	7/15/2008	10/1/2008	3/25/2009	6/16/2009	10/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	2.5U	5U	**8**	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	**0.7**	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U							
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U							
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U							
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**37.4**		**21**	**35.6**	**33.4**	**26.4**	**29.8**	**33.5**	**26.5**	**25.5**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	0.01U	0.01U	0.01U	0.01U	0.01U	0.012	0.01U	0.01U	0.011	0.01U
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**52.4**		**58**	**63**	**48.8**	**61.8**	**62.5**	**54.8**	**48.2**	**60.4**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**356**		**267**	**286**	**346**	**316**	**334**	**296**	**315**	**298**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2**		**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.2**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc					**60**	**100**	**100**	**120**	**60**	**60**
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**1850**		**400**	**400**	**2620**	**610**	**290**	**570**	**450**	**790**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc					**91**	**88**	**90**	**86**	**82**	**67**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**166**		**69**	**77**	**223**	**110**	**106**	**137**	**114**	**87**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 42. Frenchman Springs - RI Dataset for COCs (MW-28d)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	4/1/2008	11/21/2008	3/25/2009	9/14/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	**0.4**	**0.4**	**0.3**	**0.3**
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U	0.2U	**0.4**	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	**0.3**	**0.4**	**0.3**	**0.3**
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	**1.7**	**2.1**	**1.5**	**1.2**
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	**1.8**	**2.4**	**1.2**	**1.3**
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	**0.3**	**0.4**	**0.32**	**0.34**
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	**0.028**	0.02U	0.02U	0.02U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U	2.5U	2.5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U	2.5U	2.5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U	2.5U	2.5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U	3U	2.5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED				1U
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc				1U
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc				1U
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**93**	**100**	**103**	**126**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**0.585**	**1.86**	**1.27**	**1.44**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**56**	**49.9**	**45**	**59.6**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**364**	**429**	**394**	**433**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**0.6**		0.5U	0.5U
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc			50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**70**	**90**	**650**	**110**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc			**15**	**18**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**28**	**16**	**22**	**20**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 43. Outwash Aquifer - RI Dataset for COCs (MW-1a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/14/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/15/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	VOC	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	VOC	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	VOC	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	VOC	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	VOC	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	VOC	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	VOC	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	VOC	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	VOC	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	VOC	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	VOC	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	VOC	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	VOC	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	VOC	Ethenes	0.081	MethB carc	0.2U	**0.12**	**0.087**	0.2U	0.2U	**0.088**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	VOC	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	VOC	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	VOC	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	VOC	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	VOC	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	VOC	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	**5.3**	5U	5U	5U	5U
Methylene Chloride	ug/L	VOC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	**0.5**
1,2,4-Trimethylbenzene	ug/L	VOC	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	VOC	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	VOC	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	VOC	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	VOC	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**15.2**		**12.1**	**11.6**	**14.8**	**18.7**	**13**	**8.6**	**13.4**	**18.6**	**13.7**	**11.6**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**4.71**	**4.77**	**3.3**	**2.84**	**4.25**	**5.07**	**3.72**	**1.1**	**4**	**4.4**	**3.71**	**2.12**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**50.7**		**39.5**	**41**	**45.5**	**49.5**	**40.5**	**36.1**	**46.7**	**43**	**43.2**	**40.3**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**352**		**326**	**302**	**379**	**394**	**328**	**534**	**338**	**385**	**362**	**325**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**3**		**3.7**	**4.8**	**2.7**	**2.9**	**3.9**	**5.8**	**3**	**2.9**	**3.3**	**6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	1U	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	**2**	1U	1U	1U	1U

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 44. Outwash Aquifer - RI Dataset for COCs (MW-6a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/14/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	0.2U	**0.10**	**0.11**	0.2U	0.2U	**0.096**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	**6.2**	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			**3.6B**		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**16.8**		**22.1**	**16.7**	**16.4**	**18.5**	**12.8**	**18.7**	**17.5**	**18.1**	**18.5**	**21.1**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**5.54**	**5.49**	**5.34**	**5.4**	**4.82**	**5.12**	**1.44**	**3.61**	**3.88**	**4.64**	**4.24**	**4.47**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**50**		**49.6**	**47.7**	**48.8**	**39**	**30.7**	**42.2**	**48**	**41.5**	**35.9**	**49.7**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**337**		**328**	**338**	**376**	**350**	**214**	**362**	**371**	**357**	**339**	**354**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	5U		**4.3**	**4.3**	**3.7**	**4.1**	**5.2**	**3.9**	**3.8**	**4.3**	**4.5**	**4.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	**1**	1U	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	**1**	1U	1U	1U	1U

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 45. Outwash Aquifer - RI Dataset for COCs (MW-10a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/15/2008	10/1/2008	1/14/2009	3/24/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.2**	**0.19**	**0.21**	0.2U	**0.4**	**0.22**	0.2U	0.2U	**0.2**	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.2U	**0.04**	0.038	0.2U	0.2U	**0.045**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	**2.8K**	5U	16	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**16.1**		**18**	**17.1**	**19.5**	**19.4**	**19.9**	**16.7**	**21**	**23.5**	**22.7**	**26.9**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**4.53**	**4.92**	**4.86**	**4.53**	**5.04**	**4.93**	**5**	**4.08**	**4.9**	**4.85**	**4.77**	**5.09**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**46.4**		**42**	**38.9**	**36.1**	**43.2**	**47.6**	**37.7**	**39.1**	**40.1**	**35.2**	**49**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**338**		**352**	**286**	**374**	**369**	**360**	**377**	**385**	**396**	**385**	**381**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4**		**4.9**	**5.3**	**4.9**	**5**	**5.1**	**5.5**	**4.9**	**5**	**5.2**	**5.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	1U	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 46. Outwash Aquifer - RI Dataset for COCs (MW-11a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/14/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.3**	**0.28**	**0.31**	**0.3**	**0.3**	**0.22**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	**6**	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**35.7**		**39.2**	**38.7**	**44.7**	**43.9**	**41.8**	**39.7**	**43.3**	**43.7**	**44.4**	**44.2**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**6.02**	**6.35**	**6.66**	**6.99**	**5.95**	**6.01**	**5.58**	**6.02**	**5.94**	**5.83**	**5.85**	**5.81**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**48.1**		**46.9**	**39.4**	**49.4**	**46.6**	**49**	**46.8**	**38.2**	**40**	**35.9**	**45.7**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**366**		**386**	**362**	**395**	**395**	**379**	**377**	**377**	**369**	**407**	**395**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**7**		**7.5**	**7.6**	**7.7**	**7.8**	**8.1**	**7.9**	**8**	**8.6**	**8.6**	**9.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	1U	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 47. Outwash Aquifer - RI Dataset for COCs (MW-14a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/6/2008	4/3/2008	7/15/2008	10/1/2008	1/14/2009	3/24/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.2U	**0.051**	**0.066**	0.2U	0.2U	**0.059**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	0.2U	**0.14**	**0.2**	0.2U	0.2U	**0.16**	**0.2**	**0.2**	0.2U	0.2U	0.2U	**0.2**
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.2U	**0.098**	**0.15**	0.2U	0.2U	**0.12**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	**2.7K**	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U		2U	0.5U	0.5U	**0.5**	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	Other	6	FED			1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**14.3**		**15**	**14.2**	**13.5**	**15.7**	**14.7**	**13.7**	**13.5**	**14.8**	**14.5**	**14.9**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**3.87**	**3.88**	**4.38**	**3.97**	**3.98**	**4.49**	**4.4**	**4.58**	**4.01**	**4.39**	**4.25**	**4.03**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**61.2**		**57**	**60.1**	**61.5**	**49.5**	**48.8**	**57.9**	**60.9**	**50.7**	**43.4**	**50.5**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**338**		**346**	**312**	**362**	**362**	**365**	**342**	**354**	**395**	**397**	**466**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**3**		**4.4**	**4.9**	**3.7**	**3.2**	**3.5**	**3.7**	**3.2**	**3.5**	**3.5**	**3.2**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		**50**	50U	50U	**190**	**760**	50U	50U	**150**	**1030**	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	1U	1U	**1**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		**1**	1U	1U	**6**	**23**	1U	1U	**4**	**41**	**2**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 48. Outwash Aquifer - RI Dataset for COCs (MW-17a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	4/3/2008	7/15/2008	10/2/2008	1/15/2009	3/24/2009	6/17/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010	9/22/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	**0.3**	1U	0.2U	**0.3**	**0.2**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U	**0.024**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.031**	**0.052**	0.2U	0.2U	**0.067**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.02U	**0.022**	0.2U	0.2U	**0.038**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U	5U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U	2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED		1U		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc		1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc		1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**14**	**17**	**19.1**	**31.4**	**27**	**20**	**23.7**	**25.3**	**21.6**	**20.6**	**29.3**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**2.06**	**2.06**	**5.57**	**2.54**	**3.49**	**3.22**	**3.97**	**5.8**	**3.32**	**4.76**	**3.68**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**31**	**30**	**38.3**	**39.7**	**39.8**	**38.4**	**38.4**	**41**	**39.2**	**32.8**	**37.4**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**306**	**331**	**335**	**398**	**362**	**344**	**356**	**329**	**293**	**362**	**327**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.6**	**4.8**	**4.8**	**4.5**	**4.9**	**4.5**	**4.4**	**4.2**	**4.6**	**4.6**	**4.6**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc					50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U	50U	50U	50U	50U	50U	50U	**50**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc					1U	1U	1U	1U	1U	**2**	**1**
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U	1U	1U	1U	**2**	1U	1U	**2**	**1**	**3**	**2**

Bold = Detection
#U = Not detected (U) at or above the laboratory reporting limit (#)
#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 49. Outwash Aquifer - RI Dataset for COCs (MW-18a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	5/22/2008	7/15/2008	10/2/2008	1/15/2009	3/24/2009	6/16/2009	10/15/2009	12/16/2009	3/25/2010	6/30/2010	9/22/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	**0.7**	1U	**0.6**	**0.6**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U	**0.094**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.026**	**0.035**	0.2U	0.2U	**0.036**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	**0.031**	**0.042**	0.2U	0.2U	**0.037**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.029	MethB carc	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U	5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U	5U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U	2U	0.5U	0.5U	0.5U	0.5U	1	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Methyl tert-Butyl Ether																
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED		**23**		1U				**1.7**			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc		1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc		1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**37**	**36**	**31.6**	**42.5**	**46.6**	**37.2**	**35.6**	**36.8**	**47.1**	**42.9**	**43.1**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**1.71**	**1.34**	**1.42**	**3.94**	**2.87**	**1.74**	**1.35**	**1.45**	**1.53**	**1.76**	**1.67**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**45**	**43**	**44.9**	**69.7**	**48**	**43.2**	**48.1**	**48.4**	**52.2**	**47**	**59.1**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**405**	**350**	**330**	**446**	**389**	**355**	**374**	**329**	**342**	**375**	**369**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.7**	**5.1**	**5.2**	**4.6**	**4.9**	**5.3**	**4.6**	**4.3**	**4.4**	**4.7**	**4.7**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc					50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U	50U	50U	50U	50U	50U	50U	50U	50U	**70**	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc					**4**	1U	1U	1U	**2**	**5**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U	1U	1U	1U	**3**	1U	1U	1U	**2**	**7**	**1**

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 50. Outwash Aquifer - RI Dataset for COCs (MW-23a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	3/5/2008	4/3/2008	7/15/2008	10/1/2008	1/14/2009	3/23/2009	6/16/2009	10/14/2009	12/15/2009	3/24/2010	6/29/2010	9/21/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U		1U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U		0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	0.2U	**0.09**	**0.12**	0.2U	0.2U	**0.097**	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.0608	MethB carc	0.2U	0.02U	0.02U	0.2U	0.2U	0.02U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U		5U	2.5U	2.5U	2.5U	5U	5U	5U	5U	5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U		5U	3U	3U	2.5U	5U	5U	5U	5U	5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U		2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U		5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U		1U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED			**9.5B**		1U				1U			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc			1U									
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc			1U									
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**13.8**		**15**	**17.1**	**17**	**15.9**	**15.6**	**19.6**	**19.9**	**17.9**	**17.7**	**30.2**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**4.47**	**4.74**	**5.05**	**5.28**	**4.83**	**4.6**	**4.35**	**4.84**	**4.98**	**4.57**	**4.34**	**4.45**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**46.2**		**43**	**45**	**34.7**	**44.2**	**46.4**	**46.9**	**42.1**	**39.6**	**36.6**	**46.4**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**325**		**364**	**343**	**387**	**368**	**355**	**386**	**352**	**377**	**389**	**380**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**3**		**3.8**	**3.9**	**3.6**	**3.8**	**4.1**	**3.9**	**3.8**	**3.9**	**4.1**	**4.2**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc						50U	50U	50U	50U	50U	50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U		50U	50U	50U	50U	50U	50U	50U	50U	50U	50U
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc						1U	1U	1U	1U	1U	1U	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	1U		1U	1U	1U	1U	1U	1U	1U	**1**	1U	1U

Bold = Detection
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#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 51. Outwash Aquifer - RI Dataset for COCs (MW-24a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	4/1/2008	7/14/2008	11/20/2008	3/23/2009
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U	1U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U	1U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	**0.4**	1U	**1.2**	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U	1U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U	1U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.32**	**0.23**	**0.18**	**0.22**
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.02U	0.02U	**0.071**	0.02U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.0608	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U	5U	2.5U	2.5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U	5U	2.5U	2.5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U	5U	2.5U	2.5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U	5U	3U	2.5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U	2U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U	1U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED		1U		
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc		1U		
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc		1U		
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**43**	**25.9**	**27.2**	**45.7**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL		**4.7**	**5.4**	**5.8**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**43**	**47.4**	**38.3**	**47**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**394**	**397**	**388**	**397**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.8**	**3.4**		**4.7**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc				50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**160**	**90**	**140**	**230**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc				1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**14**	**10**	**7**	**5**

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#K = Reported result with unknown bias
#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 52. Outwash Aquifer - RI Dataset for COCs (MW-25a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	4/2/2008	7/15/2008	11/21/2008	3/24/2009
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U	1U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U	1U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U	1U	**1.3**	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U	1U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U	1U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.14**	**0.2**	**0.2**	**0.13**
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	**0.029**	**0.043**	**0.077**	**0.026**
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.0608	MethB carc	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U	5U	2.5U	2.5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U	5U	2.5U	2.5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U	5U	2.5U	2.5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U	5U	3U	2.5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U	2U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U	1U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED		1U		
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc		1U		
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc		1U		
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**17**	**21**	**16.3**	**21.3**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL		**5.27**	**5.06**	**4.72**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**43**	**43**	**36.3**	**43.2**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**368**	**379**	**357**	**381**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**4.2**	**4**		**4.3**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc				50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	50U	**370**	**480**	**1000**
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc				1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**6**	**9**	**6**	**15**

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#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)
#M = Estimated value for analyte detected and confirmed but with low spectral match parameters
#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample
Shaded = Exceedance of RI screening Level
Blank = Not Sampled
NA = No Screening Criteria Available
1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).

Table 53. Outwash Aquifer - RI Dataset for COCs (MW-26a)

Chemical of Concern (COC)	Units	Group	Group Classes	RI Screening Level	Screening Level Source	4/2/2008	7/16/2008	11/20/2008	3/25/2009	1/13/2010
1,2-Dichloropropane	ug/L	12-DCP	12-DCP	5	FED	0.2U	1U	0.2U	0.2U	0.2U
Benzene	ug/L	BTEX	BTEX	0.8	MethB carc	0.2U	1U	0.2U	0.2U	0.2U
Ethylbenzene	ug/L	BTEX	BTEX	700	FED	0.2U	1U	0.2U	0.2U	0.2U
o-Xylene	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U
Toluene	ug/L	BTEX	BTEX	640	MethB non-carc.	0.2U	1U	**1.2**	0.2U	0.2U
Xylene Isomers, M+P	ug/L	BTEX	BTEX	1600	MethB non-carc.	0.4U	1U	0.4U	0.4U	0.4U
1,1,1-Trichloroethane	ug/L	Ethane	Ethane	200	FED	0.2U	1U	0.2U	0.2U	0.2U
1,1,2-Trichloroethane	ug/L	Ethane	Ethane	0.77	MethB carc	0.2U	1U	0.2U	0.2U	0.2U
1,1-Dichloroethane	ug/L	Ethane	Ethane	1600	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U
1,2-Dichloroethane (EDC)	ug/L	Ethane	Ethane	0.48	MethB carc	0.2U	1U	0.2U	0.2U	0.2U
Chloroethane	ug/L	Ethane	Ethane	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
1,1-Dichloroethene	ug/L	Ethenes	Ethenes	7	FED	0.02U	0.02U	0.02U	0.02U	0.02U
cis-1,2-Dichloroethene	ug/L	Ethenes	Ethenes	16	MethB non-carc.	0.2U	0.02U	0.2U	0.2U	0.02U
Tetrachloroethene (PCE)	ug/L	Ethenes	Ethenes	0.081	MethB carc	**0.12**	**0.12**	**0.1**	**0.086**	**0.11**
Trichloroethene (TCE)	ug/L	Ethenes	Ethenes	0.49	MethB carc	0.02U	0.02U	0.02U	0.02U	0.02U
Vinyl Chloride	ug/L	Ethenes	Ethenes	0.0608	MethB carc	0.02U	0.02U	0.02U	0.02U	0.02U
2-Butanone	ug/L	Ketone	Ketone	4800	MethB non-carc.	2.5U	5U	2.5U	2.5U	5U
2-Hexanone	ug/L	Ketone	Ketone	NA	NA	2.5U	5U	2.5U	2.5U	5U
4-Methyl-2-Pentanone (MIBK)	ug/L	Ketone	Ketone	640	MethB non-carc.	2.5U	5U	2.5U	2.5U	5U
Acetone	ug/L	Ketone	Ketone	7200	MethB non-carc.	3U	5U	3U	2.5U	5U
Methylene Chloride	ug/L	MC	MC	5	FED	0.5U	2U	0.5U	0.5U	0.5U
1,2,4-Trimethylbenzene	ug/L	TMB	TMB	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
1,3,5-Trimethylbenzene	ug/L	TMB	TMB	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U
1,3-Dichlorobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
4-Isopropyltoluene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
Bromobenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
Chloroform	ug/L	Other	Other	80	MethB non-carc.	0.2U	1U	0.2U	0.2U	0.2U
Chloromethane	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.5U
Naphthalene	ug/L	Other	Other	160	MethB non-carc.	0.5U	5U	0.5U	0.5U	0.5U
n-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
sec-Butylbenzene	ug/L	Other	Other	NA	NA	0.2U	1U	0.2U	0.2U	0.2U
Bis(2-ethylhexyl) Phthalate	ug/L	SVOC	SVOC	6	FED		**5.3**			
2-Methylphenol	ug/L	SVOC	SVOC	400	MethB non-carc		1U			
4-Methylphenol	ug/L	SVOC	SVOC	40	MethB non-carc		1U			
Chloride	mg/L	Inorganic	Inorganic	250	GWCL	**12**	**13**	**10.3**	**17.3**	**26.7**
Nitrate as Nitrogen	mg/L	Inorganic	Inorganic	10	GWCL	**4.17**	**4.06**	**3.69**	**4.85**	**4.49**
Sulfate	mg/L	Inorganic	Inorganic	250	GWCL	**41**	**38**	**35.6**	**36.3**	**53.3**
Total Dissolved Solids	mg/L	Inorganic	Inorganic	500	GWCL	**370**	**355**	**347**	**395**	**423**
Arsenic, Dissolved[1]	ug/L	Metals	Metals	0.058	MethB carc	**2.5**	**2.5**		**2.1**	**2.4**
Iron, Dissolved	ug/L	Metals	Metals	11200	MethB non-carc				50U	50U
Iron, Total	ug/L	Metals	Metals	11200	MethB non-carc	**50**	**150**	**270**	**90**	
Manganese, Dissolved	ug/L	Metals	Metals	2200	MethB non-carc				**2**	1U
Manganese, Total	ug/L	Metals	Metals	2200	MethB non-carc	**1**	**5**	**6**	**3**	

Bold = Detection

#U = Not detected (U) at or above the laboratory reporting limit (#)

#K = Reported result with unknown bias

#Q = Detected analye with an initial or continuing calibration that does not met established acceptance criteria (questionable result)

#M = Estimated value for analyte detected and confirmed but with low spectral match parameters

#B = Analyte detected in Method Blank at concentration greater than 1/2 lab reporting limit or 5% regulatory limit or 5% of concentration in sample

Shaded = Exceedance of RI screening Level

Blank = Not Sampled

NA = No Screening Criteria Available

1. Site background concentration for dissolved arsenic is 3.4 ug/L (above the MTCA Method-B carcinogenic value).