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November 28, 2007

Ms. Shannon Harbour, P.E.
Nevada Division of Environmental Protection
2030 East Flamingo Road, Suite 230
Las Vegas, Nevada 89119-0818

**Subject: Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada
July – September 2007**

Dear Ms. Harbour:

Enclosed is the *Quarterly Performance Report for Remediation Systems* at the Tronox LLC Henderson Facility for the period July through September 2007. The Nevada Division of Environmental Protection's October 5, 2007 letter and Tronox's annotated responses are included as an appendix in the report.

Please contact me at (702) 651-2234 if you have any comments or questions concerning this correspondence.

Sincerely,

A handwritten signature in blue ink that reads "SM Crowley".

Susan M. Crowley
Staff Environmental Specialist

Overnight Mail

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Prepared for:
Tronox LLC
Henderson, Nevada

Quarterly Performance Report for Remediation Systems Tronox LLC, Henderson, Nevada July – September 2007

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November 2007
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Henderson, Nevada

**Quarterly Performance Report for
Remediation Systems
Tronox LLC, Henderson, Nevada
July – September 2007**

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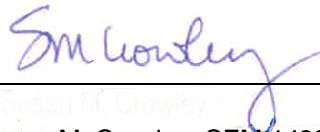
Prepared for:
Tronox LLC
Henderson, Nevada

**Quarterly Performance Report
for Remediation Systems
Tronox LLC
Henderson, Nevada
July – September 2007**

Responsible CEM for this project

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



Susan M. Crowley, CEM 1428 exp. date 3/8/09
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1.0 Introduction

In accordance with the Administrative Order on Consent (AOC) for remediation of perchlorate impacted groundwater in the Henderson area, October 8, 2001 (as amended), Tronox LLC submits this quarterly performance report to the Nevada Division of Environmental Protection (NDEP). This report is limited and contains a description of significant issues / changes which occurred during the previous quarter. A more detailed evaluation and presentation of data will be contained in the Annual Performance Report for Remediation Systems. This annual report will be prepared mid -2008.

This report covers the third quarter of 2007 (July through September). This performance report summarizes performance data for the recovery systems (consisting of the Interceptor well field, the Athens Road well field, the Seep well field and the Seep area surface flow capture sump) and evaluates the effectiveness of the groundwater recovery system installed to carry out the groundwater recovery program. In addition, information is provided on the performance of the treatment technologies used for perchlorate removal from the water collected. The discussion of the system in this report will be limited to variances from historic normal operating conditions.

For this report, Appendix A contains the groundwater elevation and analytical data from the sampled on- and off-site wells. Appendix B contains groundwater analytical data and field sheets (on the report CD). Appendix C contains correspondence with NDEP and the Tronox Response to October 5, 2007 NDEP Comments on the Annual Remedial Performance Report Dated August 29, 2007. Appendix D contains the data review memoranda. Data from the EQulS database in an Access® compatible format is provided on the report CD.

The locations of the components of the perchlorate recovery system are shown on Figure 1. The performance of each component will be discussed separately starting with the Interceptor well field and proceeding to the successively northward components. The following data are for the perchlorate removed during the third quarter 2007.

- The total was about 145,303 pounds of perchlorate (1,579 pounds per day)
- On-site Well Field = 80,590 pounds of perchlorate (876 pounds per day)
- Athens Road Well Field = 59,281 pounds of perchlorate (644 pounds per day)
- Seep Area Well Field = 5,432 pounds of perchlorate (59 pounds per day)
- Seep surface flow capture sump = 0 pounds of perchlorate (0 pounds per day).

Figure 2 shows the 2007 monthly perchlorate recovery totals and the relative significance of each of the four components, whereas Table 4 shows the average pounds of perchlorate per day removed by each component. The September 2007 recovery shown on Figure 2 is an estimate that will be recalculated next month.

2.0 Interceptor Well Field

The three components of this system, the interceptor wells, the barrier wall and the groundwater recharge trenches are shown on Figure 1. The purpose of the barrier wall is to intercept downgradient movement of perchlorate-containing groundwater. The purpose of the Interceptor well field is to extract the groundwater upgradient of the barrier wall. In September 2007 the interceptor well field extracted about 59.2 gpm of groundwater as shown on Table 1. Tronox is currently evaluating possible solutions to improve extraction rates. The flow was lower because there were problems with two pumps.

In the vicinity of the downgradient recharge trenches single-digit perchlorate concentrations as low as 9.3 mg/L were detected in August, little changed since May 2006. Appendix A contains perchlorate concentration data and groundwater elevations for wells in this area as well as other information.

On the west end of the barrier wall interceptor well I-B has decreased from 3000 mg/L in May 2006 to 1150 mg/L in August 2007 whereas monitor well M-69, directly downgradient from I-B, decreased from 921 mg/L to 464 mg/L during the same period. Well M-79, 200 feet to the north of M-69 has increased in both perchlorate and total chromium this past quarter. The perchlorate concentration has increased to 134 mg/l – up from 14.7 in May 2007 whereas the total chromium concentration has increased to 0.50 mg/L – up from 0.044 in May 2007. These increases are likely the result of the dissipation of the dead zone mounding effect by recharge water in the recharge trenches and the movement of higher concentrations downgradient from some of the dead zone wells. To test this hypothesis and to better understand and control the groundwater and contaminant movement in this area Tronox is proposing to install one additional recovery well and four monitor wells. On the east end of the well field, the easternmost three wells are pumping a total of 21.0 gpm as of September 30, 2007 in an effort to pump down this area to stop or minimize groundwater movement in the vicinity of the east side of the barrier wall. As presented in the Capture Evaluation Work Plan (ENSR August 2007), Tronox is proposing to install four monitor wells to improve monitoring in this area.

Figure 3, the Interceptor Well Field Perchlorate Section Graph, shows the perchlorate concentrations for the Interceptor wells over the last five quarters. The most recent data from August 2007 show that the perchlorate concentrations in many of the Interceptor wells are higher than in May 2007 but within the 2006-2007 range. Exceptions are wells IR, I-L, I-Q, I-T, I-V and I-I which are at the high end of the 2006-2007 range shown on the figure. This increase is possibly due to non homogeneity within the plume. Note that well I-H continues to contain lower concentrations first seen in May 2007 (923 mg/L) whereas well I-T returned to a higher concentration (1920 mg/L). Figure 4, the Interceptor Well Field Perchlorate Trend Graph, shows that many wells exhibit an overall gradual decrease of perchlorate concentrations (with local fluctuations).

The monthly average perchlorate concentration collected at the well field has been generally decreasing, with short-lived minor reversals, from a high of about 1,900 mg/L in 2002 to about 1,175 mg/L in September 2007 (see Figure 5). The mass removed has decreased slightly due to a decrease in pumping rate in 3 of the 25 on-site wells. This reduced pumping rate is expected to recover as the effected wells are refurbished by early 2008. Figure 5 shows that the monthly average perchlorate removed from the environment is estimated to be 25,404 pounds in September 2007. Data from monitor well M-100, 700 feet north of the recharge trenches, demonstrate that the recharge trenches are effective. As shown in Figure 6, the perchlorate concentration in this well is currently about twenty-three times lower (at 37.5 mg/L) than January 2002 concentrations (at 1000 mg/L) and for the sixth quarter in a row is below 100 mg/L. The figure also shows that since about February 2007 the water elevation in M-100 has been decreasing due to fouling of the western portion of the recharge trenches and subsequent lack of recharge groundwater reaching the well. Tronox is working on approaches to increase recharge flows to include either refurbishing the current trench or construction of a new trench immediately north of the current trench.

The converging lines of evidence that demonstrate hydraulic and contaminant capture at the Interceptor well field are downgradient concentrations decreasing over time and flow budget. The expansion of the less than 100 mg/L perchlorate zone is occurring in an area that has historically contained greater than 1000 mg/L. This is a 10:1 (90 percent) decrease. If the infiltration of about 60 gpm of Lake Mead water, containing less than 6 ug/L perchlorate since January 2006, in the recharge trenches is totally responsible for this 10:1 decrease then no more than 6 gpm (60 gpm X 10 percent remaining) can be leaking around the barrier wall to keep the downgradient perchlorate plume at about 100 mg/L. The Interceptor well field was pumping 59.2 gpm in September 2007 (Table 1). The flow budget at the well field is therefore no more than then 65.2 gpm (59.2 + 6) which demonstrates almost a 91 percent capture efficiency $[(65.2-6)/65.2=0.908]$. Tronox has undertaken an effort to better evaluate capture are presented in the Revised Work Plan to Evaluate Effective Capture (ENSR August 2007).

As indicated earlier in this section, Tronox is evaluating options for improving the water flow accepted by the recharge trench as well as improving the efficiency of several on-site interceptor wells' efficiency. It is expected that either the existing trench will be refurbished or a replacement trench will be constructed immediately north of the current trench. This work is expected to be completed in 2008. In addition, the pumping rate in three wells should be improved by refurbishing by mid-2008.

3.0 Athens Road Well Field and Piezometer Wells

Figure 1 shows the location of the Athens Road well field. Table 2 shows that as of September 11, 2007, the recovery well discharge rate from the pumping was 251.2 gpm. Figures 7, 7A, 8, 9, and 10 present perchlorate concentration data and mass removed from the wells in this area.

Perchlorate concentrations since October 31, 2001 of the ART wells are shown on Figure 7 whereas concentrations since January 2007 are shown on Figure 7A. This graph shows that since January 2003 the perchlorate concentrations have stabilized in most wells with only minor variations and that after September 2006 perchlorate concentrations in all wells began to decline. Figure 7A, an expanded view of the 2007 portion of Figure 7, shows that since early January 2007, the four wells with the highest perchlorate concentrations - ART-3, ART-4, ART-8 and ART-9 - track together and exhibit decreasing concentrations. Groundwater from well ART-9, currently pumping at about 42 gpm, contained 287 mg/L of perchlorate in September 2007, down from 385 mg/L at the commencement of pumping in September 2006. The concentrations observed are probably due to non homogeneity within the plume.

Figure 8, a west-east section graph through the well field, shows perchlorate concentrations across the well field in the last five quarters. For the August 2007 data set, ART-9 at 314 mg/L, contained the highest concentration of perchlorate. In September 2007 only ART-3 contained more than 300 mg/L perchlorate (332 mg/L). Note that the perchlorate concentrations on the western (PC-55 and ART-1) and the eastern sides of the well field (PC-122) continue to remain very low (below 10 mg/l). The monthly average perchlorate concentration in ART-8, as shown on Figure 9 currently containing 241 mg/L, continues to be at the low end of its range. This graph also shows that, since September 2006, the time that ART-9 came on-line, the ART-8 concentration and the perchlorate removed graphs have been diverging although the graphs still have similar trends. This is due to the decreasing amount of perchlorate loading at the well field. The monthly average perchlorate mass removed from the well field is estimated to be 19,260 pounds in September.

The August 2007 Flow budget calculations at Sunset Road, 1,375 feet upgradient of the well field estimated groundwater flows from 194 to 420 gpm and perchlorate loading from 559 to 728 lbs/day. The September 2007 perchlorate capture statistics show that from the 255.2 gpm pumping rate (Table 2) the well field was capturing an estimated 642 pounds of perchlorate per day (Table 4). The decrease in perchlorate captured is attributed to the decrease in concentrations being pumped from the ART wells. These mass flux flow budget data (using the Sunset average of 644 lbs/day vs. 642 lbs/day recovered) show 99.7 percent capture efficiency. Other converging lines of evidence that the Athens Road well field is capturing the available perchlorate mass flux are the recent numerical evaluation of greater than 99 percent capture using Modflow particle tracking (McGinley and Associates, 2007).

Perchlorate concentrations in the Sunset Road wells were noted to be up to 112 mg/L higher in August than in May (417 vs. 305 mg/L in PC-127, for example) and the highest Sunset Road perchlorate concentration was 472 mg/L in well PC-130. This means that concentrations in the ART wells will in all likelihood increase in coming months due to this higher perchlorate-containing groundwater pulse approaching the well field.

In August a total chromium concentration of 0.20 mg/L was found in ART-1, 65 feet downgradient of well PC-55 which remained non-detect (<0.01 mg/L). Total chromium detected in ART-1 may be a result of a sampling error. During future sampling events, care will be taken to obtain a representative groundwater sample from ART-1. The closest chromium detection is in ART-2, 75 feet to the east which contained 0.021 mg/L chromium in August whereas data points to the west are non-detect. This anomaly is unexplained at this time and Tronox will continue to monitor and evaluate the situation.

Subsidence surveys have been conducted annually at the well field since 2002. Because no subsidence has occurred in the last five years since the well field began pumping, future subsidence surveys will be conducted on a bi-annual basis with the next survey scheduled for May 2008.

About 250 feet north of the Athens Road well field, seven ARP-series wells formed the Athens Road piezometer well line. In early March 2007 three of the ARP wells – ARP-4, ARP-5 and ARP-6A - were temporarily abandoned because Tronox was directed to provide unencumbered access for construction of a new storm drain. Construction is currently in progress and these wells will be reestablished once construction is completed, estimated to be in 3 to 6 months. The perchlorate concentrations of the remaining wells are shown in Figure 10. The western two wells, ARP-1 and ARP-2, and the eastern well, ARP-7, continue to contain very low perchlorate concentrations (less than 10 mg/L). ARP-5, which had been slowly exhibiting increasing perchlorate concentrations since September 2005, exhibited a significant decrease in concentration to 237 mg/L in December 2006 (the last analyses before going dry) since ART-9 came online. MW-K4, which had decreased perchlorate concentration of 109 mg/L in August 2007, has increased slightly to 122 mg/L in September.

Intermediate between the Athens Road area and the Seep area are the City of Henderson Wastewater Recovery Facility (COH WRF) and the Lower Ponds monitor well lines. Figure 11 shows the perchlorate concentrations in the COH WRF wells from January 2001 to September 2007. As shown, wells MW-K5 and PC98R, which have previously been exhibiting decreasing perchlorate concentrations over the last six months, have increased to 16.9 and 25.0 mg/L, respectively.

Figure 12, the PC-98R Perchlorate vs. Water Elevation Trend Graph, shows that since February 2003 the groundwater level has continued to generally decline, but groundwater “mounding events” due to increased COH WRF surface water infiltration continue sporadically. It is interesting to note that during some mounding events, back to December 2003, a spike in perchlorate in groundwater occurred as well. This would indicate that during higher water levels additional perchlorate from the vadose zone is put into solution and that the higher than normal perchlorate concentrations in this well line may be more a function of COH WRF discharge than presumed perchlorate leakage past the Athens Road well field. Groundwater elevation data on this graph is current to September 30, 2007 and shows that three mounding events have occurred over the summer.

The Lower Ponds well line is 2200 feet north of the COH WRF well line. Figure 13, the Lower Ponds Well Line Perchlorate Concentrations Trend Graph, shows that perchlorate concentrations continue the decline started about February 2004. In September 2007, PC-60 contained the highest concentration of 7.9 mg/L. Land clearing is currently underway in the area of this well line. Construction workers have damaged the surface completion of well PC-58 but the integrity of the well is intact.

4.0 Seep Area Well Field and Seep Surface Flow Capture

Figure 1 shows the location of the Seep well field, located about 600 feet upgradient of the seep surface-flow capture sump. Appendix A presents groundwater elevations and analytical data from the wells in this area. Table 3 shows the September 2007 discharge rates from the individual wells and the total for the well field area which consisted of 600.5 gpm entirely from the well field. The seep stream was dry all quarter. Figure 14 shows the Seep Well Field Perchlorate Trend Graph whereas figure 14A shows only the 2007 portion of the graph. The perchlorate content of the wells varies from 1.3 to 10.2 mg/L as of September 24, 2007. The four adjacent wells in the center of the channel continue to contain the higher concentrations of perchlorate with PC-115R containing the maximum of 10.2 mg/L.

Recent dirt moving activities, by LandWell Company, in the Seep area have resulted in the destruction of well PC-95 on the Berm Road between PC-96 and PC-97. It is yet to be determined whether this well is to be replaced. Well PC-95 will be replaced in the next 3 to 6 months.

The combined monthly average perchlorate concentration in the well field, as shown on Figure 15, averaged 7.3 mg/L in September 2007. The monthly average perchlorate mass removed, estimated to be 1,643 pounds in September, is down from 4,258 pounds in September 2006. This decrease is due to the overall decrease in perchlorate mass loading in the well field.

The September 2007 SNWA sampling of five vegetation irrigation wells completed in Las Vegas Wash show that these wells all contain less than 4.6 mg/L perchlorate. Well WMW6.15S which contained 45.6 mg/L in June 2002 contained 1.5 mg/l in September 2007; evidence that the in-place recovery systems are functioning well.

The converging lines of evidence that demonstrate hydraulic and contaminant capture at the Seep well field are overlapping cones of depression and decreasing concentrations in downgradient wells and surface water in Las Vegas Wash (ENSR, 2007b).

5.0 On-Site Perchlorate Groundwater Treatment System and Remediation

Operation of the on-site chromium reduction and biological treatment plants has met NPDES discharge permit conditions for the quarter. Flow and contaminant capacities of the various system components are presented in Table 5 which shows that the limiting factor of the system is the 1000 gpm capacity of the biological plant and discharge line. The biological plant #3 fluidized bed reactor was temporarily shut down for a regularly scheduled inspection of internal distribution piping and replacement of distributor nozzles at the bottom of the reactor. The other four primary reactors continued to treat the full groundwater flow during the outage. Minimal wear was noted on the nozzles. Piping and nozzles on the other reactors will be checked and replaced over the coming few years.

A new Ultra Violet (UV) disinfection system supplied by Calgon Carbon Corporation has been installed in the sand filter effluent channel and started up. The new UV unit replaces the older Wedeco UV unit which required considerable maintenance. In addition to the new UV system, a new launching system for foam "pigs" to clean the effluent pipeline was installed and tested.

Transfers of dissolved perchlorate from the AP-5 pond to the GW-11 pond continued throughout the quarter. Fewer transfers were made during September, when the Veolia staff was busy with the fluidized bed reactor #3 nozzle replacement project. A total of 97.4 tons of perchlorate was transferred from AP-5 during the quarter, bringing the total removed to 610.6 tons. This is about 61 percent of the perchlorate thought to be in the pond. Mixing of remaining solids in the AP-5 pond to dissolve residual perchlorate is expected to continue through at least early 2008. Once perchlorate concentrations in the mixed pond water decrease, indicating that most of the perchlorate has been removed from the solids, the solids removal/washing phase of the AP-5 decommissioning effort can begin. The removal project is tentatively scheduled for mid-2008, but may be shifted to 2009 if the quantity of perchlorate in the pond exceeds original expectations.

6.0 Conclusions

Based on the data gathered from water levels, extraction rates, and contaminant concentrations, perchlorate capture appears to be improving in the four components of the remediation program. The evidence that supports this conclusion is discussed in the context of the components of the remediation system including the interceptor well field, barrier wall, Athens Road well field, and the seep well field. It is recognized that additional data are needed to refine the understanding of hydraulic conditions and contaminant capture. In response to NDEP March 29, and June 26, 2007 comments, Tronox provided a Capture Evaluation Work Plan (ENSR August 2007), which has been approved by NDEP. Installation of the new wells specified in the work plan is expected to start shortly.

The Interceptor well field has been in operation for many years and, through continued pumping, has lowered the water table in the area upgradient of the barrier wall. The barrier wall forms a vertical aquiclude/aquitard across the alluvial aquifer downgradient of the interceptor wells. The barrier wall is keyed 20-30 feet into the fine grained sediments of the Muddy Creek formation. Although data indicate that some impacted groundwater is migrating around the interceptor well field and barrier wall, in general, the systems provide capture of impacted groundwater. Tronox has identified several data gaps which need resolution to confirm capture and proposes to complete eight new monitor wells and one new recovery well. The locations of these proposed new wells are shown on maps in the Revised Groundwater Capture Work Plan (ENSR, August 2007).

Since October 2002 the Athens Road area well field has been in continuous operation and is maturing into an efficient interception line. Under direction of the NDEP, McGinley and Associates has recently completed a more robust particle-tracking model indicating over 99 percent capture. The McGinley June 30, 2007 report identifies several data gaps which will need resolution to confirm capture. Tronox is working to address those data gaps, which will allow a more robust demonstration of capture and proposes to complete two new piezometer well-pairs and replace the three abandoned ARP wells, the locations of which are shown on maps in the Revised Groundwater Capture Work Plan (ENSR August 2007).

The Seep well field and the seep surface capture make up the remaining portions of the perchlorate recovery system. The Seep well field is advantageously located over the main part of the alluvium channel and is in close proximity to Las Vegas Wash. Capture in this area makes the most immediate impact on Wash perchlorate concentrations. The perchlorate concentration in seep area groundwater is continuing to decrease with minor reversals partly due to periodic groundwater mounding events from the COH WRF. It is anticipated that the impact of continued pumping at the Athens Road well field – especially with ART-9 online - will continue to be observed in the seep area concentrations, modified by discharge activities at COH WRF. Tronox has identified several data gaps which need resolution to confirm capture and proposes to complete to three new monitor wells. The locations of these proposed new wells are shown on maps accompanying the Revised Groundwater Capture Work Plan (ENSR August 2007).

In August 2007 the mass of perchlorate measured in Las Vegas Wash at Northshore Road declined to 54 pounds per day which represents the lowest concentrations since data began to be collected in 1998. For the last seven months the concentration has consistently been below 100 pounds per day. This represents an almost 95 percent decline in perchlorate loading in the Wash since 1998.

7.0 Proposed Future Activities

A work plan to assess and improve perchlorate capture has been approved by NDEP and Tronox is in the process of moving ahead with the plan.

Tronox will continue to record water levels in the AOC area. The effect of changing the pumping rates of the recovery wells will be monitored, and responses (i.e., pumping rate adjustments) will be made to ensure optimal drawdown and plume interception at the well fields. Pumping wells will be rehabilitated as necessary. The monitoring plan in current use will be modified, as necessary, to facilitate collection of pertinent data to track the progress of chromium and perchlorate capture at the well fields and the seep.

8.0 References

ENSR, August 2007. Revised Work Plan to Evaluate Effective Capture at Tronox Extraction Systems, Tronox LLC, Henderson Nevada, August 2007.

McGinley & Associates, June 30, 2007. Athens Road Well Field Modeling Report near BMI Industrial Complex, Henderson Nevada.

NDEP, July 2, 2007. Comments on the Quarterly Performance Report, Perchlorate Recovery System, Henderson, Nevada, January – March 2007.

NDEP, October 5, 2007. Comments on the Annual Remedial Performance Report for Chromium and Perchlorate, Tronox, Henderson Nevada.

TABLES

TABLE 1
INTERCEPTOR WELL DISCHARGE RATES (GPM)
Tronox, LLC
Henderson, Nevada

Well #	September 2002 (GPM)	September 2003 (GPM)	September 2004 (GPM)	September 2005 (GPM)	September 2006 (GPM)	September 2007 (GPM)
I-AR	NA	NA	0.4	0.5	0.2	1.0
I-B	NA	NA	1.4	1.2	1.2	1.3
I-C	NA	NA	3.8	3.4	3.5	4.2
I-D	NA	NA	1.3	2.9	1.8	1.3
I-E	NA	NA	1.4	1.7	2.5	1.6
I-F	NA	NA	4.0	4.0	4.7	3.8
I-G	NA	NA	OFF	OFF	OFF	OFF
I-H	NA	NA	0.9	1.8	1.0	1.3
I-I	NA	NA	3.1	4.3	5.3	5.4
I-J	NA	NA	5.4	3.7	7.9	7.7
I-K	NA	NA	3.3	5.1	3.9	4.0
I-L	NA	NA	1.3	2.3	2.7	OFF
I-M	NA	NA	3.3	3.7	2.9	4.2
I-N	NA	NA	3.5	3.6	1.8	2.3
I-O	NA	NA	2.4	3.7	3.4	2.9
I-P	NA	NA	3.1	3.2	4.4	1.3
I-Q	NA	NA	0.6	0.5	0.4	0.7
I-R	NA	NA	1.8	1.8	1.9	2.1
I-S	NA	NA	2.9	3.7	5.5	4.2
I-T	NA	NA	0.5	0.8	0.2	0.1
I-U	NA	NA	0.9	0.7	1.1	0.5
I-V	NA	NA	3.9	3.9	3.7	3.1
I-Z	NA	NA	6.8	8.9	6.5	6.2
TOTAL	NA	NA	56.0	65.4	66.5	59.2

GPM = gallons per minute
OFF = well was turned off
NA = not available

TABLE 2
ATHENS ROAD WELL DISCHARGE RATES (GPM)
 Tronox, LLC
 Henderson, Nevada

Well No.	Buddy Well No.	September 2002 (GPM)	September 2003 (GPM)	September 2004 (GPM)	September 2005 (GPM)	September 2006 (GPM)	September 2007 (GPM)
ART-1	ART-1A	18.3	27.3	13.1	15.8	11.5	OFF
ART-2	ART-2A	13.8	61.6	73.9	74.8	78.1	78.1
ART-3	ART-3A	10.6	25.1	33.2	31.7	29.1	39.1
ART-4	ART-4A	0.1	15.8	15.4	16.1	14.2	9.9
ART-6	ART-6A	7.2	10.3	11.7	15.0	NO*	NO*
ART-7	ART-7A	14.3	27.9	31.3	31.2	33.1	18.9
ART-8	ART-8A	39.1	71.1	64.6	70.3	62.4	62.5
ART-9	ART-9	NO	NO	NO	NO	23.1	42.7
TOTAL		103.4	239.1	243.2	254.9	251.5	251.2

GPM = gallons per minute
 NO = not operational (* ART-6 is the "Buddy Well" for ART-9. The electrical and plumbing system from ART-6A was removed and is being used in ART-9)
 ART-1, 2, 3, 4, 7 and 8 have adjacent recovery wells - "Buddy Wells" - designated by the letter "A"
 Pumping Wells on 9/11/07: ART-2, 3A, 4, 7A, 8 and 9
 OFF = Well was turned off

TABLE 3
SEEP WELL FIELD DISCHARGE RATES (GPM)
 Tronox, LLC
 Henderson, Nevada

Well #	September 2002 (GPM)	September 2003 (GPM)	September 2004 (GPM)	September 2005 (GPM)	September 2006 (GPM)	September 2007 (GPM)
PC-99R2/R3	92.6	151.1	140.1	155.9	155.5	124.7
PC-115R	41.4	43.9	40.7	48.5	75.9	84.6
PC-116R	119.1	132.5	131.5	156.2	185.6	183.4
PC-117	NO	84.2	75.1	93.6	93.3	81.3
PC-118	NO	109.0	95.3	73.7	35.3	62.4
PC-119	NO	100.6	101.5	59.1	76.2	58.5
PC-120	NO	108.6	51.6	46.4	0.1	1.2
PC-121	NO	89.2	13.6	OFF	27.8	0.3
PC-133	NO	NO	NO	NO	6.6	8.6
TOTAL	252.8	819.1	649.4	633.4	656.3	605.0
GPM = gallons per minute NO = not operational OFF = well was turned off						

TABLE 4
PERCHLORATE REMOVED FROM THE ENVIRONMENT

Tronox LLC
Henderson, Nevada

Date	Seep Wells and Seep (lbs/day)	Athens Rd. Well Field (lbs/day)	Interceptor Well Field (lbs/day)	Total (lbs/day)	Total Tons Removed (per month)
OCT 2002*	495	331	1402	2228	34.5
NOV 2002	422	1001	1146	2569	38.5
DEC 2002	208	1164	1292	2664	41.3
JAN 2003	335	1074	1467	2876	44.6
FEB 2003	570	783	1060	2413	33.8
MAR 2003**	485	806	1067	2358	36.5
APR 2003	713	713	1033	2460	36.9
MAY 2003	703	729	1148	2581	40.0
JUN 2003	686	907	1098	2691	40.4
JUL 2003	594	755	1034	2383	36.9
AUG 2003	452	741	999	2192	34.0
SEP 2003	417	770	937	2124	31.9
OCT 2003	370	769	1003	2142	33.2
NOV 2003	337	713	949	1999	30.0
DEC 2003	321	751	932	2005	31.1
JAN 2004	305	689	953	1947	30.2
FEB 2004	311	630	895	1836	26.6
MAR 2004	221	743	931	1895	29.4
APR 2004	151	733	849	1733	26.0
MAY 2004	126	765	904	1795	26.9
JUN 2004	157	754	994	1905	28.6
JUL 2004	195	757	968	1920	29.8
AUG 2004	201	805	914	1920	29.8
SEP 2004	169	835	981	1985	29.8
OCT 2004	262	799	1020	2081	31.2
NOV 2004	168	814	1032	2014	30.2
DEC 2004	122	816	1002	1940	30.1
JAN 2005	122	811	1008	1941	30.1
FEB 2005	157	859	991	2007	28.1
MAR 2005	158	781	980	1919	29.7
APR 2005	145	787	987	1919	28.8
MAY 2005	153	759	982	1894	29.4
JUN 2005***	150	794	985	1929	29.9
JUL 2005	154	770	1077	2001	31.0
AUG 2005	135	800	1109	2044	31.7
SEP 2005	84	821	1140	2045	31.7
OCT 2005	99	797	1077	1973	30.6
NOV 2005	111	773	1103	1987	30.8
DEC 2005	121	726	1141	1988	30.8
JAN 2006	141	750	999	1890	29.3
FEB 2006	136	752	993	1881	29.2
MAR 2006	107	736	983	1826	28.3

TABLE 4
PERCHLORATE REMOVED FROM THE ENVIRONMENT

Tronox LLC
Henderson, Nevada

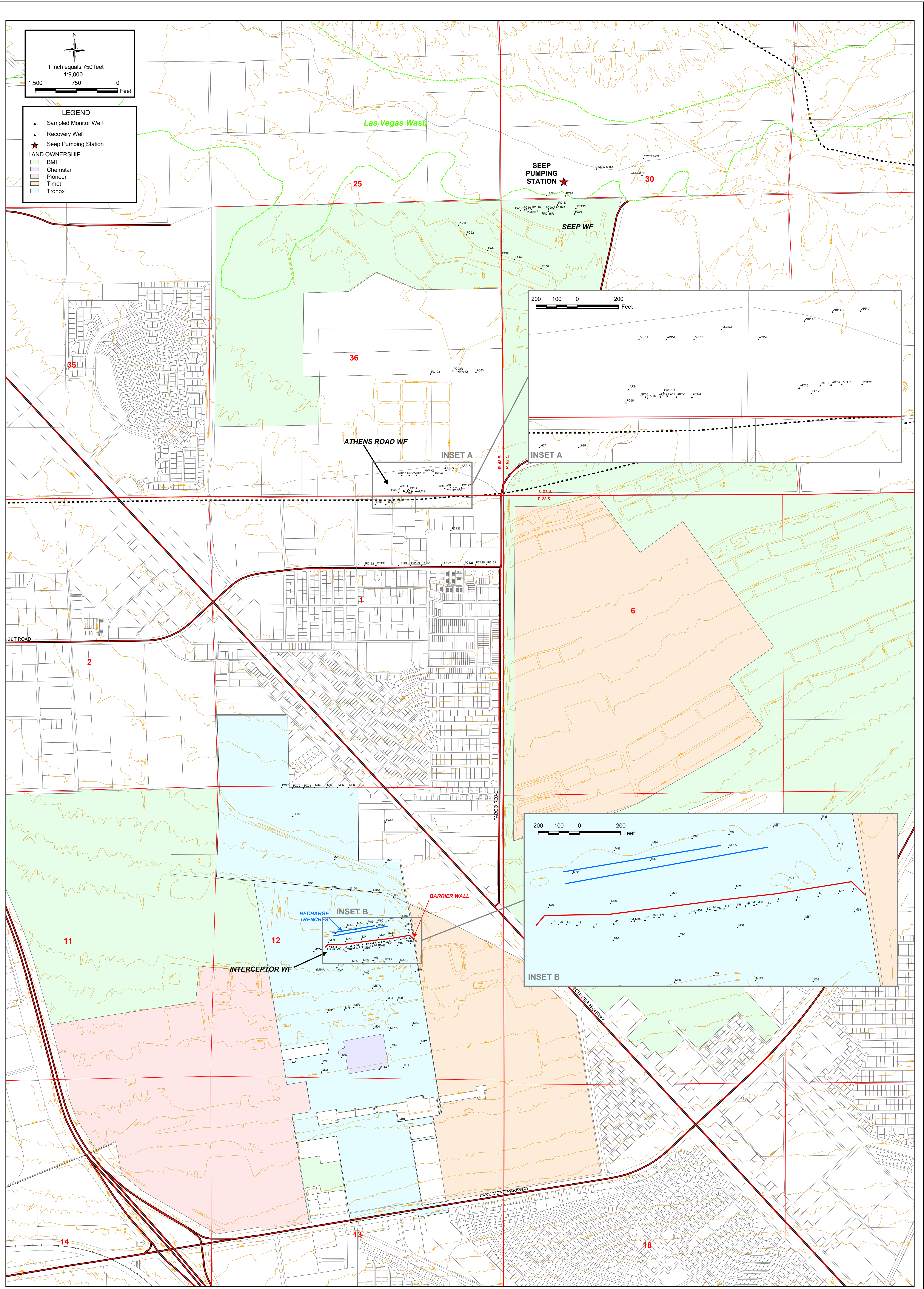
Date	Seep Wells and Seep (lbs/day)	Athens Rd. Well Field (lbs/day)	Interceptor Well Field (lbs/day)	Total (lbs/day)	Total Tons Removed (per month)
APR 2006	129	755	1027	1911	29.6
MAY 2006	131	712	960	1803	27.9
JUN 2006	135	753	887	1775	27.5
JUL 2006	123	647	935	1705	26.4
AUG 2006	141	652	932	1725	26.7
SEP 2006****	142	762	1062	1966	30.5
OCT 2006	134	778	1034	1946	30.2
NOV 2006	101	714	881	1696	26.3
DEC 2006	121	745	884	1750	27.1
JAN 2007	100	804	963	1867	28.9
FEB 2007	89	716	884	1689	26.2
MAR 2007	88	689	930	1707	26.5
APR 2007	89	689	911	1689	25.3
MAY 2007	102	699	904	1705	26.4
JUN 2007	91	642	846	1579	23.7
JUL 2007	67	659	927	1653	25.6
AUG 2007	55	632	853	1540	23.9
SEP 2007#	55	642	847	1544	23.2

* Athens Rd recovery wells begin full time operation on 10/22/02
 ** Five new Seep Area recovery wells began operation on 3/24/03
 *** One new Seep Area recovery well began operation on 6/21/05
 **** One new Athens Rd recovery well began full time operation on 9/8/06
 # Estimated

TABLE 5
FLOW AND CONTAMINANT CAPACITIES OF THE GROUNDWATER TREATMENT SYSTEM
Tronox LLC
Henderson, Nevada

System Component	Capacity	Comments
Water Collection		
Seep Surface Collector	About 400 gpm	No recent flow
Seep Area Wells	About 700 gpm	
Athens Area Wells	About 250 gpm	
On-site Interceptor Wells	About 70 gpm	
Water Treatment		
On-Site Cr Treatment	About 100 gpm	15+ mg/L Cr(VI), clarifier limits flow capacity
LS#3 Cr Treatment	About 250 gpm	<1 mg/L Cr(VI)
Biological Plant	950-1000 gpm	With current ratio of NO ₃ , ClO ₃ , and ClO ₄ , capacity is about 295 mg/L ClO ₄ .
Discharge		
Pipeline to Las Vegas Wash	1000 gpm	Requires 100 hp booster pump to maintain 1000 gpm discharge.
Note: Capacities shown above are approximate and vary with individual components such as well pumps, etc.		

FIGURES

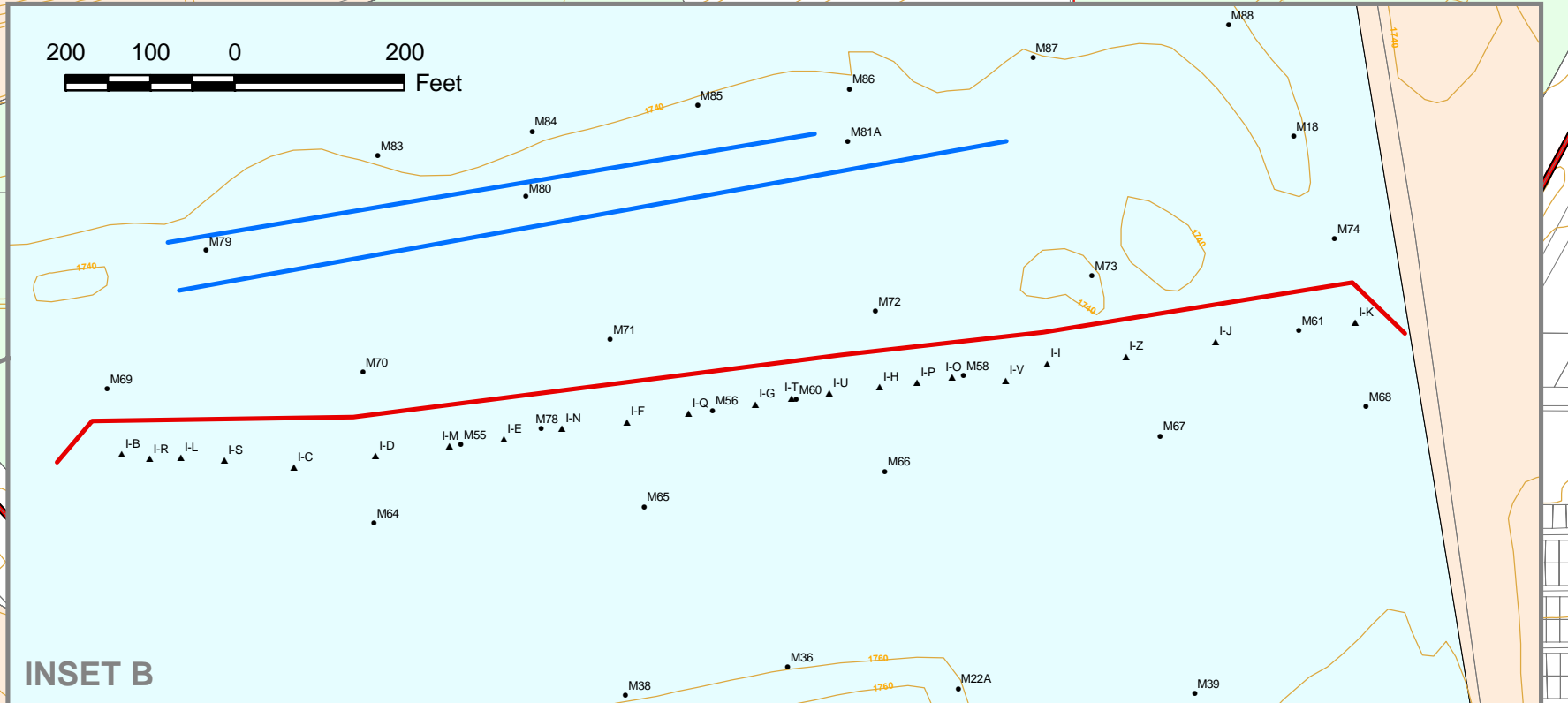
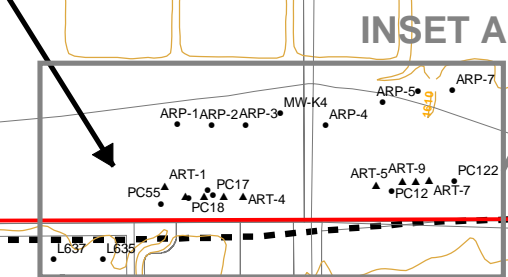
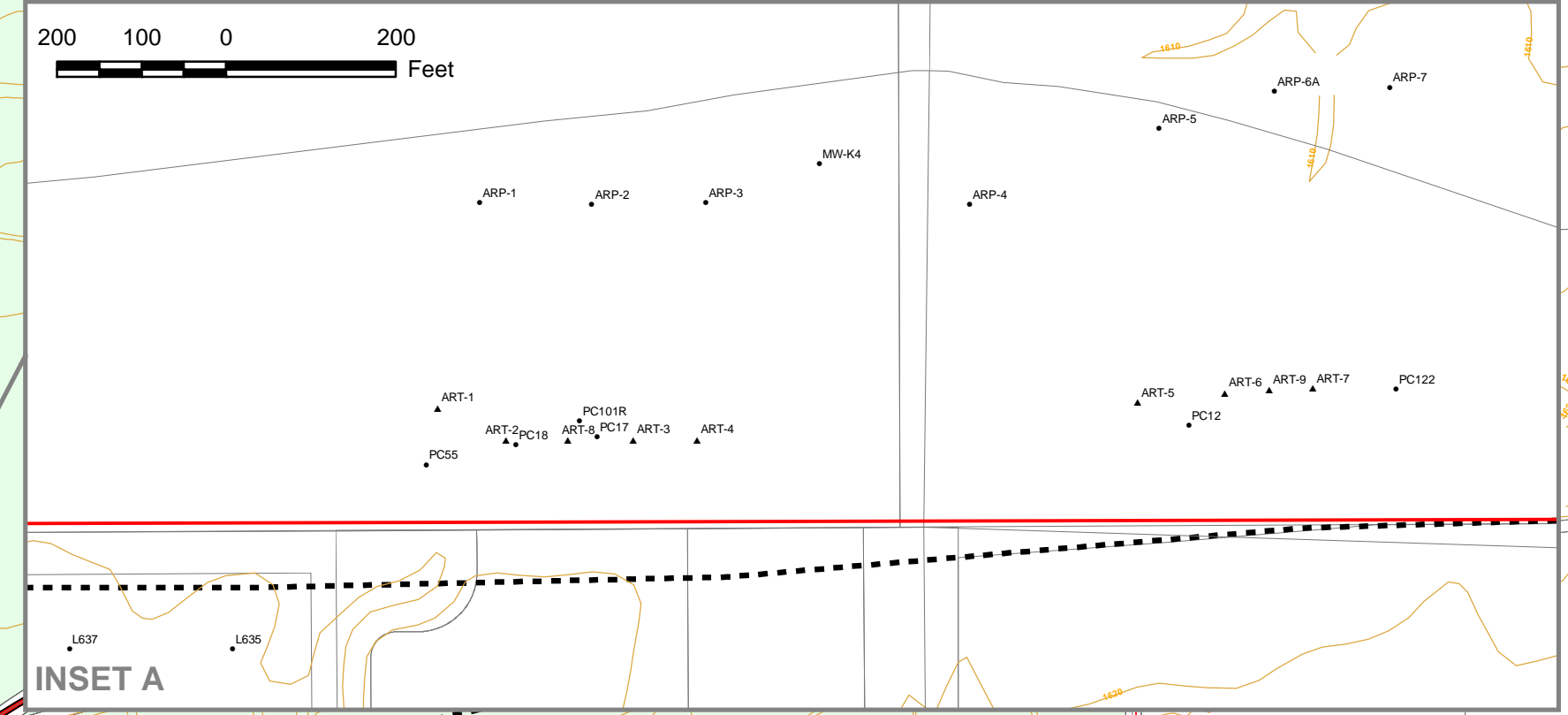


LEGEND

- Sampled Monitor Well
- ▲ Recovery Well
- ★ Seep Pumping Station

LAND OWNERSHIP

- BMI
- Chemstar
- Pioneer
- Timet
- Tronox



SHEET NUMBER: X

FIGURE NUMBER: 1

LOCATION MAP

Quarterly Performance Report
Tronox Facility
Henderson, Nevada

SCALE: AS SHOWN	DATE: 11/27/2007	PROJECT NUMBER: 04020-023-110
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ENSR | AECOM

ENSR CORPORATION
1220 AVENIDA ACASO
CAMARILLO, CALIFORNIA 93012
PHONE: (805) 388-3775
FAX: (805) 388-3577
WEB: HTTP://WWW.ENSR.AECOM.COM

DESIGNED BY:		REVISIONS		
E. Krish	NO.:	DESCRIPTION:	DATE:	BY:
DRAWN BY:				
M. Scop				
CHECKED BY:				
S. Bilodeau				
APPROVED BY:				
S. Bilodeau				

Figure 2: Perchlorate Removed from the Environment January to December 2007

Tronox LLC, Henderson, Nevada

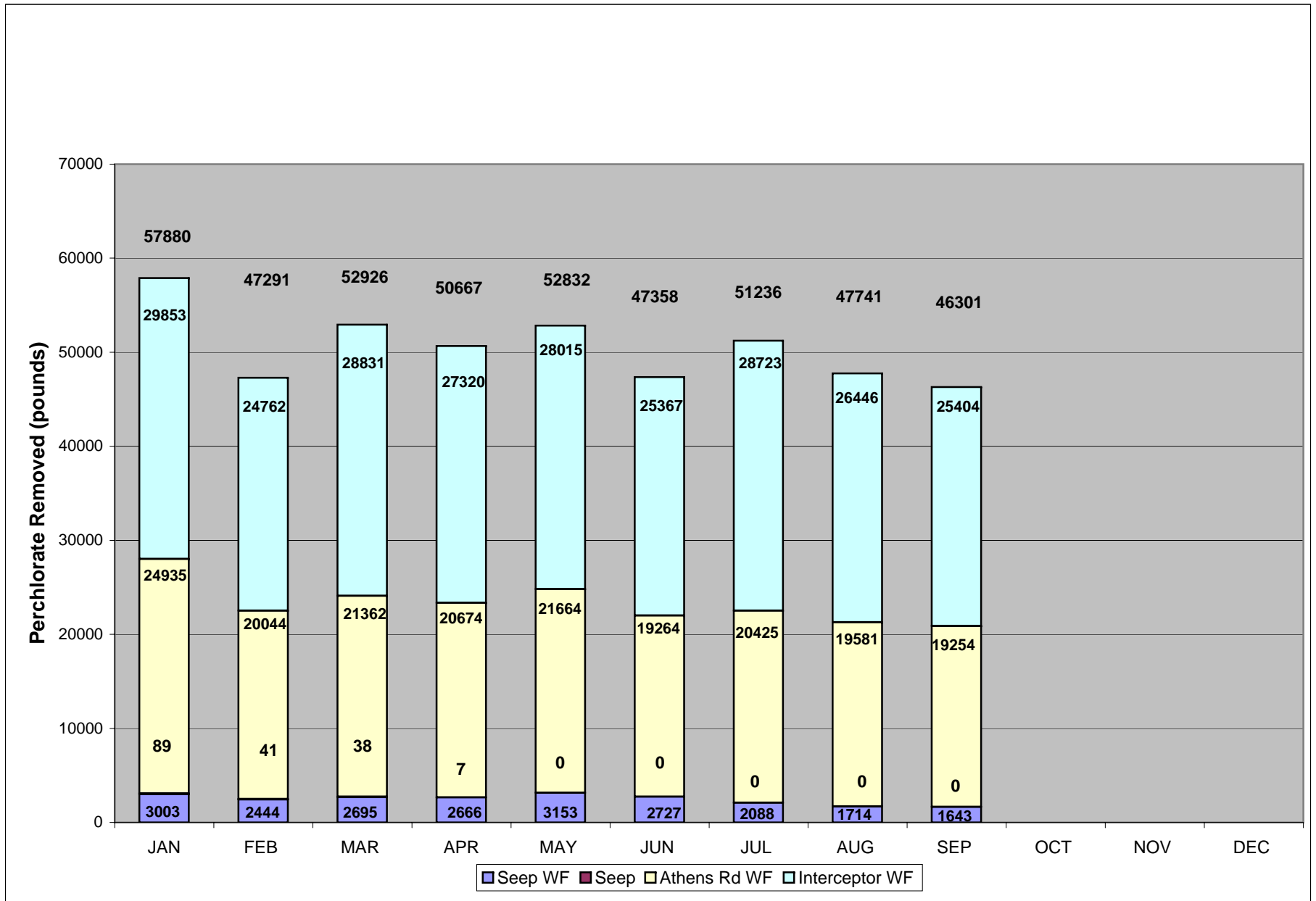


Figure 3: Interceptor Well Field Perchlorate Concentration Section Graph
 Tronox LLC, Henderson, Nevada

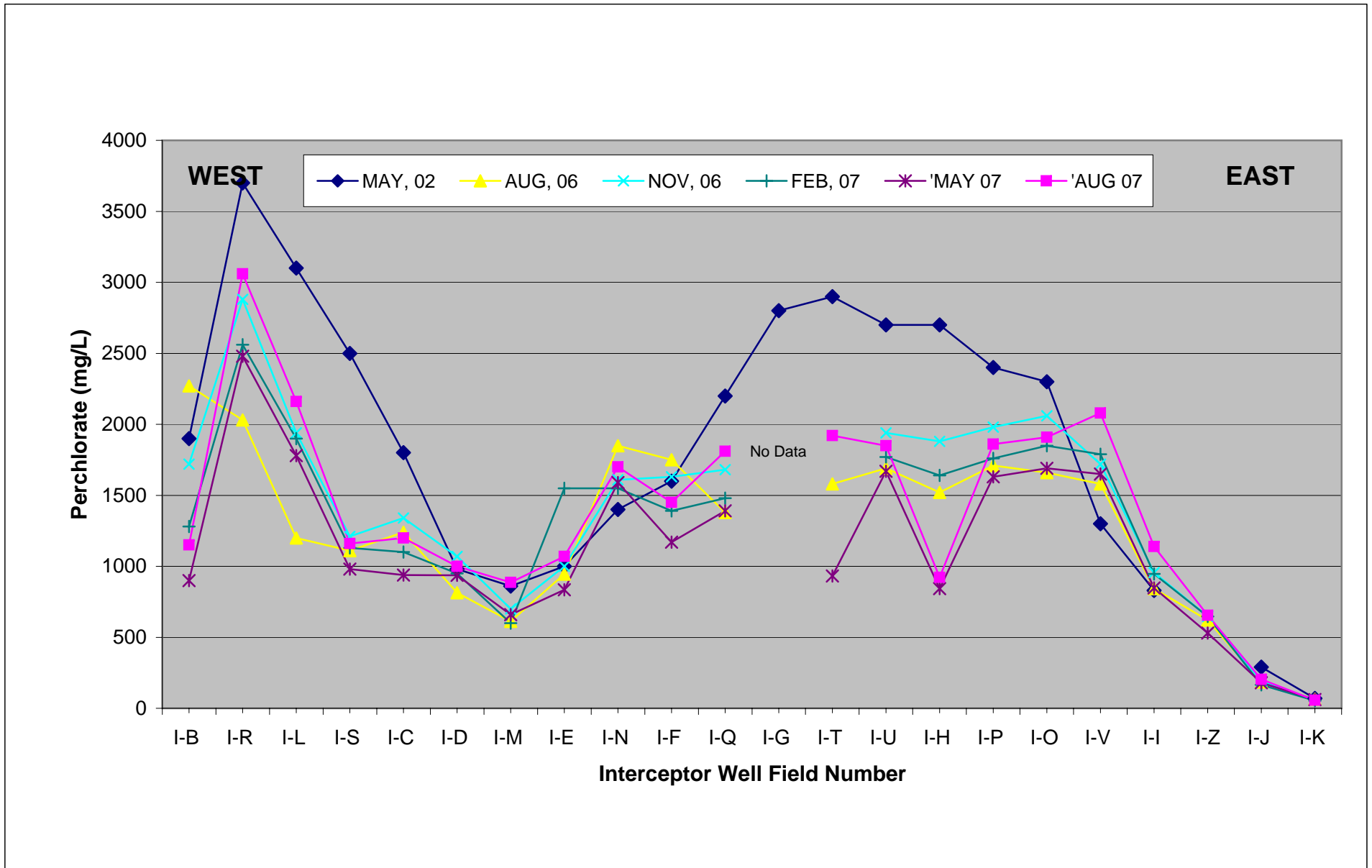


Figure 4: Interceptor Well Field Perchlorate Concentration Trend Graph
Tronox LLC, Henderson, Nevada

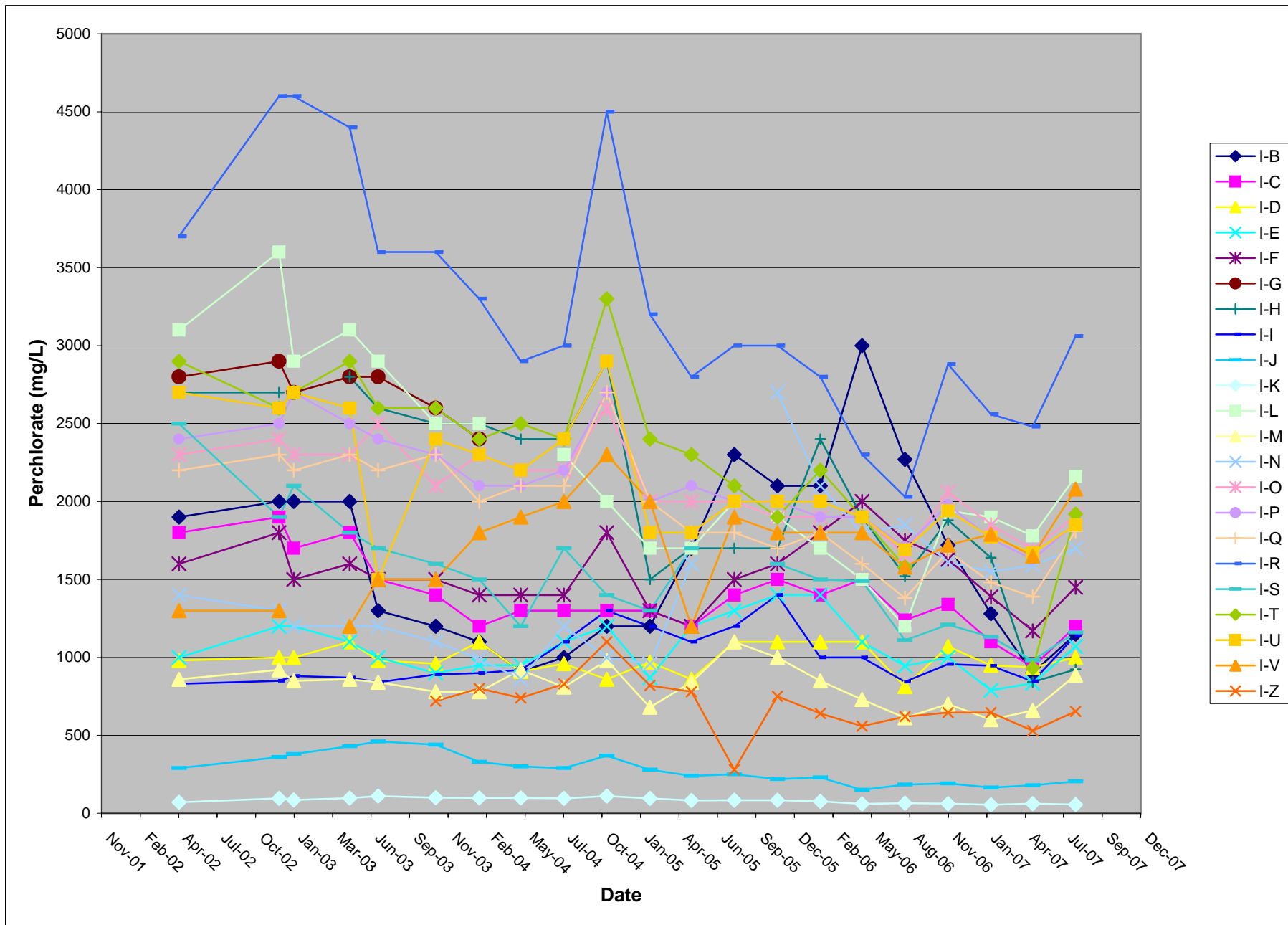


Figure 5: Interceptor Well Field Average Perchlorate Concentration and Mass Removed
 Tronox LLC, Henderson, Nevada

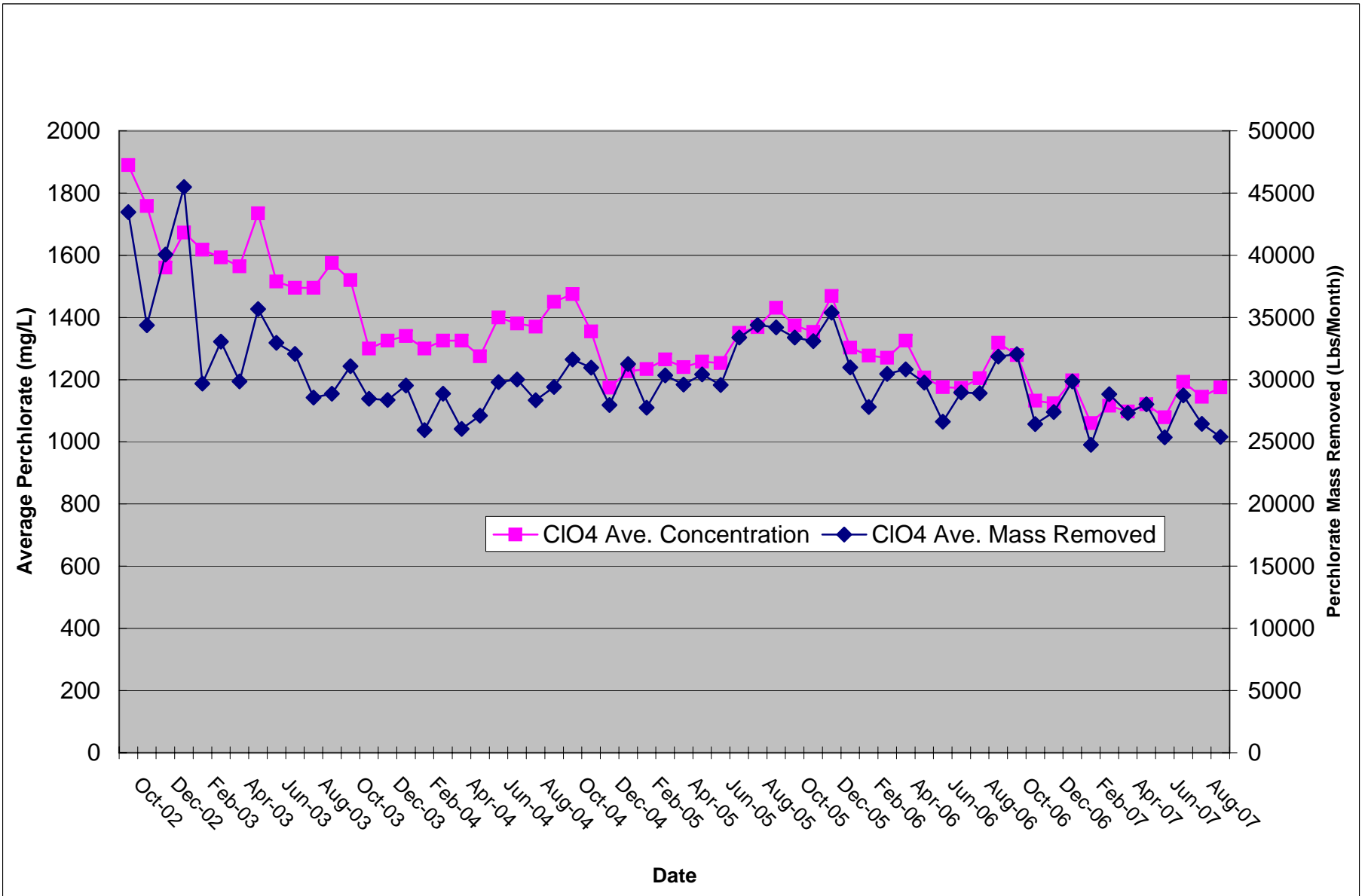


Figure 6: Well M-100 Perchlorate Concentration vs. Water Elevation Trend Graph

Tronox LLC, Henderson, Nevada

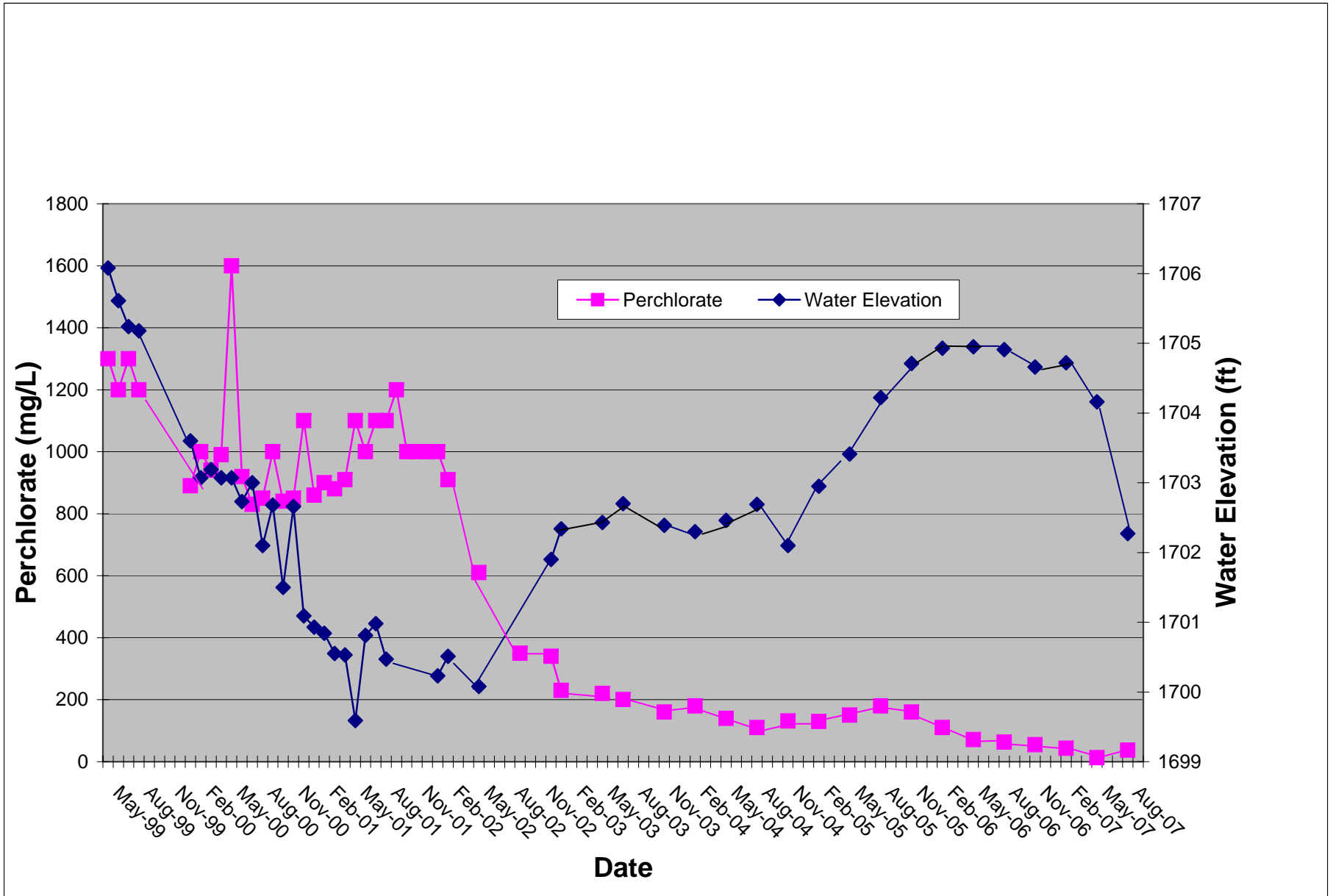


Figure 7: Athens Road Well Field Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada

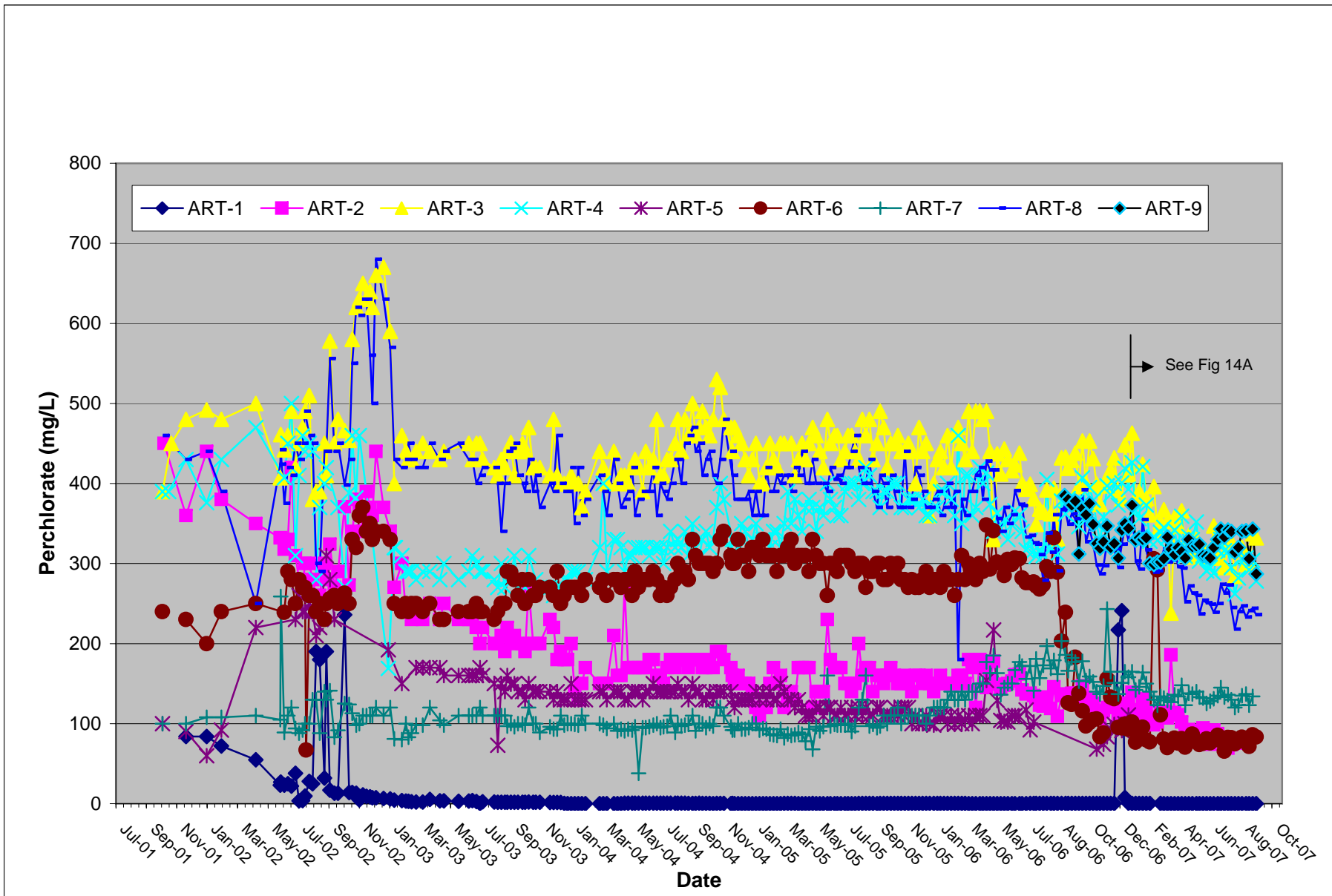


Figure 7A: Athens Road Well Field Perchlorate Concentration Trend Graph January - September 2007
 Tronox LLC, Henderson, Nevada

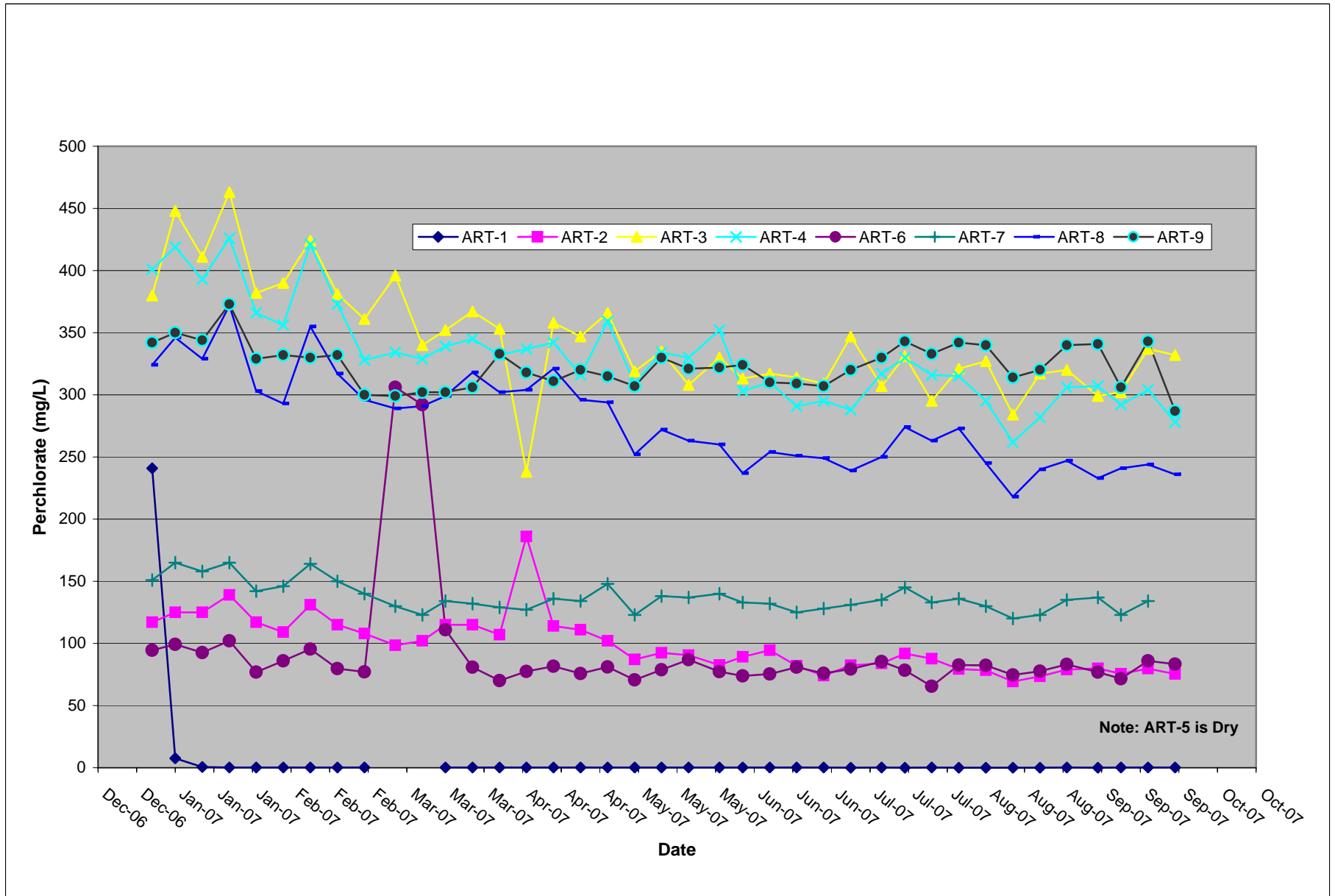


Figure 8: Athens Road Well Field Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada

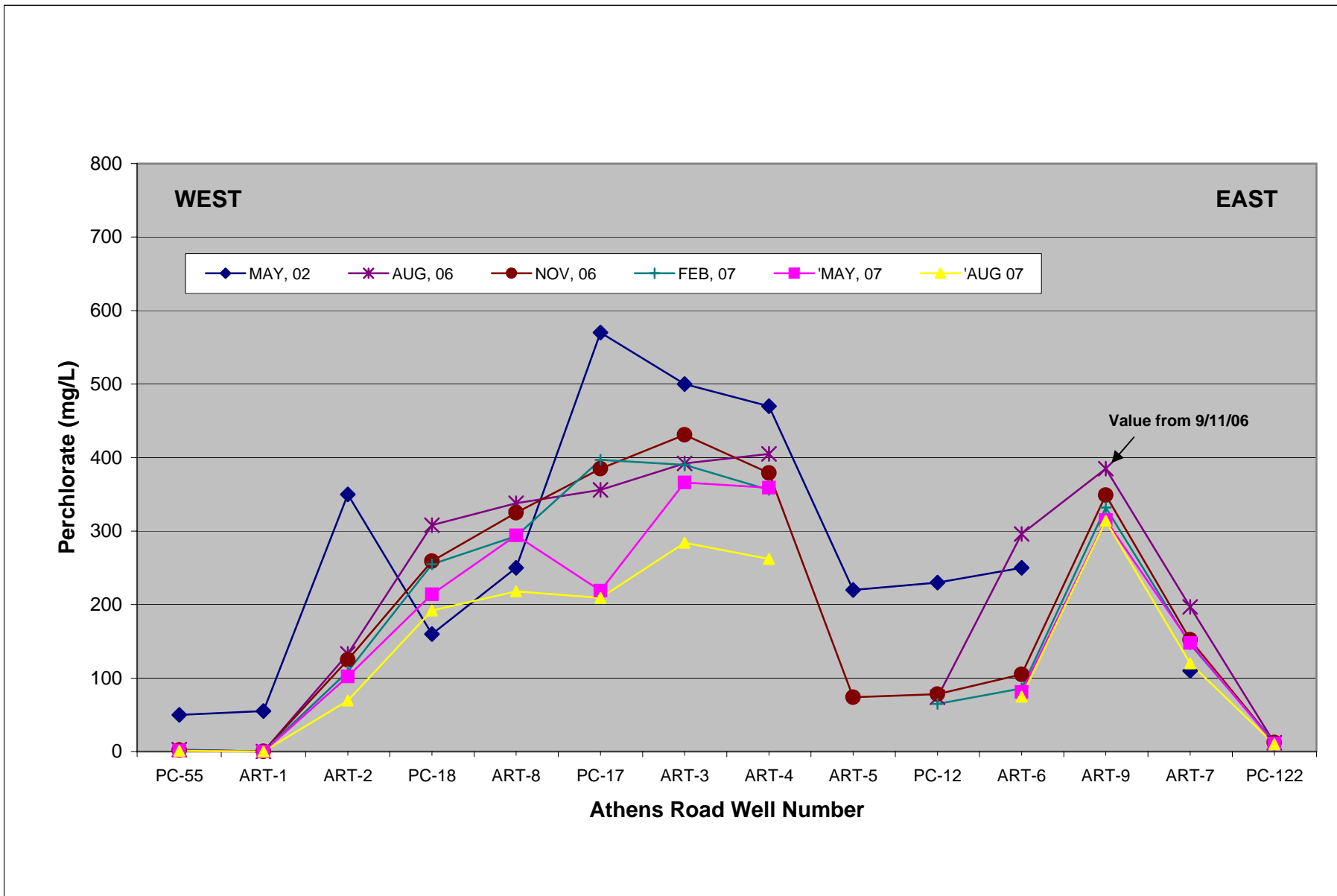


Figure 9: Athens Road Well Field Average Perchlorate Concentration in ART 8 and Mass Removed
 Tronox LLC, Henderson, Nevada

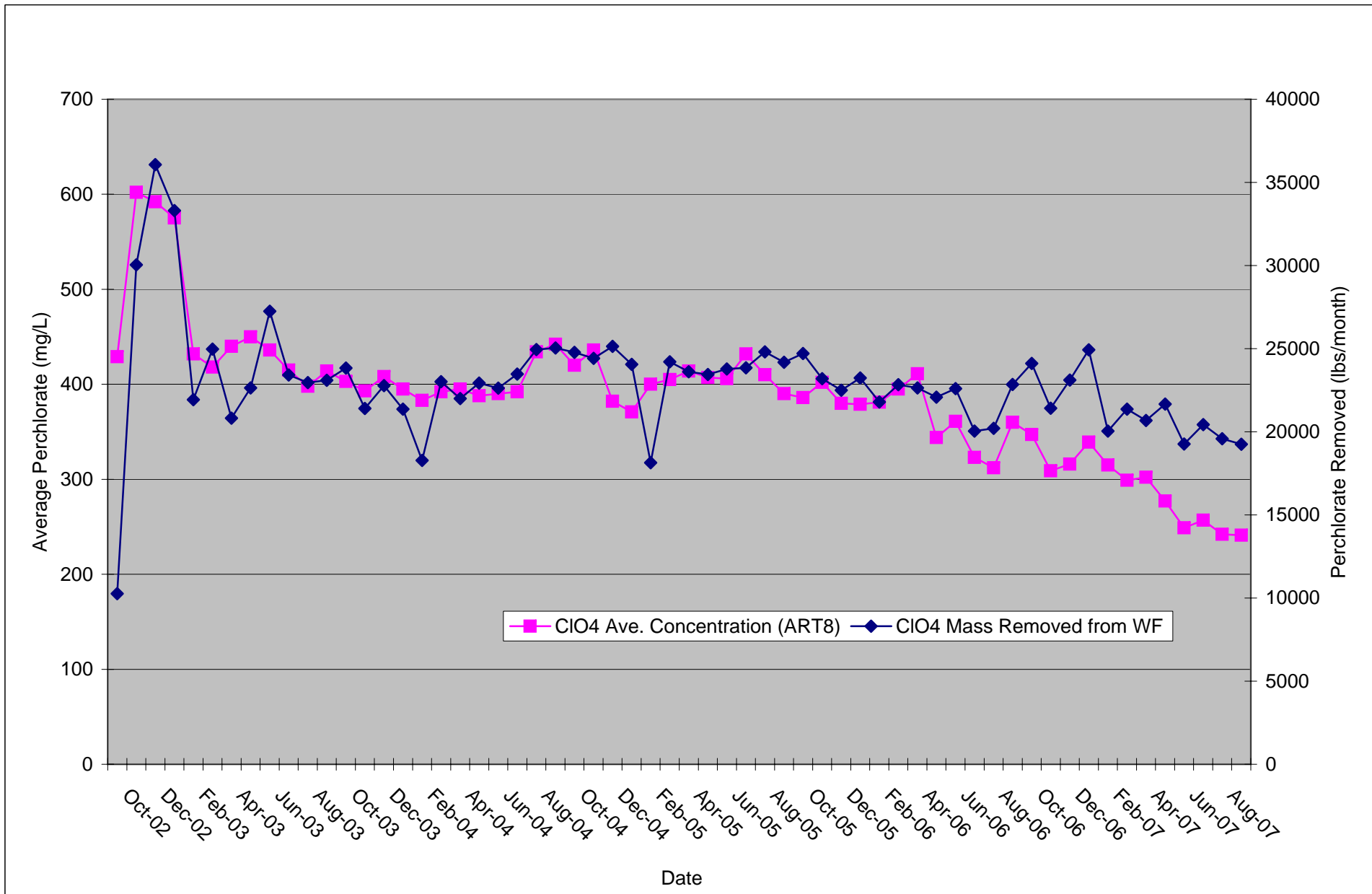


Figure 10: Athens Road Piezometer Well Line Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada

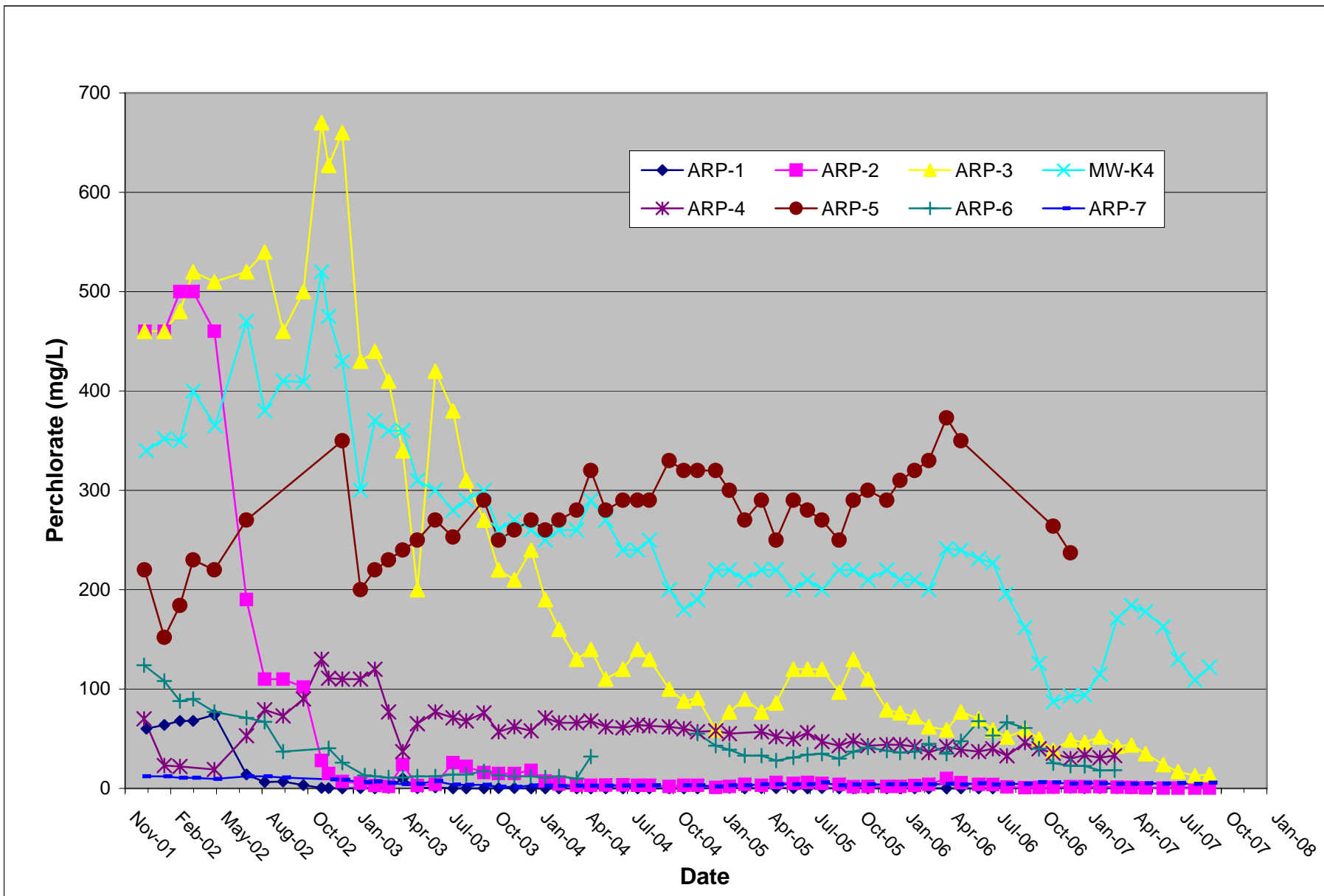


Figure 11: City of Henderson WRF Well Line Perchlorate Concentration Trend Graph
Tronox LLC, Henderson, Nevada

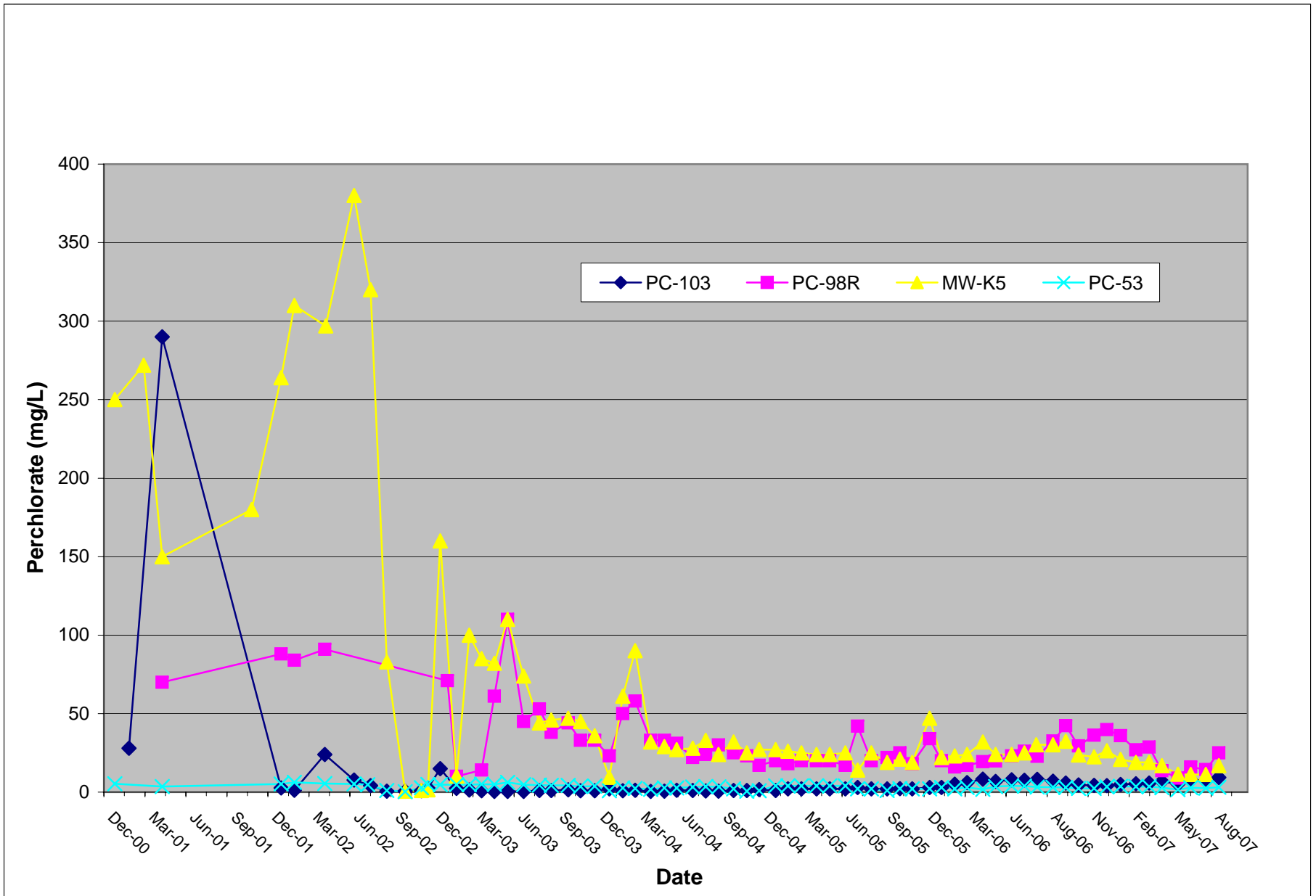


Figure 12: Well PC-98R Perchlorate Concentration vs. Water Elevation Trend Graph

Tronox LLC, Henderson, Nevada

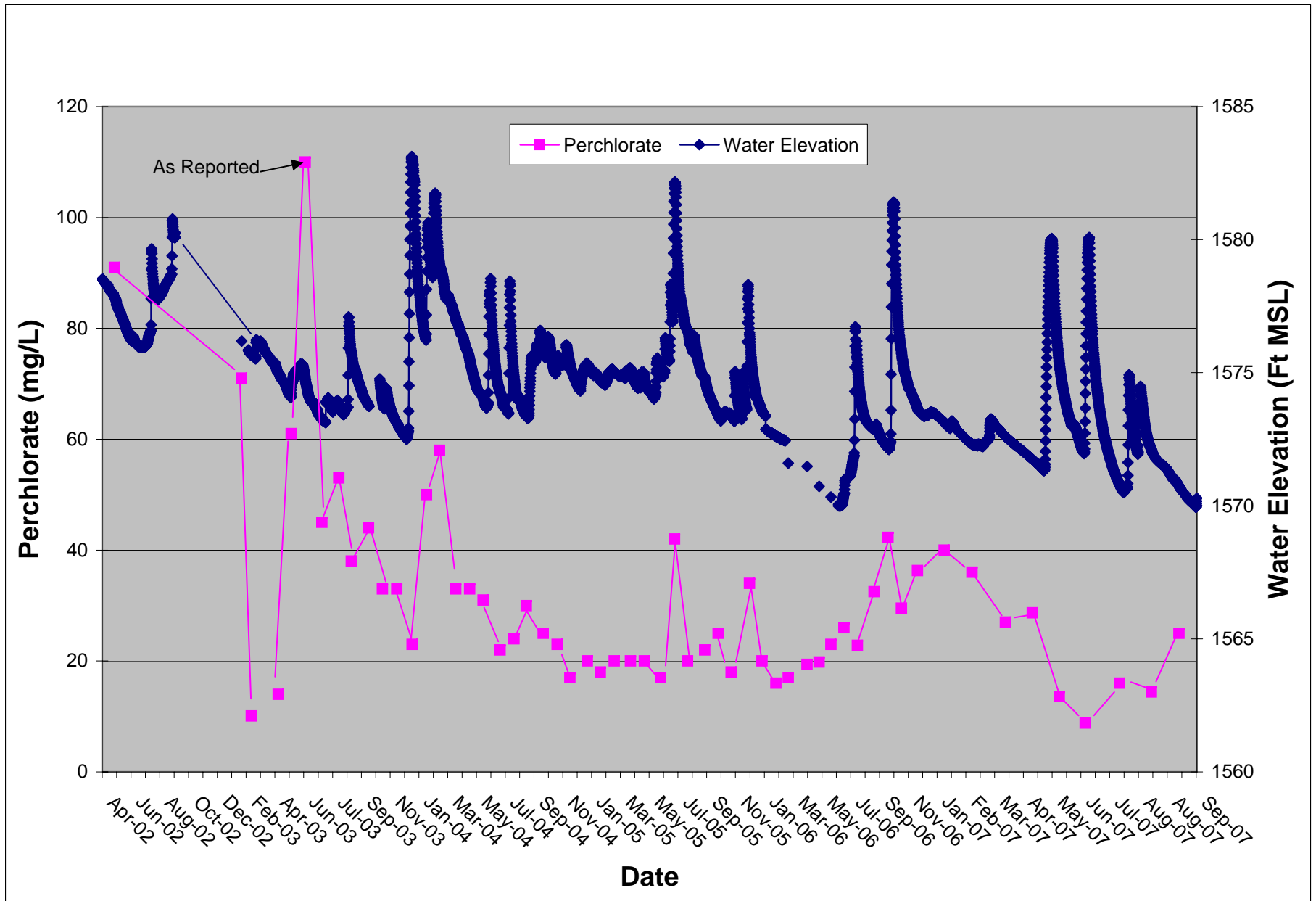


Figure 13: Lower Ponds Well Line Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada

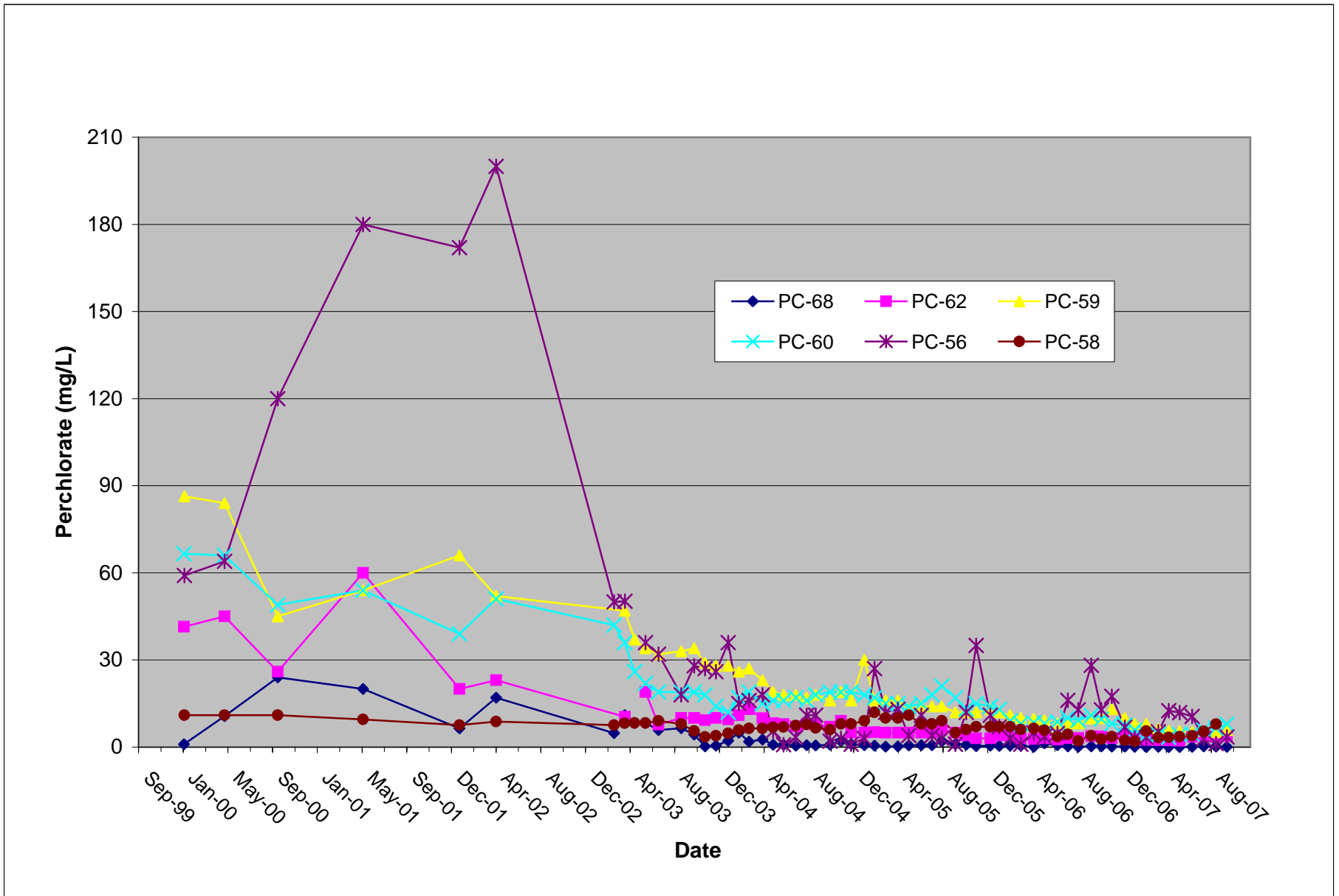


Figure 14: Seep Well Field Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada

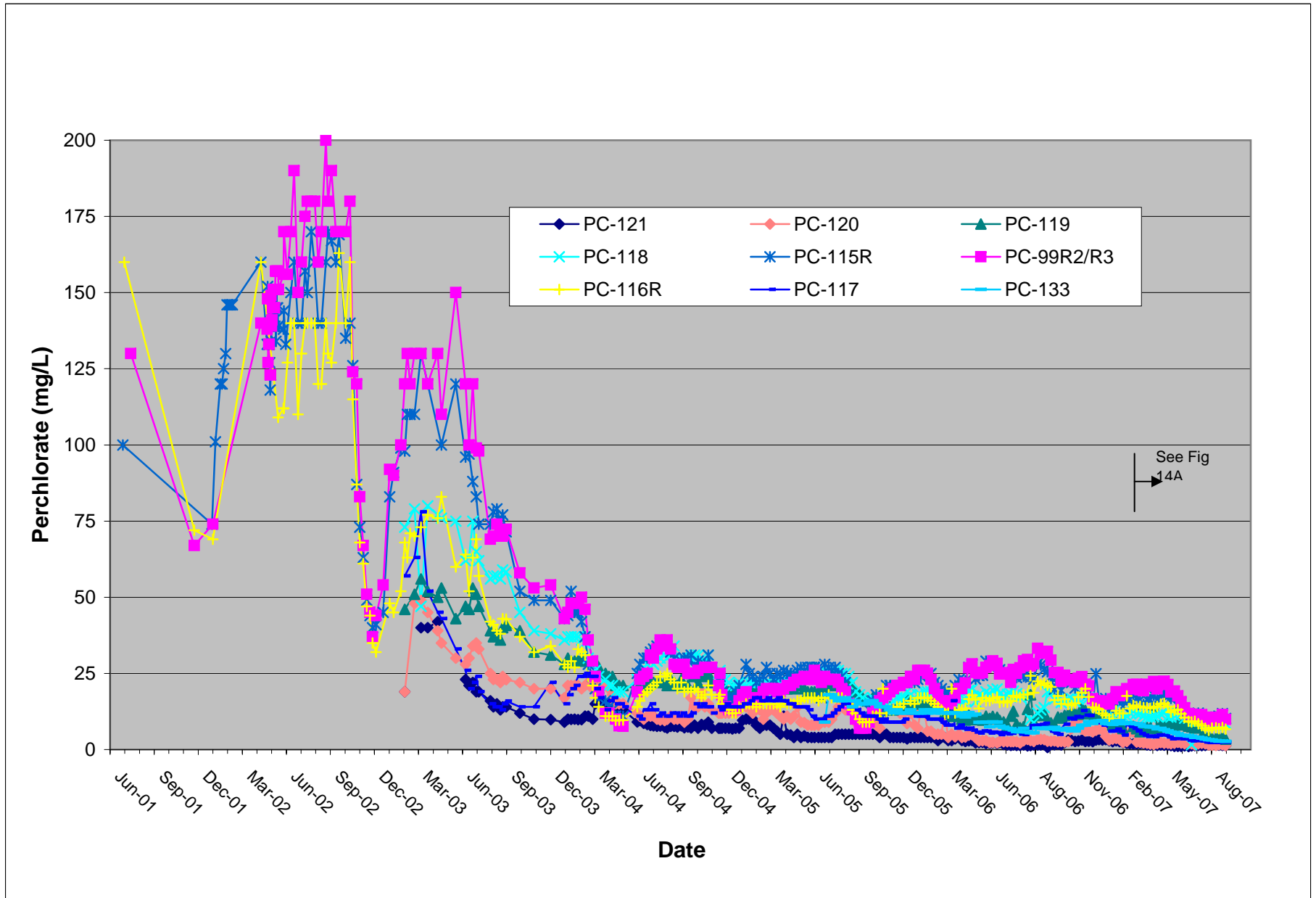


Figure 14A: Seep Well Field Perchlorate Concentration Trend Graph January - September 2007
 Tronox LLC, Henderson, Nevada

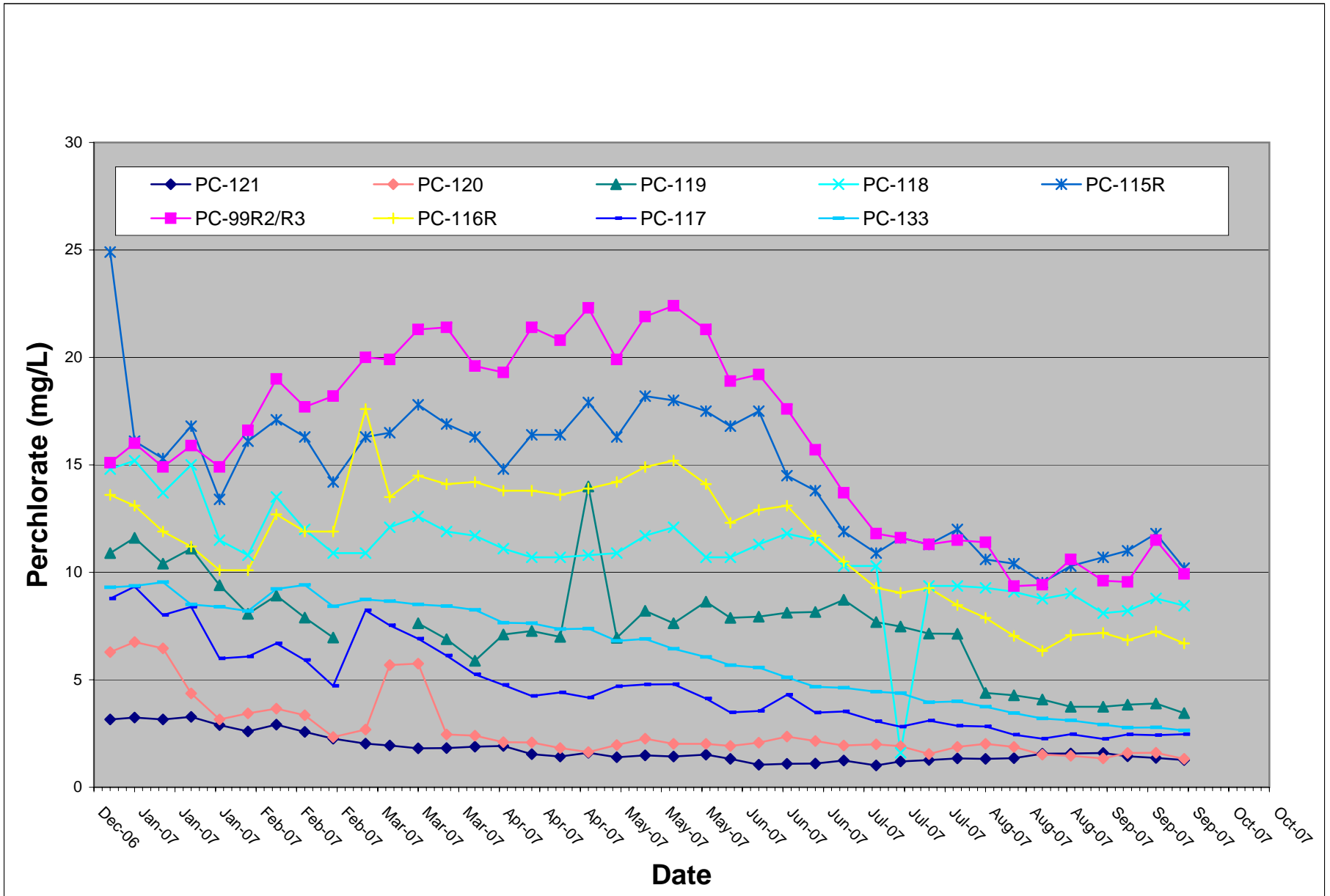


Figure 15: Seep Area Average Perchlorate Concentration and Mass Removed
 Tronox LLC, Henderson, Nevada

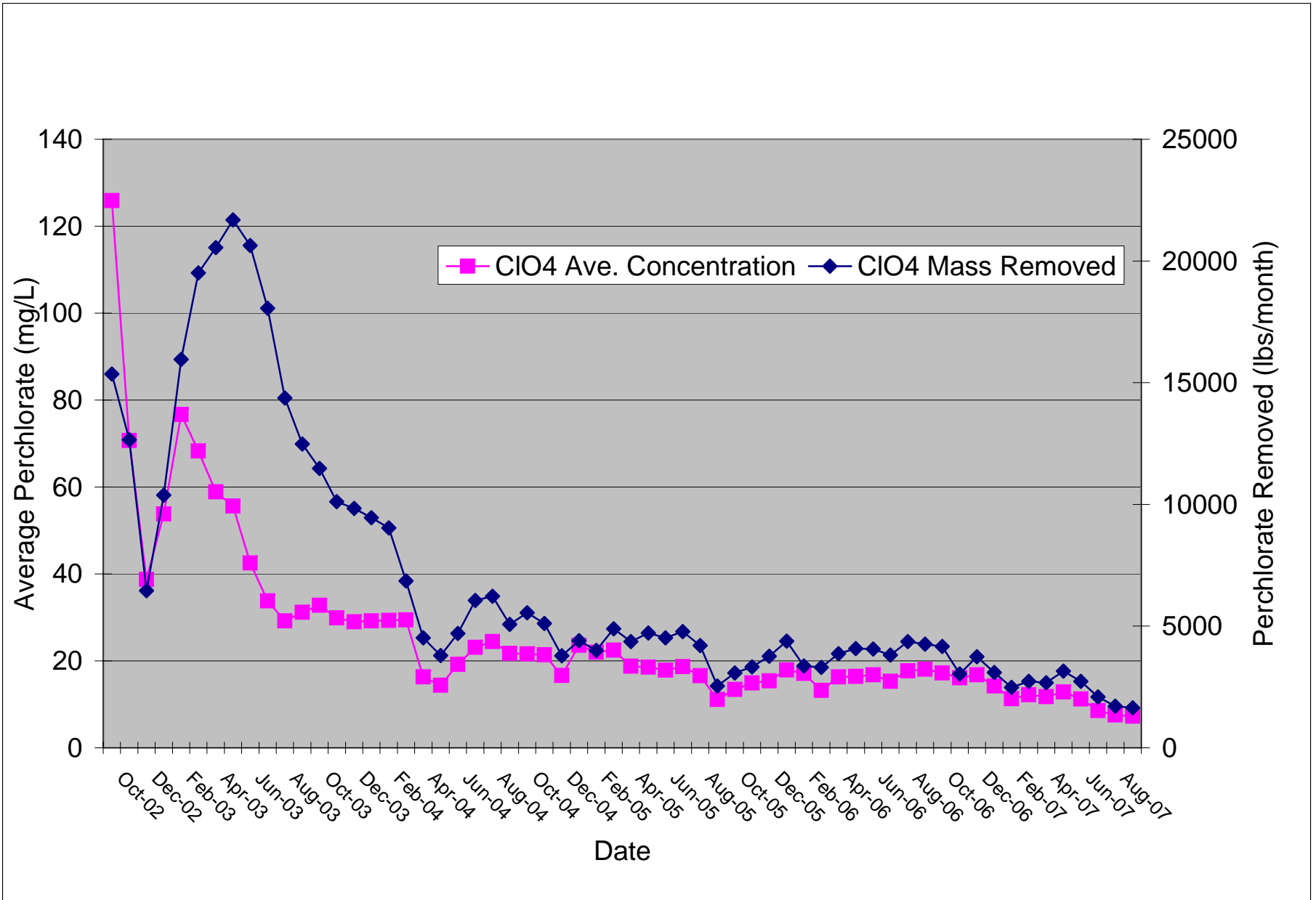
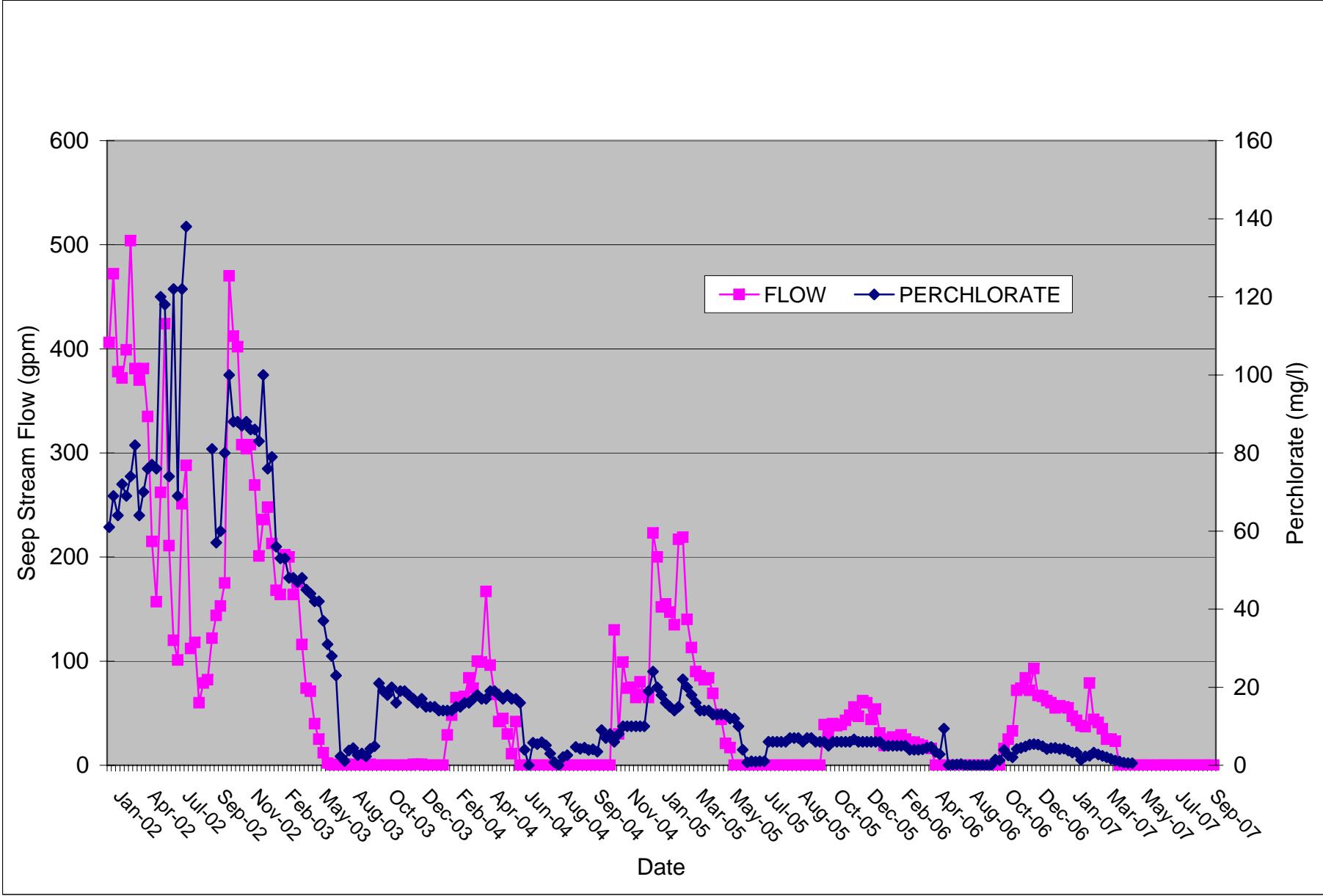


Figure 16: Seep Stream Flow vs. Perchlorate Concentration Trend Graph

Tronox LLC, Henderson, Nevada



**APPENDIX A
GROUNDWATER ELEVATION AND ANALYTICAL DATA TABLE**

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ARP1	1/10/2006	22.81	0.027	d								
ARP1	2/8/2006	23.01	0.019	d	<0.01	ud						
ARP1	3/8/2006	23.24	0.072	d								
ARP1	4/12/2006	23.44	0.048	d								
ARP1	5/9/2006	23.58	0.044	d	<0.01	ud						
ARP1	6/14/2006	23.82	0.1	d								
ARP1	7/12/2006	23.77	0.107	d								
ARP1	8/9/2006	23.38	0.364	d	<0.01	ud	6350					
ARP1	9/13/2006	22.74	0.516	d			6200					
ARP1	10/11/2006	22.56	0.434	d			6060					
ARP1	11/8/2006	21.85	0.39	d	<0.01	ud	6260					
ARP1	12/12/2006	22.01	0.569	d			6050					
ARP1	1/9/2007	22.08	0.347				7200					
ARP1	2/8/2007	22.76	0.191		<0.02	U	6240					
ARP1	3/14/2007	23.19	0.167				6270					
ARP1	4/11/2007	23.46	0.344				6090					
ARP1	5/9/2007	23.68	0.573		<0.02	U	5940					
ARP1	6/13/2007	24.01	0.622				6060					
ARP1	7/12/2007	24.26	0.822				6390					
ARP1	8/15/2007	24.09	0.826		<0.01	u	5330	J				
ARP1	9/14/2007	24.82	1.19				6280					
ARP2	1/10/2006	22.67	2	d								
ARP2	2/8/2006	22.82	2.8	d	<0.01	ud						
ARP2	3/8/2006	23.04	4	d								
ARP2	4/12/2006	23.28	10	d								
ARP2	5/9/2006	23.41	5.7	d	<0.01	ud						
ARP2	6/14/2006	23.64	4.04	d								
ARP2	7/12/2006	23.63	3.83	d								
ARP2	8/9/2006	23.24	1.43	d	<0.01	ud	6410					
ARP2	9/13/2006	22.59	0.627	d			6110					
ARP2	10/11/2006	22.43	0.948	d			6880					
ARP2	11/8/2006	21.69	1.15	d	0.021	d	7220					
ARP2	12/12/2006	21.85	1.6	d			6780					

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ARP2	1/9/2007	21.91	1.76				6920					
ARP2	2/8/2007	22.61	1.55		<0.02	U	7300					
ARP2	3/14/2007	23.02	1.29				7230					
ARP2	4/11/2007	23.29	0.977				7030					
ARP2	5/9/2007	23.52	0.565		0.021		5350					
ARP2	6/13/2007	23.83	0.156				6620					
ARP2	7/12/2007	24.11	0.137				6950					
ARP2	8/15/2007	24.02	0.119		0.028		5750	J				
ARP2	9/14/2007	24.21	0.134				6690					
ARP3	1/10/2006	22.96	76	d								
ARP3	2/8/2006	23.13	72	d	<0.01	ud						
ARP3	3/8/2006	23.33	62	d								
ARP3	4/12/2006	23.57	59	d								
ARP3	5/9/2006	23.73	77	d	<0.01	ud						
ARP3	6/14/2006	23.96	69.8	d								
ARP3	7/12/2006	23.96	58.6	d								
ARP3	8/9/2006	23.58	51.7	d	<0.01	ud	9330					
ARP3	9/13/2006	22.98	58.6	d			8610					
ARP3	10/11/2006	22.84	49.8	d			8920					
ARP3	11/8/2006	22.04	38.3	d	<0.01	ud	8920					
ARP3	12/12/2006	22.28	49	d			8270					
ARP3	1/9/2007	22.38	46.2				8170					
ARP3	2/8/2007	22.97	51.9		<0.02	U	9000					
ARP3	3/14/2007	23.37	42.5				13200					
ARP3	4/11/2007	23.66	43.8				8860					
ARP3	5/9/2007	23.83	34.8		<0.02	U	7900					
ARP3	6/13/2007	24.16	24				8960					
ARP3	7/12/2007	24.43	16.8				7000					
ARP3	8/15/2007	24.31	12.8		<0.01	u	6450	J				
ARP3	9/14/2007	24.52	13.9				8290					
ARP4	1/10/2006	24.41	44	d								
ARP4	2/8/2006	24.61	42	d	<0.01	ud						
ARP4	3/8/2006	24.58	36	d								

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ARP4	4/12/2006	25.01	42.1	d								
ARP4	5/9/2006	25.21	39	d	<0.01	ud						
ARP4	6/14/2006	25.41	36.7	d								
ARP4	7/12/2006	25.54	40.3	d								
ARP4	8/9/2006	25.33	32.7	d	<0.01	ud	5860					
ARP4	9/13/2006	24.76	46	d			4356					
ARP4	10/11/2006	24.71	40	d			5410					
ARP4	11/8/2006	24.03	35.5	d	<0.01	ud	5300					
ARP4	12/12/2006	24.11	29.5	d			5260					
ARP4	1/9/2007	24.26	33.6				5250					
ARP4	2/8/2007	24.71	30.9		<0.02	U	5290					
ARP4	3/9/2007	25.01	33				5380					
ARP6A	1/10/2006	26.59	36	d								
ARP6A	2/8/2006	26.89	37	d	0.18	d						
ARP6A	3/8/2006	27.19	45	d								
ARP6A	4/12/2006	27.54	35	d								
ARP6A	5/9/2006	27.77	47.5	d	0.21	d						
ARP6A	6/14/2006	28.18	53.3	d								
ARP6A	7/12/2006	28.68	67.7	d								
ARP6A	8/9/2006	28.29	66.6	d	0.27	d	9970					
ARP6A	9/13/2006	27.95	60.9	d			8920					
ARP6A	10/11/2006	28.38	40	d			9920					
ARP6A	11/8/2006	27.54	25.4	d	0.14	d	10020					
ARP6A	12/12/2006	27.82	22.7	d			8470					
ARP6A	1/9/2007	28.24	22.5				8600					
ARP6A	2/8/2007	28.64	18		0.12		10200					
ARP6A	3/9/2007	29.07	18.2				10800					
ARP7	1/11/2006	25.64	4	d								
ARP7	2/9/2006	25.97	4	d	0.025	d						
ARP7	3/7/2006	26.23	4	d								
ARP7	4/12/2006	26.59	4.6	d								
ARP7	5/10/2006	26.84	3.84	d	<0.01	ud						
ARP7	6/15/2006	27.26	3.92	d								

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ARP7	7/13/2006	27.56	5.02	d								
ARP7	8/10/2006	27.34	4.49	d	<0.01	ud	4690					
ARP7	9/13/2006	27.04	4.53	d			4110					
ARP7	10/12/2006	27.43	6.11	d			5520					
ARP7	11/9/2006	26.57	5.96	d	0.022	d	5650					
ARP7	12/12/2006	26.88	4.69	d			5500					
ARP7	1/10/2007	27.27	5.57				5560					
ARP7	2/6/2007	27.71	5.07		<0.02	U	5510					
ARP7	3/15/2007	28.11	4.55				5620					
ARP7	4/12/2007	28.39	4.45				5500					
ARP7	5/10/2007	28.16	4.9		0.022		5700					
ARP7	6/14/2007	28.48	4.77				5960					
ARP7	7/13/2007	28.96	5.31				5970					
ARP7	8/17/2007	29.19	4.46		0.021		5820					
ARP7	9/19/2007	29.36	5.61				6170					
ART1	1/3/2006	37.34	0.21	d								
ART1	1/9/2006	37.34	0.22	d								
ART1	1/16/2006	37.34	0.23	d								
ART1	1/23/2006	37.34	0.24	d								
ART1	1/30/2006	37.34	0.24	d								
ART1	2/6/2006	37.24	0.25	d	<0.01	ud						
ART1	2/13/2006	37.24	0.25	d								
ART1	2/20/2006	37.24	0.27	d								
ART1	2/27/2006	37.24	0.25	d								
ART1	3/6/2006	23.23	0.12	d								
ART1	3/13/2006	23.23	0.12	d								
ART1	3/20/2006	23.23	0.12	d								
ART1	3/28/2006	23.23	0.11	d								
ART1	4/3/2006	23.39	0.11	d								
ART1	4/10/2006	23.39	<0.004	ud								
ART1	4/17/2006	23.39	0.024	d								
ART1	4/24/2006	23.39	0.021	d								
ART1	5/1/2006	23.45	<0.004	ud								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART1	5/8/2006	23.45	0.013	d	<0.01	ud						
ART1	5/15/2006	23.45	0.025	d								
ART1	5/22/2006	23.45	0.026	d								
ART1	5/30/2006	23.45	<0.004	ud								
ART1	6/5/2006	23.76	<0.004	ud								
ART1	6/12/2006	23.76	<0.004	ud								
ART1	6/19/2006	23.76	<0.004	ud								
ART1	6/27/2006	23.76	0.021	d								
ART1	7/5/2006	37.16	0.223	d								
ART1	7/10/2006	37.16	0.211	d								
ART1	7/17/2006	37.16	0.17	d								
ART1	7/24/2006	37.16	0.153	d			7540					
ART1	7/31/2006	37.16	0.152	d			6390					
ART1	8/7/2006	36.48	0.154	d	<0.01	ud	6260					
ART1	8/15/2006	36.48	0.155	d			7140					
ART1	8/21/2006	36.48	0.149	d			6310					
ART1	8/28/2006	36.48	0.155	d			6210					
ART1	9/5/2006	37.71	0.202	d			7130					
ART1	9/11/2006	37.71	0.206	d			6100					
ART1	9/18/2006	37.71	0.211	d			6110					
ART1	9/25/2006	37.71	0.206	d			7260					
ART1	10/2/2006	29.44	0.202	d			7270					
ART1	10/9/2006	29.44	0.188	d			7210					
ART1	10/16/2006	29.44	0.194	d			6920					
ART1	10/23/2006	29.44	0.174	d			7400					
ART1	10/30/2006	29.44	0.198	d			7300					
ART1	11/13/2006	37.51	0.172	d			7440					
ART1	11/20/2006	37.51	0.176	d			7440					
ART1	11/27/2006	37.51	0.171	d			7440					
ART1	12/4/2006	29.99	0.195	d			7330					
ART1	12/11/2006	29.99	0.169	d			7410					
ART1	12/18/2006	29.99	0.187				7010					
ART1	12/26/2006	29.99	217				8730					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART1	1/2/2007	21.90	241				7800					
ART1	1/8/2007	21.90	7.61				6840					
ART1	1/15/2007	21.90	0.565				7280					
ART1	1/22/2007	21.90	0.219				7270					
ART1	1/29/2007	21.90	0.203				7640					
ART1	2/5/2007	37.07	0.191		<0.05	U	7290					
ART1	2/12/2007	37.07	0.21				7330					
ART1	2/19/2007	37.07	0.169				7230					
ART1	2/26/2007	37.07	0.155				7080					
ART1	3/19/2007	37.52	0.152				7300					
ART1	3/26/2007	37.52	0.135				7250					
ART1	4/2/2007	37.51	0.126				7460					
ART1	4/9/2007	37.51	0.132				7270					
ART1	4/16/2007	37.51	0.12				7380					
ART1	4/23/2007	37.51	0.106				7130					
ART1	4/30/2007	37.51	0.107				6820					
ART1	5/7/2007	23.64	0.111		<0.02	U	82700	J-				
ART1	5/14/2007	23.64	0.127				6810					
ART1	5/21/2007	23.64	0.116				5850					
ART1	5/29/2007	23.64	0.117				7000					
ART1	6/4/2007	23.92	0.119				6950					
ART1	6/11/2007	23.92	0.123				6660					
ART1	6/18/2007	23.92	0.112				6760					
ART1	6/25/2007	23.92	0.102				6570					
ART1	7/2/2007	24.12	0.094				6540					
ART1	7/10/2007	24.12	0.101				6790					
ART1	7/16/2007	24.12	0.094				7030					
ART1	7/23/2007	24.12	0.098				6920					
ART1	7/30/2007	24.12	0.086				6980					
ART1	8/6/2007	23.95	0.082				6590					
ART1	8/13/2007	23.95	0.078		0.2		6350					
ART1	8/20/2007	23.95	0.064				6850					
ART1	8/27/2007	23.95	0.103				6820					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART1	9/4/2007	24.65	0.094				6680					
ART1	9/10/2007	24.65	0.1				6540					
ART1	9/17/2007	24.65	0.112				6770					
ART1	9/24/2007	24.65	0.13				6690					
ART2	1/3/2006	26.53	150	d								
ART2	1/9/2006	26.53	160	d								
ART2	1/16/2006	26.53	150	d								
ART2	1/23/2006	26.53	150	d								
ART2	1/30/2006	26.53	150	d								
ART2	2/6/2006	26.55	150	d	<0.01	ud						
ART2	2/13/2006	26.55	160	d								
ART2	2/20/2006	26.55	160	d								
ART2	2/27/2006	26.55	150	d								
ART2	3/6/2006	26.79	180	d								
ART2	3/13/2006	26.79	170	d								
ART2	3/20/2006	26.79	170	d								
ART2	3/28/2006	26.79	180	d								
ART2	4/3/2006	27.06	170	d								
ART2	4/10/2006	27.06	145	d								
ART2	4/17/2006	27.06	154	d								
ART2	4/24/2006	27.06	178	d								
ART2	5/1/2006	27.08	149	d								
ART2	5/8/2006	27.08	145	d	0.03	d						
ART2	5/15/2006	27.08	148	d								
ART2	5/22/2006	27.08	150	d								
ART2	5/30/2006	27.08	153	d								
ART2	6/5/2006	29.64	161	d								
ART2	6/12/2006	29.64	162	d								
ART2	6/19/2006	29.64	142	d								
ART2	6/27/2006	29.64	137	d								
ART2	7/5/2006	27.62	138	d								
ART2	7/10/2006	27.62	135	d								
ART2	7/17/2006	27.62	132	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART2	7/24/2006	27.62	123	d			9040					
ART2	7/31/2006	27.62	122	d			9990					
ART2	8/7/2006	27.24	133	d	0.031	d	11100					
ART2	8/15/2006	27.24	119	d			9310					
ART2	8/21/2006	27.24	146	d			9320					
ART2	8/28/2006	27.24	109	d			8100					
ART2	9/5/2006	26.56	135	d			10020					
ART2	9/11/2006	26.56	137	d			9530					
ART2	9/18/2006	26.56	132	d			9110					
ART2	9/25/2006	26.56	138	d			9820					
ART2	10/2/2006	26.22	138	d			9580					
ART2	10/9/2006	26.22	127	d			9880					
ART2	10/16/2006	26.22	147	d			9560					
ART2	10/23/2006	26.22	123	d			9960					
ART2	10/30/2006	26.22	132	d			9700					
ART2	11/13/2006	25.67	112	d			9580					
ART2	11/20/2006	25.67	106	d			9430					
ART2	11/27/2006	25.67	116	d			10030					
ART2	12/4/2006	25.69	120	d			9480					
ART2	12/11/2006	25.69	130	d			9640					
ART2	12/18/2006	25.69	121				9030					
ART2	12/26/2006	25.69	105				8870					
ART2	1/2/2007	25.71	117				8230					
ART2	1/8/2007	25.71	125				9930					
ART2	1/15/2007	25.71	125				8430					
ART2	1/22/2007	25.71	139				9220					
ART2	1/29/2007	25.71	117				9340	J-				
ART2	2/5/2007	26.46	109		<0.05	U	9540					
ART2	2/12/2007	26.46	131				9580					
ART2	2/19/2007	26.46	115				9370					
ART2	2/26/2007	26.46	108				9600					
ART2	3/6/2007	26.99	98.4				9500					
ART2	3/12/2007	26.99	102				9370					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART2	3/19/2007	26.99	115				9300					
ART2	3/26/2007	26.99	115				9370					
ART2	4/2/2007	27.17	107				9500					
ART2	4/9/2007	27.17	186				9470					
ART2	4/16/2007	27.17	114				9230					
ART2	4/23/2007	27.17	111				9080					
ART2	4/30/2007	27.17	102				9120					
ART2	5/7/2007	27.62	87.1		0.025		10600	J-				
ART2	5/14/2007	27.62	92.5				8850					
ART2	5/21/2007	27.62	90.5				8300					
ART2	5/29/2007	27.62	82.5				9880					
ART2	6/4/2007	26.37	89.2				9880					
ART2	6/11/2007	26.37	94.5				9480					
ART2	6/18/2007	26.37	82.1				9860					
ART2	6/25/2007	26.37	74.1				9720					
ART2	7/2/2007	28.13	82.4				9540					
ART2	7/10/2007	28.13	83.9				9430					
ART2	7/16/2007	28.13	91.8				9540					
ART2	7/23/2007	28.13	87.6				9820					
ART2	7/30/2007	28.13	79.3				9620					
ART2	8/6/2007	27.96	78.5				9560					
ART2	8/13/2007	27.96	69.4		0.021		8550					
ART2	8/20/2007	27.96	73.5				9140					
ART2	8/27/2007	27.96	79				9280					
ART2	9/4/2007	30.44	80				9200					
ART2	9/10/2007	30.44	75.6				9280					
ART2	9/17/2007	30.44	79.7				9200					
ART2	9/24/2007	30.44	75.4				9020					
ART3	1/3/2006	28.39	430	d								
ART3	1/9/2006	28.39	440	d								
ART3	1/16/2006	28.39	420	d								
ART3	1/23/2006	28.39	460	d								
ART3	1/30/2006	28.39	420	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART3	2/6/2006	28.55	460	d	0.22	d						
ART3	2/13/2006	28.55	470	d								
ART3	2/20/2006	28.55	450	d								
ART3	2/27/2006	28.55	430	d								
ART3	3/6/2006	38.53	490	d								
ART3	3/13/2006	38.53	440	d								
ART3	3/20/2006	38.53	490	d								
ART3	3/28/2006	38.53	490	d								
ART3	4/3/2006	29.16	480	d								
ART3	4/10/2006	29.16	490	d								
ART3	4/17/2006	29.16	440	d								
ART3	4/24/2006	29.16	330	d								
ART3	5/1/2006	39.55	437	d								
ART3	5/8/2006	39.55	412	d	0.21	d						
ART3	5/15/2006	39.55	443	d								
ART3	5/22/2006	39.55	430	d								
ART3	5/30/2006	39.55	416	d								
ART3	6/5/2006	39.61	423	d								
ART3	6/12/2006	39.61	438	d								
ART3	6/19/2006	39.61	400	d								
ART3	6/27/2006	39.61	393	d								
ART3	7/5/2006	29.33	399	d								
ART3	7/10/2006	29.33	381	d								
ART3	7/17/2006	29.33	349	d								
ART3	7/24/2006	29.33	368	d			8060					
ART3	7/31/2006	29.33	364	d			6440					
ART3	8/7/2006	29.42	392	d	0.22	d	6120					
ART3	8/15/2006	29.42	362	d			8510					
ART3	8/21/2006	29.42	394	d			6250					
ART3	8/28/2006	29.42	331	d			6500					
ART3	9/5/2006	28.56	432	d			8750					
ART3	9/11/2006	28.56	433	d			6210					
ART3	9/18/2006	28.56	419	d			6130					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART3	9/25/2006	28.56	429	d			8640					
ART3	10/2/2006	29.13	438	d			8900					
ART3	10/9/2006	29.13	396	d			9000					
ART3	10/16/2006	29.13	453	d			8260					
ART3	10/23/2006	29.13	400	d			8420					
ART3	10/30/2006	29.13	453	d			8420					
ART3	11/13/2006	27.31	399	d			8380					
ART3	11/20/2006	27.31	374	d			8960					
ART3	11/27/2006	27.31	397	d			8060					
ART3	12/4/2006	27.37	408	d			8660					
ART3	12/11/2006	27.37	417	d			8700					
ART3	12/18/2006	27.37	432				8480					
ART3	12/26/2006	27.37	391				8350					
ART3	1/2/2007	27.60	380				7330					
ART3	1/8/2007	27.60	448				8540					
ART3	1/15/2007	27.60	411				8510					
ART3	1/22/2007	27.60	463				8340					
ART3	1/29/2007	27.60	382				8780	J-				
ART3	2/5/2007	28.32	390		0.26		8700					
ART3	2/12/2007	28.32	424				8480					
ART3	2/19/2007	28.32	381				8370					
ART3	2/26/2007	28.32	361				8570					
ART3	3/6/2007	29.41	396				8540					
ART3	3/12/2007	29.41	340				8730					
ART3	3/19/2007	29.41	352				8580					
ART3	3/26/2007	29.41	367				8530					
ART3	4/2/2007	29.74	353				8900					
ART3	4/9/2007	29.74	238				8600					
ART3	4/16/2007	29.74	358				8260					
ART3	4/23/2007	29.74	347				8040					
ART3	4/30/2007	29.74	366				8060					
ART3	5/7/2007	30.65	319		0.23		88300	J-				
ART3	5/14/2007	30.65	335				7950					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART3	5/21/2007	30.65	308				8200					
ART3	5/29/2007	30.65	330				8760					
ART3	6/4/2007	30.99	312				8810					
ART3	6/11/2007	30.99	317				8460					
ART3	6/18/2007	30.99	314				8780					
ART3	6/25/2007	30.99	309				9040					
ART3	7/2/2007	31.21	347				8600					
ART3	7/10/2007	31.21	307				9000					
ART3	7/16/2007	31.21	331				9040					
ART3	7/23/2007	31.21	295				8900					
ART3	7/30/2007	31.21	321				9040					
ART3	8/6/2007	31.05	327				8570					
ART3	8/13/2007	31.05	284		0.23		7930					
ART3	8/20/2007	31.05	317				8720					
ART3	8/27/2007	31.05	320				8640					
ART3	9/4/2007	31.37	299				8460					
ART3	9/10/2007	31.37	302				8400					
ART3	9/17/2007	31.37	337				8180					
ART3	9/24/2007	31.37	332				8360					
ART4	1/3/2006	40.32	370	d								
ART4	1/9/2006	40.32	390	d								
ART4	1/16/2006	40.32	390	d								
ART4	1/23/2006	40.32	400	d								
ART4	1/30/2006	40.32	380	d								
ART4	2/6/2006	39.66	360	d	0.18	d						
ART4	2/13/2006	39.66	460	d								
ART4	2/20/2006	39.66	350	d								
ART4	2/27/2006	39.66	410	d								
ART4	3/6/2006	39.62	410	d								
ART4	3/13/2006	39.62	360	d								
ART4	3/20/2006	39.62	370	d								
ART4	3/28/2006	39.62	420	d								
ART4	4/3/2006	39.41	400	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART4	4/10/2006	39.41	413	d								
ART4	4/17/2006	39.41	374	d								
ART4	4/24/2006	39.41	340	d								
ART4	5/1/2006	39.22	363	d								
ART4	5/8/2006	39.22	344	d	0.16	d						
ART4	5/15/2006	39.22	354	d								
ART4	5/22/2006	39.22	330	d								
ART4	5/30/2006	39.22	348	d								
ART4	6/5/2006	27.45	366	d								
ART4	6/12/2006	27.45	361	d								
ART4	6/19/2006	27.45	340	d								
ART4	6/27/2006	27.45	317	d								
ART4	7/5/2006	38.81	329	d								
ART4	7/10/2006	38.81	316	d								
ART4	7/17/2006	38.81	309	d								
ART4	7/24/2006	38.81	317	d			5000					
ART4	7/31/2006	38.81	310	d			5150					
ART4	8/7/2006	39.59	405	d	0.18	d	6650					
ART4	8/15/2006	39.59	318	d			7460					
ART4	8/21/2006	39.59	327	d			5560					
ART4	8/28/2006	39.59	312	d			5700					
ART4	9/5/2006	39.61	378	d			7320					
ART4	9/11/2006	39.61	362	d			5430					
ART4	9/18/2006	39.61	381	d			5440					
ART4	9/25/2006	39.61	375	d			6410					
ART4	10/2/2006	27.14	376	d			7080					
ART4	10/9/2006	27.14	346	d			7080					
ART4	10/16/2006	27.14	407	d			6180					
ART4	10/23/2006	27.14	359	d			5550					
ART4	10/30/2006	27.14	395	d			6160					
ART4	11/13/2006	37.39	349	d			6400					
ART4	11/20/2006	37.39	328	d			6300					
ART4	11/27/2006	37.39	358	d			6570					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART4	12/4/2006	37.74	397	d			6500					
ART4	12/11/2006	37.74	386	d			6550					
ART4	12/18/2006	37.74	400				6550					
ART4	12/26/2006	37.74	373				6410					
ART4	1/2/2007	37.96	401				5950					
ART4	1/8/2007	37.96	419				6600					
ART4	1/15/2007	37.96	393				6520					
ART4	1/22/2007	37.96	426				6660					
ART4	1/29/2007	37.96	366				6410					
ART4	2/5/2007	39.38	356		0.23		6530					
ART4	2/12/2007	39.38	421				6550					
ART4	2/19/2007	39.38	373				6290					
ART4	2/26/2007	39.38	328				6460					
ART4	3/6/2007	39.59	334				6230					
ART4	3/12/2007	39.59	329				6380					
ART4	3/19/2007	39.59	339				6440					
ART4	3/26/2007	39.59	345				6280					
ART4	4/2/2007	39.65	332				6630					
ART4	4/9/2007	39.65	337				6470					
ART4	4/16/2007	39.65	342				6360					
ART4	4/23/2007	39.65	316				6420					
ART4	4/30/2007	39.65	359				6060					
ART4	5/7/2007	37.79	309		0.21		6550	J-				
ART4	5/14/2007	37.79	334				6440					
ART4	5/21/2007	37.79	330				6350					
ART4	5/29/2007	37.79	352				6430					
ART4	6/4/2007	38.63	303				6650					
ART4	6/11/2007	38.63	312				6340					
ART4	6/18/2007	38.63	291				6390					
ART4	6/25/2007	38.63	295				6500					
ART4	7/2/2007	38.68	288				6390					
ART4	7/10/2007	38.68	317				6450					
ART4	7/16/2007	38.68	330				6780					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART4	7/23/2007	38.68	316				6740					
ART4	7/30/2007	38.68	315				6470					
ART4	8/6/2007	39.62	295				6210					
ART4	8/13/2007	39.62	262		0.2		5760					
ART4	8/20/2007	39.62	282				6330					
ART4	8/27/2007	39.62	306				6230					
ART4	9/4/2007	39.19	307				6270					
ART4	9/10/2007	39.19	292				6100					
ART4	9/17/2007	39.19	304				6180					
ART4	9/24/2007	39.19	278				6240					
ART5	1/3/2006	24.54	110	d								
ART5	1/9/2006	24.54	110	d								
ART5	1/16/2006	24.54	110	d								
ART5	1/23/2006	24.54	100	d								
ART5	1/30/2006	24.54	110	d								
ART5	2/6/2006	25.17	99	d	0.12	d						
ART5	2/13/2006	25.17	110	d								
ART5	2/20/2006	25.17	100	d								
ART5	2/27/2006	25.17	105	d								
ART5	3/6/2006	25.12	110	d								
ART5	3/13/2006	25.12	100	d								
ART5	3/20/2006	25.12	110	d								
ART5	3/28/2006	25.12	110	d								
ART5	4/3/2006	25.28	110	d								
ART5	4/10/2006	25.28	154	d								
ART5	4/17/2006	25.28	217	d								
ART5	4/24/2006	25.28	129	d								
ART5	5/1/2006	25.44	104	d								
ART5	5/8/2006	25.44	103	d	0.36	d						
ART5	5/15/2006	25.44	102	d								
ART5	5/22/2006	25.44	110	d								
ART5	5/30/2006	25.44	110	d								
ART5	6/5/2006	25.82	109	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART5	6/12/2006	25.82	117	d								
ART5	6/27/2006	25.82	92.3	d								
ART5	7/5/2006	26.06	102	d								
ART5	7/10/2006	26.06	68.1	d								
ART5	11/13/2006	25.89	74.4	d			6350					
ART5	11/27/2006	25.89	83.7	d			7510					
ART5	12/4/2006	25.63	93.3	d			7520					
ART5	12/11/2006	25.63	99.1	d			8020					
ART5	12/18/2006	25.63	94.5				7530					
ART5	12/26/2006	25.63	91.2				6920					
ART5	1/2/2007	26.09	99.8				7330					
ART5	1/8/2007	26.09	111				7730					
ART6	1/3/2006	26.07	280	d								
ART6	1/9/2006	26.07	270	d								
ART6	1/16/2006	26.07	290	d								
ART6	1/23/2006	26.07	280	d								
ART6	1/30/2006	26.07	280	d								
ART6	2/6/2006	30.99	260	d	0.84	d						
ART6	2/13/2006	30.99	280	d								
ART6	2/20/2006	30.99	310	d								
ART6	2/27/2006	30.99	280	d								
ART6	3/6/2006	30.58	300	d								
ART6	3/13/2006	30.58	290	d								
ART6	3/20/2006	30.58	280	d								
ART6	3/28/2006	30.58	300	d								
ART6	4/3/2006	31.37	290	d								
ART6	4/10/2006	31.37	348	d								
ART6	4/17/2006	31.37	293	d								
ART6	4/24/2006	31.37	341	d								
ART6	5/1/2006	27.88	302	d								
ART6	5/9/2006	27.88	300	d	0.69	d						
ART6	5/15/2006	27.88	285	d								
ART6	5/22/2006	27.88	305	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART6	5/30/2006	27.88	299	d								
ART6	6/5/2006	31.03	307	d								
ART6	6/12/2006	31.03	306	d								
ART6	6/19/2006	31.03	282	d								
ART6	6/27/2006	31.03	276	d								
ART6	7/5/2006	30.28	276	d								
ART6	7/10/2006	30.28	277	d								
ART6	7/17/2006	30.28	272	d								
ART6	7/24/2006	30.28	268	d			5500					
ART6	7/31/2006	30.28	273	d			5460					
ART6	8/7/2006	27.43	296	d	0.63	d	6050					
ART6	8/15/2006	27.43	290	d			5790					
ART6	8/21/2006	27.43	332	d			6270					
ART6	8/28/2006	27.43	289	d			5930					
ART6	9/5/2006	27.54	203	d			7410					
ART6	9/12/2006	27.54	239	d			5830					
ART6	9/18/2006	27.54	126	d			6010					
ART6	9/25/2006	27.54	124	d			7820					
ART6	10/2/2006	28.09	183	d			7450					
ART6	10/9/2006	28.09	138	d			7440					
ART6	10/16/2006	28.09	116	d			7280					
ART6	10/23/2006	28.09	97	d			5900					
ART6	10/30/2006	28.09	101	d			7040					
ART6	11/13/2006	27.63	106	d			7390					
ART6	11/20/2006	27.63	83.5	d			7690					
ART6	11/27/2006	27.63	88.5	d			7570					
ART6	12/4/2006	27.72	156	d			7100					
ART6	12/11/2006	27.72	133	d			7880					
ART6	12/18/2006	27.72	131				6910					
ART6	12/26/2006	27.72	95.3				7400					
ART6	1/2/2007	28.23	94.5				7120					
ART6	1/8/2007	28.23	99.2				7620					
ART6	1/15/2007	28.23	92.7				7460					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART6	1/22/2007	28.23	102				7610					
ART6	1/29/2007	28.23	76.8				7500					
ART6	2/5/2007	28.41	86		0.19		7790					
ART6	2/12/2007	28.41	95.5				7640					
ART6	2/19/2007	28.41	79.7				7590					
ART6	2/26/2007	28.41	77.1				7640					
ART6	3/6/2007	29.18	306				7520					
ART6	3/12/2007	29.18	292				7820					
ART6	3/19/2007	29.18	111				7500					
ART6	3/26/2007	29.18	80.8				7300					
ART6	4/2/2007	29.31	70.1				7600					
ART6	4/9/2007	29.31	77.5				7370					
ART6	4/16/2007	29.31	81.7				7370					
ART6	4/23/2007	29.31	75.7				7430					
ART6	4/30/2007	29.31	81.1				6900					
ART6	5/7/2007	29.22	70.7		0.3		6870					
ART6	5/14/2007	29.22	78.8				7370					
ART6	5/21/2007	29.22	86.9				7100					
ART6	5/29/2007	29.22	77.3				8010					
ART6	6/4/2007	29.49	73.9				7700					
ART6	6/11/2007	29.49	75.3				7530					
ART6	6/18/2007	29.49	80.9				7660					
ART6	6/25/2007	29.49	75.9				7500					
ART6	7/2/2007	29.74	79.4				5660					
ART6	7/10/2007	29.74	85.5				7260					
ART6	7/16/2007	29.74	78.5				7820					
ART6	7/23/2007	29.74	65.6				7680					
ART6	7/30/2007	29.74	82.6				7560					
ART6	8/6/2007	30.43	82.3				7360					
ART6	8/13/2007	30.43	74.6		0.22		6580					
ART6	8/20/2007	30.43	77.7				7430					
ART6	8/27/2007	30.43	83.1				7280					
ART6	9/4/2007	30.17	76.8				7460					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART6	9/10/2007	30.17	71.5				7150					
ART6	9/17/2007	30.17	86				7390					
ART6	9/24/2007	30.17	83.3				7310					
ART7	1/3/2006	27.23	120	d								
ART7	1/9/2006	27.23	120	d								
ART7	1/16/2006	27.23	120	d								
ART7	1/23/2006	27.23	130	d								
ART7	1/30/2006	27.23	140	d								
ART7	2/6/2006	27.49	130	d	0.57	d						
ART7	2/13/2006	27.49	130	d								
ART7	2/20/2006	27.49	140	d								
ART7	2/27/2006	27.49	130	d								
ART7	3/6/2006	27.81	140	d								
ART7	3/13/2006	27.81	140	d								
ART7	3/20/2006	27.81	140	d								
ART7	3/28/2006	27.81	150	d								
ART7	4/3/2006	28.24	150	d								
ART7	4/10/2006	28.24	177	d								
ART7	4/17/2006	28.24	163	d								
ART7	4/24/2006	28.24	185	d								
ART7	5/1/2006	27.36	163	d								
ART7	5/8/2006	27.36	136	d	0.56	d						
ART7	5/15/2006	27.36	145	d								
ART7	5/22/2006	27.36	150	d								
ART7	5/30/2006	27.36	150	d								
ART7	6/5/2006	27.79	167	d								
ART7	6/12/2006	27.79	177	d								
ART7	6/19/2006	27.79	172	d								
ART7	6/27/2006	27.79	156	d								
ART7	7/5/2006	29.42	172	d								
ART7	7/10/2006	29.42	141	d								
ART7	7/17/2006	29.42	181	d								
ART7	7/24/2006	29.42	157	d			8880					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART7	7/31/2006	29.42	173	d			8210					
ART7	8/7/2006	27.54	197	d	0.18	d	8810					
ART7	8/15/2006	27.54	169	d			8710					
ART7	8/21/2006	27.54	179	d			8550					
ART7	8/28/2006	27.54	162	d			9100					
ART7	9/5/2006	28.12	203	d			9760					
ART7	9/11/2006	28.12	186	d			8900					
ART7	9/18/2006	28.12	166	d			8410					
ART7	9/25/2006	28.12	182	d			10330					
ART7	10/2/2006	28.64	177	d			10300					
ART7	10/9/2006	28.64	153	d			9940					
ART7	10/16/2006	28.64	178	d			9660					
ART7	10/23/2006	28.64	154	d			9440					
ART7	10/30/2006	28.64	159	d			9620					
ART7	11/13/2006	28.11	140	d			9640					
ART7	11/20/2006	28.11	137	d			9880					
ART7	11/27/2006	28.11	147	d			9760					
ART7	12/4/2006	28.22	171	d			9600					
ART7	12/11/2006	28.22	165	d			10020					
ART7	12/18/2006	28.22	151				8730					
ART7	12/26/2006	28.22	137				9330					
ART7	1/2/2007	28.80	151				9000					
ART7	1/8/2007	28.80	165				9700					
ART7	1/15/2007	28.80	158				9270					
ART7	1/22/2007	28.80	165				9760					
ART7	1/29/2007	28.80	142				9980	J-				
ART7	2/5/2007	28.98	146		0.69		8980					
ART7	2/12/2007	28.98	164				9840					
ART7	2/19/2007	28.98	150				9520					
ART7	2/26/2007	28.98	140				9860					
ART7	3/6/2007	29.64	130				9520					
ART7	3/12/2007	29.64	123				10000					
ART7	3/19/2007	29.64	134				10300					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART7	3/26/2007	29.64	132				10400					
ART7	4/2/2007	29.88	129				10300					
ART7	4/9/2007	29.88	127				10200					
ART7	4/16/2007	29.88	136				10700					
ART7	4/23/2007	29.88	134				10100					
ART7	4/30/2007	29.88	148				10300					
ART7	5/7/2007	29.78	123		0.65		10600	J-				
ART7	5/14/2007	29.78	138				8850					
ART7	5/21/2007	29.78	137				9800					
ART7	5/29/2007	29.78	140				10800					
ART7	6/4/2007	30.09	133				11800					
ART7	6/11/2007	30.09	132				10600					
ART7	6/18/2007	30.09	125				10600					
ART7	6/25/2007	30.09	128				10800					
ART7	7/2/2007	30.34	131				10300					
ART7	7/10/2007	30.34	135				10900					
ART7	7/16/2007	30.34	145				10600					
ART7	7/23/2007	30.34	133				10400					
ART7	7/30/2007	30.34	136				10200					
ART7	8/6/2007	30.56	130				10100					
ART7	8/13/2007	30.56	120		0.64		8700					
ART7	8/20/2007	30.56	123				9680					
ART7	8/27/2007	30.56	135				9780					
ART7	9/4/2007	31.34	137				9860					
ART7	9/10/2007	31.34	123				10000					
ART7	9/17/2007	31.34	134				9640					
ART8	1/3/2006	27.01	390	d								
ART8	1/9/2006	27.01	360	d								
ART8	1/16/2006	27.01	370	d								
ART8	1/23/2006	27.01	400	d								
ART8	1/30/2006	27.01	370	d								
ART8	2/6/2006	26.82	390	d	0.19	d						
ART8	2/13/2006	26.82	180	d								

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ART8	2/20/2006	26.82	380	d								
ART8	2/27/2006	26.82	360	d								
ART8	3/6/2006	27.27	390	d								
ART8	3/13/2006	27.27	390	d								
ART8	3/20/2006	27.27	410	d								
ART8	3/28/2006	27.27	420	d								
ART8	4/3/2006	27.63	380	d								
ART8	4/10/2006	27.63	428	d								
ART8	4/17/2006	27.63	417	d								
ART8	4/24/2006	27.63	417	d								
ART8	5/1/2006	30.64	356	d								
ART8	5/8/2006	30.64	340	d	0.17	d						
ART8	5/15/2006	30.64	370	d								
ART8	5/22/2006	30.64	350	d								
ART8	5/30/2006	30.64	361	d								
ART8	6/5/2006	31.61	391	d								
ART8	6/12/2006	31.61	374	d								
ART8	6/19/2006	31.61	372	d								
ART8	6/27/2006	31.61	333	d								
ART8	7/5/2006	31.52	335	d								
ART8	7/10/2006	31.52	326	d								
ART8	7/17/2006	31.52	324	d								
ART8	7/24/2006	31.52	311	d			8770					
ART8	7/31/2006	31.52	279	d			8430					
ART8	8/7/2006	31.33	338	d	0.84	d	9100					
ART8	8/15/2006	31.33	314	d			8900					
ART8	8/21/2006	31.33	361	d			8990					
ART8	8/28/2006	31.33	291	d			8100					
ART8	9/5/2006	30.83	367	d			9690					
ART8	9/11/2006	30.83	371	d			9410					
ART8	9/18/2006	30.83	349	d			8630					
ART8	9/25/2006	30.83	362	d			9890					
ART8	10/2/2006	30.51	356	d			10300					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART8	10/9/2006	30.51	313	d			9320					
ART8	10/16/2006	30.51	392	d			9560					
ART8	10/23/2006	30.51	327	d			9400					
ART8	10/30/2006	30.51	343	d			9320					
ART8	11/13/2006	26.06	298	d			9520					
ART8	11/20/2006	26.06	287	d			10280					
ART8	11/27/2006	26.06	297	d			9600					
ART8	12/4/2006	26.26	327	d			9660					
ART8	12/11/2006	26.26	328	d			9640					
ART8	12/18/2006	26.26	318				8800					
ART8	12/26/2006	26.26	295				8970					
ART8	1/2/2007	26.10	324				8970					
ART8	1/8/2007	26.10	346				9700					
ART8	1/15/2007	26.10	329				9430					
ART8	1/22/2007	26.10	372				9630					
ART8	1/29/2007	26.10	303				9420					
ART8	2/5/2007	26.79	293		0.2		9840					
ART8	2/12/2007	26.79	355				9660					
ART8	2/19/2007	26.79	317				9660					
ART8	2/26/2007	26.79	296				9380					
ART8	3/6/2007	27.33	289				8620					
ART8	3/12/2007	27.33	291				9780					
ART8	3/19/2007	27.33	299				9670					
ART8	3/26/2007	27.33	318				9700					
ART8	4/2/2007	26.82	302				9970					
ART8	4/9/2007	26.82	304				9900					
ART8	4/16/2007	26.82	321				9570					
ART8	4/23/2007	26.82	296				9700					
ART8	4/30/2007	26.82	294				9120					
ART8	5/7/2007	27.51	252		0.17		10040	J-				
ART8	5/14/2007	27.51	272				8100					
ART8	5/21/2007	27.51	263				9650					
ART8	5/29/2007	27.51	260				9740					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART8	6/4/2007	32.36	237				10700					
ART8	6/11/2007	32.36	254				9640					
ART8	6/18/2007	32.36	251				10000					
ART8	6/25/2007	32.36	249				9800					
ART8	7/2/2007	32.64	239				9660					
ART8	7/10/2007	32.64	250				10200					
ART8	7/16/2007	32.64	274				10000					
ART8	7/23/2007	32.64	263				9900					
ART8	7/30/2007	32.64	273				10000					
ART8	8/6/2007	32.57	245				9340					
ART8	8/13/2007	32.57	218		0.16		9550					
ART8	8/20/2007	32.57	240				9640					
ART8	8/27/2007	32.57	247				9400					
ART8	9/4/2007	32.89	233				9420					
ART8	9/10/2007	32.89	241				9480					
ART8	9/17/2007	32.89	244				9500					
ART8	9/24/2007	32.89	236				9200					
ART9	9/11/2006	28.15	385	d			6110					
ART9	9/18/2006	28.15	380	d			6100					
ART9	9/25/2006	28.15	373	d			7950					
ART9	10/2/2006	28.78	378	d			8010					
ART9	10/9/2006	28.78	312	d			7540					
ART9	10/16/2006	28.78	369	d			7530					
ART9	10/23/2006	28.78	361	d			6610					
ART9	10/30/2006	28.78	375	d			7660					
ART9	11/13/2006	28.21	325	d			6820					
ART9	11/20/2006	28.21	319	d			7790					
ART9	11/27/2006	28.21	327	d			7480					
ART9	12/4/2006	28.46	347	d			7700					
ART9	12/11/2006	28.46	320	d			8240					
ART9	12/18/2006	28.46	325				7740					
ART9	12/26/2006	28.46	307				7250					
ART9	1/2/2007	29.14	342				7600					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
ART9	1/8/2007	29.14	350				7630					
ART9	1/15/2007	29.14	344				7670					
ART9	1/22/2007	29.14	373				7740					
ART9	1/29/2007	29.14	329				7170					
ART9	2/5/2007	29.18	332		1.1		7780					
ART9	2/12/2007	29.18	330				7610					
ART9	2/19/2007	29.18	332				7490					
ART9	2/26/2007	29.18	300				7640					
ART9	3/7/2007	30.31	299				7390					
ART9	3/12/2007	30.31	302				7920					
ART9	3/19/2007	30.31	302				7720					
ART9	3/26/2007	30.31	306				7740					
ART9	4/2/2007	30.62	333				6100					
ART9	4/9/2007	30.62	318				7910					
ART9	4/16/2007	30.62	311				7530					
ART9	4/23/2007	30.62	320				7260					
ART9	4/30/2007	30.62	315				7440					
ART9	5/7/2007	30.36	307		1.1		6890					
ART9	5/14/2007	30.36	330				6550					
ART9	5/21/2007	30.36	321				6100					
ART9	5/29/2007	30.36	322				7990					
ART9	6/4/2007	30.81	324				8430					
ART9	6/11/2007	30.81	310				7720					
ART9	6/18/2007	30.81	309				7800					
ART9	6/25/2007	30.81	307				7990					
ART9	7/2/2007	31.22	320				8240					
ART9	7/10/2007	31.22	330				7800					
ART9	7/16/2007	31.22	343				8190					
ART9	7/23/2007	31.22	333				8350					
ART9	7/30/2007	31.22	342				7990					
ART9	8/6/2007	31.53	340				8100					
ART9	8/13/2007	31.53	314		1.1		7140					
ART9	8/20/2007	31.53	320				7770					

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ART9	8/27/2007	31.53	340				7780					
ART9	9/4/2007	33.09	341				7740					
ART9	9/10/2007	33.09	306				7660					
ART9	9/17/2007	33.09	343				7700					
ART9	9/24/2007	33.09	287				7900					
CLD-1R	5/9/2007	28.60	6.64		0.94		4040					
CLD-2R	5/9/2007	33.24	4.01		0.48		17600					
H-11	5/6/2006	75.47	0.32				1750					
H-11	5/3/2007	76.58	<0.01	U			990					
H-28A	5/2/2006	---	6.8	d	<0.01	ud	6130					
H-28A	8/1/2006	---	6.85	d	<0.01	ud	6740					
H-28A	5/2/2007	---	8.17		<0.02	U	6250					
H-28A	7/31/2007	---	9.79		<0.02	U	7240					
H-48	5/5/2006	29.90	0.24	d			16500					
H-48	5/5/2006	---	<0.004	ud			18300					
H-48	5/3/2007	24.43	0.177				10300					
HMW-13	5/4/2006	18.16	<0.004	ud			1900					
HMW-13	5/2/2007	15.52	<0.004	u			2140					
HMW-14	5/4/2006	20.34	4	d			6260					
HMW-14	5/2/2007	16.72	<0.01	U			1500					
HMW-15	5/4/2006	13.01	0.013	d			3420					
HMW-15	5/2/2007	12.81	0.028				3850					
HMW-16	5/5/2006	13.51	2	d			8440					
HMW-16	5/2/2007	9.14	4.15				4600					
HMW-9	5/2/2006	11.18	1.2	d			3080					
HMW-9	4/30/2007	12.38	0.771				3270					
I-AR	2/2/2006	27.04	2800	d	0.023	d						
I-AR	5/2/2006	28.10	2800	d	<0.01	ud	5830					
I-AR	8/1/2006	28.64	2630	d	0.058	d	5090					
I-AR	1/30/2007	28.78	3120		0.14		5940					
I-AR	5/1/2007	42.33	3670		0.53		6850					
I-AR	7/31/2007	41.99	4020		0.49		6850					
I-B	1/31/2006	30.61	2100	d	0.33	d						

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I-B	5/2/2006	30.40	3000	d	0.38	d	5740					
I-B	8/1/2006	31.18	2270	d	0.26	d	5980					
I-B	10/31/2006	32.91	1720	d	0.14		5860					
I-B	1/30/2007	34.29	1280		0.15		5230					
I-B	5/1/2007	35.51	900		0.15		5120					
I-B	7/31/2007	36.22	1150		0.22		4930					
I-C	1/31/2006	29.66	1400	d	5.2	d						
I-C	5/2/2006	27.95	1500	d	4.8	d	5920					
I-C	8/1/2006	29.54	1240	d	4.7	d	6240					
I-C	10/31/2006	32.75	1340	d	5.5		8780					
I-C	1/30/2007	44.40	1100		5.5		8390					
I-C	5/1/2007	42.82	939		4.9		7420					
I-C	7/31/2007	43.22	1200		4.4		7400					
I-D	1/31/2006	27.31	1100	d	9.7	d						
I-D	5/2/2006	27.32	1100	d	7.9	d	6150					
I-D	8/1/2006	28.44	813	d	10	d	6380					
I-D	10/31/2006	28.79	1070	d	9.2		9330					
I-D	1/30/2007	29.42	950		8.8		8880					
I-D	5/1/2007	31.75	936		9.1		7850					
I-D	7/31/2007	39.93	1000		9.4		8820					
I-E	1/31/2006	28.58	1400	d	11	d						
I-E	5/2/2006	32.81	1100	d	11	d	5880					
I-E	8/1/2006	44.90	945	d	12	d	6590					
I-E	10/31/2006	44.26	1000	d	12		11240					
I-E	1/30/2007	44.06	789		12		9830					
I-E	5/1/2007	44.45	835		13		4880					
I-E	7/31/2007	44.37	1070		13		10300					
I-F	1/31/2006	24.38	1800	d	26	d						
I-F	5/2/2006	24.68	2000	d	23	d	10900					
I-F	8/1/2006	25.47	1750	d	25	d	10200					
I-F	10/31/2006	25.73	1630	d	25		15980					
I-F	1/30/2007	26.26	1390		24		14100					
I-F	5/1/2007	27.23	1170		26		15500					

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I-F	7/31/2007	27.76	1450		26		15600					
I-H	1/31/2006	30.96	2400	d	34	d						
I-H	5/2/2006	32.17	1900	d	32	d	10500					
I-H	8/1/2006	32.84	1520	d	33	d	12700					
I-H	10/31/2006	33.61	1880	d	32	d	19620					
I-H	1/30/2007	41.19	1640		29		16870					
I-H	5/1/2007	32.20	842		18		11200					
I-H	7/31/2007	42.11	923		16		10500					
I-I	2/2/2006	22.10	1000	d	21	d						
I-I	5/3/2006	22.41	1000	d	21	d	8160					
I-I	8/2/2006	23.15	843	d	22	d	8550					
I-I	11/1/2006	24.14	957	d	22	d	11600					
I-I	1/31/2007	23.77	947		22		13000					
I-I	5/4/2007	23.68	847		21		10600					
I-I	8/1/2007	24.24	1140		20		13400					
I-J	2/2/2006	27.48	230	d	2.4	d						
I-J	5/3/2006	28.95	150	d	2.4	d	4130					
I-J	8/2/2006	30.99	184	d	2.4	d	4420					
I-J	11/1/2006	42.15	191	d	2.3	d	5940					
I-J	1/31/2007	28.06	165		2.4		5280					
I-J	5/4/2007	30.42	180		2.4		6620					
I-J	8/1/2007	42.22	204		2.4		6260					
I-K	2/2/2006	26.27	76	d	1.2	d						
I-K	5/3/2006	31.65	61	d	1.1	d	4270					
I-K	8/2/2006	27.00	64.4	d	1.1	d	4340					
I-K	11/1/2006	36.33	61.1	d	1.1	d	5650					
I-K	1/31/2007	23.96	54		1		5600					
I-K	5/4/2007	32.37	61.9		1		5540					
I-K	8/1/2007	36.40	55.8		0.97		5650					
I-L	1/31/2006	28.33	1700	d	1.3	d						
I-L	5/2/2006	27.39	1500	d	1.1	d	6650					
I-L	8/1/2006	29.68	1200	d	1	d	5560					
I-L	10/31/2006	30.82	1940	d	0.77		6680					

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I-L	1/30/2007	35.67	1900		0.66		6820					
I-L	5/1/2007	35.23	1780		0.67		6850					
I-L	7/31/2007	32.02	2160		0.8		6740					
I-M	1/31/2006	29.08	850	d	12	d						
I-M	5/2/2006	29.09	730	d	12	d	5460					
I-M	8/1/2006	28.81	612	d	13	d	6370					
I-M	10/31/2006	29.84	700	d	12		11040					
I-M	1/30/2007	30.10	600		12		8700					
I-M	5/1/2007	39.05	660		12		9200					
I-M	7/31/2007	39.36	886		11		10200					
I-N	1/31/2006	27.17	2100	d	14	d						
I-N	5/2/2006	26.95	1800	d	14	d	8630					
I-N	8/1/2006	27.58	1850	d	15	d	7300					
I-N	10/31/2006	28.11	1610	d	14		12000					
I-N	1/30/2007	29.08	1550		13		11400					
I-N	5/1/2007	29.50	1590		15		12800					
I-N	7/31/2007	30.43	1700		15		12400					
I-O	1/31/2006	30.78	1900	d	28	d						
I-O	5/2/2006	31.01	1900	d	27	d	10600					
I-O	8/1/2006	32.21	1660	d	27	d	12300					
I-O	10/31/2006	35.12	2060	d	27	d	17840					
I-O	1/30/2007	36.64	1850		28		14930					
I-O	5/1/2007	31.82	1690		29		14900					
I-O	7/31/2007	37.80	1910		29		16400					
I-P	1/31/2006	29.87	1900	d	34	d						
I-P	5/2/2006	30.31	1900	d	30	d	11700					
I-P	8/1/2006	31.80	1710	d	34	d	15300					
I-P	10/31/2006	41.83	1980	d	31	d	19760					
I-P	1/30/2007	42.78	1760		29		15930					
I-P	5/1/2007	38.85	1630		31		15100					
I-P	7/31/2007	41.72	1860		29		17100					
I-Q	1/31/2006	29.78	1800	d	30	d						
I-Q	5/2/2006	33.22	1600	d	28	d	10900					

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I-Q	8/1/2006	30.97	1380	d	30	d	11600					
I-Q	10/31/2006	29.39	1680	d	32		21920					
I-Q	1/30/2007	28.73	1480		31		18000					
I-Q	5/1/2007	38.15	1390		31		17100					
I-Q	7/31/2007	34.34	1810		31		18000					
I-R	1/31/2006	32.37	2800	d	0.87	d						
I-R	5/2/2006	32.54	2300	d	0.96	d	6490					
I-R	8/1/2006	33.79	2030	d	0.82	d	5720					
I-R	10/31/2006	34.22	2880	d	0.55		7760					
I-R	1/30/2007	35.39	2560		0.4		8210					
I-R	5/1/2007	36.46	2480		0.37		7980					
I-R	7/31/2007	35.39	3060		0.44		7430					
I-S	1/31/2006	26.03	1500	d	2.2	d						
I-S	5/2/2006	27.15	1490	d	1.8	d	5890					
I-S	8/1/2006	26.40	1110	d	2.1	d	6350					
I-S	10/31/2006	28.48	1210	d	1.6		6420					
I-S	1/30/2007	43.97	1130		1.5		6120					
I-S	5/1/2007	40.92	981		1.5		6170					
I-S	7/31/2007	43.28	1160		1.9		5880					
I-T	1/31/2006	42.57	2200	d	29	d						
I-T	5/2/2006	41.65	1900	d	30	d	11800					
I-T	8/1/2006	47.80	1580	d	33	d	10600					
I-T	5/1/2007	29.20	932		16		10100					
I-T	7/31/2007	41.32	1920		30		17400					
I-U	1/31/2006	42.59	2000	d	26	d						
I-U	5/2/2006	38.33	1900	d	34	d	10600					
I-U	8/1/2006	40.99	1690	d	28	d	9320					
I-U	10/31/2006	39.53	1940	d	31	d	19960					
I-U	1/30/2007	37.07	1770		35		17200					
I-U	5/1/2007	37.05	1670		30		18100					
I-U	7/31/2007	33.41	1850		43		18000					
I-V	2/2/2006	29.34	1800	d	20	d						
I-V	5/3/2006	29.73	1800	d	21	d	9020					

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I-V	8/2/2006	30.68	1580	d	22	d	8770					
I-V	11/1/2006	31.33	1720	d	22	d	13760					
I-V	1/31/2007	31.51	1790		22		15000					
I-V	5/3/2007	31.32	1650	J	22		14000	J				
I-V	8/1/2007	32.04	2080		21		14500					
I-Z	2/2/2006	26.53	640	d	9.4	d						
I-Z	5/3/2006	30.00	560	d	9.4	d	6330					
I-Z	8/2/2006	28.44	620	d	10	d	6190					
I-Z	11/1/2006	34.00	646	d	10	d	8640					
I-Z	1/31/2007	33.97	646		9.8		6700					
I-Z	5/4/2007	32.61	530		10		8960					
I-Z	8/1/2007	33.12	654		9.5		9170					
L-635	1/11/2006	15.32	<0.004	u								
L-635	2/7/2006	15.36	<0.004	u	<0.01	ud						
L-635	3/6/2006	15.39	<0.004	u								
L-635	4/12/2006	15.47	<0.004	u								
L-635	5/11/2006	15.47	<0.004	ud	<0.01	ud						
L-635	6/13/2006	15.53	<0.004	ud								
L-635	7/11/2006	15.52	<0.004	ud								
L-635	8/9/2006	15.47	<0.004	ud	<0.01	ud	6270					
L-635	9/13/2006	15.24	<0.004	ud			6210					
L-635	10/10/2006	15.21	<0.004	ud			7040					
L-635	11/7/2006	15.04	<0.004	u	<0.01	ud	7140					
L-635	12/12/2006	15.12	<0.004	ud			7000					
L-635	1/10/2007	15.17	<0.004	u			6840					
L-635	2/7/2007	15.30	<0.01	U	<0.05	U	7300					
L-635	3/13/2007	15.36	<0.004	u			7360					
L-635	4/10/2007	15.44	<0.01	U			7240					
L-635	5/9/2007	15.51	<0.01	U	<0.02	U	6500					
L-635	6/12/2007	15.57	<0.01	U			7440					
L-635	7/11/2007	15.59	<0.004	u			7400					
L-635	8/14/2007	16.65	<0.01	U	<0.01	u	7230					
L-635	9/11/2007	13.91	<0.01	U			7350					

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L-637	1/10/2006	10.51	0.037	d								
L-637	2/7/2006	10.52	0.04	d	<0.01	ud						
L-637	3/6/2006	10.53	0.039	d								
L-637	4/12/2006	10.56	0.043	d								
L-637	5/11/2006	10.63	0.053	d	<0.01	ud						
L-637	6/13/2006	9.94	0.058	d								
L-637	7/11/2006	10.29	0.041	d								
L-637	8/9/2006	10.65	0.053	d	<0.01	ud	6490					
L-637	9/13/2006	10.49	0.068	d			6130					
L-637	10/10/2006	10.51	0.05	d			7340					
L-637	11/7/2006	10.33	0.029		<0.01	ud	7460					
L-637	12/12/2006	10.41	0.035	d			7020					
L-637	1/9/2007	10.43	0.044				6850					
L-637	2/7/2007	10.50	0.036		<0.02	U	7330					
L-637	3/13/2007	10.46	0.023				6960					
L-637	4/10/2007	10.54	0.021				7040					
L-637	5/10/2007	10.61	0.017		<0.02	U	7150					
L-637	6/12/2007	10.61	0.019				7040					
L-637	7/11/2007	10.64	0.022				7100					
L-637	8/14/2007	10.58	0.139		<0.01	u	6400					
L-637	9/11/2007	10.65	0.013				6690					
M-10	1/31/2006	48.03			0.9	d						
M-10	1/31/2006	48.03	23	d	0.89	d	3180		1.8	d		
M-10	5/2/2006	49.76	22	d	1	d	2660		<0.1	ud	195	d
M-10	8/2/2006	50.01			1.1	d			<0.1	ud		
M-10	8/2/2006	50.01	23.8	d	1.1	d	2510		1	d	420	d
M-10	10/31/2006	49.31			0.91	d			<0.1	ud		
M-10	10/31/2006	49.31	29.4	d	0.86	d	3160		2.61	d	252	d
M-10	1/31/2007	49.22	32		0.61		3190		2.8	d		
M-10	5/1/2007	49.63	25.6		0.71		3160		3.2		220	
M-10	8/2/2007	49.47	30.1		0.96		3260		3.6			
M-100	2/2/2006	26.00	110	d	0.62	d	2140					
M-100	5/4/2006	25.98	71	d	0.41	d						

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
M-100	8/3/2006	26.02	63.2	d	0.35	d	1670					
M-100	11/2/2006	26.27	54.8	d	0.29	d	1820					
M-100	2/1/2007	26.21	43.2		0.26		1680					
M-100	5/3/2007	26.77	12.9	J	0.24		546	J				
M-100	8/2/2007	28.66	37.5		0.19		1540					
M-101	2/2/2006	26.91	130	d	0.29	d						
M-101	5/4/2006	28.41	92	d	0.26	d	3960					
M-101	8/3/2006	28.54	71.5	d	0.19	d	3160					
M-101	11/2/2006	28.42	70.6	d	0.25	d	3940					
M-101	2/1/2007	28.55	97.8		0.35		3820					
M-101	5/3/2007	28.62	100	J	0.54		3390	J				
M-101	8/2/2007	30.37	103		0.47		3380					
M-102	2/2/2006	36.48	170	d	1.8	d						
M-102	5/4/2006	36.91	130	d	1.4	d	2420					
M-102	8/3/2006	37.33	123	d	1.4	d	7860					
M-102	11/2/2006	37.59	110	d	1.1	d	2020					
M-102	2/1/2007	37.76	84.9		0.98		1840					
M-102	5/3/2007	38.05	92.1	J	1		1920	J				
M-102	8/2/2007	39.38	147		1.3		2330					
M103	5/4/2007	72.46	0.298		0.054		1960					
M-11	2/2/2006	42.69	52	d	2.8	d	3660					
M-11	5/3/2006	43.29	43	d	2.7	d	2980		<0.1	ud	460	d
M-11	8/2/2006	43.50	31.4	d	2.8	d	2700		1.3	d	230	d
M-11	10/31/2006	43.51	33.4	d	2.7	d	3260		3.86	d	487	d
M-11	1/31/2007	43.50	30.6		3		3380					
M-11	5/2/2007	43.51	25.1		2.7		3180		3.01		434	
M-11	8/2/2007	43.82	33.9		2.6		3400					
M-115	2/3/2006	37.60	11	d	0.11	d						
M-115	5/5/2006	37.63	13	d	0.038	d	2760					
M-115	8/4/2006	37.84	16.9	d	0.37	d	2390					
M-115	11/3/2006	37.19	19.4	d	0.038	d	2660					
M-115	2/2/2007	37.20	20.8		0.04		2650					
M-115	5/4/2007	37.74	24.4		0.049		2630					

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M-115	8/3/2007	38.47	32		0.036		2900					
M117	5/3/2006	79.41	<0.004	u	<0.01	ud	772					
M117	5/4/2007	78.07	<0.01	U	<0.02	U	716					
M118	5/3/2006	75.61	4.39	d	0.024	d	728					
M118	5/4/2007	73.80	<0.01	U	0.041		802					
M120	5/4/2007	80.41	0.477		<0.02	U	2090					
M121	5/3/2006	78.12	0.051		0.03	d	2940					
M121	5/4/2007	78.03	1.1		0.1		2810					
M-12A	2/2/2006	---	360	d	13	d	10230					
M-12A	5/4/2006	---	340	d	12	d	8760		<0.1	ud	2600	d
M-12A	8/2/2006	---	312	d	12	d	5640		13	d	1260	d
M-12A	11/1/2006	---	288	d	12	d	7270		14.1	d	2540	d
M-12A	2/1/2007	---	291		12		7820					
M-12A	5/3/2007	---	283	J	12		7910	J	18.2	d	1980	d
M-12A	8/1/2007	---	320		13		7890					
M-13	5/3/2006	---	27	d	1.8	d	2680		<0.1	ud	390	d
M-13	5/3/2007	---	18.6	J	0.8		3310	J	5.64	d	255	d
M-14A	2/3/2006	31.87	26	d	0.082	d						
M-14A	5/5/2006	32.01	29	d	0.067	d	3370					
M-14A	8/4/2006	32.41	31.8	d	1	d	4400					
M-14A	11/3/2006	32.08	32.6	d	0.063	d	3280					
M-14A	2/2/2007	32.56	29.7		0.065		3390					
M-14A	5/4/2007	32.65	29.8		0.081		3490					
M-14A	8/3/2007	33.31	32.2		0.053		3370					
M-17A	2/3/2006	32.38	860	d	28	d						
M-17A	5/5/2006	32.64	810	d	29	d	16200					
M-17A	8/4/2006	33.02	788	d	29	d	10400					
M-17A	11/3/2006	33.04	775	d	28	d	13830					
M-17A	2/2/2007	32.91	788		28		14300					
M-17A	5/4/2007	32.99	671		28		12800					
M-17A	8/3/2007	33.41	974		27		13800	J-				
M-19	2/2/2006	31.67	1	d	0.2	d						
M-19	5/3/2006	33.14	0.96	d	0.19	d	2950					

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M-19	8/2/2006	34.11	0.91	d	0.22	d	2650					
M-19	11/1/2006	35.72	1.83	d	0.32	d	3670					
M-19	1/31/2007	34.92	1.9		0.29		3740					
M-19	5/2/2007	34.51	1.91		0.34		3720					
M-19	8/1/2007	34.93	2.49		0.38		4820					
M-21	5/3/2006	---	32	d	1.5	d	3650					
M-21	5/2/2007	---	3.05		1.4		3460					
M-22A	2/2/2006	---	1800	d	30	d						
M-22A	5/4/2006	---	2000	d	30	d	11600					
M-22A	8/4/2006	---	2000		30	d	10400					
M-22A	11/3/2006	---	1930	d	31	d	19530					
M-22A	2/1/2007	---	1790		30		15900					
M-22A	5/4/2007	---	1650		31		14100					
M-22A	8/3/2007	---	1800		30		17000					
M-23	1/30/2006	24.98	620	d	1.1	d						
M-23	5/1/2006	24.91	560	d	1	d	4010	30	d	421	d	
M-23	7/31/2006	24.92	462	d	0.97	d	3970	37	d	425	d	
M-23	10/30/2006	25.01	505	d	0.92	d	4750	52.5	d	387	d	
M-23	1/29/2007	24.99	449		0.82		5710					
M-23	4/30/2007	25.16	436		0.88		4320	56.8		384		
M-23	7/30/2007	25.75	391		0.75		4550					
M-25	2/3/2006	30.93	740	d	11	d						
M-25	5/4/2006	31.15						3.3	d			
M-25	5/4/2006	31.15	550	d	11	d	9980	28	d	3100	d	
M-25	8/1/2006	32.06	488	d	11	d	6940	7.8	d	3200	d	
M-25	11/2/2006	32.18	617	d	12	d	9800	28.2	d	3400	d	
M-25	1/30/2007	32.55	523		12		9280					
M-25	5/1/2007	32.97	495		12		9380	11.9		3440		
M-25	7/31/2007	33.28	492		12		9400					
M-29	5/3/2007	34.77	1.88		0.041	d	4970	4.33	d	3.01	d	
M-2A	5/5/2006	---	430	d	18	d	12100					
M-2A	5/4/2007	---	362		17		10200					
M-31A	2/2/2006	46.07	1800	d	13	d						

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M-31A	5/3/2006	46.41	1700	d	13	d	8030					
M-31A	8/2/2006	46.56	1410	d	12	d	6300					
M-31A	11/1/2006	47.03	1750	d	13	d	9780					
M-31A	1/31/2007	46.43	1490		13		9710					
M-31A	5/2/2007	46.05	1400		13		8750					
M-31A	8/1/2007	46.84	1710		11		9330					
M-34	2/2/2006	---	1800	d	17	d						
M-34	5/3/2006	---	1700	d	18	d	8960					
M-34	5/7/2006	40.86	1950	d			14500					
M-34	8/2/2006	---	1550	d	18	d	7430					
M-34	11/1/2006	---	1910	d	18	d	10900					
M-34	1/31/2007	---	1860		17		12000					
M-34	5/2/2007	37.52	1670		17		9850					
M-34	8/1/2007	---	2130		16		11900					
M-35	2/2/2006	34.73	810	d	9.4	d						
M-35	5/3/2006	35.02	550	d	9.8	d	6090					
M-35	5/7/2006	38.68	945	d			9610					
M-35	5/7/2006	38.68	777	d			9670					
M-35	8/2/2006	35.54	694	d	11	d	6240					
M-35	11/1/2006	35.67	785	d	12	d	9070					
M-35	1/31/2007	35.74	650		12		9530					
M-35	5/2/2007	35.52	408		6.2		6090					
M-35	8/1/2007	35.97	407		9.4		7280					
M-36	2/2/2006	31.09	1800	d	36	d	10					
M-36	5/4/2006	31.31	1900	d	35	d	15300		<0.1	ud	7190	d
M-36	8/3/2006	30.85	1900	d	36	d	19200		49.7	d	3890	d
M-36	11/2/2006	31.90	1830	d	36	d	18260		50.8	d	7790	d
M-36	2/1/2007	31.95	1690		35		17850					
M-36	5/3/2007	32.08	1510	J	34		15400	J	59.4	d	6620	d
M-36	8/2/2007	33.42	1800		33		17500					
M-37	2/2/2006	30.35	3000	d	0.035	d	7060					
M-37	5/4/2006	30.68	2900	d	0.029	d	7400		95	d	20	d
M-37	8/1/2006	31.00	2850	d	0.029	d	5790		73	d	16.4	d

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M-37	11/2/2006	31.08	3150	d	0.028	d	6670		85.3	d	22.5	d
M-37	1/30/2007	31.25	2970		0.03		5330					
M-37	5/1/2007	31.62	3310		0.032		6180		84.1		19.2	
M-37	7/31/2007	32.05	2590		0.033		5950	J-				
M-38	2/2/2006	30.23	1200	d	29	d						
M-38	5/4/2006	30.51	1100	d	28	d	9450					
M-38	8/3/2006	31.65	1010	d	29	d	13300					
M-38	11/2/2006	31.01	973	d	29	d	15300					
M-38	2/1/2007	31.03	955		28		14500					
M-38	5/4/2007	31.13	863		26		13500					
M-38	8/3/2007	31.43	906		26		14600					
M-39	2/2/2006	30.42	380	d	4	d						
M-39	5/3/2006	30.36	320	d	3.7	d	4300		2.6	d	1100	d
M-39	8/2/2006	31.20	320	d	4.3	d	4560		3.5	d	1220	d
M-39	11/1/2006	31.53	400	d	4.5	d	6310		10.8	d	1370	d
M-39	1/31/2007	31.78	390		4.5		6730					
M-39	5/2/2007	31.67	403		4.7		6990		10.3		1380	
M-39	8/1/2007	32.10	489		4.6		7280					
M-44	1/30/2006	18.64	910	d	0.98	d	8360					
M-44	5/1/2006	18.61	810	d	0.99	d	5980					
M-44	7/31/2006	18.48	783	d	0.98	d	5950					
M-44	10/30/2006	18.58	877	d	0.98	d	8990					
M-44	1/29/2007	18.53	826		0.91		8370					
M-44	4/30/2007	18.13	754		0.92		7240					
M-44	7/30/2007	18.65	854		0.88		9320					
M-48	1/30/2006	23.36	200	d	1.9	d						
M-48	5/1/2006	23.43	190	d	1.5	d	2900		11	d	490	d
M-48	7/31/2006	23.68	216	d	1.4	d	2550		10	d	457	d
M-48	10/30/2006	23.72	169	d	1.3	d	3160		17.7	d	401	d
M-48	1/29/2007	23.79	144		1.1		7260					
M-48	4/30/2007	23.82	163		1		2850		18.3		340	
M-48	7/30/2007	24.49	167		0.97		2980					
M-50	2/2/2006	46.44	970	d	39	d						

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M-50	5/3/2006	46.58	870	d	37	d	11700					
M-50	8/2/2006	46.66	856	d	34	d	10400					
M-50	11/1/2006	46.65	1030	d	34	d	13500					
M-50	1/31/2007	46.66	801		32		14000					
M-50	5/2/2007	46.53	776		31		12400					
M-50	8/1/2007	47.02	1080		29		14100					
M-52	2/2/2006	---	1200	d	10	d						
M-52	5/4/2006	---	1100	d	9.6	d	6760					
M-52	11/2/2006	---	1020	d	9.1	d	7190					
M-52	1/31/2007	---	946		9		8600					
M-52	5/2/2007	---	720		7.9		7450					
M-57A	1/31/2006	28.86	22	d	0.077	d						
M-57A	5/2/2006	28.94	24	d	0.065	d	2230					
M-57A	8/1/2006	29.29	21	d	0.073	d	2660					
M-57A	10/31/2006	29.16	20.8	d	0.084	d	3030					
M-57A	1/30/2007	29.43	20.3		0.087		3040					
M-57A	5/1/2007	29.64	20.4		0.081		3180					
M-57A	7/31/2007	30.02	23.9		0.083		3060					
M-5A	5/2/2006	---	24	d	<0.01	ud	10800					
M-5A	8/1/2006	---	20.6	d	<0.01	ud	9330					
M-5A	5/2/2007	---	22.9		<0.02	U	9250					
M-5A	7/31/2007	---	24.7		<0.02	U	11100					
M-61	5/3/2006	22.72	73	d	1.2	d	3940					
M-61	5/7/2006	36.86	92	d			5680					
M-61	5/7/2006	36.86	89	d			5900					
M-61	8/3/2006	23.88	71.6	d	1.1	d	4540					
M-61	11/1/2006	24.78	72.7	d	1.1	d	5370					
M-61	1/31/2007	24.16	60.8		1		5410					
M-61	5/3/2007	24.00	72		1.2	d	5680					
M-61	8/1/2007	24.64	81		1		5500					
M-64	1/31/2006	25.63	1000	d	8	d						
M-64	5/2/2006	25.63	990	d	7.3	d	6090					
M-64	8/1/2006	26.75	846	d	8.2	d	7040					

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M-64	10/31/2006	27.04	737	d	6.4	d	6290					
M-64	1/30/2007	27.63	997		8.8		8550					
M-64	5/4/2007	28.89	709		7.2		7900					
M-64	7/31/2007	29.27	821		8.2		8170					
M-65	1/31/2006	27.75	1400	d	36	d						
M-65	5/2/2006	28.07	1500	d	30	d	11300					
M-65	8/1/2006	28.77	1260	d	32	d	14100					
M-65	10/31/2006	29.03	1340	d	34		18000					
M-65	1/30/2007	29.52	1330		34		16600					
M-65	5/4/2007	30.43	1250		33		14700					
M-65	7/31/2007	30.96	1460		33		18700					
M-66	1/31/2006	29.08	1900	d	37	d						
M-66	5/2/2006	29.44	1900	d	35	d	12700					
M-66	8/1/2006	30.11	1670	d	36	d	9940					
M-66	10/31/2006	30.58	1850	d	35	d	18000					
M-66	1/30/2007	30.75	1840		34		16300					
M-66	5/4/2007	30.72	1660		34		17300					
M-66	7/31/2007	31.09	1800		32		18600					
M-67	2/2/2006	20.31	540	d	5	d						
M-67	5/3/2006	20.57	420	d	4.8	d	5090					
M-67	5/7/2006	24.23	420	d			7580					
M-67	8/3/2006	21.33	485	d	5	d	5270					
M-67	11/1/2006	22.85	483	d	5.3	d	7200					
M-67	1/31/2007	21.79	500		5.6		7730					
M-67	5/4/2007	21.65	485		5.5		8140					
M-67	8/1/2007	22.26	582		5.5		7790					
M-68	2/2/2006	23.22	42	d	0.73	d						
M-68	5/3/2006	22.86	30	d	0.68	d	4190					
M-68	8/2/2006	24.11	28.9	d	0.71	d	4510					
M-68	11/1/2006	25.61	31.2	d	0.72	d	5650					
M-68	1/31/2007	24.58	24.6		0.66		5680					
M-68	5/3/2007	24.52	35.4	J	0.77		5610	J				
M-68	8/1/2007	25.12	61		0.91		6350					

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M-69	1/31/2006	29.41	790	d	0.056	d						
M-69	5/2/2006	29.13	921	d	0.043	d	3930					
M-69	8/1/2006	29.75	948	d	0.045	d	4470					
M-69	10/31/2006	30.33	1010	d	0.053	d	4800					
M-69	1/30/2007	30.82	1350		0.059		4510					
M-69	5/1/2007	31.44	578		0.067	d	4430					
M-69	7/31/2007	32.44	464		0.071		4050					
M-6A	5/2/2006	---	40	d	<0.01	ud	5620					
M-6A	8/1/2006	---					6590					
M-6A	5/2/2007	---	30.3		<0.02	U	6350					
M-6A	7/31/2007	---	32.4		<0.02	U	6710					
M-70	2/2/2006	26.51	880	d	8.1	d						
M-70	5/4/2006	26.13	850	d	7.6	d	8100					
M-70	8/3/2006	26.66	727	d	6.4	d	6600					
M-70	11/2/2006	27.66	745	d	5.5	d	9680					
M-70	2/1/2007	28.57	592		4.3		7630					
M-70	5/4/2007	29.95	669		5.1		8430					
M-70	8/3/2007	32.08	994		7.5		9580					
M-71	2/2/2006	27.64	750	d	6	d						
M-71	5/4/2006	27.17	720	d	5.7	d	5660					
M-71	8/3/2006	27.19	608	d	5.3	d	5180					
M-71	11/2/2006	27.40	657	d	4.9	d	7710					
M-71	2/1/2007	28.42	624		4.8		6810					
M-71	5/4/2007	30.54	541		5		8300					
M-71	8/3/2007	32.90	764		5.1		7670					
M-72	2/2/2006	29.92	1200	d	6.7	d						
M-72	5/4/2006	29.93	1300	d	6.7	d	8370					
M-72	8/3/2006	29.96	1200	d	6.5	d	6620					
M-72	11/2/2006	30.24	1180	d	6.1	d	9680					
M-72	2/1/2007	31.50	1060		5.6		8230					
M-72	5/4/2007	29.69	885		5.3		8720					
M-72	8/3/2007	32.25	1080		4.8		8860					
M-73	2/2/2006	28.00	140	d	1.4	d						

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
M-73	5/3/2006	28.19	130	d	1.1	d	2150					
M-73	8/3/2006	28.47	182	d	1.7	d	2370					
M-73	11/1/2006	28.70	169	d	2	d	2940					
M-73	2/1/2007	28.62	217		2.8		3760					
M-73	5/3/2007	29.17	86.1	J	1.4		2120	J				
M-73	8/2/2007	29.14	227		2.9		3830					
M-74	2/2/2006	26.93	55	d	0.94	d						
M-74	5/3/2006	26.18	48	d	0.96	d	4510					
M-74	8/3/2006	27.55	48.3	d	0.91	d	5090					
M-74	11/1/2006	27.40	42.3	d	0.86	d	5840					
M-74	2/1/2007	27.16	39.4		0.85		5880					
M-74	5/3/2007	28.14	33.9	J	0.79		6010	J				
M-74	8/2/2007	29.46	42.8		0.76		6040					
M-75	2/3/2006	---	140	d	6.9	d						
M-75	5/5/2006	---	110	d	6	d	5960					
M-75	11/3/2006	---	99.8	d	5.2	d	5090					
M-75	2/2/2007	---	91.3		5.3		4990					
M-75	5/4/2007	---	83.7		4.7		5080					
M-76	2/3/2006	39.05	80	d	3.1	d						
M-76	5/5/2006	39.08	83	d	3.6	d	4400					
M-76	11/3/2006	38.74	81.3	d	4	d	4200					
M-76	2/2/2007	38.80	97.6		3.1		3980					
M-76	5/4/2007	39.15	77.9		3.7		4320					
M-77	5/3/2006	37.64	180	d	0.35	d	2710					
M-77	5/2/2007	37.86	168		0.4		2400					
M-79	1/31/2006	25.37	20	d	0.058	d						
M-79	5/2/2006	25.13	23	d	0.054	d	1520					
M-79	8/1/2006	28.20	11.5	d	0.044	d	1110					
M-79	10/31/2006	26.25	12.8	d	0.043	d	1350					
M-79	1/30/2007	26.70	7.2		0.028		1040					
M-79	5/1/2007	27.59	14.7		0.044		1320					
M-79	7/31/2007	29.20	134		0.5		2350					
M-7B	5/2/2006	---	63	d	0.046	d	8030					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
M-7B	8/1/2006	---					6650					
M-7B	5/2/2007	---	55.6		<0.02	U	7000					
M-7B	7/31/2007	---	59.5		<0.02	U	7280					
M-83	1/11/2006	22.61	45	d								
M-83	2/2/2006	22.95	38	d	0.27	d						
M-83	2/8/2006	22.95	22	d	0.17	d						
M-83	3/8/2006	22.43	26	d								
M-83	4/12/2006	22.36	12.8	d								
M-83	5/4/2006	22.54	30	d	0.21	d	1320					
M-83	5/10/2006	22.54	13.4	d	0.094	d						
M-83	6/13/2006	22.79	241	d								
M-83	7/13/2006	22.85	8.43	d								
M-83	8/3/2006	22.75	7.68	d	0.08	d	890					
M-83	8/9/2006	22.75	344	d	2	d	3340					
M-83	9/13/2006	23.69	14.9	d			1370					
M-83	10/12/2006	23.63	7.53	d			1360					
M-83	11/2/2006	23.18	26.9	d	0.17	d	1600					
M-83	11/9/2006	23.18	295	d	1.5	d	3620					
M-83	12/12/2006	24.11	8.14	d			1280					
M-83	1/10/2007	24.31	6.47				1160					
M-83	2/1/2007	24.18	11.8		0.1		1310					
M-83	2/8/2007	24.18	6.63		0.063		1390					
M-83	3/15/2007	24.04	5.83				1430					
M-83	4/12/2007	24.88	5.48				1090					
M-83	5/3/2007	25.95	7.07	J	0.034		1040	J				
M-83	5/10/2007	25.95	265		1.5		3150					
M-83	6/14/2007	27.37	19				1270					
M-83	7/13/2007	27.73	24.5				1160					
M-83	8/3/2007	28.02	9.53		0.093		996					
M-83	8/16/2007	28.02	15.7		0.15		1070					
M-83	9/14/2007	28.62	28.2				1130					
M-84	2/2/2006	22.57	6	d	0.053	d	1760					
M-84	5/4/2006	21.99	17	d	0.034	d						

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M-84	8/3/2006	22.11	1.71	d	<0.01	ud	1420					
M-84	11/2/2006	22.50	1.1	d	<0.01	ud	1130					
M-84	2/1/2007	23.40	5.32		0.045		978					
M-84	5/3/2007	25.21	4.1	J	0.042		1250	J				
M-84	8/2/2007	27.44	9.31		0.08	J	994					
M-85	2/2/2006	25.91	38	d	0.13	d						
M-85	5/4/2006	25.65	58	d	0.26	d	1280					
M-85	8/3/2006	25.42	40.1	d	0.19	d	1000					
M-85	11/2/2006	25.60	21.8	d	0.09	d	962					
M-85	2/1/2007	25.78	17.9		0.068		950					
M-85	5/3/2007	27.95	17.8	J	0.033		958	J				
M-85	8/3/2007	30.21	24.7		0.075		1010					
M-86	2/2/2006	29.23	20	d	0.12	d						
M-86	5/4/2006	29.34	100	d	0.43	d	1600					
M-86	8/3/2006	29.24	213	d	0.96	d	1930					
M-86	11/2/2006	29.89	427	d	1.9	d	4040					
M-86	2/1/2007	30.00	370		1.7		3420					
M-86	5/3/2007	31.09	295	J	1.4		3240	J				
M-86	8/2/2007	32.51	497		1.8		4050					
M-87	1/11/2006	33.01	94	d								
M-87	2/2/2006	33.27	120	d	1.3	d						
M-87	2/8/2006	33.27	130	d	1.4	d						
M-87	3/8/2006	33.61	110	d								
M-87	4/12/2006	33.91	130	d								
M-87	5/4/2006	33.82	150	d	1.3	d	1960					
M-87	5/10/2006	33.82	127	d	1.4	d						
M-87	6/13/2006	33.89	68.5	d								
M-87	7/13/2006	33.86	1140	d								
M-87	8/3/2006	33.92	92.2	d	0.96	d	1640					
M-87	8/9/2006	33.92	167	d	3.3	d	2680					
M-87	9/13/2006	34.24	129	d			1640					
M-87	10/12/2006	34.49	146	d			1940					
M-87	11/2/2006	34.33	155	d	1.8	d	2180					

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M-87	11/9/2006	34.33	351	d	2.2	d	4170					
M-87	12/12/2006	34.59	120	d			1890					
M-87	1/10/2007	0.00	133				1970					
M-87	2/1/2007	34.64	116		1.3		1820					
M-87	2/8/2007	34.64	80.9		1.9		1590					
M-87	3/15/2007	34.65	118				1990					
M-87	4/12/2007	34.84	120				1910					
M-87	5/3/2007	35.05	121	J	1.5		2030	J				
M-87	5/10/2007	35.05	271		0.99		3500					
M-87	6/14/2007	35.78	147				2370					
M-87	7/13/2007	36.09	216				3070					
M-87	8/2/2007	36.19	196		1.9		2610					
M-87	8/16/2007	36.19	197		2.4		2860					
M-87	9/14/2007	36.57	211				2490					
M-88	2/2/2006	29.95	49	d	0.87	d						
M-88	5/3/2006	30.07	54	d	0.89	d	5670					
M-88	8/3/2006	30.41	56.3	d	0.93	d	5430					
M-88	11/1/2006	30.61	56.1	d	0.92	d	6360					
M-88	2/1/2007	30.63	52.4		0.93		6280					
M-88	5/3/2007	30.80	47.8	J	0.97		6260	J				
M-88	8/2/2007	31.33	55.3		0.87		6510					
M-89	2/2/2006	32.64	1100	d	27	d						
M-89	5/4/2006	32.93	990	d	26	d	10000					
M-89	8/4/2006	33.31	996	d	27	d	8840					
M-89	11/3/2006	33.37	935	d	26	d	15330					
M-89	2/1/2007	33.23	841		24		13400					
M-89	5/4/2007	33.38	774		21		11100					
M-89	8/3/2007	33.73	728		23		12300	J-				
M-92	2/3/2006	36.67	0.89	d	<0.01	ud						
M-92	5/4/2006	36.65	0.62	d	<0.01	ud	1980					
M-92	8/2/2006	36.95	0.567	d	<0.01	ud	1670					
M-92	11/1/2006	36.96	0.676	d	<0.01	ud	1920					
M-92	1/31/2007	37.21	0.674		<0.02	U	1990					

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M-92	5/3/2007	37.24	0.695	J	<0.02	U	1920	J				
M-92	8/1/2007	37.77	0.752		<0.02	U	1990					
M-93	2/3/2006	35.65	13	d	0.16	d						
M-93	5/4/2006	35.65	11	d	0.15	d	3410					
M-93	8/2/2006	35.88	7.32	d	0.12	d	2450					
M-93	11/1/2006	35.88	7.63	d	0.11	d	2980					
M-93	1/31/2007	36.18	6.78		0.096		2820					
M-94	1/30/2006	11.61	860	d	0.9	d	8100					
M-94	5/1/2006	11.55	510	d	0.91	d	5770					
M-94	7/31/2006	11.57	672	d	0.84		5640					
M-94	8/29/2006	11.59	893	d	0.87	d	8400					
M-94	10/30/2006	11.64	824	d	0.86	d	8040					
M-94	1/29/2007	11.62	698		0.76		7640					
M-94	4/30/2007	11.58	681		0.73		7620					
M-94	7/30/2007	11.76	625		0.72		8280					
M-95	1/30/2006	9.98	820	d	2.5	d						
M-95	5/1/2006	9.94	760	d	2.3	d	5500					
M-95	10/30/2006	10.08	670	d	2	d	8430					
M-95	1/29/2007	10.02	623		1.7		7830					
M-95	4/30/2007	9.97	612		1.7		7740					
M-96	1/30/2006	10.14	690	d	2.9	d						
M-96	5/1/2006	10.03	530	d	2.8	d	5660					
M-96	7/31/2006	10.06	459	d	2.3	d	5700					
M-96	8/29/2006	10.10	533	d	2.1	d	7650					
M-96	10/30/2006	10.33	464	d	2	d	7750					
M-96	1/29/2007	10.17	446		1.9		7310					
M-96	4/30/2007	10.12	425		1.7		7050					
M-96	7/30/2007	10.34	421		1.7		7800					
M-97	2/3/2006	39.83	60	d	0.055	d						
M-97	5/4/2006	39.89	61	d	0.06	d	3640					
M-97	8/2/2006	40.10	62	d	0.067	d	3140					
M-97	11/1/2006	40.07	80	d	0.072	d	3600					
M-97	1/31/2007	40.37	77.7		0.066		3660					

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M-97	5/3/2007	40.43	76.8	J	0.063		3770	J				
M-97	8/1/2007	40.97	89.2		0.61		3730					
M-98	1/31/2006	30.16	42	d	0.099	d						
M-98	5/2/2006	28.66	35	d	0.085	d	3120					
M-98	8/1/2006	29.90	25.4	d	0.15	d	3160					
M-98	10/31/2006	30.01	23.2	d	0.094	d	4940					
M-98	1/30/2007	29.40	17.3		0.089		3610					
M-98	5/1/2007	30.11	17.3		0.091		3810					
M-98	7/31/2007	30.89	19.4		0.089		3620					
M-99	1/31/2006	28.03	980	d	0.88	d						
M-99	5/2/2006	27.85	1100	d	0.88	d	4140					
M-99	8/1/2006	27.89	803	d	0.92	d	4650					
M-99	10/31/2006	28.02	975	d	1	d	5980					
M-99	1/30/2007	27.92	780		1.1		5750					
M-99	5/1/2007	28.32	756		1.1		5900					
M-99	7/31/2007	29.25	905		1.1		5760					
MC-29	5/6/2006	34.60	1.2	d			17300					
MC-29	5/3/2007	34.04	1.89				17100					
MC-3	5/7/2006	37.57	<0.004	ud			23200					
MC-3	5/3/2007	33.90	1.44				20800					
MC-50	5/7/2006	31.19	6.2	d			13100					
MC-50	5/3/2007	27.55	6.9				10150					
MC-51	5/6/2006	---	7.8	d			10900					
MC-51	5/3/2007	28.49	7.61				9750					
MC-53	5/6/2006	33.17	7.7	d			12400					
MC-53	5/3/2007	29.04	5.13		<0.02	U	9550					
MC-53D	5/3/2007	---	5.3		<0.02	U	10800					
MC-6	5/7/2006	29.28	5.88	d			11500					
MC-6	5/3/2007	26.28	7.73				10000					
MC-65	5/6/2006	36.68	81	d	0.19	d	9880					
MC-65	5/3/2007	32.73	291				8650					
MC-69	5/6/2006	32.47	3.53	d			19100					
MC-69	5/3/2007	29.70	3.66				9950					

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MC-7	5/6/2006	30.02	8.9	d			17400					
MC-7	5/3/2007	26.59	10.3				14100					
MC-93	5/6/2006	34.76	8.6	d			7380					
MC-93	5/3/2007	30.44	13				6800					
MC-97	5/6/2006	39.09	6.7	d			11500					
MC-97	5/3/2007	33.67	8.37				8100					
MW-K4	1/10/2006	26.59	210	d								
MW-K4	2/8/2006	26.59	210	d	0.031	d						
MW-K4	3/8/2006	26.98	200	d								
MW-K4	4/12/2006	27.19	241	d								
MW-K4	5/9/2006	27.36	240	d	0.041	d						
MW-K4	6/14/2006	27.58	231	d								
MW-K4	7/12/2006	27.63	227	d								
MW-K4	8/9/2006	27.27	196	d	0.032	d	6030					
MW-K4	9/13/2006	26.69	162	d			6210					
MW-K4	10/11/2006	26.63	126	d			7720					
MW-K4	11/8/2006	25.87	87.1	d	<0.01	ud	8780					
MW-K4	12/12/2006	26.08	93.3	d			8000					
MW-K4	1/9/2007	26.21	93.9				7520					
MW-K4	2/8/2007	26.74	115		0.032		7850					
MW-K4	3/14/2007	27.07	171				7350					
MW-K4	4/11/2007	27.36	184				6890					
MW-K4	5/14/2007	27.48	178		0.14		6790					
MW-K4	6/13/2007	27.83	163				7090					
MW-K4	7/12/2007	28.09	130				7740					
MW-K4	8/15/2007	28.01	109		0.049		7570	J				
MW-K4	9/14/2007	28.23	122				7280					
MW-K5	1/11/2006	26.37	22	d								
MW-K5	2/9/2006	27.49	23	d	0.023	d						
MW-K5	3/7/2006	28.13	24	d								
MW-K5	4/12/2006	28.26	32	d								
MW-K5	5/10/2006	29.04	24	d	0.027	d			4.4	d	63	d
MW-K5	6/15/2006	29.68	24.3	d								

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MW-K5	7/13/2006	29.32	25.4	d								
MW-K5	8/10/2006	24.43	30.2	d	0.046	d	6330		9.2	d	82.7	d
MW-K5	9/13/2006	26.99	30.2	d			6230					
MW-K5	10/12/2006	27.76	32.4	d			7020					
MW-K5	11/9/2006	23.83	23.6	d	0.039	d	6970		8.8	d	61.8	d
MW-K5	12/12/2006	26.11	22.5	d			7250					
MW-K5	1/10/2007	26.57	26.3				6820					
MW-K5	2/6/2007	27.38	20.8		0.034		7210					
MW-K5	3/15/2007	27.13	19				7300					
MW-K5	4/12/2007	28.10	19				6910					
MW-K5	5/10/2007	24.01	16.8		0.026		5480		9.22		45.8	
MW-K5	6/14/2007	22.89	11.4				4290					
MW-K5	7/13/2007	29.21	11.2				6960					
MW-K5	8/17/2007	27.98	11.3		0.019		6800					
MW-K5	9/12/2007	29.83	16.9				6930					
PC101R	1/10/2006	27.33	89	d								
PC101R	2/8/2006	27.48	80	d	<0.01	ud						
PC101R	3/7/2006	27.62	190	d								
PC101R	4/12/2006	27.94	115	d								
PC101R	5/9/2006	28.06	48	d	<0.01	ud						
PC101R	6/14/2006	25.43	307	d								
PC101R	7/12/2006	28.43	276	d								
PC101R	8/9/2006	28.13	291	d	0.095	d	9900					
PC101R	9/13/2006	27.44	300	d			9530					
PC101R	10/11/2006	27.13	280	d			9920					
PC101R	11/8/2006	26.39	246	d	0.087	d	8300					
PC101R	12/12/2006	26.48	110	d			8130					
PC101R	1/9/2007	26.55	132				8270					
PC101R	2/8/2007	27.21	146		0.081		10300					
PC101R	3/14/2007	27.67	96.8				8860					
PC101R	4/11/2007	27.97	103				9450					
PC101R	5/9/2007	28.59	212		0.088		8050					
PC101R	6/13/2007	28.98	213				10200					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC101R	7/12/2007	29.12	222				10380					
PC101R	8/15/2007	28.94	185		0.077		8900					
PC101R	9/12/2007	29.16	231				9930					
PC103	1/11/2006	22.71	3	d								
PC103	2/9/2006	23.04	5	d	<0.01	ud						
PC103	3/7/2006	23.41	6	d								
PC103	4/12/2006	23.47	8.3	d								
PC103	5/10/2006	23.81	6.8	d	<0.01	ud			5	d	12.1	d
PC103	6/15/2006	24.02	7.8	d								
PC103	7/13/2006	23.59	7.47	d								
PC103	8/10/2006	21.18	8.16	d	<0.01	ud	5990		5	d	10.5	d
PC103	9/13/2006	21.63	6.89	d			4790					
PC103	10/12/2006	22.38	5.83	d			4640					
PC103	11/9/2006	20.00	4.64	d	<0.01	ud	4520		4.1	d	32.8	d
PC103	12/12/2006	21.62	4.25	d			4410					
PC103	1/10/2007	22.00	4.15				3880					
PC103	2/6/2007	22.76	4.88		<0.02	U	4180					
PC103	3/15/2007	22.64	5.36				4690					
PC103	4/12/2007	23.11	5.8				4400					
PC103	5/10/2007	21.16	6.76		<0.02	U	4470		6.73		2.47	
PC103	6/14/2007	21.28	5.14				4380					
PC103	7/13/2007	24.08	7.74				5170					
PC103	8/17/2007	23.16	7.28		<0.01	u	5070					
PC103	9/12/2007	24.33	9.26				5130					
PC104	5/4/2006	---	1	d	<0.01	ud	3130					
PC104	5/2/2007	24.77	3.82		<0.02	U	3310					
PC108	5/5/2006	---	<0.004	ud			2200					
PC108	5/1/2007	11.58	<0.01	U			2610					
PC110	5/5/2006	---	3	d			5280					
PC110	5/2/2007	13.28	7.08				4660					
PC112	5/5/2006	---	<0.004	ud			2340					
PC112	5/2/2007	13.04	<0.004	u			2170					
PC115R	1/3/2006	23.57	23	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC115R	1/9/2006	23.57	24	d								
PC115R	1/16/2006	23.57	26	d								
PC115R	1/23/2006	23.57	25	d								
PC115R	1/30/2006	23.57	25	d								
PC115R	2/6/2006	19.81	22	d	<0.01	ud						
PC115R	2/13/2006	19.81	21	d								
PC115R	2/20/2006	19.81	20	d								
PC115R	2/27/2006	19.81	19	d								
PC115R	3/6/2006	20.43	19	d								
PC115R	3/13/2006	20.43	12	d								
PC115R	3/20/2006	20.43	21	d								
PC115R	3/28/2006	20.43	23	d								
PC115R	4/3/2006	16.19	22	d								
PC115R	4/10/2006	16.19	22.5	d								
PC115R	4/17/2006	16.19	27	d								
PC115R	4/24/2006	16.19	27.8	d								
PC115R	5/1/2006	21.11	23.2	d								
PC115R	5/8/2006	21.11	24.3	d	<0.01	ud						
PC115R	5/15/2006	21.11	24.4	d								
PC115R	5/22/2006	21.11	29	d								
PC115R	5/30/2006	21.11	27.2	d								
PC115R	6/5/2006	20.71	28.4	d								
PC115R	6/12/2006	20.71	28.1	d								
PC115R	6/19/2006	20.71	26.2	d								
PC115R	6/27/2006	20.71	25.5	d								
PC115R	7/5/2006	9.75	25.1	d								
PC115R	7/24/2006	9.75	23.6	d			4830					
PC115R	7/31/2006	9.75	24.4	d			4790					
PC115R	8/7/2006	8.03	24	d	<0.01	ud	5590					
PC115R	8/22/2006	8.03	23.8	d			5890					
PC115R	8/28/2006	8.03	23.1	d			4640					
PC115R	9/5/2006	28.93	28.2	d			5750					
PC115R	9/11/2006	28.93	27.7	d			5610					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC115R	9/18/2006	28.93	26.4	d			5040					
PC115R	9/25/2006	28.93	25.5	d			5520					
PC115R	10/2/2006	13.81	23.8	d			5320					
PC115R	10/9/2006	13.81	19.8	d			5090					
PC115R	10/16/2006	13.81	24	d			4940					
PC115R	10/23/2006	13.81	19.4	d			4800					
PC115R	10/30/2006	13.81	24.1	d			4830					
PC115R	11/13/2006	10.13	22	d			5020					
PC115R	11/20/2006	10.13	20.2	d			5280					
PC115R	11/27/2006	10.13	21.9	d			5280					
PC115R	12/4/2006	10.92	22.8	d			5240					
PC115R	12/11/2006	10.92	19.7	d			5040					
PC115R	12/18/2006	10.92	18.6				4640					
PC115R	12/26/2006	10.92	14.6				4240					
PC115R	1/2/2007	6.67	24.9				4040					
PC115R	1/8/2007	6.67	16.1				3980					
PC115R	1/15/2007	6.67	15.3				3910					
PC115R	1/22/2007	6.67	16.8				3930					
PC115R	1/29/2007	6.67	13.4				4040					
PC115R	2/5/2007	10.27	16.1		<0.02	U	4160					
PC115R	2/12/2007	10.27	17.1				4320					
PC115R	2/19/2007	10.27	16.3				4360					
PC115R	2/26/2007	10.27	14.2				4450					
PC115R	3/6/2007	10.71	16.3				4700					
PC115R	3/12/2007	10.71	16.5				4720					
PC115R	3/19/2007	10.71	17.8				4860					
PC115R	3/26/2007	10.71	16.9				4910					
PC115R	4/2/2007	12.71	16.3				5020					
PC115R	4/9/2007	12.71	14.8				4960					
PC115R	4/16/2007	12.71	16.4				5000					
PC115R	4/23/2007	12.71	16.4				4870					
PC115R	4/30/2007	12.71	17.9				4990					
PC115R	5/7/2007	12.74	16.3		<0.02	U	5110					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC115R	5/14/2007	12.74	18.2				5200					
PC115R	5/21/2007	12.74	18				5240					
PC115R	5/29/2007	12.74	17.5				5620					
PC115R	6/4/2007	13.56	16.8				5550					
PC115R	6/11/2007	13.56	17.5				5410					
PC115R	6/18/2007	13.56	14.5				5160					
PC115R	6/25/2007	13.56	13.8				4860					
PC115R	7/2/2007	14.74	11.9				4440					
PC115R	7/10/2007	14.74	10.9				4340					
PC115R	7/16/2007	14.74	11.6				4300					
PC115R	7/23/2007	14.74	11.3				4240					
PC115R	7/30/2007	14.74	12				4030					
PC115R	8/6/2007	13.72	10.6				4050					
PC115R	8/13/2007	13.72	10.4		<0.01	u	3730					
PC115R	8/20/2007	13.72	9.52				3820					
PC115R	8/27/2007	13.72	10.3				3780					
PC115R	9/4/2007	13.71	10.7				3870					
PC115R	9/10/2007	13.71	11				3980					
PC115R	9/17/2007	13.71	11.8				3990					
PC115R	9/24/2007	13.71	10.2				4060					
PC116R	1/3/2006	18.53	17	d								
PC116R	1/9/2006	18.53	17	d								
PC116R	1/16/2006	18.53	17	d								
PC116R	1/23/2006	18.53	17	d								
PC116R	1/30/2006	18.53	16	d								
PC116R	2/6/2006	22.98	15	d	<0.01	ud						
PC116R	2/13/2006	22.98	14	d								
PC116R	2/20/2006	22.98	13	d								
PC116R	2/27/2006	22.98	12	d								
PC116R	3/6/2006	20.58	12	d								
PC116R	3/13/2006	20.58	20	d								
PC116R	3/20/2006	20.58	12	d								
PC116R	3/28/2006	20.58	13	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC116R	4/3/2006	14.10	13	d								
PC116R	4/10/2006	14.10	13.5	d								
PC116R	4/17/2006	14.10	16.6	d								
PC116R	4/24/2006	14.10	17.8	d								
PC116R	5/1/2006	21.32	16.4	d								
PC116R	5/8/2006	21.32	13.5	d	<0.01	ud						
PC116R	5/15/2006	21.32	17	d								
PC116R	5/22/2006	21.32	16	d								
PC116R	5/30/2006	21.32	16.1	d								
PC116R	6/5/2006	15.98	16.8	d								
PC116R	6/12/2006	15.98	17.2	d								
PC116R	6/19/2006	15.98	15.5	d								
PC116R	6/27/2006	15.98	15.8	d								
PC116R	7/5/2006	22.92	15.5	d								
PC116R	7/10/2006	22.92	15.9	d								
PC116R	7/17/2006	22.92	17.7	d								
PC116R	7/24/2006	22.92	17.3	d			4730					
PC116R	7/31/2006	22.92	17.1	d			4580					
PC116R	8/7/2006	13.07	18	d	<0.01	ud	4840					
PC116R	8/15/2006	13.07	18.1	d			4630					
PC116R	8/21/2006	13.07	24.2	d			5500					
PC116R	8/28/2006	13.07	18.7	d			4340					
PC116R	9/5/2006	18.32	22.4	d			5670					
PC116R	9/11/2006	18.32	21.3	d			5430					
PC116R	9/18/2006	18.32	21.8	d			4840					
PC116R	9/25/2006	18.32	21.1	d			5580					
PC116R	10/2/2006	15.63	20.6	d			5740					
PC116R	10/9/2006	15.63	16.2	d			5500					
PC116R	10/16/2006	15.63	17.6	d			5210					
PC116R	10/23/2006	15.63	15	d			5200					
PC116R	10/30/2006	15.63	16.5	d			5070					
PC116R	11/13/2006	17.92	14.5	d			5330					
PC116R	11/20/2006	17.92	15.2	d			5510					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC116R	11/27/2006	17.92	17.2	d			5440					
PC116R	12/4/2006	19.02	18.7	d			5340					
PC116R	12/11/2006	19.02	20	d			5510					
PC116R	12/18/2006	19.02	17.3				5360					
PC116R	12/26/2006	19.02	13.9				5140					
PC116R	1/2/2007	20.37	13.6				4860					
PC116R	1/8/2007	20.37	13.1				4940					
PC116R	1/15/2007	20.37	11.9				4770					
PC116R	1/22/2007	20.37	11.2				4660					
PC116R	1/29/2007	20.37	10.1				4500					
PC116R	2/5/2007	22.15	10.1		<0.02	U	4640					
PC116R	2/12/2007	22.15	12.7				4700					
PC116R	2/19/2007	22.15	11.9				4700					
PC116R	2/26/2007	22.15	11.9				4790					
PC116R	3/6/2007	18.28	17.6				4800					
PC116R	3/12/2007	18.28	13.5				5050					
PC116R	3/19/2007	18.28	14.5				5080					
PC116R	3/26/2007	18.28	14.1				5110					
PC116R	4/2/2007	10.82	14.2				5220					
PC116R	4/9/2007	10.82	13.8				5170					
PC116R	4/16/2007	10.82	13.8				5130					
PC116R	4/23/2007	10.82	13.6				3620					
PC116R	4/30/2007	10.82	13.9				5090					
PC116R	5/7/2007	20.41	14.2		<0.02	U	5320					
PC116R	5/14/2007	20.41	14.9				5110					
PC116R	5/21/2007	20.41	15.2				5250					
PC116R	5/29/2007	20.41	14.1				5630					
PC116R	6/4/2007	22.73	12.3				5440					
PC116R	6/11/2007	22.73	12.9				5340					
PC116R	6/18/2007	22.73	13.1				5330					
PC116R	6/25/2007	22.73	11.7				5140					
PC116R	7/2/2007	19.75	10.5				4790					
PC116R	7/10/2007	19.75	9.28				4710					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC116R	7/16/2007	19.75	9.05				4520					
PC116R	7/23/2007	19.75	9.27				4310					
PC116R	7/30/2007	19.75	8.47				4060					
PC116R	8/6/2007	15.10	7.88				4030					
PC116R	8/13/2007	15.10	7.04		<0.01	u	3690					
PC116R	8/20/2007	15.10	6.34				3840					
PC116R	8/27/2007	15.10	7.07				3700					
PC116R	9/4/2007	21.30	7.18				3770					
PC116R	9/10/2007	21.30	6.84				3770					
PC116R	9/17/2007	21.30	7.25				3750					
PC116R	9/24/2007	21.30	6.69				3780					
PC117	1/3/2006	15.12	11	d								
PC117	1/9/2006	15.12	11	d								
PC117	1/16/2006	15.12	11	d								
PC117	1/23/2006	15.12	10	d								
PC117	1/23/2006	15.12	10	d								
PC117	2/6/2006	15.33	10	d	<0.01	ud						
PC117	2/13/2006	15.33	10	d								
PC117	2/20/2006	15.33	9	d								
PC117	2/27/2006	15.33	8	d								
PC117	3/6/2006	15.18	8	d								
PC117	3/13/2006	15.18	8	d								
PC117	3/20/2006	15.18	7	d								
PC117	3/28/2006	15.18	8	d								
PC117	4/3/2006	14.92	7	d								
PC117	4/10/2006	14.92	6.61	d								
PC117	4/17/2006	14.92	7.04	d								
PC117	4/24/2006	14.92	6.34	d								
PC117	5/1/2006	14.58	5.7	d								
PC117	5/8/2006	14.58	5.4	d	<0.01	ud						
PC117	5/15/2006	14.58	6.14	d								
PC117	5/22/2006	14.58	6	d								
PC117	5/30/2006	14.58	5.39	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC117	6/5/2006	16.25	5.77	d								
PC117	6/12/2006	16.25	5.55	d								
PC117	6/19/2006	16.25	4.94	d								
PC117	6/27/2006	16.25	5.53	d								
PC117	7/5/2006	19.50	5.05	d								
PC117	7/10/2006	19.50	5.27	d								
PC117	7/17/2006	19.50	6.54	d								
PC117	7/24/2006	19.50	6.46	d			3570					
PC117	7/31/2006	19.50	5.02	d			3470					
PC117	8/7/2006	14.32	4.88	d	<0.01	ud	3840					
PC117	8/15/2006	14.32	7.01	d			4560					
PC117	8/21/2006	14.32	7.84	d			4090					
PC117	8/28/2006	14.32	7.89	d			3440					
PC117	9/5/2006	14.16	8.03	d			4390					
PC117	9/11/2006	14.16	8.25	d			4130					
PC117	9/18/2006	14.16	8.61	d			3840					
PC117	9/25/2006	14.16	7.34	d			4120					
PC117	10/2/2006	13.99	6.05	d			4130					
PC117	10/9/2006	13.99	5.4	d			3920					
PC117	10/16/2006	13.99	4.93	d			3908					
PC117	10/23/2006	13.99	6.72	d			4160					
PC117	10/30/2006	13.99	8.31	d			4550					
PC117	11/13/2006	8.11	10	d			4910					
PC117	11/20/2006	8.11	10.8	d			5140					
PC117	11/27/2006	8.11	10.7	d			5010					
PC117	12/4/2006	10.14	12.8	d			4970					
PC117	12/11/2006	10.14	11.3	d			5160					
PC117	12/18/2006	10.14	11.1				4920					
PC117	12/26/2006	10.14	9				4690					
PC117	1/2/2007	9.77	8.78				4470					
PC117	1/8/2007	9.77	9.33				4620					
PC117	1/15/2007	9.77	8.01				4540					
PC117	1/22/2007	9.77	8.39				4430					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC117	1/29/2007	9.77	5.99				4410					
PC117	2/5/2007	11.56	6.08		<0.02	U	4370					
PC117	2/12/2007	11.56	6.99				4310					
PC117	2/19/2007	11.56	5.92				4110					
PC117	2/26/2007	11.56	4.72				4060					
PC117	3/7/2007	10.23	8.23				4580					
PC117	3/12/2007	10.23	7.53				4400					
PC117	3/19/2007	10.23	6.91				4380					
PC117	3/26/2007	10.23	6.12				4250					
PC117	4/2/2007	5.06	5.25				4150					
PC117	4/9/2007	5.06	4.76				3960					
PC117	4/16/2007	5.06	4.25				3910					
PC117	4/23/2007	5.06	4.41				3890					
PC117	4/30/2007	5.06	4.17				3800					
PC117	5/7/2007	0.00	4.69		<0.02	U	3910					
PC117	5/14/2007	0.00	4.78				3860					
PC117	5/21/2007	0.00	4.79				4110	J-				
PC117	5/29/2007	0.00	4.13				2620					
PC117	6/4/2007	7.60	3.48				3840					
PC117	6/11/2007	7.60	3.55				3730					
PC117	6/18/2007	7.60	4.3				3800					
PC117	6/25/2007	7.60	3.47				3720					
PC117	7/2/2007	0.00	3.53				3650					
PC117	7/10/2007	0.00	3.07				3510					
PC117	7/16/2007	0.00	2.82				3350					
PC117	7/23/2007	0.00	3.1				3450					
PC117	7/30/2007	0.00	2.86				3350					
PC117	8/6/2007	12.85	2.83				3420					
PC117	8/13/2007	12.85	2.45		<0.01	u	3140					
PC117	8/20/2007	12.85	2.26				3210					
PC117	8/27/2007	12.85	2.47				3210					
PC117	9/4/2007	12.31	2.25				3190					
PC117	9/10/2007	12.31	2.46				3210					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC117	9/17/2007	12.31	2.42				3090					
PC117	9/24/2007	12.31	2.47				3120					
PC118	1/3/2006	7.93	18	d								
PC118	1/9/2006	7.93	18	d								
PC118	1/16/2006	7.93	19	d								
PC118	1/23/2006	7.93	19	d								
PC118	1/23/2006	7.93	19	d								
PC118	2/6/2006	7.74	19	d	<0.01	ud						
PC118	2/13/2006	7.74	19	d								
PC118	2/20/2006	7.74	18	d								
PC118	2/27/2006	7.74	17	d								
PC118	3/6/2006	8.74	16	d								
PC118	3/13/2006	8.74	16	d								
PC118	3/20/2006	8.74	16	d								
PC118	3/28/2006	8.74	17	d								
PC118	4/3/2006	9.61	16	d								
PC118	4/10/2006	9.61	16.2	d								
PC118	4/17/2006	9.61	19.4	d								
PC118	4/24/2006	9.61	19.8	d								
PC118	5/1/2006	10.16	15.7	d								
PC118	5/8/2006	10.16	18	d	<0.01	ud						
PC118	5/15/2006	10.16	17.5	d								
PC118	5/22/2006	10.16	19	d								
PC118	5/30/2006	10.16	18.1	d								
PC118	6/5/2006	9.89	19.6	d								
PC118	6/12/2006	9.89	19.9	d								
PC118	6/19/2006	9.89	18.3	d								
PC118	6/27/2006	9.89	17.5	d								
PC118	7/5/2006	10.10	18.1	d								
PC118	7/10/2006	10.10	18.2	d								
PC118	7/17/2006	10.10	19.2	d								
PC118	7/24/2006	10.10	18.4	d			4880					
PC118	7/31/2006	10.10	17.2	d			4550					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC118	8/7/2006	6.39	17.9	d	<0.01	ud	3520					
PC118	8/22/2006	6.39	9.93	d			3470					
PC118	8/28/2006	6.39	8.82	d			3420					
PC118	9/6/2006	6.08	12	d			4390					
PC118	9/11/2006	6.08	13	d			3900					
PC118	9/18/2006	6.08	13.8	d			3520					
PC118	9/25/2006	6.08	19	d			4950					
PC118	10/2/2006	9.83	18.5	d			5060					
PC118	10/9/2006	9.83	16.5	d			4810					
PC118	10/16/2006	9.83	17.4	d			4650					
PC118	10/23/2006	9.83	15.4	d			4610					
PC118	10/30/2006	9.83	15.7	d			4600					
PC118	11/13/2006	3.23	16.7	d			4630					
PC118	11/20/2006	3.23	15.7	d			4720					
PC118	11/27/2006	3.23	16.5	d			4750					
PC118	12/4/2006	6.23	18.2	d			4760					
PC118	12/11/2006	6.23	17	d			4800					
PC118	12/18/2006	6.23	17				4680					
PC118	12/26/2006	6.23	14.8				4560					
PC118	1/2/2007	6.22	14.8				4430					
PC118	1/8/2007	6.22	15.2				4420					
PC118	1/15/2007	6.22	13.7				4380					
PC118	1/22/2007	6.22	15				4300					
PC118	1/29/2007	6.22	11.5				4130					
PC118	2/5/2007	7.00	10.8		<0.02	U	4100					
PC118	2/12/2007	7.00	13.5				4130					
PC118	2/19/2007	7.00	12				4120					
PC118	2/26/2007	7.00	10.9				4080					
PC118	3/7/2007	7.24	10.9				4160					
PC118	3/12/2007	7.24	12.1				4340					
PC118	3/19/2007	7.24	12.6				4340					
PC118	3/26/2007	7.24	11.9				4800					
PC118	4/2/2007	9.19	11.7				4320					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC118	4/9/2007	9.19	11.1				4290					
PC118	4/16/2007	9.19	10.7				4330					
PC118	4/23/2007	9.19	10.7				4300					
PC118	4/30/2007	9.19	10.8				4220					
PC118	5/7/2007	9.14	10.9		<0.02	U	4360					
PC118	5/14/2007	9.14	11.7				4580					
PC118	5/21/2007	9.14	12.1				4390					
PC118	5/29/2007	9.14	10.7				4740					
PC118	6/4/2007	9.87	10.7				4720					
PC118	6/11/2007	9.87	11.3				4600					
PC118	6/18/2007	9.87	11.8				4680					
PC118	6/25/2007	9.87	11.5				4650					
PC118	7/2/2007	11.71	10.3				4590					
PC118	7/10/2007	11.71	10.3				4430					
PC118	7/16/2007	11.71	10.6				4330					
PC118	7/23/2007	11.71	9.37				4270					
PC118	7/30/2007	11.71	9.37				4100					
PC118	8/6/2007	9.26	9.28				4110					
PC118	8/13/2007	9.26	9.09		<0.01	u	3830					
PC118	8/20/2007	9.26	8.77				3950					
PC118	8/27/2007	9.26	9.02				3900					
PC118	9/4/2007	10.02	8.1				3880					
PC118	9/10/2007	10.02	8.21				3840					
PC118	9/17/2007	10.02	8.79				3830					
PC118	9/24/2007	10.02	8.45				3840					
PC119	1/3/2006	4.23	16	d								
PC119	1/9/2006	4.23	15	d								
PC119	1/16/2006	4.23	15	d								
PC119	1/23/2006	4.23	15	d								
PC119	1/23/2006	4.23	14	d								
PC119	2/6/2006	4.98	14	d	<0.01	ud						
PC119	2/13/2006	4.98	14	d								
PC119	2/20/2006	4.98	14	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC119	2/27/2006	4.98	12	d								
PC119	3/6/2006	4.88	12	d								
PC119	3/13/2006	4.88	11	d								
PC119	3/20/2006	4.88	11	d								
PC119	3/28/2006	4.88	11	d								
PC119	4/3/2006	6.83	10	d								
PC119	4/10/2006	6.83	9.7	d								
PC119	4/17/2006	6.83	11.3	d								
PC119	4/24/2006	6.83	10.6	d								
PC119	5/1/2006	6.53	9.8	d								
PC119	5/8/2006	6.53	10.6	d	<0.01	ud						
PC119	5/15/2006	6.53	9.67	d								
PC119	5/22/2006	6.53	11	d								
PC119	5/30/2006	6.53	10.2	d								
PC119	6/5/2006	7.24	10.9	d								
PC119	6/12/2006	7.24	10.6	d								
PC119	6/19/2006	7.24	9.61	d								
PC119	6/27/2006	7.24	9.06	d								
PC119	7/5/2006	7.78	7.87	d								
PC119	7/10/2006	7.78	11	d								
PC119	7/17/2006	7.78	12.6	d								
PC119	7/24/2006	7.78	8.3	d			3490					
PC119	7/31/2006	7.78	7.24	d			3420					
PC119	8/7/2006	7.13	7.46	d	<0.01	ud	5100					
PC119	8/15/2006	7.13	13.2	d			4510					
PC119	8/21/2006	7.13	18.2	d			4880					
PC119	8/28/2006	7.13	9.08	d			4130					
PC119	9/5/2006	6.43	11.3	d			4110					
PC119	9/11/2006	6.43	11.2	d			4130					
PC119	9/18/2006	6.43	11.8	d			4040					
PC119	9/25/2006	6.43	8.88	d			3920					
PC119	10/2/2006	6.16	8.78	d			3910					
PC119	10/9/2006	6.16	7.94	d			3800					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC119	10/16/2006	6.16	10.7	d			3920					
PC119	10/23/2006	6.16	10.4	d			4210					
PC119	10/30/2006	6.16	11.2	d			4250					
PC119	11/13/2006	2.65	11.9	d			4330					
PC119	11/20/2006	2.65	12	d			4500					
PC119	11/27/2006	2.65	11.6	d			4520					
PC119	12/4/2006	3.85	13.8	d			4520					
PC119	12/11/2006	3.85	12.8	d			4430					
PC119	12/18/2006	3.85	11.8				4320					
PC119	12/26/2006	3.85	10.1				4160					
PC119	1/2/2007	4.89	10.9				4170					
PC119	1/8/2007	4.89	11.6				4160					
PC119	1/15/2007	4.89	10.4				4230					
PC119	1/22/2007	4.89	11.1				4120					
PC119	1/29/2007	4.89	9.4				4050					
PC119	2/5/2007	4.95	8.07		<0.02	U	3990					
PC119	2/12/2007	4.95	8.92				3890					
PC119	2/19/2007	4.95	7.89				3820					
PC119	2/26/2007	4.95	6.96				3820					
PC119	3/19/2007	5.37	7.63				3840					
PC119	3/26/2007	5.37	6.89				3780					
PC119	4/2/2007	6.22	5.88				3670					
PC119	4/9/2007	6.22	7.11				3930					
PC119	4/16/2007	6.22	7.27				3940					
PC119	4/23/2007	6.22	7				3900					
PC119	4/30/2007	6.22	14				3750					
PC119	5/7/2007	6.07	6.95		<0.02	U	3880					
PC119	5/14/2007	6.07	8.21				4150					
PC119	5/21/2007	6.07	7.63				4020					
PC119	5/29/2007	6.07	8.64				4330					
PC119	6/4/2007	6.43	7.88				4270					
PC119	6/11/2007	6.43	7.94				4130					
PC119	6/18/2007	6.43	8.12				4230					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC119	6/25/2007	6.43	8.15				4200					
PC119	7/2/2007	7.60	8.72				4200					
PC119	7/10/2007	7.60	7.69				4160					
PC119	7/16/2007	7.60	7.48				3990					
PC119	7/23/2007	7.60	7.15				4070					
PC119	7/30/2007	7.60	7.14				3970					
PC119	8/6/2007	7.09	4.39				3500					
PC119	8/13/2007	7.09	4.28		<0.01	u	3470					
PC119	8/20/2007	7.09	4.08				3440					
PC119	8/27/2007	7.09	3.75				3340					
PC119	9/4/2007	7.95	3.74				3290					
PC119	9/10/2007	7.95	3.84				3310					
PC119	9/17/2007	7.95	3.9				3230					
PC119	9/24/2007	7.95	3.45				3220					
PC12	1/10/2006	26.42	76	d								
PC12	2/8/2006	26.69	72	d	0.4	d						
PC12	3/7/2006	26.94	71	d								
PC12	4/12/2006	27.26	96.2	d								
PC12	5/9/2006	27.45	77.7	d	0.48	d						
PC12	6/14/2006	27.85	79.2	d								
PC12	7/12/2006	27.82	83.1	d								
PC12	8/9/2006	28.27	73.9	d	0.28	d	6980					
PC12	9/13/2006	27.99	82.1	d			6110					
PC12	10/11/2006	28.47	91.4	d			7820					
PC12	11/8/2006	28.01	77.7	d	0.21	d	8300					
PC12	12/12/2006	28.12	73.5	d			7700					
PC12	1/9/2007	28.52	68.9				7210					
PC12	2/8/2007	28.78	64.9		0.2		7490					
PC120	1/3/2006	2.69	7	d								
PC120	1/9/2006	2.69	13	d								
PC120	1/16/2006	2.69	13	d								
PC120	1/23/2006	2.69	6	d								
PC120	1/23/2006	2.69	6	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC120	2/6/2006	3.97	5	d	<0.01	ud						
PC120	2/13/2006	3.97	5	d								
PC120	2/20/2006	3.97	5	d								
PC120	2/27/2006	3.97	12	d								
PC120	3/6/2006	3.72	4	d								
PC120	3/13/2006	3.72	5	d								
PC120	3/20/2006	3.72	4.2	d								
PC120	3/28/2006	3.72	5	d								
PC120	4/3/2006	4.00	4	d								
PC120	4/10/2006	4.00	4.07	d								
PC120	4/17/2006	4.00	4.72	d								
PC120	4/24/2006	4.00	4.88	d								
PC120	5/1/2006	5.83	3.87	d								
PC120	5/8/2006	5.83	2.84	d	<0.01	ud						
PC120	5/15/2006	5.83	2.92	d								
PC120	5/22/2006	5.83	3	d								
PC120	5/30/2006	5.83	2.3	d								
PC120	6/5/2006	6.59	2.39	d								
PC120	6/12/2006	6.59	2.16	d								
PC120	6/19/2006	6.59	2.7	d								
PC120	6/27/2006	6.59	2.56	d								
PC120	7/5/2006	7.85	2.59	d								
PC120	7/10/2006	7.85	2.63	d								
PC120	7/17/2006	7.85	2.63	d								
PC120	7/24/2006	7.85	2.62	d			3010					
PC120	7/31/2006	7.85	2.13	d			2940					
PC120	8/7/2006	6.89	2.89	d	<0.01	ud	3210					
PC120	8/15/2006	6.89	3.32	d			2700					
PC120	8/21/2006	6.89	2.94	d			3140					
PC120	8/28/2006	6.89	2.67	d			2700					
PC120	9/5/2006	4.54	3.34	d			3060					
PC120	9/11/2006	4.54	3.36	d			3010					
PC120	9/18/2006	4.54	3.27	d			3060					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC120	9/25/2006	4.54	2.74	d			2930					
PC120	10/2/2006	4.36	2.75	d			2960					
PC120	10/9/2006	4.36	2.81	d			2970					
PC120	10/16/2006	4.36	2.48	d			2910					
PC120	10/23/2006	4.36	2.66	d			2880					
PC120	10/30/2006	4.36	2.52	d			2900					
PC120	11/13/2006	1.70	6.92	d			3610					
PC120	11/20/2006	1.70	8.71	d			3980					
PC120	11/27/2006	1.70	9.64	d			4040					
PC120	12/4/2006	2.48	6.72	d			3730					
PC120	12/11/2006	2.48	6.06	d			3620					
PC120	12/18/2006	2.48	6.19				3610					
PC120	12/26/2006	2.48	5.8				3540					
PC120	1/2/2007	2.73	6.29				3600					
PC120	1/8/2007	2.73	6.76				3680					
PC120	1/15/2007	2.73	6.46				3600					
PC120	1/22/2007	2.73	4.37				3270					
PC120	1/29/2007	2.73	3.61				3210					
PC120	2/5/2007	3.19	3.44		<0.02	U	3220					
PC120	2/12/2007	3.19	3.66				3130					
PC120	2/19/2007	3.19	3.35				3080					
PC120	2/26/2007	3.19	2.34				3040					
PC120	3/7/2007	3.37	2.69				3070					
PC120	3/12/2007	3.37	5.69				3660					
PC120	3/19/2007	3.37	5.75				3620					
PC120	3/26/2007	3.37	2.46				2960					
PC120	4/2/2007	6.14	2.4				2960					
PC120	4/9/2007	6.14	2.1				2860					
PC120	4/16/2007	6.14	2.08				2870					
PC120	4/23/2007	6.14	1.82				2760					
PC120	4/30/2007	6.14	1.64				2640					
PC120	5/7/2007	5.58	1.96		<0.02	U	2800					
PC120	5/14/2007	5.58	2.26				2960					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC120	5/21/2007	5.58	2.02				2580					
PC120	5/29/2007	5.58	2.02				2960					
PC120	6/4/2007	7.35	1.92				2910					
PC120	6/11/2007	7.35	2.07				2840					
PC120	6/18/2007	7.35	2.36				2940					
PC120	6/25/2007	7.35	2.15				2930					
PC120	7/2/2007	8.53	1.94				2860					
PC120	7/10/2007	8.53	2				2870					
PC120	7/16/2007	8.53	1.91				2820					
PC120	7/23/2007	8.53	1.55				2810					
PC120	7/30/2007	8.53	1.88				2840					
PC120	8/6/2007	5.45	2.02				2820					
PC120	8/13/2007	5.45	1.88		<0.01	u	2840					
PC120	8/20/2007	5.45	1.52				2730					
PC120	8/27/2007	5.45	1.46				2690					
PC120	9/4/2007	6.09	1.34				2660					
PC120	9/10/2007	6.09	1.59				2700					
PC120	9/17/2007	6.09	1.61				2680					
PC120	9/24/2007	6.09	1.32				2650					
PC121	1/3/2006	2.85	4	d								
PC121	1/9/2006	2.85	4	d								
PC121	1/16/2006	2.85	4	d								
PC121	1/23/2006	2.85	4	d								
PC121	1/23/2006	2.85	4	d								
PC121	2/6/2006	3.56	4	d	<0.01	ud						
PC121	2/13/2006	3.56	3	d								
PC121	2/20/2006	3.56	4	d								
PC121	2/27/2006	3.56	4	d								
PC121	3/6/2006	3.74	3	d								
PC121	3/13/2006	3.74	3	d								
PC121	3/20/2006	3.74	3.5	d								
PC121	3/28/2006	3.74	4	d								
PC121	4/3/2006	4.02	3	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC121	4/10/2006	4.02	2.71	d								
PC121	4/17/2006	4.02	2.94	d								
PC121	4/24/2006	4.02	2.98	d								
PC121	5/1/2006	4.96	2.17	d								
PC121	5/8/2006	4.96	2.34	d	<0.01	ud						
PC121	5/15/2006	4.96	2.35	d								
PC121	5/22/2006	4.96	2	d								
PC121	5/30/2006	4.96	2.04	d								
PC121	6/5/2006	5.67	2.2	d								
PC121	6/12/2006	5.67	2.02	d								
PC121	6/19/2006	5.67	2.39	d								
PC121	6/27/2006	5.67	1.66	d								
PC121	7/5/2006	7.51	1.54	d								
PC121	7/10/2006	7.51	1.42	d								
PC121	7/17/2006	7.51	1.52	d								
PC121	7/24/2006	7.51	1.37	d			2980					
PC121	7/31/2006	7.51	1.39	d			2680					
PC121	8/7/2006	11.06	1.49	d	<0.01	ud	3160					
PC121	8/15/2006	11.06	1.21	d			2730					
PC121	8/21/2006	11.06	1.33	d			2720					
PC121	8/28/2006	11.06	1.53	d			2670					
PC121	9/5/2006	6.72	1.53	d			2640					
PC121	9/11/2006	6.72	1.53	d			2700					
PC121	9/18/2006	6.72	1.62	d			2610					
PC121	9/25/2006	6.72	0.704	d			2670					
PC121	10/2/2006	4.37	1.69	d			2790					
PC121	10/9/2006	4.37	1.58	d			2670					
PC121	10/16/2006	4.37	1.74	d			2690					
PC121	10/23/2006	4.37	1.55	d			2640					
PC121	10/30/2006	4.37	2.31	d			7100					
PC121	11/13/2006	1.89	2.95	d			3060					
PC121	11/20/2006	1.89	2.68	d			3020					
PC121	11/27/2006	1.89	2.81	d			3070					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC121	12/4/2006	2.56	3.16	d			3040					
PC121	12/11/2006	2.56	2.69	d			3050					
PC121	12/18/2006	2.56	2.72				2980					
PC121	12/26/2006	2.56	2.57				2960					
PC121	1/2/2007	2.76	3.15				2980					
PC121	1/8/2007	2.76	3.24				3090					
PC121	1/15/2007	2.76	3.16				3110					
PC121	1/22/2007	2.76	3.28				3040					
PC121	1/29/2007	2.76	2.89				3040					
PC121	2/5/2007	3.17	2.6		<0.02	U	2910					
PC121	2/12/2007	3.17	2.91				2990					
PC121	2/19/2007	3.17	2.58				2950					
PC121	2/26/2007	3.17	2.26				2910					
PC121	3/7/2007	3.29	2.03				2820					
PC121	3/12/2007	3.29	1.94				2800					
PC121	3/19/2007	3.29	1.81				2750					
PC121	3/26/2007	3.29	1.82				2810					
PC121	4/2/2007	4.49	1.89				2800					
PC121	4/9/2007	4.49	1.92				2770					
PC121	4/16/2007	4.49	1.54				2640					
PC121	4/23/2007	4.49	1.43				2640					
PC121	4/30/2007	4.49	1.61				2700					
PC121	5/7/2007	4.33	1.4		<0.02	U	2750					
PC121	5/14/2007	4.33	1.49				2500					
PC121	5/21/2007	4.33	1.43				3860					
PC121	5/29/2007	4.33	1.52				2780					
PC121	6/4/2007	5.26	1.32				2780					
PC121	6/11/2007	5.26	1.05				2620					
PC121	6/18/2007	5.26	1.09				2650	J-				
PC121	6/25/2007	5.26	1.1				2570					
PC121	7/2/2007	6.47	1.24				2640					
PC121	7/10/2007	6.47	1.02				2630					
PC121	7/16/2007	6.47	1.2				2620					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC121	7/23/2007	6.47	1.27				2660					
PC121	7/30/2007	6.47	1.34				2620					
PC121	8/6/2007	5.43	1.32				2600					
PC121	8/13/2007	5.43	1.35		<0.01	u	2640					
PC121	8/20/2007	5.43	1.56				2760					
PC121	8/27/2007	5.43	1.57				2730					
PC121	9/4/2007	6.00	1.59				2680					
PC121	9/10/2007	6.00	1.44				2660					
PC121	9/17/2007	6.00	1.37				2650					
PC121	9/24/2007	6.00	1.27				2620					
PC122	1/9/2006	27.63	9	d								
PC122	2/7/2006	27.94	9	d	0.11	d						
PC122	3/7/2006	28.24	10	d								
PC122	4/12/2006	28.63	12.3	d								
PC122	5/10/2006	28.88	8.5	d	0.077	d						
PC122	6/12/2006	29.24	9.19	d								
PC122	7/13/2006	29.64	10.1	d								
PC122	8/10/2006	29.54	12	d	0.12	d	8650					
PC122	10/10/2006	30.03	15.2	d			9620					
PC122	11/9/2006	29.51	12.2	d	0.12	d	9400					
PC122	12/11/2006	29.58	11.6	d			8620					
PC122	1/10/2007	30.06	11.1				7770					
PC122	2/8/2007	30.34	12.7		0.1		9740					
PC122	3/12/2007	29.97	10.7				11200					
PC122	4/9/2007	31.17	10.8				9730					
PC122	5/8/2007	31.17	10.8		0.083		8400					
PC122	6/11/2007	31.41	9.69				9520	J-				
PC122	7/12/2007	31.64	11.2				10000					
PC122	8/14/2007	31.89	10		0.081		9550					
PC122	9/11/2007	32.41	11.5				8570					
PC123	1/30/2006	0.00	350	d	1.4	d						
PC123	5/1/2006	22.99	360	d	1.4	d	8230					
PC123	7/31/2006	0.00	313	d	1.5	d	6250					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC123	10/30/2006	0.00	388	d	1.5	d	7200					
PC123	1/29/2007	0.00	360		1.3		6640					
PC123	4/30/2007	0.00	393		1.5		7670					
PC123	7/30/2007	0.00	380		1.5		8080					
PC124	1/30/2006	0.00	4	d	<0.01	ud						
PC124	5/1/2006	24.53	5.1	d	0.34	d	4800	10	d	46.1	d	
PC124	7/31/2006	0.00	4.42	d	0.025	d	4540	13	d	60.4	d	
PC124	10/30/2006	0.00	5.07	d	0.15	d	5850	14.4	d	65.9	d	
PC124	1/29/2007	0.00	4.45		<0.02	U	5650					
PC124	4/30/2007	0.00	4.68		0.026		5970	15.7		66.2		
PC124	7/30/2007	0.00	4.81		0.023		6030					
PC125	1/30/2006	0.00	5	d	0.02	d						
PC125	5/1/2006	23.16	5.6	d	0.054	d	5410					
PC125	7/31/2006	0.00	5.18	d	0.03	d	4770					
PC125	10/30/2006	0.00	6.02	d	0.024	d	6360					
PC125	1/29/2007	0.00	5.52		0.022		6100					
PC125	4/30/2007	0.00	5.78		0.025		6330					
PC125	7/30/2007	0.00	5.53		0.025		6440					
PC126	1/30/2006	0.00	10	d	0.073	d						
PC126	5/1/2006	22.24	11.9	d	0.077	d	10100	34	d	248	d	
PC126	7/31/2006	0.00	10.4	d	0.086	d	10400	48	d	256	d	
PC126	10/30/2006	0.00	10.7	d	0.075	d	11280	43.4	d	220	d	
PC126	1/29/2007	0.00	10.5		0.081		7240					
PC126	4/30/2007	0.00	9		0.067		8480	38.8		184		
PC126	7/30/2007	0.00	11.7		0.086		11050	J-				
PC127	1/30/2006	0.00	380	d	1.3	d						
PC127	5/1/2006	18.63	370	d	1.4	d	8100					
PC127	7/31/2006	0.00	344	d	1.3	d	6350					
PC127	10/30/2006	0.00	386	d	1.4	d	7850					
PC127	1/29/2007	0.00	337		1.2		6940					
PC127	5/1/2007	19.05	305		1.5		7730					
PC127	7/30/2007	0.00	417		1.5		8310					
PC128	1/30/2006	0.00	120	d	0.061	d						

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PC128	5/1/2006	18.75	120	d	0.062	d	4040		5	d	72.4	d
PC128	7/31/2006	0.00	97	d	0.052	d	3740		8.9	d	69.3	d
PC128	10/30/2006	0.00	137	d	<0.01	ud	4720		11.7	d	113	d
PC128	1/29/2007	0.00	157		0.091		5050					
PC128	4/30/2007	0.00	172		0.1		5560		14.9		151	
PC128	7/30/2007	0.00	170		0.11		5480					
PC129	1/30/2006	0.00	390	d	0.9	d						
PC129	5/1/2006	18.79	470	d	0.57	d	4900					
PC129	7/31/2006	0.00	349	d	0.52	d	5100					
PC129	10/30/2006	0.00	430	d	0.61	d	6510					
PC129	1/29/2007	0.00	407		0.57		7110					
PC129	4/30/2007	0.00	373		0.59		6110					
PC129	7/30/2007	0.00	400		0.61		6980					
PC130	1/30/2006	0.00	420	d	0.61	d						
PC130	5/1/2006	19.51	430	d	0.6	d	5020		17	d	584	d
PC130	7/31/2006	0.00	379	d	0.6	d	4910		18	d	575	d
PC130	10/30/2006	0.00	432	d	0.6	d	6360		35.5	d	580	d
PC130	1/29/2007	0.00	434		0.62		6470					
PC130	4/30/2007	0.00	445		0.71		6880		37.3		651	
PC130	7/30/2007	0.00	472		0.69		7410					
PC131	1/30/2006	0.00	32	d	<0.01	ud						
PC131	5/1/2006	11.42	28	d	<0.01	ud						
PC131	7/31/2006	0.00	21.2	d	<0.01	ud	8400					
PC131	10/30/2006	0.00	17.9	d	<0.01	ud	9240					
PC131	1/29/2007	0.00	16.7		<0.02	U	9440					
PC131	4/30/2007	0.00	14.4		<0.02	U	8720					
PC131	7/30/2007	0.00	13		<0.01	u	9320					
PC132	1/30/2006	0.00	10	d	<0.01	ud						
PC132	5/1/2006	9.97	8	d	<0.01	ud	9660		<0.1	ud	6.2	d
PC132	7/31/2006	0.00	5.31	d	<0.01	ud	8580		<0.1	ud	5.46	d
PC132	10/30/2006	0.00	4.93	d	<0.01	ud	9020		1.1	d	5.71	d
PC132	1/29/2007	0.00	4.88		<0.02	U	8800					
PC132	4/30/2007	0.00	3.69		<0.02	U	8560		<2.5	U	3.54	

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC132	7/30/2007	0.00	3.3		<0.01	u	9220					
PC133	1/3/2006	18.06	12	d								
PC133	1/9/2006	18.06	12	d								
PC133	1/16/2006	18.06	13	d								
PC133	1/23/2006	18.06	12	d								
PC133	1/23/2006	18.06	13	d								
PC133	2/6/2006	18.64	12	d	<0.01	ud						
PC133	2/13/2006	18.64	13	d								
PC133	2/20/2006	18.64	12	d								
PC133	2/27/2006	18.64	12	d								
PC133	3/6/2006	18.94	12	d								
PC133	3/13/2006	18.94	12	d								
PC133	3/20/2006	18.94	12	d								
PC133	3/28/2006	18.94	12	d								
PC133	4/3/2006	19.14	11	d								
PC133	4/10/2006	19.14	10.7	d								
PC133	4/17/2006	19.14	12.1	d								
PC133	4/24/2006	19.14	11.2	d								
PC133	5/1/2006	19.94	11.6	d								
PC133	5/8/2006	19.94	8.9	d	<0.01	ud						
PC133	5/15/2006	19.94	8.9	d								
PC133	5/22/2006	19.94	9	d								
PC133	5/30/2006	19.94	7.53	d								
PC133	6/5/2006	20.90	9.13	d								
PC133	6/12/2006	20.90	8.97	d								
PC133	6/19/2006	20.90	7.68	d								
PC133	6/27/2006	20.90	7.26	d								
PC133	7/5/2006	23.04	6.89	d								
PC133	7/10/2006	23.04	6.8	d								
PC133	7/17/2006	23.04	6.35	d								
PC133	7/24/2006	23.04	5.9	d			3470					
PC133	7/31/2006	23.04	5.8	d			3340					
PC133	8/7/2006	19.75	6.92	d	<0.01	ud	3420					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC133	8/15/2006	19.75	5.77	d			3420					
PC133	8/21/2006	19.75	5.52	d			3740					
PC133	8/28/2006	19.75	5.49	d			3450					
PC133	9/5/2006	19.52	7.04	d			3780					
PC133	9/11/2006	19.52	6.99	d			3840					
PC133	9/18/2006	19.52	6.89	d			3400					
PC133	9/25/2006	19.52	7.16	d			3720					
PC133	10/2/2006	19.35	6.75	d			3870					
PC133	10/9/2006	19.35	7.23	d			3910					
PC133	10/16/2006	19.35	6.51	d			3920					
PC133	10/23/2006	19.35	6.79	d			3980					
PC133	10/30/2006	19.35	6.43	d			3980					
PC133	11/13/2006	16.87	6.11	d			3850					
PC133	11/20/2006	16.87	6.13	d			3890					
PC133	11/27/2006	16.87	7.02	d			3910					
PC133	12/4/2006	5.33	7.89	d			3940					
PC133	12/11/2006	5.33	8	d			3710					
PC133	12/18/2006	5.33	9.11				4120					
PC133	12/26/2006	5.33	8.52				4160					
PC133	1/2/2007	5.49	9.3				4140					
PC133	1/8/2007	5.49	9.37				4480					
PC133	1/15/2007	5.49	9.54				4250					
PC133	1/22/2007	5.49	8.5				4130					
PC133	1/29/2007	5.49	8.39				4220					
PC133	2/5/2007	5.95	8.2		<0.02	U	4140					
PC133	2/12/2007	5.95	9.22				4230					
PC133	2/19/2007	5.95	9.41				4210					
PC133	2/26/2007	5.95	8.42				4430					
PC133	3/7/2007	6.15	8.73				4790					
PC133	3/12/2007	6.15	8.66				5030					
PC133	3/19/2007	6.15	8.5				5080					
PC133	3/26/2007	6.15	8.43				5060					
PC133	4/2/2007	0.00	8.25				5050					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC133	4/9/2007	0.00	7.65				4990					
PC133	4/16/2007	0.00	7.63				4180					
PC133	4/23/2007	0.00	7.36				4130					
PC133	4/30/2007	0.00	7.38				4080					
PC133	5/7/2007	19.48	6.81		<0.02	U	3880					
PC133	5/14/2007	19.48	6.9				3970					
PC133	5/21/2007	19.48	6.44				3040					
PC133	5/29/2007	19.48	6.06				3920					
PC133	6/4/2007	20.16	5.68				3960					
PC133	6/11/2007	20.16	5.57				3760					
PC133	6/18/2007	20.16	5.11				3650					
PC133	6/25/2007	20.16	4.67				3580					
PC133	7/2/2007	21.06	4.63				3540					
PC133	7/10/2007	21.06	4.44				3550					
PC133	7/16/2007	21.06	4.38				3500					
PC133	7/23/2007	21.06	3.95				3470					
PC133	7/30/2007	21.06	4				3400					
PC133	8/6/2007	21.10	3.74				3260					
PC133	8/13/2007	21.10	3.45		<0.01	u	3130					
PC133	8/20/2007	21.10	3.2				3140					
PC133	8/27/2007	21.10	3.11				3100					
PC133	9/4/2007	19.90	2.92				3020					
PC133	9/10/2007	19.90	2.77				3020					
PC133	9/17/2007	19.90	2.78				2900					
PC133	9/24/2007	19.90	2.64				2870					
PC17	1/10/2006	26.25	500	d								
PC17	2/8/2006	26.42	460	d	0.26	d						
PC17	3/7/2006	26.44	460	d								
PC17	4/12/2006	26.77	386	d								
PC17	5/9/2006	27.01	443	d	0.25	d						
PC17	6/14/2006	27.43	393	d								
PC17	7/12/2006	27.43	372	d								
PC17	8/9/2006	27.16	356	d	0.16	d	9990					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC17	9/13/2006	26.43	370	d			9310					
PC17	10/11/2006	26.15	367	d			9920					
PC17	11/8/2006	25.28	385	d	0.28	d	8620					
PC17	12/12/2006	25.37	379	d			8370					
PC17	1/9/2007	25.60	377				8500					
PC17	2/8/2007	26.16	397		0.28		10000					
PC17	3/14/2007	26.71	330				10100					
PC17	4/11/2007	27.02	364				9430					
PC17	5/9/2007	27.73	219		0.12		7900					
PC17	6/13/2007	28.03	231				10200					
PC17	7/12/2007	28.25	253				10300					
PC17	8/15/2007	28.09	209		0.12		13200					
PC17	9/12/2007	28.32	252				9540					
PC18	1/10/2006	27.22	340	d								
PC18	2/8/2006	27.31	320	d	0.14	d						
PC18	3/7/2006	27.52	310	d								
PC18	4/12/2006	27.79	295	d								
PC18	5/9/2006	27.92	295	d	0.15	d						
PC18	6/14/2006	28.13	305	d								
PC18	7/12/2006	28.14	292	d								
PC18	8/9/2006	27.85	308	d	0.14	d	9890					
PC18	9/13/2006	27.21	314	d			9100					
PC18	10/11/2006	26.93	307	d			9400					
PC18	11/8/2006	26.35	259	d	0.14	d	10000					
PC18	12/12/2006	26.42	211	d			9000					
PC18	1/9/2007	26.43	244				9130					
PC18	2/7/2007	27.09	255		0.15		9980					
PC18	3/14/2007	27.62	267				10300					
PC18	4/11/2007	27.84	238				9730					
PC18	5/9/2007	28.19	214		0.14		8100					
PC18	6/13/2007	28.48	222				9960					
PC18	7/12/2007	28.69	240				10300					
PC18	8/15/2007	29.54	192		0.13		8100	J				

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC18	9/12/2007	28.73	250				9410					
PC2	5/3/2006	22.23	4.2	d	0.27	d	4460		6.6	d	21	d
PC2	5/1/2007	18.65	3.74	d	<0.02	U	6340		9.74	d	19	d
PC21A	5/4/2006	26.61	4	d	0.21	d	16500		27	d	531	d
PC21A	5/2/2007	27.68	4.35		0.3		13150		42.9		1080	
PC24	5/6/2006	24.47	13	d	0.088	d	12200					
PC24	5/2/2007	21.03	12.9		0.11		10100					
PC28	5/5/2006	---	530	d	0.84	d	7330					
PC28	5/2/2007	11.72	489		0.87		5720					
PC2D	5/1/2007	---	3.34	d	<0.02	U	6050		9.14	d	18.2	d
PC31	5/5/2006	---	5	d	<0.01	ud	5780					
PC31	5/2/2007	10.90	3.92		<0.02	U	5050					
PC31D	5/2/2007	---	3.71		<0.02	U	4100					
PC37	1/30/2006	24.11	320	d	0.22	d						
PC37	5/1/2006	24.08	280	d	0.19	d	5630					
PC37	7/31/2006	24.17	249	d	0.17	d	6200					
PC37	10/30/2006	24.21	323	d	0.19	d	7180					
PC37	1/29/2007	24.01	284		0.15		7040					
PC37	4/30/2007	24.06	292		0.18		7120					
PC37	7/30/2007	24.23	308		0.18		7560					
PC4	5/3/2006	23.97	0.009		0.1	d	5230		20	d	94.2	d
PC4	4/30/2007	26.14	7.05		0.09		6360		27.5		111	
PC40	5/6/2006	---	32	d	<0.01	ud	12100					
PC40	5/3/2007	---	26.6		0.046	d	10100					
PC50	5/6/2006	---	430	d	0.12	d	9220					
PC50	5/2/2007	12.62	324		0.13		8550					
PC53	1/11/2006	22.51	3	d								
PC53	2/9/2006	23.77	2	d	0.046	d						
PC53	3/7/2006	24.39	3	d								
PC53	4/12/2006	24.52	1.73	d								
PC53	5/10/2006	25.41	3.65	d	0.039	d						
PC53	6/15/2006	25.99	3.97	d								
PC53	7/13/2006	26.23	3.81	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC53	8/10/2006	19.92	3.19	d	<0.01	ud	3800					
PC53	9/13/2006	23.58	3.04	d			3570					
PC53	10/12/2006	24.36	2.89	d			4120					
PC53	11/9/2006	20.20	2.38	d	<0.01	ud	4330					
PC53	12/12/2006	22.71	2.31	d			4300					
PC53	1/10/2007	23.25	3.43				4190					
PC53	2/6/2007	24.00	3.66		<0.02	U	4460					
PC53	3/15/2007	23.69	3.61				4550					
PC53	4/12/2007	24.71	3.48				4380					
PC53	5/10/2007	19.56	2.75		<0.02	U	4320					
PC53	6/14/2007	18.22	1.58				4120					
PC53	7/13/2007	25.39	2.8				4340					
PC53	8/17/2007	24.29	2.44		0.021		4470					
PC53	9/19/2007	25.81	3.14				4360					
PC54	1/30/2006	15.07	460	d	3.4	d						
PC54	5/1/2006	15.14	430	d	3.4	d	5560					
PC54	7/31/2006	15.18	369	d	3.4	d	5160					
PC54	10/30/2006	15.33	358	d	3.1	d	7340					
PC54	1/29/2007	15.38	337		2.8		6790					
PC54	4/30/2007	15.53	320		2.8		6890					
PC54	7/30/2007	15.77	311		2.6		7340					
PC55	1/11/2006	25.08	2	d								
PC55	2/7/2006	25.18	2.3	d	<0.01	ud						
PC55	3/6/2006	25.41	3	d								
PC55	4/12/2006	25.62	2.97	d								
PC55	5/11/2006	25.65	3.19	d	<0.01	ud						
PC55	6/13/2006	25.97	2.95	d								
PC55	7/11/2006	25.98	2.76	d								
PC55	8/9/2006	25.96	2.51	d	<0.01	ud	8580					
PC55	9/13/2006	25.70	2.29	d			6140					
PC55	10/10/2006	24.77	2.33	d			7860					
PC55	11/7/2006	24.22	1.82	d	<0.01	ud	8020					
PC55	12/12/2006	24.25	1.44	d			7200					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC55	1/8/2007	24.22	1.7				8060					
PC55	2/7/2007	24.94	1.79		<0.05	U	7800					
PC55	3/13/2007	25.37	1.52				8070					
PC55	4/10/2007	25.65	1.7				7620					
PC55	5/8/2007	25.96	1.35		<0.02	U	6650					
PC55	6/12/2007	24.61	1.32				7920					
PC55	7/11/2007	26.42	1.34				7840					
PC55	8/14/2007	26.27	1.08		<0.01	u	7050					
PC55	9/11/2007	26.94	1.25				7790					
PC56	1/9/2006	8.61	7	d								
PC56	2/7/2006	8.49	3	d	<0.01	ud						
PC56	3/8/2006	10.03	1	d								
PC56	4/12/2006	10.21	4.85	d								
PC56	5/10/2006	11.16	3.63	d	<0.01	ud						
PC56	6/12/2006	12.13	4.67	d								
PC56	7/10/2006	12.83	16.1	d								
PC56	8/9/2006	10.22	12.9	d	0.032	d	5750					
PC56	9/13/2006	10.75	28.2	d			4500					
PC56	10/10/2006	10.73	12.9	d			3600					
PC56	11/7/2006	7.71	17.5	d	<0.01	ud	5560					
PC56	12/11/2006	8.46	6.77	d			5790					
PC56	1/8/2007	8.86	3.2				3530					
PC56	2/8/2007	9.41	3.33		<0.02	U	3850					
PC56	3/12/2007	9.38	5.33				3620					
PC56	4/9/2007	10.43	12.5				4260					
PC56	5/8/2007	9.26	11.9		<0.02	U	4870					
PC56	6/11/2007	10.38	10.6				4380	J-				
PC56	7/11/2007	12.48	2.88				2550					
PC56	8/13/2007	11.76	1.25		<0.01	u	2040					
PC56	9/10/2007	12.84	3.52				2520					
PC58	1/9/2006	8.12	7	d								
PC58	2/7/2006	8.01	7	d	0.11	d						
PC58	3/8/2006	9.34	6	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC58	4/12/2006	9.61	6.45	d								
PC58	5/10/2006	10.12	5.84	d	0.062	d						
PC58	6/12/2006	11.07	3.57	d								
PC58	7/10/2006	11.96	4.37	d								
PC58	8/9/2006	10.69	2.05	d	0.091	d	4970					
PC58	9/13/2006	9.91	3.91	d			4480					
PC58	10/10/2006	9.81	2.79	d			5390					
PC58	11/7/2006	7.31	3.55	d	0.05	d	5820					
PC58	12/11/2006	7.83	2.35	d			5340					
PC58	1/8/2007	8.10	1.94				5080					
PC58	2/8/2007	8.70	5.55		0.071		5000					
PC58	3/12/2007	8.85	3.23				5560					
PC58	4/9/2007	9.77	3.34				5570					
PC58	5/8/2007	9.12	3.56		0.06		5630					
PC58	6/11/2007	10.43	3.9				6000	J-				
PC58	7/11/2007	12.06	5.48				6380					
PC58	8/13/2007	11.78	7.91		0.11		6550					
PC59	1/9/2006	9.46	12	d								
PC59	2/7/2006	10.13	11	d	<0.01	ud						
PC59	3/8/2006	10.58	10	d								
PC59	4/12/2006	10.83	9.75	d								
PC59	5/10/2006	11.67	9.33	d	<0.01	ud						
PC59	6/12/2006	12.68	8.14	d								
PC59	7/10/2006	13.28	8.17	d								
PC59	8/9/2006	12.29	8.12	d	<0.01	ud	5560					
PC59	9/13/2006	11.46	9.81	d			4100					
PC59	10/10/2006	11.34	9.94	d			4370					
PC59	11/7/2006	8.93	13.1	d	<0.01	ud	4470					
PC59	12/11/2006	9.24	9.98	d			4580					
PC59	1/8/2007	9.56	7.94				4820					
PC59	2/8/2007	9.95	7.94		<0.02	U	5020					
PC59	3/12/2007	9.91	6.38				5170					
PC59	4/9/2007	10.74	5.62				5330					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC59	5/8/2007	10.44	5.5		<0.02	U	4980					
PC59	6/11/2007	11.53	5.21				5140	J-				
PC59	7/11/2007	12.98	5.55				4900					
PC59	8/13/2007	12.37	5.16		<0.01	u	4620					
PC59	9/10/2007	12.13	5.8				4510					
PC60	1/9/2006	8.58	13	d								
PC60	2/7/2006	9.43	9	d	<0.01	ud						
PC60	3/8/2006	10.01	8	d								
PC60	4/12/2006	10.28	8.4	d								
PC60	5/10/2006	11.13	8.07	d	0.015							
PC60	6/12/2006	12.11	8.67	d								
PC60	7/10/2006	12.79	9.97	d								
PC60	8/9/2006	11.17	9.32	d	<0.01	ud	5090					
PC60	9/13/2006	10.71	10.9	d			4590					
PC60	10/10/2006	10.69	9.71	d			4480					
PC60	11/7/2006	7.64	8.06	d	<0.01	ud	4360					
PC60	12/11/2006	8.42	7.64	d			3910					
PC60	1/8/2007	8.82	5.88				3820					
PC60	2/8/2007	9.35	4.43		<0.02	U	3880					
PC60	3/12/2007	9.33	4.35				3930					
PC60	4/9/2007	9.74	3.36				3920					
PC60	5/8/2007	9.15	4.35		<0.02	U	3780					
PC60	6/11/2007	10.04	4.44				3970	J-				
PC60	7/11/2007	12.41	5.94				4110					
PC60	8/13/2007	11.71	6.5		<0.01	u	3990					
PC60	9/10/2007	12.74	7.9				4080					
PC62	1/9/2006	10.03	4	d								
PC62	2/7/2006	10.57	4	d	<0.01	ud						
PC62	3/8/2006	10.87	3	d								
PC62	4/12/2006	11.07	2.79	d								
PC62	5/10/2006	11.78	3.05	d	<0.01	ud						
PC62	6/12/2006	12.67	2.63	d								
PC62	7/10/2006	13.17	3.07	d								

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC62	8/9/2006	12.22	3.05	d	<0.01	ud	3460					
PC62	9/13/2006	11.52	3.76	d			3300					
PC62	10/10/2006	11.45	3.66	d			3240					
PC62	11/7/2006	9.47	3.09	d	<0.01	ud	2930					
PC62	12/11/2006	9.71	4.34	d			3720					
PC62	1/8/2007	9.92	3.02				3480					
PC62	2/8/2007	10.23	2.42		<0.02	U	3290					
PC62	3/12/2007	10.14	2.33				3220					
PC62	4/9/2007	10.79	2.24				3280					
PC62	5/1/2007	11.21	1.74	d	<0.02	U	3140					
PC62	5/8/2007	10.92	2.2		<0.02	U	2980					
PC62	6/11/2007	11.95	3.53				3450	J-				
PC62	7/11/2007	13.01	4.17				3510					
PC62	8/13/2007	12.36	3.69		<0.01	u	3460					
PC62	9/10/2007	12.99	3.76				3300					
PC64	5/5/2006	---	984	d	3.3	d	10400					
PC64	5/5/2006	---	960	d	3.4	d	10600					
PC64	5/2/2007	6.95	760		2.9		8200					
PC68	1/9/2006	8.99	0.4	d								
PC68	2/7/2006	9.53	0.45	d	<0.01	ud						
PC68	3/8/2006	9.74	0.45	d								
PC68	4/12/2006	9.97	0.088									
PC68	5/10/2006	10.56	1.28	d	<0.01	ud						
PC68	6/12/2006	11.46	0.621	d								
PC68	7/10/2006	11.93	0.214	d								
PC68	8/9/2006	11.02	0.098	d	<0.01	ud	2660					
PC68	9/13/2006	10.32	0.225	d			2240					
PC68	10/10/2006	10.31	0.265	d			2280					
PC68	11/7/2006	8.42	0.146	d	<0.01	ud	2340					
PC68	12/11/2006	8.48	0.193	d			2130					
PC68	1/8/2007	8.83	0.093				2240					
PC68	2/8/2007	9.05	0.021		<0.02	U	2280					
PC68	3/12/2007	9.01	0.049				2240					

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PC68	4/9/2007	9.58	0.036				2140					
PC68	5/8/2007	11.79	0.014		<0.02	U	2040					
PC68	6/11/2007	10.81	0.067				2140	J-				
PC68	7/11/2007	11.87	0.279				2250					
PC68	8/13/2007	11.14	0.174		<0.01	u	2220					
PC68	9/10/2007	11.77	0.112				2130					
PC71	1/30/2006	22.09	790	d	0.61	d						
PC71	5/1/2006	22.58	660	d	0.62	d	7470					
PC71	7/31/2006	22.57	598	d	0.61	d	6240					
PC71	10/30/2006	22.54	579	d	0.56	d	8520					
PC71	1/29/2007	27.36	577		0.5		8130					
PC71	4/30/2007	22.34	579		0.51		7660					
PC71	7/30/2007	22.38	600		0.5		8900					
PC72	1/30/2006	27.88	490	d	0.37	d						
PC72	5/1/2006	27.61	430	d	0.36	d	5800					
PC72	7/31/2006	27.66	347	d	0.35	d	5750					
PC72	10/30/2006	27.62	378	d	0.35	d	7470					
PC72	1/29/2007	27.30	376		0.33		7240					
PC72	4/30/2007	27.21	365		0.34		7510					
PC72	7/30/2007	27.34	369		0.31		7770					
PC73	1/30/2006	30.73	410	d	0.35	d						
PC73	5/1/2006	30.37	410	d	0.39	d	5210					
PC73	7/31/2006	30.47	349	d	0.4	d	5610					
PC73	10/30/2006	30.43	425	d	0.39	d	7480					
PC73	1/29/2007	29.99	397		0.38		6910					
PC73	4/30/2007	29.89	388		0.4		7060					
PC73	5/3/2007	29.85	438		0.27	d	6490		45.7	d	281	d
PC73	7/30/2007	30.02	398		0.4		7500					
PC74	5/2/2006	---	2.3	d			2520					
PC74	4/30/2007	13.56	0.267				2070					
PC77	5/2/2006	---	2.2	d			4820					
PC77	4/30/2007	7.28	3.35		<0.02	U	5100					
PC79	5/2/2006	---	0.44	d	<0.01	ud	2640					

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Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC79	4/30/2007	8.82	0.039		<0.02	U	2300					
PC82	5/3/2006	---	1.1	d			2830		0.3	d	0.336	d
PC82	4/30/2007	7.05	1.33				2720		<0.5	U	0.176	
PC86	1/10/2006	3.26	6	d								
PC86	2/8/2006	3.96	4	d	<0.01	ud						
PC86	3/7/2006	4.05	4	d								
PC86	4/12/2006	4.31	2.72	d								
PC86	5/9/2006	5.14	2	d	<0.01	ud			<0.1	ud	1.7	d
PC86	6/14/2006	5.91	1.99	d								
PC86	7/12/2006	6.78	2.18	d								
PC86	8/9/2006	5.77	1.84	d	<0.01	ud	3140		<0.1	ud	1.53	d
PC86	9/13/2006	5.05	2.83	d			2940					
PC86	10/11/2006	4.71	2.2	d			2690					
PC86	11/8/2006	2.18	6.02	d	<0.01	ud	3640		1.19	d	8.6	d
PC86	12/12/2006	2.72	4.59	d			3400					
PC86	1/9/2007	3.14	3.57				3140					
PC86	2/8/2007	3.54	2.72		<0.02	U	3090					
PC86	3/14/2007	3.77	3.91				3420					
PC86	4/11/2007	5.11	1.62				2690					
PC86	4/30/2007	5.12	1.62		<0.02	U	2690		<0.5	U	0.779	
PC86	5/9/2007	4.84	1.2		<0.02	U	2550		<0.5	U	0.708	
PC86	6/13/2007	4.64	1.2				2580					
PC86	7/12/2007	6.91	1.34				2630					
PC86	8/15/2007	5.82	1.39		<0.01	u	2700					
PC86	9/19/2007	5.83	1.74				2670					
PC90	4/12/2006	5.83	6.23	d								
PC90	5/9/2006	6.36	12	d	<0.01	ud			5.2	d	33.3	d
PC90	6/14/2006	6.74	17.8	d								
PC90	7/12/2006	7.21	19	d								
PC90	8/9/2006	7.06	17.8	d	<0.01	ud	5090		9.2	d	46.4	d
PC90	9/13/2006	6.35	19.9	d			4420					
PC90	10/11/2006	6.23	20	d			4650					
PC90	11/8/2006	3.90	13.9	d	<0.01	ud	6810		10.4	d	65.6	d

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PC90	12/12/2006	4.28	9.91	d			7520					
PC90	1/9/2007	4.65	7.9				6810					
PC90	2/8/2007	5.01	6.64		<0.02	U	6420					
PC90	3/14/2007	4.48	4.84				6010					
PC90	4/11/2007	5.82	6.36				5420					
PC90	5/9/2007	5.96	9.84		<0.02	U	4920	9.93		37.1		
PC90	6/13/2007	7.06	14.7				4660					
PC90	7/12/2007	7.91	15.4				4680					
PC90	8/15/2007	7.30	14.3		<0.01	u	4600					
PC90	9/19/2007	7.27	14.7				4400					
PC91	1/10/2006	7.96	12	d								
PC91	2/8/2006	8.42	11	d	<0.01	ud						
PC91	3/7/2006	8.71	12	d								
PC91	4/12/2006	8.99	11.8	d								
PC91	5/9/2006	9.13	12	d	<0.01	ud		10	d	68.6	d	
PC91	6/14/2006	9.83	11.3	d								
PC91	7/12/2006	10.38	10.8	d								
PC91	8/9/2006	10.09	10.7	d	<0.01	ud	6940	14	d	75.1	d	
PC91	9/13/2006	9.16	10.4	d			6120					
PC91	10/11/2006	8.79	11.6	d			7530					
PC91	11/8/2006	6.44	8.77	d	<0.01	ud	7660	14.6	d	65.9	d	
PC91	12/12/2006	7.31	7.75	d			7400					
PC91	1/9/2007	7.27	8.6				7290					
PC91	2/8/2007	7.88	8.47		<0.02	U	7610					
PC91	3/14/2007	8.34	8.69				7670					
PC91	4/11/2007	9.17	9.25				7550					
PC91	5/9/2007	9.53	8.05		<0.02	U	6810	13.4		64.8		
PC91	6/13/2007	10.31	9.44				7750					
PC91	7/12/2007	10.96	10.1				8280					
PC91	8/15/2007	11.02	10		<0.01	u	7280					
PC91	9/19/2007	11.34	11.6				8130					
PC92	4/30/2007	9.52	9.25		<0.02	U	7620	14.9		68.7		
PC93	5/3/2006	---	11.2	d	0.049		4360	8.6	d	23.9	d	

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PC93	4/30/2007	8.42	8.74		0.081		4760		10.8		14.7	
PC95	1/10/2006	4.52	0.87	d								
PC95	2/8/2006	4.97	0.75	d	<0.01	ud						
PC95	3/7/2006	5.11	0.77	d								
PC95	4/12/2006	5.27	0.717	d								
PC95	5/9/2006	5.73	0.775	d	<0.01	ud						
PC95	6/14/2006	6.29	0.892	d								
PC95	7/12/2006	6.67	1.12	d								
PC95	8/9/2006	6.49	1.1	d	<0.01	ud	3160					
PC95	9/13/2006	5.77	1.29	d			2650					
PC95	10/11/2006	5.65	1.31	d			2770					
PC95	11/8/2006	3.64	0.556	d	<0.01	ud	2600					
PC95	12/12/2006	4.03	1.06	d			2640					
PC95	1/9/2007	4.28	0.562				2460					
PC95	2/8/2007	4.68	0.523		<0.02	U	2510					
PC95	3/14/2007	4.71	0.353				2560					
PC95	4/11/2007	5.35	0.278				2420					
PC95	5/9/2007	5.50	0.241		<0.02	U	2580					
PC95	6/13/2007	6.35	0.24				2720					
PC95	7/12/2007	7.12	0.236				2680					
PC95	8/15/2007	6.62	0.14		<0.01	u	2520					
PC95	9/19/2007	6.54	0.151				2510					
PC96	5/2/2006	---	0.48	d			2740					
PC96	4/30/2007	6.31	0.077				2680					
PC97	1/10/2006	3.78	2	d								
PC97	2/8/2006	4.23	2.8	d	<0.01	ud						
PC97	3/7/2006	4.38	2	d								
PC97	4/12/2006	4.03	1.6	d								
PC97	5/9/2006	5.01	1.41	d	<0.01	ud						
PC97	6/14/2006	5.34	0.896	d								
PC97	7/12/2006	5.98	0.88	d								
PC97	8/9/2006	5.73	0.856	d	<0.01	ud	2660					
PC97	9/13/2006	5.02	1.19	d			2740					

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC97	10/11/2006	4.86	1.36	d			2690					
PC97	11/8/2006	2.82	0.891	d	<0.01	ud	2780					
PC97	12/12/2006	3.29	2.74	d			2760					
PC97	1/9/2007	3.42	4.95				3160					
PC97	2/8/2007	3.82	3.14		<0.02	U	3070					
PC97	3/14/2007	3.87	1.98				2860					
PC97	4/11/2007	4.61	4.16				2740					
PC97	5/9/2007	4.77	1.11		<0.02	U	2640					
PC97	6/13/2007	5.23	0.702				2650					
PC97	7/12/2007	6.33	0.434				2610					
PC97	8/15/2007	5.87	0.256		<0.01	u	2590					
PC97	9/19/2007	5.79	0.316				2490					
PC98R	1/11/2006	20.25	20	d								
PC98R	2/9/2006	20.87	16	d	<0.01	ud						
PC98R	3/7/2006	21.75	17	d								
PC98R	4/12/2006	21.87	19.4	d								
PC98R	5/10/2006	22.62	19.8	d	0.026	d						
PC98R	6/15/2006	23.02	22.8	d								
PC98R	7/13/2006	22.81	26.1	d								
PC98R	8/10/2006	18.27	22.8	d	0.021	d	6240					
PC98R	9/13/2006	20.47	32.5	d			6140					
PC98R	10/12/2006	21.21	42.3	d			7240					
PC98R	11/9/2006	17.50	29.5	d	0.038	d	6960					
PC98R	12/12/2006	19.75	36.3	d			7330					
PC98R	1/10/2007	20.22	39.8				7190					
PC98R	2/8/2007	20.98	36		0.055		7380					
PC98R	3/15/2007	20.73	26.9				7480					
PC98R	4/12/2007	21.61	28.7				7230					
PC98R	5/10/2007	17.88	13.6		0.021		5010					
PC98R	6/14/2007	16.94	8.81				4210					
PC98R	7/13/2007	22.66	16				7430					
PC98R	8/17/2007	21.52	14.3		0.024		6960					
PC98R	9/12/2007	23.17	25				7260					

Appendix A
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Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC99R2/R3	1/3/2006	20.76	26	d								
PC99R2/R3	1/9/2006	20.76	26	d								
PC99R2/R3	1/16/2006	20.76	26	d								
PC99R2/R3	1/23/2006	20.76	25	d								
PC99R2/R3	1/30/2006	20.76	23	d								
PC99R2/R3	2/6/2006	20.76	20	d	<0.01	ud						
PC99R2/R3	2/13/2006	20.76	18	d								
PC99R2/R3	2/20/2006	20.76	16	d								
PC99R2/R3	2/27/2006	20.76	15	d								
PC99R2/R3	3/6/2006	20.76	15	d								
PC99R2/R3	3/13/2006	20.76	16	d								
PC99R2/R3	3/20/2006	20.76	17	d								
PC99R2/R3	3/28/2006	19.87	20	d								
PC99R2/R3	4/3/2006	19.87	20	d								
PC99R2/R3	4/10/2006	19.87	2.55	d								
PC99R2/R3	4/10/2006	19.87	21.9	d								
PC99R2/R3	4/17/2006	22.65	26.8	d								
PC99R2/R3	4/24/2006	22.65	28.1	d								
PC99R2/R3	5/1/2006	22.65	25.3	d								
PC99R2/R3	5/8/2006	22.65	24.9	d	<0.01	ud						
PC99R2/R3	5/15/2006	19.97	25.2	d								
PC99R2/R3	5/22/2006	19.97	27	d								
PC99R2/R3	5/30/2006	19.97	27.6	d								
PC99R2/R3	6/5/2006	19.97	29.1	d								
PC99R2/R3	6/12/2006	19.97	28.3	d								
PC99R2/R3	6/19/2006	14.89	24.8	d								
PC99R2/R3	6/27/2006	14.89	25.2	d								
PC99R2/R3	7/5/2006	14.89	24.8	d								
PC99R2/R3	7/10/2006	14.89	22	d								
PC99R2/R3	7/17/2006	14.89	26.3	d								
PC99R2/R3	7/24/2006	13.69	25	d			4780					
PC99R2/R3	7/31/2006	13.69	26.8	d			4650					
PC99R2/R3	8/7/2006	13.69	29.1	d	<0.01	ud	5500					

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Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC99R2/R3	8/15/2006	13.69	29.6	d			5890					
PC99R2/R3	8/21/2006	14.49	27.4	d			5560					
PC99R2/R3	8/28/2006	14.49	28.1	d			5310					
PC99R2/R3	9/5/2006	14.49	33.2	d			5850					
PC99R2/R3	9/11/2006	14.49	31.6	d			5800					
PC99R2/R3	9/18/2006	14.49	31.6	d			5090					
PC99R2/R3	9/25/2006	13.12	32.2	d			5760					
PC99R2/R3	10/2/2006	13.12	29.3	d			5770					
PC99R2/R3	10/9/2006	13.12	25.2	d			5490					
PC99R2/R3	10/16/2006	13.12	25.3	d			5060					
PC99R2/R3	10/23/2006	14.26	22.3	d			4960					
PC99R2/R3	10/30/2006	14.26	24.4	d			4880					
PC99R2/R3	11/13/2006	14.26	23	d			5110					
PC99R2/R3	11/20/2006	14.26	22.1	d			5260					
PC99R2/R3	11/27/2006	14.06	23.4	d			5320					
PC99R2/R3	12/4/2006	14.06	23.9	d			5310					
PC99R2/R3	12/11/2006	14.06	21.4	d			5320					
PC99R2/R3	12/18/2006	14.06	20.9				4960					
PC99R2/R3	12/26/2006	14.06	16.7				4550					
PC99R2/R3	1/2/2007	11.51	15.1				4120					
PC99R2/R3	1/8/2007	11.51	16				4050					
PC99R2/R3	1/15/2007	11.51	14.9				3890					
PC99R2/R3	1/22/2007	11.62	15.9				3900					
PC99R2/R3	1/29/2007	11.62	14.9				4040					
PC99R2/R3	2/5/2007	11.62	16.6		<0.02	U	4150					
PC99R2/R3	2/12/2007	11.62	19.1				4260					
PC99R2/R3	2/19/2007	11.83	17.7				4470					
PC99R2/R3	2/26/2007	11.83	18.2				4640					
PC99R2/R3	3/6/2007	11.83	20				4820					
PC99R2/R3	3/12/2007	11.83	19.9				4950					
PC99R2/R3	3/19/2007	11.83	21.3				5090					
PC99R2/R3	3/26/2007	12.45	21.4				5160					
PC99R2/R3	4/2/2007	12.45	19.6				5300					

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Tronox LLC, Henderson, Nevada

Well ID units	Date	Depth to water feet	Perchlorate mg/l	Qual	Total Chromium mg/l	Qual	TDS mg/l	Qual	Nitrate (as N) mg/l	Qual	Chlorate mg/l	Qual
PC99R2/R3	4/9/2007	12.45	19.3				5300					
PC99R2/R3	4/16/2007	12.45	21.4				5340					
PC99R2/R3	4/23/2007	7.14	20.8				5304					
PC99R2/R3	4/30/2007	7.14	22.3				5410					
PC99R2/R3	5/7/2007	7.14	19.9		<0.02	U	5310					
PC99R2/R3	5/14/2007	7.14	21.9				5280					
PC99R2/R3	5/21/2007	8.13	22.4				5360					
PC99R2/R3	5/29/2007	8.13	21.3				5730					
PC99R2/R3	6/4/2007	8.13	18.9				5740					
PC99R2/R3	6/11/2007	8.13	19.2				5770					
PC99R2/R3	6/18/2007	8.13	17.6				5680					
PC99R2/R3	6/25/2007	20.57	15.7				5200	J-				
PC99R2/R3	7/2/2007	20.57	13.7				4650					
PC99R2/R3	7/10/2007	20.57	11.8				4440					
PC99R2/R3	7/16/2007	20.57	11.6				4290					
PC99R2/R3	7/23/2007	17.73	11.3				4080					
PC99R2/R3	7/30/2007	17.73	11.5				3910					
PC99R2/R3	8/6/2007	17.73	11.4				3920					
PC99R2/R3	8/13/2007	17.73	9.36		<0.01	u	3560					
PC99R2/R3	8/20/2007	19.02	9.42				3550					
PC99R2/R3	8/27/2007	19.02	10.6				3610					
PC99R2/R3	9/4/2007	19.02	9.61				3700					
PC99R2/R3	9/10/2007	19.02	9.55				3800					
PC99R2/R3	9/17/2007	19.02	11.5				3920					
PC99R2/R3	9/24/2007	18.41	9.92				3960					
Seep Surface Flow	1/3/2006	18.41	6	d								
Seep Surface Flow	1/9/2006	18.41	6	d								
Seep Surface Flow	1/16/2006	18.41	6	d								
Seep Surface Flow	1/23/2006	19.05	6	d								
Seep Surface Flow	1/30/2006	19.05	5	d								
Seep Surface Flow	2/6/2006	19.05	5	d	<0.01	ud						
Seep Surface Flow	2/13/2006	19.05	5	d								
Seep Surface Flow	2/20/2006	---	5	d								

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Well ID	Date	Depth to water	Perchlorate	Qual	Total Chromium	Qual	TDS	Qual	Nitrate (as N)	Qual	Chlorate	Qual
units		feet	mg/l		mg/l		mg/l		mg/l		mg/l	
Seep Surface Flow	2/27/2006	---	5	d								
Seep Surface Flow	3/6/2006	---	5	d								
Seep Surface Flow	3/13/2006	---	5	d								
Seep Surface Flow	3/20/2006	---	4	d								
Seep Surface Flow	3/28/2006	---	4	d								
Seep Surface Flow	4/3/2006	---	4	d								
Seep Surface Flow	4/10/2006	---	21.4	d								
Seep Surface Flow	4/10/2006	---	4.11	d								
Seep Surface Flow	4/17/2006	---	4.52	d								
Seep Surface Flow	4/24/2006	---	4.73	d								
Seep Surface Flow	5/1/2006	---	3.39	d								
Seep Surface Flow	5/8/2006	---	2.75	d	<0.01	ud						
Seep Surface Flow	5/15/2006	---	9.38	d								
Seep Surface Flow	5/22/2006	---	0.084	d								
Seep Surface Flow	5/30/2006	---	0.131	d								
Seep Surface Flow	6/5/2006	---	0.171	d								
Seep Surface Flow	6/12/2006	---	0.326	d								
Seep Surface Flow	8/15/2006	---	<0.004	ud			3840					
Seep Surface Flow	8/21/2006	---	<0.004	ud			3960					
Seep Surface Flow	8/28/2006	---	<0.004	ud			3470					
Seep Surface Flow	9/5/2006	---	<0.004	ud			3588					
Seep Surface Flow	9/11/2006	---	<0.004	ud			3520					
Seep Surface Flow	9/18/2006	---	<0.004	ud			3610					
Seep Surface Flow	9/25/2006	---	<0.004	ud			3720					
Seep Surface Flow	10/2/2006	---	1.47	d			3800					
Seep Surface Flow	10/9/2006	---	1.26	d			3740					
Seep Surface Flow	10/16/2006	---	3.92	d			3950					
Seep Surface Flow	10/23/2006	---	2.55	d			3750					
Seep Surface Flow	10/30/2006	---	2.05	d			3470					
Seep Surface Flow	11/13/2006	---	4.46	d			3540					
Seep Surface Flow	11/20/2006	---	4.8	d			3730					
Seep Surface Flow	11/27/2006	---	5.31	d			3710					
Seep Surface Flow	12/4/2006	---	5.42	d			3750					

Appendix A
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Tronox LLC, Henderson, Nevada

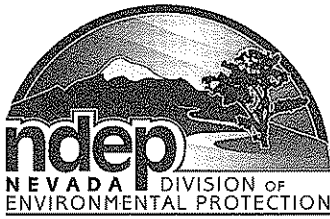
Well ID	Date	Depth to water	Perchlorate	Qual	Total Chromium	Qual	TDS	Qual	Nitrate (as N)	Qual	Chlorate	Qual
units		feet	mg/l		mg/l		mg/l		mg/l		mg/l	
Seep Surface Flow	12/11/2006	---	5.28	d			3760					
Seep Surface Flow	12/18/2006	---	4.85				3530					
Seep Surface Flow	12/26/2006	---	4.15				3530					
Seep Surface Flow	1/2/2007	---	4.42				3500					
Seep Surface Flow	1/8/2007	---	4.47				3570					
Seep Surface Flow	1/15/2007	---	4.18				3500					
Seep Surface Flow	1/22/2007	---	4.27				3520					
Seep Surface Flow	1/29/2007	---	3.76				7100					
Seep Surface Flow	2/5/2007	---	3.23		<0.02	U	3440					
Seep Surface Flow	2/12/2007	---	3.32				3450					
Seep Surface Flow	2/19/2007	---	1.37				3400					
Seep Surface Flow	2/26/2007	---	2.29				3360					
Seep Surface Flow	3/6/2007	---	2.41				3360					
Seep Surface Flow	3/12/2007	---	3.26				3480					
Seep Surface Flow	3/19/2007	---	2.77				3410					
Seep Surface Flow	3/26/2007	---	2.39				3350					
Seep Surface Flow	4/2/2007	---	2.03				3440					
Seep Surface Flow	4/9/2007	---	1.6				3460					
Seep Surface Flow	4/16/2007	---	1.2				3450					
Seep Surface Flow	4/23/2007	---	0.98				3440					
Seep Surface Flow	4/30/2007	---	0.677				3630					
Seep Surface Flow	5/7/2007	---	0.536		<0.02	U	3770					
Seep Surface Flow	5/14/2007	---	0.558				3260					
Seep Surface Flow	6/4/2007	---	0.15				3890					
Seep Surface Flow	8/6/2007	---	<0.01	U			3780					
Explanation												
< = less than the reporting limit												
Blank cell or --- = no data and or no qualifier												
Qual = data qualifiers applied by laboratory or during data validation												
TDS = Total Dissolved Solids												
mg/l = milligram per liter												

Appendix A
Quarterly Performance Report for Remediation Systems
Tronox LLC, Henderson, Nevada

Well ID	Date	Depth to water	Perchlorate	Qual	Total Chromium	Qual	TDS	Qual	Nitrate (as N)	Qual	Chlorate	Qual
units		feet	mg/l		mg/l		mg/l		mg/l		mg/l	
<u>Laboratory Qualifiers:</u> d = the sample was diluted u = the analyte was not detected above the sample reporting limit ud = the sample was dilluted and was not detected above the sample reporting limit <u>Validation Qualifiers:</u> J = the result is an estimated quantity J- = the result is an estimated quantity and the result may be biased low U = the analyte was analyzed for, but was not detected above the sample reporting limit UU = the sample was not detected above the sample reporting limit and the reporting limit is approximate												

**APPENDIX B
LABORATORY REPORTS AND FIELD SHEETS
(ON THE REPORT CD)**

**APPENDIX C
CORRESPONDENCE WITH NDEP**



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Jim Gibbons, Governor

Allen Biaggi, Director

Leo M. Drozdoff, P.E., Administrator

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October 5, 2007

Susan Crowley
Tronox LLC
PO Box 55
Henderson, Nevada 89009

Re: **Tronox LLC (TRX)**
NDEP Facility ID #H-000539
Nevada Division of Environmental Protection Response to:
*Annual Remedial Performance Report for Chromium and Perchlorate, Tronox LLC,
Henderson, Nevada*
Dated August 29, 2007

Dear Ms. Crowley,

The NDEP has received and reviewed TRX's above-identified performance report and provides comments in Attachment A. These comments should be addressed in future performance report submittals (quarterly, semi-annual, and annual) as relevant. TRX should additionally provide an annotated response-to-comments letter as part of the next performance report submittal unless otherwise noted. Alternately, many of these issues could be discussed in a telephone conference or meeting. Please contact the undersigned with any questions at sharbour@ndep.nv.gov or (702) 486-2850 x 240.

Sincerely,

Shannon Harbour, P.E.
Staff Engineer III
Bureau of Corrective Actions
Special Projects Branch
NDEP-Las Vegas Office

SH:bar:sh



CC: Jim Najima, NDEP, BCA, Carson City
Brian Rakvica, NDEP, BCA, Las Vegas
Keith Bailey, Environmental Answers LLC, 3229 Persimmon Creek Drive, Edmond, OK 73013
Sally Bilodeau, ENSR, 1220 Avenida Acaso, Camarillo, CA 93012-8727
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W.,
Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street,
San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89011
Mark Paris, Landwell, 875 West Warm Springs, Henderson, NV 89011
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Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
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Nick Pogoncheff, PES Environmental, 1682 Novato Blvd., Suite100, Novato, CA 94947
Lee Erickson, Stauffer Management Company, P.O. Box 18890, Golden, CO 80402
Chris Sylvia, Pioneer Americas LLC, PO Box 86, Henderson, Nevada 89009
Michael Bellotti, Olin, PO Box 248 1186 Lower River Road, Charleston TN 37310-0248
Curt Richards, Olin, PO Box 248 1186 Lower River Road, Charleston TN 37310-0248
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island,
WA 98110

Attachment A

1. General comment, the NDEP requests that TRX report the flow and contaminant loading capacities of each of the groundwater treatment systems in future performance reports.
2. General comment, the NDEP has noted many instances of TRX using words like “clean”, “low”, and “significantly” without quantification. Please quantify statements using relative words, such as these, in future report submittals. The NDEP has noted some examples of this in the following comments.
3. Section 2.1, Interceptor Well Field Area, NDEP has the following comments:
 - a. TRX states that “clean Lake Mead water” is injected for artificial recharge to the area north of the barrier wall. Please quantify what is meant by “clean”. There is an incremental concentration of perchlorate in Lake Mead water which has varied over time. For clarity it would be helpful to understand this range of inputs.
 - b. TRX states the “mound” created by the injection of Lake Mead water into the infiltration trenches north of the barrier wall has been “dissipating”. Discuss how and/or why this is occurring.
 - c. TRX states that the formation contact at both ends of the barrier wall was remapped and confirmed the presence of “inter-channel Muddy Creek ridges at both ends of the barrier wall”. Please provide the information that was used for this remapping.
 - d. TRX proposed to use video techniques to investigate well inefficiencies suggested by the groundwater elevation data differences between the Interceptor wells and adjacent monitoring wells. Additionally, TRX proposes to rehabilitate well screens as necessary. Please provide a schedule for this investigation and rehabilitation **by November 5, 2007**.
4. Section 3.1, Chromium Plume Configuration, TRX states that the highest total chromium concentration reported north of the recharge trenches was 4.0 mg/L. Please state which well this concentration is associated with.
5. Section 3.1.1, On-Site Interceptor Well Field Area, NDEP has the following comments:
 - a. TRX states that the total chromium concentration from January 2002 to May 2007 has decreased 94.7% but in the follow sentence states that the decrease was 97.4%. It appears that one of these statements may be a typographic error; please clarify which percentage is correct.
 - b. TRX states that the concentration of perchlorate for groundwater monitoring well M-100 in January 2002 was 9.2 mg/L. Appendix A does not list any data for January 2002. Please clarify.
 - c. TRX calculated the percent decrease from January 2002 to May 2007 for total chromium in monitoring well M-100. TRX then used this percent decrease to determine that a maximum of 1.6 gpm of groundwater at 9.2 mg/L total chromium could be flowing around the barrier wall. This calculation assumes that the groundwater concentration for total chromium flowing around the barrier wall is 9.2 mg/L. Please discuss this assumption. As part of this discussion, TRX should consider the groundwater containing less than 0.1 mg/L that is traveling around the east and west ends of the barrier wall. This groundwater could contribute to the concentration reduction observed in M-100.
 - d. TRX states that “...leaking around the barrier wall to keep M-23 at 0.24 mg/L (total chromium)”. Appendix A and Plate 6 show M-23 with a total chromium

- concentration of 0.88 mg/L and M-100 with a total chromium concentration of 0.24 mg/L. Please clarify if the text should reference M-100 instead of M-23.
- e. TRX states that “the barrier wall also acts as an effective barrier to the downgradient flow of highly-impacted groundwater.” Please quantify what is meant “highly-impacted groundwater”.
 - f. TRX states that by using the well triplet M-74, CLD1-R, and CLD2-R near the eastern end of the barrier wall that a local groundwater flow direction of N20W, which flows from the east onto TRX property. TRX additionally states that there is “an unsaturated Muddy Creek fine-grained-facies bedrock high that separates the eastern end of the barrier wall from CLD2-R. Plate 3 illustrates this Muddy Creek ridge as extending between CLD2-R and M-74. Please explain how the flow direction calculated using these three wells is valid if they are separated by a subsurface feature.
 - g. Please provide the information indicating the locations of the “unsaturated Muddy Creek fine-grained-facies ridges” to the west and east sides of the barrier wall.
 - h. TRX states that “water levels have been dropping in M-68 – 14.4 feet of drawdown since 1987 (Table 2) – and in CLD2-R.” Please note and revise the text that drawdown information and calculations are provided in Table 1. Additionally, TRX does not provide the historical groundwater elevation data for CLD2-R. Please provide the historical data collected at CLD2-R in Appendix A in future performance reports. In addition, please note that the NDEP believes that statements regarding drawdown are of limited use. These statements taken out of context of regional groundwater level trends do not confirm capture. It is expected that this issue and all other capture related issues will be addressed via the capture zone analysis being conducted separately.
6. Section 3.2, On-Site Chromium Treatment System, the NDEP has the following comments:
- a. TRX reports the amount influent water to the Groundwater Treatment Plant (GWTP) is a million gallons in the month of May but predominantly uses gallons per minute (gpm) throughout the rest of the document. The NDEP requests that TRX report in consistent units throughout the document.
 - b. TRX discusses that it appears that total chromium, in the form of suspended solids, appears to be passing through the chromium treatment system but is being captured in the GAC vessels. NDEP notes that GAC is a very inefficient method to filter solids. In addition, if this was occurring, it would seem that the GAC vessels would eventually become filled with solids. Please explain TRX’s methodology for mitigating this situation.
 - c. TRX states that the “chromium impacted groundwater” is ultimately discharged as “clean effluent”. Please quantify what is meant by “clean effluent”.
 - d. TRX discusses that “all total and hexavalent chromium analyses, except two, have been non-detect”. It is suggested that these anomalies be discussed in future reporting.
7. Section 3.3, Potential On-Site Interim Chromium Remediation, TRX states that they will discuss treatment alternatives with NDEP by October 1, 2007. To date, TRX has not initiated this discussion. Alternatively, TRX additionally proposed the pumping of groundwater wells M-70 and M-71 in the Revised Work Plan to Evaluate Effective Groundwater Capture at Tronox Extraction Systems (dated August 29, 2007). NDEP has

responded to this issue in a response to the above-referenced Work Plan in a letter dated October 3, 2007. Please address this issue as requested in the October 3, 2007 letter. It is suggested that TRX consider expansion of the clarification capacity and possibly adding filtration to the discharge of the chromium treatment unit.

8. Section 4.1.1, Interceptor Well Field Area, the NDEP has the following comments:
 - a. TRX states that the three components of this well field have “significantly” reduced the amount of perchlorate in the downgradient groundwater. Please quantify what is meant by “significantly”.
 - b. TRX uses “low” to describe the perchlorate concentrations in the area of the recharge trenches. Please quantify what is meant by “low”.
 - c. TRX calculated the percent decrease of the perchlorate concentration downgradient of the barrier wall from approximately 1,000 mg/L in July 1998 to less than 100 mg/L currently. TRX then used this percent decrease to determine that a maximum of 6 gpm of 1,000 mg/L perchlorate could be flowing around the barrier wall. This calculation assumes that the groundwater concentration for perchlorate flowing around the barrier wall is 1,000 mg/L. Please discuss this assumption. As part of this discussion, TRX should consider the groundwater containing less than 10 mg/l and 25 mg/l which is traveling around the east and west ends of the barrier wall, respectively. This groundwater could certainly contribute to the expansion of the less than 100 mg/l zone of perchlorate.
9. Section 4.1.2, Athens Road Well Field Area, TRX refers to the model completed by the NDEP’s contractor; however, TRX does not recognize all of the data gaps identified by the model. TRX should acknowledge these data gaps or discuss how these data gaps have been addressed in future performance reports.
10. Section 4.3, On-Site Perchlorate Remediation, please include an explanation of the transfer process from AP-5 pond to GW-11.
11. Figures, the NDEP has the following comments and suggestions:
 - a. Figure 2, West – East Hydrogeologic Cross Section A-A’ Interceptor Well Field May 2007, TRX illustrates a Tertiary Muddy Creek formation (TMCf) high on the west and east ends of the barrier wall. The text in Section 2.1 states that this area was “recently remapped”. Please provide the information used for the remapping of this area.
 - b. Figure 7, Tronox Henderson Groundwater Treatment Block Flow Diagram, in Section 3.2, TRX states that the influent to the GWTP includes “about 25 gpm from GW-11” but Figure 7 states that the influent to GWTP includes only “about 20 gpm” from GW-11. Please revise accordingly.
 - c. Figure 7, TRX states that the three activated carbon vessels “remove organics which could harm bacteria”. Please discuss this matter with the NDEP and provide analytical data to substantiate this statement. NDEP does not have sufficient assurance that TRX is monitoring the performance of the carbon vessels in a manner that will be protective of the FBR system.
 - d. Figure 7, please add a notation to indicate where the “FBR Influent” and “FBR Effluent” samples are taken.
12. Tables, the NDEP has the following comments and suggestions:
 - a. Table 2, Interceptor Well Discharge Rates (GPM), the NDEP has the following comments:

- i. TRX reports a total discharge rate for the Interceptor Wells listed in Table 2 of 64.2 gpm for June 2007. In Table 7, Groundwater Chromium Treatment Data July 2006 to June 2007 reports an average flow of 2.78 million gallons for June 2007 to the GWTP. Figure 7 shows that the inflow to the GWTP is the combination of the Interceptor Wells discharge plus approximately 20 gpm from pond GW-11. If the flow discharge rate from Table 2 is added to the approximately 20 gpm from pond GW-11, the inflow to the GWTP is 84.2 gpm (3.64 million gallons for June 2007). Please clarify this discrepancy.
 - ii. TRX lists a "NI = Not operational" as a footnote in this table but uses "NO" in the table. Please revise as necessary.
 - b. Table 6, Well PC-119 appears to have been turned off, please explain.
 - c. Table 7, Groundwater Chromium Treatment Data July 2006 to June 2007, the NDEP requests that this table be combined with Table 8 with the following column headings (units): Month, Average Influent Flow to GWTP (gpm), Average Total Cr Influent Concentration to GWTP (mg/L), Average CrVI Effluent Concentration from GWTP (mg/L), Average Total Cr Effluent Concentration from GWTP (mg/L), Average Influent Flow to FBR (gpm), Average CrVI Influent Concentration from FBR (mg/L), Average Total Cr Influent Concentration to FBR (mg/L), CrVI Effluent Concentration from FBR (mg/L), Average Total Cr Effluent Concentration to FBR (mg/L).
 - d. Table 8, July 2006 To June 2007 Weekly Chromium (mg/L) in FBR Influent and Effluent, please combine with Table 7 (please see above comment). Also note that the TRX does not need to have a column for detection limits if they report the concentrations as less than the numerical value of the detection limit (e.g. <0.0001).
 - e. Table 8, it appears that there is a mechanism that is removing chromium between the influent and effluent of the FBR. Please explain what this mechanism is.
 - f. Table 9, Perchlorate Removed from the Surface and Groundwater, please add total chromium removed to this table.
 - g. Table 10, July 2006 to June 2007 Weekly Perchlorate in FBR Influent and Effluent, the NDEP requests that this table be revised to have the following column headings (units): Month, Average Influent Flow (gpm), Average Perchlorate Influent Concentration (mg/L), and Average Perchlorate Effluent Concentration. Additionally, TRX does not need to have a column for detection limits if they report the concentrations as less than the numerical value of the detection limit (e.g. <0.0001).
13. Appendix A, the NDEP has requested that TRX provide all available data in an electronic format for each performance report. To date, the electronic data has not been complete; numerous wells and historic data have not been included.
14. Appendix D, the NDEP has the following comments:
- a. TRX Response to March 29, 2007 NDEP comments of the Semiannual Performance Report Dated February 26, 2007, the NDEP has the following comments:
 - i. In response to comments (RTC) 14.a, TRX states that they will "review and set-up procedures for the graphical representations ... to unify scales and ranges where practical." The NDEP did not observe any of the scales in Appendix B of the Annual Report to be unified. Please note that NDEP's original comment

was for all future performance reports that contain these graphs and not just future Semiannual Performance Reports.

- ii. RTC 17, TRX states that they will provide all parts of their database used for the development of the report. This information was not included.
- b. TRX RTC for NDEP's July 2, 2007 Comments on the Quarterly Performance Report dated May 29, 2007:
 - i. RTC 4, no update on monitoring wells ARP-4, ARP-5, and ARP-6 was included in the text of the report.
 - ii. RTC 18, the NDEP originally requested that TRX submit a schedule for and clarification on the intended procedures for the recommended pump test on M-71 and M-72. In the Annual Performance Report, TRX has recommended pumping wells M-70 and M-71 but did not provide a schedule or recommended procedures. As previously stated above, the NDEP has responded to this issue in a response letter dated October 3, 2007. Please address this issue as requested in the October 3, 2007 letter.
15. Appendix F, NDEP has the following comments that should be addressed under separate cover (in a Sampling and Analysis Plan) and submitted by **November 16, 2007**:
 - a. General comment, please note that the sampling plan is subject to change pending the submittal of additional data.
 - b. General comment, the issues outlined below would likely be addressed most effectively in a meeting.
 - c. The NDEP has noted on Plates 2, 6, 7, etc. that there are concentration and groundwater elevation data for wells not listed in Appendix F. Please add a table listing these wells that includes, at a minimum the owner of the wells, whether the respective owner of the well obtains and analyzes the sample and provides the data to TRX, and what analytical data TRX receives (or for what analytes does TRX sample).
 - d. Table F-4, NDEP requests the following:
 - i. The addition of total chromium analysis for the following wells: H-48, H-58A, MC53, and MC65.
 - ii. The addition of wells AA-01, LG025, BEC-1, POU3, and AA-11 to the annual sampling schedule.
 - iii. The rationale for limiting the number of samples collected for chlorate and nitrate analysis as compared to the number of samples collected for perchlorate.
 - iv. The rationale for the limited number of samples collected for Cr-VI analysis.
 - e. A separate table listing all wells required to be sampled by permits, AOC, etc., the required frequency of sampling, and the analytes required.
 - f. Figure F-2, TRX notes that PC-10 has been plugged and abandoned in Table F-4, please verify the status of the well and remove PC-10 from Figure F2 if not useable.
 - g. Figure F-4, please add the following wells to this figure: H-48, H-58A, MC53, and MC65.
 - h. TRX proposes weekly sampling from the pumping wells at the Seep and Athens Well Fields but only quarterly sampling from the pumping wells at the Interceptor Well Field. Please discuss the rationale for the difference in sampling frequency.
 - i. TRX proposes monthly sampling for several wells not associated with a well field. Please provide the rationale for this sampling frequency for these wells.

- j. TRX proposes monthly sampling for several wells associated with a well field but are not pumping wells. Please provide the rationale for this sampling frequency for these wells.

Tronox Response to October 5, 2007 NDEP comments on the Annual Remedial Performance Report for Chromium and Perchlorate dated August 29, 2007

NDEP Comment:

1. General comment, the NDEP requests that TRX report the flow and contaminant loading capacities of each of the groundwater treatment systems in future performance reports.

Tronox Response:

TRX will report the flow and contaminant loading capacities of each of the groundwater treatment systems (the three water collection systems, the on-site chromium treatment facility, the biological treatment plant, the discharge pipeline, and the Lift Station #3 chromium treatment unit) in future performance reports.

NDEP Comment:

2. General comment, the NDEP has noted many instances of TRX using words like “clean”, “low”, and “significantly” without quantification. Please quantify statements using relative words, such as these, in future report submittals. The NDEP has noted some examples of this in the following comments.

Tronox Response:

Tronox will quantify statements in future report submittals.

NDEP Comment:

3. Section 2.1, Interceptor Well Field Area, NDEP has the following comments:
 - a. TRX states that “clean Lake Mead water” is injected for artificial recharge to the area north of the barrier wall. Please quantify what is meant by “clean”. There is an incremental concentration of perchlorate in Lake Mead water which has varied over time. For clarity it would be helpful to understand this range of inputs.
 - b. TRX states the “mound” created by the injection of Lake Mead water into the infiltration trenches north of the barrier wall has been “dissipating”. Discuss how and/or why this is occurring.
 - c. TRX states that the formation contact at both ends of the barrier wall was remapped and confirmed the presence of “inter-channel Muddy Creek ridges at both ends of the barrier wall”. Please provide the information that was used for this remapping.
 - d. TRX proposed to use video techniques to investigate well inefficiencies suggested by the groundwater elevation data differences between the Interceptor wells and adjacent monitoring wells. Additionally, TRX proposes to rehabilitate well screens as necessary. Please provide a schedule for this investigation and rehabilitation **by November 5, 2007**.

Tronox Response:

- a. *“Clean Lake Mead water” is defined as generally less than 5 ug/L perchlorate. “Clean Lake Mead water” has been below 6 ug/L since January 2006 and below 10 ug/L since November 2003.*
- b. *The “mound” created by the injection of Lake Mead water has been “dissipating” because the quantity of injected water has been declining as the recharge trenches become fouled and cannot accept higher water flows. Tronox is working on approaches to increase recharge flows and will submit a plan in subsequent reports..*
- c. *Lithologic logs of the wells along the Interceptor well field were restudied and reinterpreted. The Muddy Creek high on the west side of the well field was redrawn based on the contact in well I-A and the Muddy Creek high on the east side of the well field was evident upon the inclusion of well CLD2-R.*
- d. *Tronox proposed the video technique as a possible approach to comparing on-site interceptor pumping wells to non-pumping monitor wells. At NDEP’s request, Tronox subsequently submitted a Capture Evaluation Work Plan which includes installation of several new monitor wells. The information from the proposed new wells is expected to eliminate the need for use of video techniques to evaluate the wells. The schedule for rehabilitation of well screens will be provided under separate cover.*

NDEP Comment:

4. Section 3.1, Chromium Plume Configuration, TRX states that the highest total chromium concentration reported north of the recharge trenches was 4.0 mg/L. Please state which well this concentration is associated with.

Tronox Response:

Well PC-66 contains a chromium concentration of 4.0 mg/L.

NDEP Comment:

5. Section 3.1.1, On-Site Interceptor Well Field Area, NDEP has the following comments:
 - a. TRX states that the total chromium concentration from January 2002 to May 2007 has decreased 94.7% but in the follow sentence states that the decrease was 97.4%. It appears that one of these statements may be a typographic error; please clarify which percentage is correct.
 - b. TRX states that the concentration of perchlorate for groundwater monitoring well M-100 in January 2002 was 9.2 mg/L. Appendix A does not list any data for January 2002. Please clarify.
 - c. TRX calculated the percent decrease from January 2002 to May 2007 for total chromium in monitoring well M-100. TRX then used this percent decrease to determine that a maximum of 1.6 gpm of groundwater at 9.2 mg/L total chromium could be flowing around the barrier wall. This calculation assumes that the groundwater concentration for total chromium flowing around the barrier wall is 9.2 mg/L. Please discuss this assumption. As part of this discussion, TRX should consider the groundwater containing less than 0.1 mg/L that is traveling around the east and west ends of the barrier wall. This groundwater could contribute to the concentration reduction observed in M-100.
 - d. TRX states that "...leaking around the barrier wall to keep M-23 at 0.24 mg/L (total chromium)". Appendix A and Plate 6 show M-23 with a total chromium concentration of 0.88 mg/L and M-100 with a total chromium concentration of 0.24 mg/L. Please clarify if the text should reference M-100 instead of M-23.
 - e. TRX states that "the barrier wall also acts as an effective barrier to the downgradient flow of highly-impacted groundwater." Please quantify what is meant "highly-impacted groundwater".
 - f. TRX states that by using the well triplet M-74, CLD1-R, and CLD2-R near the eastern end of the barrier wall that a local groundwater flow direction of N20W, which flows from the east onto TRX property. TRX additionally states that there is "an unsaturated Muddy Creek fine-grained-facies bedrock high that separates the eastern end of the barrier wall from CLD2-R. Plate 3 illustrates this Muddy Creek ridge as extending between CLD2-R and M-74. Please explain how the flow direction calculated using these three wells is valid if they are separated by a subsurface feature.
 - g. Please provide the information indicating the locations of the "unsaturated Muddy Creek fine-grained-facies ridges" to the west and east sides of the barrier wall.
 - h. TRX states that "water levels have been dropping in M-68 – 14.4 feet of drawdown since 1987 (Table 2) – and in CLD2-R." Please note and revise the text that drawdown information and calculations are provided in Table 1. Additionally, TRX does not provide the historical groundwater elevation data for CLD2-R. Please provide the historical data collected at CLD2-R in Appendix A in future performance reports. In addition, please note that the NDEP believes that statements regarding drawdown are of limited use. These statements taken out of context of regional groundwater level trends do not confirm capture. It is expected that this issue and all other capture related issues will be addressed via the capture zone analysis being conducted separately.

Tronox Response:

- a. *The correct figure is 97.4 percent.*
- b. *Appendix A contains data from quarterly sampling events which are now scheduled for February, May, August and November of the year. In 2002 this was not yet standardized. The 9.2 mg/L **chromium** - not perchlorate - concentration was collected on January 29, 2002 whereas the first*

quarterly sampling event in 2002 was performed in March 2002. That is why the January 9.2 ug/l result was not included in Appendix A. In response to NDEP comments, Appendix A is being modified to reflect a minimum of five quarters of select EQuIS validated data.

- c. *The text was meant to demonstrate by a simple mass balance, that the mass of chromium getting around the slurry wall is only a very small fraction of the mass flowing toward the slurry wall. The calculated example of 1.6 gpm at 9.2 mg/L Cr could just as easily have been 3.2 gpm at 4.6 mg/L, though the reduced saturated thickness near the west end of the wall makes higher flows less likely. Either way, the capture system recovers 97.4 percent of the mass of chromium moving through an east-west vertical plane just upgradient of the slurry wall. If anything, the calculation is overly conservative, since it assumes that recharge water is added to maintain a 60 gpm flow downgradient of the slurry wall. The actual recharge volume has been somewhat lower than the quantity removed by the interceptor wells (see comment 3b).*
- d. *The text should reference M-100 not M-23.*
- e. *"Highly-impacted groundwater" means groundwater with concentrations greater than 25 mg/L perchlorate.*
- f. *The existence of the Muddy Creek ridge is only inferred between M-74 and CLD2-R and it may be saturated if it does exist. This does not invalidate the calculated flow direction.*
- g. *See Figure 2, West-East Hydrogeologic Cross Section A-A', from the Annual Remedial Performance Report for Chromium and Perchlorate, August 29, 2007.*
- h. *In the future any reference to drawdown information will reference Table 1. Tronox does not have any additional validated historical information on well CLD2-R.*

NDEP Comment:

6. Section 3.2, On-Site Chromium Treatment System, the NDEP has the following comments:
 - a. TRX reports the amount influent water to the Groundwater Treatment Plant (GWTP) is a million gallons in the month of May but predominantly uses gallons per minute (gpm) throughout the rest of the document. The NDEP requests that TRX report in consistent units throughout the document.
 - b. TRX discusses that it appears that total chromium, in the form of suspended solids, appears to be passing through the chromium treatment system but is being captured in the GAC vessels. NDEP notes that GAC is a very inefficient method to filter solids. In addition, if this was occurring, it would seem that the GAC vessels would eventually become filled with solids. Please explain TRX's methodology for mitigating this situation.
 - c. TRX states that the "chromium impacted groundwater" is ultimately discharged as "clean effluent". Please quantify what is meant by "clean effluent".
 - d. TRX discusses that "all total and hexavalent chromium analyses, except two, have been non-detect". It is suggested that these anomalies be discussed in future reporting.

Tronox Response:

- a. *Consistent units will be reported.*
- b. *The three granular activated carbon (GAC) columns, which protect the biopant against trace organic contaminants, also act as pre-filters for the water. Solids build up on the GAC columns and are periodically flushed to the GW-11 pond as the GAC columns are backwashed with stabilized lake water. Following the GAC columns, the water is directed through one of two cartridge filters for final solids removal before entering the fluidized bed reactors.*
- c. *"Clean effluent" is defined as <0.002 mg/L chromium.*
- d. *Anomalous total and hexavalent chromium analyses will be discussed in future reporting.*

NDEP Comment:

7. Section 3.3, Potential On-Site Interim Chromium Remediation, TRX states that they will discuss treatment alternatives with NDEP by October 1, 2007. To date, TRX has not initiated this discussion. Alternatively, TRX additionally proposed the pumping of groundwater wells M-70 and M-71 in the Revised Work Plan to Evaluate Effective Groundwater Capture at Tronox Extraction Systems (dated August 29, 2007). NDEP has responded to this issue in a response to the above-referenced Work Plan in a letter dated October 3, 2007. Please address this issue as requested in the October 3, 2007 letter. It is suggested that TRX consider expansion of the clarification capacity and possibly adding filtration to the discharge of the chromium treatment unit.

Tronox Response:

NDEP and Tronox have set a tentative conference call date of November 14, 2007 to discuss the Tronox Capture work plan. Once the plan is reviewed and approved, Tronox will proceed with implementation.

NDEP Comment:

8. Section 4.1.1, Interceptor Well Field Area, the NDEP has the following comments:
- a. TRX states that the three components of this well field have “significantly” reduced the amount of perchlorate in the downgradient groundwater. Please quantify what is meant by “significantly”.
 - b. TRX uses “low” to describe the perchlorate concentrations in the area of the recharge trenches. Please quantify what is meant by “low”.
 - c. TRX calculated the percent decrease of the perchlorate concentration downgradient of the barrier wall from approximately 1,000 mg/L in July 1998 to less than 100 mg/L currently. TRX then used this percent decrease to determine that a maximum of 6 gpm of 1,000 mg/L perchlorate could be flowing around the barrier wall. This calculation assumes that the groundwater concentration for perchlorate flowing around the barrier wall is 1,000 mg/L. Please discuss this assumption. As part of this discussion, TRX should consider the groundwater containing less than 10 mg/l and 25 mg/l which is traveling around the east and west ends of the barrier wall, respectively. This groundwater could certainly contribute to the expansion of the less than 100 mg/l zone of perchlorate.

Tronox Response:

- a. *Well M-100 has decreased from 1000 mg/L in January 2002 to 37 mg/L in August 2007 – this reduction is significant.*
- b. *Well M-84 contains 4.1 mg/L perchlorate. This considered “low” when compared with greater than 1000 mg/L upgradient of the slurry wall.*
- c. *This calculation assumes a concentration of 1,000 mg/L based on the June 2007 average perchlorate concentration in the Interceptor well field. As with the chromium discussion in comment 5c, the calculation was presented to help quantify the maximum mass of perchlorate that could be getting around the slurry wall. Tronox has proposed an additional Interceptor recovery well at the west end of the barrier wall to improve capture. In addition, Tronox will be installing observation wells at both the east and west ends of the barrier wall to determine the nature of groundwater at the ends of the slurry wall.*

NDEP Comment:

9. Section 4.1.2, Athens Road Well Field Area, TRX refers to the model completed by the NDEP’s contractor; however, TRX does not recognize all of the data gaps identified by the model. TRX should acknowledge these data gaps or discuss how these data gaps have been addressed in future performance reports.

Tronox Response:

TRX will acknowledge these data gaps or discuss how these data gaps have been addressed in future performance reports.

NDEP Comment:

10. Section 4.3, On-Site Perchlorate Remediation, please include an explanation of the transfer process from AP-5 pond to GW-11.

Tronox Response:

At the outset of the AP-5 decommissioning process in August 2006, Tronox estimated that the AP-5 pond contained about 1000 tons of perchlorate. To transfer the perchlorate to the GW-11 pond, where it can be blended with feed water going to the biological treatment plant, the perchlorate must first be solubilized in a batch process, then pumped to GW-11. Solids, containing perchlorate, in the AP-5

pond are agitated with stabilized lake water using an 1100 gpm circulating pump. When the concentration of perchlorate in the water reaches about 40 g/L perchlorate, the solution is transferred to GW-11 with a smaller 150 gpm transfer pump. The water enters GW-11 at the southwest corner via the spray header piping which was used to enhance pond evaporation several years ago. Spreading the AP-5 pond water over the GW-11 pond surface using the 20 spray lines (without spray nozzles) speeds mixing and allows a stable feed to the biopant. Once a batch of water is transferred from AP-5 to GW-11, the AP-5 pond is refilled with stabilized lake water and the process is repeated. To date, approximately 600 tons of perchlorate has been transferred to GW-11 from AP-5.

NDEP Comment:

11. Figures, the NDEP has the following comments and suggestions:

- a. Figure 2, West – East Hydrogeologic Cross Section A-A' Interceptor Well Field May 2007, TRX illustrates a Tertiary Muddy Creek formation (TMCf) high on the west and east ends of the barrier wall. The text in Section 2.1 states that this area was "recently remapped". Please provide the information used for the remapping of this area.
- b. Figure 7, Tronox Henderson Groundwater Treatment Block Flow Diagram, in Section 3.2, TRX states that the influent to the GWTP includes "about 25 gpm from GW-11" but Figure 7 states that the influent to GWTP includes only "about 20 gpm" from GW-11. Please revise accordingly.
- c. Figure 7, TRX states that the three activated carbon vessels "remove organics which could harm bacteria". Please discuss this matter with the NDEP and provide analytical data to substantiate this statement. NDEP does not have sufficient assurance that TRX is monitoring the performance of the carbon vessels in a manner that will be protective of the FBR system.
- d. Figure 7, please add a notation to indicate where the "FBR Influent" and "FBR Effluent" samples are taken.

Tronox Response:

- a. *Lithologic logs of the wells along the Interceptor well field were restudied and reinterpreted. The Muddy Creek high on the west side of the well field was redrawn based on the contact in well I-A and the Muddy Creek high on the east side of the well field was evident upon the inclusion of well CLD2-R.*
- b. *The flow from GW-11 to the FBRs has recently been raised from about 22 gpm to 25-27 gpm as a replacement pump was installed. Changing the block flow sheet whenever a small change in plant operation occurs, seems excessive. Tronox proposes to update Figure 7 once each year when the annual report is submitted.*
- c. *Control of the biological treatment plant to meet NPDES discharge requirements is the responsibility of Veolia Water North America, which operates the groundwater collection and treatment systems for Tronox. Veolia samples water from the GAC columns and has analyzed the water for pesticides. The concern that bacteria in the FBRs might be adversely impacted by traces of organics was raised during the design process for the system. The bacteria have proven to be resilient to changes in many operating conditions. Veolia will continue to monitor GAC performance and will replace the GAC as needed.*
- d. *The "FBR Influent" sample is collected following the GAC and polishing filters at a sample point located on the east side of the D-1 building. The "FBR Effluent" sample is collected at the end of the discharge pipeline just upstream of the Pabco Road erosion control structure on Las Vegas Wash. Tronox will add the points to the Figure 7 block diagram as a footnote.*

NDEP Comment:

12. Tables, the NDEP has the following comments and suggestions:

- a. Table 2, Interceptor Well Discharge Rates (GPM), the NDEP has the following comments:
 - i. TRX reports a total discharge rate for the Interceptor Wells listed in Table 2 of 64.2 gpm for June 2007. In Table 7, Groundwater Chromium Treatment Data July 2006 to June 2007 reports an average flow of 2.78 million gallons for June 2007 to the GWTP. Figure 7 shows that the inflow to the GWTP is the combination of the Interceptor Wells discharge plus approximately 20 gpm from pond GW-11. If the flow discharge rate

from Table 2 is added to the approximately 20 gpm from pond GW-11, the inflow to the GWTP is 84.2 gpm (3.64 million gallons for June 2007). Please clarify this discrepancy.

- ii. TRX lists a "NI = Not operational" as a footnote in this table but uses "NO" in the table. Please revise as necessary.
- b. Table 6, Well PC-119 appears to have been turned off, please explain.
- c. Table 7, Groundwater Chromium Treatment Data July 2006 to June 2007, the NDEP requests that this table be combined with Table 8 with the following column headings (units): Month, Average Influent Flow to GWTP (gpm), Average Total Cr Influent Concentration to GWTP (mg/L), Average CrVI Effluent Concentration from GWTP (mg/L), Average Total Cr Effluent Concentration from GWTP (mg/L), Average Influent Flow to FBR (gpm), Average CrVI Influent Concentration from FBR (mg/L), Average Total Cr Influent Concentration to FBR (mg/L), CrVI Effluent Concentration from FBR (mg/L), Average Total Cr Effluent Concentration to FBR (mg/L).
- d. Table 8, July 2006 To June 2007 Weekly Chromium (mg/L) in FBR Influent and Effluent, please combine with Table 7 (please see above comment). Also note that the TRX does not need to have a column for detection limits if they report the concentrations as less than the numerical value of the detection limit (e.g. <0.0001).
- e. Table 8, it appears that there is a mechanism that is removing chromium between the influent and effluent of the FBR. Please explain what this mechanism is.
- f. Table 9, Perchlorate Removed from the Surface and Groundwater, please add total chromium removed to this table.
- g. Table 10, July 2006 to June 2007 Weekly Perchlorate in FBR Influent and Effluent, the NDEP requests that this table be revised to have the following column headings (units): Month, Average Influent Flow (gpm), Average Perchlorate Influent Concentration (mg/L), and Average Perchlorate Effluent Concentration. Additionally, TRX does not need to have a column for detection limits if they report the concentrations as less than the numerical value of the detection limit (e.g. <0.0001).

Tronox Response:

- a i. *The 2.78 million gallons per month for June 2007 is for the well field contribution (64.2 gpm) alone. When the flow from GW-11 is added in the total is 3.64 million gallons. Future reports will post the correct amounts.*
- a ii. *The footnote will be revised to NO = not operational.*
- b. *In order to optimize perchlorate mass capture PC-119 was turned off in May in order to process water with higher perchlorate content.*
- c. *Table 7 will be combined with Table 8 and the suggested column headings (units) will be used.*
- d. *Table 8 will be combined with Table 7 and the suggested column headings (units) will be used.*
- e. *As noted in Section 6 of the annual report, about 252 pounds of hexavalent chromium were destroyed by the FBRs in the last year. The reducing conditions in the FBRs are thought to reduce hexavalent chromium to the trivalent form. The precise mechanism is not determined.*
- f. *"Total chromium removed" will be added to this table for the next Annual Performance Report.*
- g. *Table 10 will be revised as requested.*

NDEP Comment:

13. Appendix A, the NDEP has requested that TRX provide all available data in an electronic format for each performance report. To date, the electronic data has not been complete; numerous wells and historic data have not been included.

Tronox Response:

Monitoring data for all of the wells sampled during the reporting period are provided in the Access accessible database in Appendix C. Appendix A has been created to produce specific graphs of specific wells of interest to Tronox.

NDEP Comment:

14. Appendix D, the NDEP has the following comments:

- a. TRX Response to March 29, 2007 NDEP comments of the Semiannual Performance Report Dated February 26, 2007, the NDEP has the following comments:
 - i. In response to comments (RTC) 14.a, TRX states that they will “review and set-up procedures for the graphical representations ... to unify scales and ranges where practical.” The NDEP did not observe any of the scales in Appendix B of the Annual Report to be unified. Please note that NDEP’s original comment was for all future performance reports that contain these graphs and not just future Semiannual Performance Reports.
 - ii. RTC 17, TRX states that they will provide all parts of their database used for the development of the report. This information was not included.
- b. TRX RTC for NDEP’s July 2, 2007 Comments on the Quarterly Performance Report dated May 29, 2007:
 - i. RTC 4, no update on monitoring wells ARP-4, ARP-5, and ARP-6 was included in the text of the report.
 - ii. RTC 18, the NDEP originally requested that TRX submit a schedule for and clarification on the intended procedures for the recommended pump test on M-71 and M-72. In the Annual Performance Report, TRX has recommended pumping wells M-70 and M-71 but did not provide a schedule or recommended procedures. As previously stated above, the NDEP has responded to this issue in a response letter dated October 3, 2007. Please address this issue as requested in the October 3, 2007 letter.

Tronox Response:

- a i. *Tronox has removed the Appendix B graphs from the performance report. Data are provided in hard copy and electronically in Appendix A.*
- a ii. *Tronox has provided the EQulS database information in an Access compatible format under Appendix C. At this time there are no other databases.*
- b i. *Page 3-2, second paragraph states “...ARP-4, 5 and 6A – were temporarily abandoned in order to make way for construction of a new storm drain. These wells will be reestablished once construction is completed, estimated to be 6 to nine months.”*
- b ii. *Tronox has never intended to run any kind of tests to determine aquifer parameters in monitor wells M-70, 71 or 72. Tronox’s intention has always been to pump (ie. extract/recover groundwater from) one or more of these wells to mine groundwater from the area while analyzing the discharge for total chromium and perchlorate. The pumping will be performed at whatever rate is necessary to recover as much impacted groundwater as possible. Tronox plans to meter the flow from the wells and will submit total gallons recovered and associated groundwater analytical data to the NDEP*

NDEP Comment:

- 15. Appendix F, NDEP has the following comments that should be addressed under separate cover (in a Sampling and Analysis Plan) and submitted by **November 16, 2007**:
 - a. General comment, please note that the sampling plan is subject to change pending the submittal of additional data.
 - b. General comment, the issues outlined below would likely be addressed most effectively in a meeting.
 - c. The NDEP has noted on Plates 2, 6, 7, etc. that there are concentration and groundwater elevation data for wells not listed in Appendix F. Please add a table listing these wells that includes, at a minimum the owner of the wells, whether the respective owner of the well obtains and analyzes the sample and provides the data to TRX, and what analytical data TRX receives (or for what analytes does TRX sample).
 - d. Table F-4, NDEP requests the following:
 - i. The addition of total chromium analysis for the following wells: H-48, H-58A, MC53, and MC65.
 - ii. The addition of wells AA-01, LG025, BEC-1, POU3, and AA-11 to the annual sampling schedule.
 - iii. The rationale for limiting the number of samples collected for chlorate and nitrate analysis as compared to the number of samples collected for perchlorate.

- iv. The rationale for the limited number of samples collected for Cr-VI analysis.
- e. A separate table listing all wells required to be sampled by permits, AOC, etc., the required frequency of sampling, and the analytes required.
- f. Figure F-2, TRX notes that PC-10 has been plugged and abandoned in Table F-4, please verify the status of the well and remove PC-10 from Figure F2 if not useable.
- g. Figure F-4, please add the following wells to this figure: H-48, H-58A, MC53, and MC65.
- h. TRX proposes weekly sampling from the pumping wells at the Seep and Athens Well Fields but only quarterly sampling from the pumping wells at the Interceptor Well Field. Please discuss the rationale for the difference in sampling frequency.
- i. TRX proposes monthly sampling for several wells not associated with a well field. Please provide the rationale for this sampling frequency for these wells.
- j. TRX proposes monthly sampling for several wells associated with a well field but are not pumping wells. Please provide the rationale for this sampling frequency for these wells.

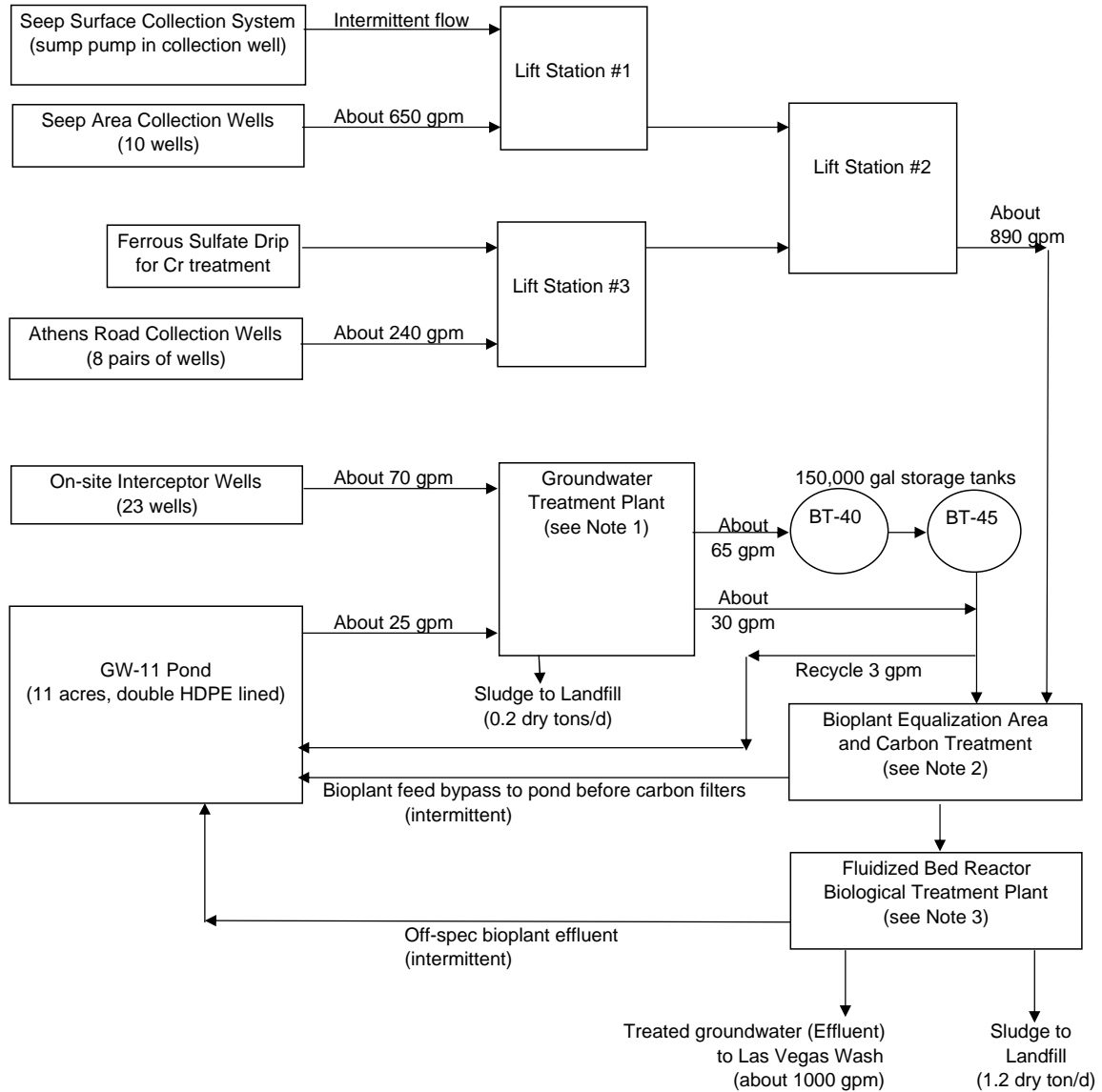
Tronox Response:

- a. *It is noted that the sampling plan is subject to change.*
- b. *It is agreed that the issues discussed here would be addressed more effectively in a meeting.*
- c. *The SAP will contain a table listing the non-TRX wells used in the report plates and identify those column items listed by the NDEP above.*
- d i *TRX will add total chromium analyses to the annual sampling of wells H-48, H-58A, MC53 and MC65.*
- d ii *TRX will add wells AA-01 and AA-11 to the sampling schedule but since wells BEC-1, LGO25 and POU3 are all in the same area east of Pabco Road TRX will only add BEC-1 to the sampling schedule.*
- d iii *In a 2005 meeting with the NDEP, six traverses across the width of the perchlorate plume were mutually selected by TRX and the NDEP – from south of the TRX plant site to the Seep well field – to be sampled for chlorate and nitrate. All parties regarded these six traverses as giving adequate coverage of the chlorate and nitrate concentration changes downgradient.*
- d iv *The data indicate that the majority of the chromium plume is composed of hexavalent chromium. For that reason, and to be conservative, TRX considers the chromium plume as completely hexavalent. The analytical technique for total chromium is substantially less expensive than that for Cr+6. To analyze any more samples for Cr+6 is costly and not needed for the performance evaluations.*
- e. *The SAP will contain a table listing the column heading requested above by the NDEP.*
- f. *Well PC-10 is plugged and abandoned and will be removed from Figure F-2.*
- g. *These wells will be added to Figure F-4.*
- h. *The Interceptor well field has been in existence since the 1980s and very little change occurs in the chemistry of the groundwater in the wells over time. Therefore quarterly sampling is sufficient. The Athens Road and Seep well fields are newer and TRX has been collecting weekly background data up until now. However TRX now thinks that enough background data have been collected and that sampling of these well fields can be accomplished on a monthly basis starting immediately.*
- i. *Wells not associated with well fields are to be sampled monthly based on past sampling experience in order to proactively become aware of any changes in water chemistry likely to impact the well fields in the near future.*
- j. *Wells associated with well fields are to be sampled monthly based on past sampling experience in order to proactively become aware of any changes in water chemistry likely to laterally impact the well fields and to monitor concentration trends downgradient.*

Figure 7

Tronox Henderson Groundwater Treatment Block Flow Diagram

Last modified 10/24/2007



Notes:

- 1) Ferrous sulfate added for chromium removal. Clarifier settles solids. Sludge is removed and landfilled.
- 2) Two 12,000 gallon tanks plus three activated carbon vessels to remove organics which could harm bacteria, followed by cartridge filters.
- 3) Five 33,000 gallon primary reactors, four 28,800 gallon secondary reactors, aeration, dissolved air flotation, UV disinfection, two plate and frame filter presses, and a sand filter.
- 4) Biplant feed is sampled after cartridge filters (note 2) and effluent is sampled at the discharge to Las Vegas Wash.

**APPENDIX D
DATA REVIEW MEMORANDA**

Prepared for:
Tronox LLC
Henderson, Nevada

Data Validation Summary Report

ENSR Corporation
November 2007
Document No.: 04020-023-110

Prepared for:
Tronox LLC
Henderson, Nevada

Data Validation Summary Report

Prepared By Robert Kennedy
Senior Project Chemist
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Reviewed By Marie Wojtas
ENSR Corporation

ENSR Corporation
November 2007
Document No.: 04020-023-110

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1.0 INTRODUCTION

The purpose of limited data validation performed on laboratory results for the third quarter of 2007 was to determine the suitability of the data for future on-site environmental assessments, including the Quarterly Performance Perchlorate Report on the Perchlorate Recovery System for July-September of 2007.

MWH Laboratories in Monrovia, CA was the laboratory contracted by Tronox for the chemical analyses discussed below as a part of the routine monitoring program at the Tronox facility in Henderson, Nevada.

The specific analyses performed by the laboratory and reviewed in this report include all hexavalent chromium, total chromium, total dissolved solids (TDS), nitrate, and chloride analyses provided by MWH in the selected analytical reports and not just the perchlorate results required for the quarterly report.

2.0 DATA VALIDATION PROCESS

All the specified results contained in the laboratory reports listed in the data validation memorandum were subjected to thorough data review known as limited validation. Ten percent of the data packages were provided by the laboratory as CLP-like deliverables and these were subjected to formal full data validation as recommended in the guidance on data validation provided by NDEP for the BMI Plant Sites (NDEP, 2006). The laboratory submitted sample and batch QC results with narratives in pdf format and EQUIS format EDDs for all reports. The required extra raw data needed for full data validation was submitted for three reports. The EDDs were imported into an EQUIS database, specifically created for the ongoing monitoring at the Henderson site, at Tronox. ENSR performed a limited validation on the data using the hard copy data package and subsequently entered the validation qualifiers into the database.

Limited validation consisted of reviewing the following data elements based on review of summary data forms.

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Holding times and sample preservation
- Laboratory blanks/equipment blanks/ field blanks
- Laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) results
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory duplicate results
- Field duplicate results
- Quantitation limits and sample results

Full validation consisted in reviewing the above data elements plus the following extra elements, based on raw data review.

- Initial and continuing calibrations
- Interference check sample results

- ICP serial dilution results
- Calculations and transcription verifications

Analytical data were evaluated with reference to the National Functional Guidelines (EPA, 1999 and 2004) and other method appropriate validation guidance documents, as well as the Region 9 Superfund Data Evaluation/Validation Guidance (EPA, 2001), the above mentioned NDEP Guidance on Data Validation (NDEP, 2006), the quality control (QC) criteria provided by the laboratory. The Regional and National Functional Guidelines were modified to accommodate the non-CLP methodologies. The specific guidelines used for the various methods were as follows:

- Inorganic analytical data were evaluated with reference to "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (EPA, 2004)

In general, the validation qualifiers and definitions employed were based on those used by EPA in the document mentioned above. Validation qualifiers and definitions are listed in **Table D-1**. A reason code was assigned to all the applications of validation qualifiers for this project. The reason codes and their explanations are listed in **Table D-2**. These codes were entered in the project database for each application of a validation qualifier that changed a lab qualifier or result value to indicate the primary reason(s) for data qualification. Conversions of the laboratory reported "ND" (not detected) to the U qualifier (see Table D-1) in the database are not further discussed in this report. In addition, the laboratory-applied "J" qualifier to indicate results less than the reporting limit but greater than the method detection limit were not changed and are not further discussed in this report.

Data validation was organized by MWH Laboratory Report which is also identified as the sample delivery group (SDG) in the tables. Two data validation memoranda, one for all the limited validation, and one for all the full validation, were written and reviewed at ENSR's Westford office. These memoranda are included on CD-ROM as a pdf document. Each memorandum includes a list (in Appendix A) of the laboratory SDGs reviewed.

3.0 DATA VALIDATION RESULTS

The data validation qualifiers and reason codes were used to select all the data in the database where results were qualified as a result of validation. This information was sorted by the quality control (QC) review elements listed below:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Initial and continuing calibrations (full validation only)
- Interference check sample results (full validation only)
- Holding times and sample preservation
- Laboratory blanks/equipment blanks/ field blanks
- Laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) results
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory duplicate results
- Field duplicate results
- ICP serial dilution results (full validation only)

- Quantitation limits and sample results
- Calculations and transcription verifications (full validation only)

Tables D-3 lists all the results which were qualified based on quality control issues identified with regard to holding times and laboratory duplicate results. No QC issues were identified that resulted in qualification of results based on blank contamination, LCS/LCSD results, MS/MSD results, field duplicate results, or quantitation limits. Reason codes, Data Quality Indicators (DQI), and the nonconforming DQI results are listed in the table as requested by NDEP. **Table D-4** lists all the SDGs, sample IDs, and the specific analyses reviewed. SDGs subjected to full validation are shown in bold. All other SDGs underwent limited validation.

3.1 Holding Times and Sample Preservation

Holding times were derived from the EPA methods utilized and were calculated beginning from the time of sample collection. The majority of analyses were performed within the method-specified holding times. Exceptions are listed in **Table D-3** and summarized in the validation memoranda. The DQI result value for holding time in Table D-3 is the time elapsed between sample collection and analysis. The holding time for hexavalent chromium in water is 24 hours from collection to analysis. The holding time for perchlorate in water is 28 days from collection to analysis. The holding time for TDS in water is 7 days from collection to analysis. No data were rejected on the basis of holding time exceedances but some results were qualified as estimated. Results for hexavalent chromium and TDS required qualification on the basis of holding time issues as discussed in the data review memoranda. Where the TDS holding time was exceeded, TDS results were qualified as estimated, biased low (J-) because the method specifically mentions potential biodegradation of solids as the reason samples should be filtered as soon as possible. The hexavalent chromium qualifiers for the holding time exceedance were not assigned a bias (low or high) because it is unclear which direction (positive or negative bias) the result would deviate. Hexavalent chromium concentrations can change unpredictably over time in response to absorption of gases, pH changes, and redox condition changes

3.2 Blank Contamination

In general, laboratory and field blanks were free of contamination. The equipment blanks collected on 7/31/07 and 8/1/07 contained low levels of perchlorate and/or TDS. The associated samples were all more than ten times greater in concentration for these analytes, therefore no data required qualification due to blank contamination.

3.3 Laboratory Control Samples

LCS and LCSD recoveries met QC acceptance criteria for all of the analyses reviewed

3.4 Matrix Spike Samples

MS and MSD recoveries met the QC acceptance criteria for all the analyses reviewed in this report with the exception of M-71. The spike amount was significantly lower than the sample concentration in this case that the data was not useable and therefore no validation action was taken based on the spike recovery failure.

3.5 Laboratory Duplicates

The evaluation of laboratory duplicate precision included an assessment of the agreement between LCS and LCSDs, MS and MSDs, and matrix duplicates, as measured through relative percent difference (RPD). These results met the QC acceptance criteria for all of the analyses reviewed with the exception of the TDS results for PC-18. The positive TDS results in all associated samples were therefore qualified as estimated as shown in Table D-3.

3.6 Field Duplicates

The results of the four groundwater sample duplicate pairs collected during the third quarter of 2007 were evaluated during validation. RPDs were compared to the objectives of 30% maximum RPD for aqueous samples. No results were qualified during validation based on field duplicate precision nonconformances.

3.7 Quantitation Limits and Sample Results

No results were qualified based on QC related to quantitation limits or sample results reported.

3.8 Rejected Results

No results in the reviewed dataset were rejected based on validation criteria or QC nonconformances.

4.0 EVALUATION OF DATA QUALITY INDICATORS

Data validation information was used to evaluate the data quality indicators (DQI) of precision, accuracy, representativeness, comparability, completeness, and sensitivity for results in the dataset for the Henderson Quarterly Performance Perchlorate Report. Each of these DQI parameters is discussed in sections below.

4.1 Precision

Precision is the measure of agreement among repeated measurements of the same property under identical or substantially similar conditions. Field precision was assessed through the collection and measurement of field duplicates and expressed as the RPD of the sample and field duplicate pair results. In general the field duplicate precision was acceptable for all analytes reported.

Laboratory precision was assessed through the RPD results for matrix duplicates, LSC/LCSD pairs, and MS/MSD pairs. In general, the laboratory duplicate precision was acceptable, except as noted above in Section 3.5.

4.2 Accuracy

Accuracy is the degree of agreement between an observed value and an accepted reference or true value. Laboratory accuracy was assessed during the validation using the recoveries of positive control samples (i.e., MS and MSD, LCS and LCSD). Accuracy is also indirectly addressed via the negative control samples for field activities (i.e. trip, equipment, and field blanks), as well as laboratory negative control samples (i.e., method blanks and calibration blanks). All negative control sample results were acceptable with the exceptions discussed above in Section 3.2.

Bias as a component of accuracy is also evaluated with the validation of holding time results discussed in Section 3.1 of this report. These evaluations resulted in the minor qualification of some results as described in the data validation memoranda and Section 3.1 of this report.

4.3 Representativeness

Representativeness is the measure of the degree to which data suitably represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Aspects of representativeness addressed during validation include the review of sample collection information in the chain-of-custody (COC) documentation, conformity of laboratory analyses to workplan intentions, adherence of the documented laboratory procedures to method requirements, and completeness

of the laboratory data packages. Most of the issues identified during this evaluation did not result in the qualification of laboratory data but did involve re-submittals of data from the laboratories to correct problems that were discovered during the validation process. All of these issues were resolved or were judged to have no impact on data validation. Other aspects of data representativeness such as adherence to recommended holding times are discussed in Section 3.1 of this report.

4.4 Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system, expressed as a percentage of the number of valid measurements that were or should have been collected. Valid data is defined as all the data points judged to be valid (i.e. not rejected), as a result of the validation process.

Field completeness is defined as the percentage of samples actually collected versus those intended to be collected in accordance with the plan for routine monitoring. All intended samples were collected in accordance with the monitoring schedule. All COC requests were faithfully executed by the laboratories with the minor exceptions discussed in the validation memorandum.

Laboratory completeness is defined as percentage of valid data points versus the total expected from the laboratory analyses. Actual laboratory completeness was 100% on the basis of sample analysis (i.e., all requested analyses were performed and reported by the laboratories), and 100% completeness based on valid data as a percentage of the total data points attempted.

4.5 Comparability

Comparability is a qualitative expression of the measure of confidence that two or more data sets may contribute to a common analysis. Comparability of data within the investigation was maximized by using standard methods for sampling and analysis, reporting data, and data validation. Standard water/wastewater program methods from EPA were employed by the MWH laboratory for all analyses.

4.6 Sensitivity

Sensitivity is the capability of a method or instrument to discriminate between measurement responses representing different levels of the variable of interest and particularly the capability of measuring a constituent at low levels. For the EPA methods employed in this project sensitivity is measured by the method detection limit (MDL) and reporting limit (RL). Reporting limits in general were sample quantitation limits based on the low point of calibration and adjusted for sample-specific factors such as exact aliquot size, dilutions, etc. Sensitivity of the methods employed was adequate for the routine monitoring needs and consistent with the historical data for the site.

5.0 CONCLUSIONS

One hundred percent of the laboratory data for the Quarterly Performance Report for the Perchlorate Recovery System covering July to September 2007 were subjected to a limited validation using standardized guidelines and procedures recommended by EPA and NDEP. Ten percent of the laboratory SDGs were subjected to full data validation as requested by NDEP. Ninety-eight percent of the reviewed results for this project were accepted as reported by the laboratory without additional qualification based on validation actions and should be considered valid for all decision making purposes. A subset of the laboratory results were qualified based on issues discovered during the validation process and those results are summarized in Tables D-3. The qualified data are grouped in this table based on the reason for qualification (see Table D-2), the Data Quality Indicator (DQI) involved, and the qualifier flags applied (see Table D-1). Two percent of

the results for this project were qualified as estimated due to QC problems with sample holding time and laboratory duplicate precision. These estimated results should be considered usable for decision making purposes provided the potential bias is considered when the data are used. No results were rejected as unusable due to serious QC problems. Based on the results of data validation, the overall goals for data quality were achieved for the dataset used in the Quarterly Performance Report for the Perchlorate Recovery System covering July to September 2007.

6.0 REFERENCES

EPA, 1999 USEPA "Contract Laboratory Program National Functional Guidelines for Organic Data Review"

EPA, 2001 USEPA "Draft Region 9 Superfund Data Evaluation/Validation Guidance"

EPA, 2004 USEPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review"

ENSR, August 2006 DRAFT Quality Assurance Project Plan, Tronox LLC Facility Henderson, Nevada

NDEP, 2006 NDEP "Guidance on Data Validation, BMI Pant Sites and Common Areas Projects, Henderson, Nevada"

Table D-1
Data Validation Qualifiers
Quarterly Performance Report for Remediation Systems
July - September 2007
Henderson, Nevada

Validation Qualifier	Definition
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity and the result may be biased high. This qualifier is applied only to inorganic analyte results.
J-	The result is an estimated quantity and the result may be biased low. This qualifier is applied only to inorganic analyte results.
UJ	The analyte was not detected above the sample reporting limit and the reporting limit is approximate.
U	The analyte was analyzed for, but was not detected above the sample reporting limit
R	The result is rejected and unusable due to serious data deficiencies. The presence or absence of the analyte cannot be verified.
B	The result may be a false positive totally attributable to blank contamination. This qualifier is applied only to radiochemical results.
JB	The result may be biased high and partially attributable to blank contamination. This qualifier is applied only to radiochemical results.

Table D-2
Data Validation Qualifier Reason Codes
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

Code	Explanation
j-b	estimated due to blank contamination
j-be	estimated due to equipment blank contamination
j-bl	estimated due to lab blank contamination
j-c	estimated due to calibration problems
j-d	estimated due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
j-f	estimated due to field duplicate imprecision
j-h	estimated due to holding time exceedance
j-i	estimated due to internal standard areas
j-l	estimated due to LCS recoveries
j-m	estimated due to matrix spike recoveries
j-r	estimated due to quantitation problem
j-s	estimated due to surrogate recoveries
j-t	estimated due to preservation temperature exceedance
j-x	estimated due to low % solids
j-y	estimated due to serial dilution results
j-z	estimated due to ICS results
r-c	rejected due to calibration
r-h	rejected due to holding time exceedance
r-l	rejected due to LCS recoveries
r-m	rejected due to matrix spike recoveries
r-s	rejected due to surrogate recoveries
u-be	negated due to equipment blank contamination
u-bl	negated due to lab blank contamination
uj-a	estimated nondetect due to low abundance (radiochemical activity)
uj-b	estimated nondetect due to negative blank contamination (nondetect results only)
uj-be	estimated nondetect due to negative equipment blank contamination (nondetect results only)
uj-bl	estimated nondetect due to negative lab blank contamination (nondetect results only)
uj-c	estimated nondetect due to calibration issues
uj-cp	estimated nondetect due to insufficient ingrowth (radiochemical only)
uj-d	estimated nondetect due to lab duplicate imprecision (matrix duplicate, MSD, LCSD)
uj-f	estimated nondetect due to field duplicate imprecision
uj-h	estimated nondetect due to holding time exceedance
uj-i	estimated nondetect due to internal standard areas
uj-l	estimated nondetect due to LCS recoveries
uj-m	estimated nondetect due to matrix spike recoveries
uj-q	estimated nondetect level changed due to quantitation problem
uj-s	estimated nondetect due to surrogate recoveries
uj-t	estimated nondetect due to preservation temperature exceedance
uj-x	estimated nondetect due to low % solids
uj-z	estimated nondetect due to ICS results
u-q	nondetected level changed due to quantitation problem

Table D-3
Qualifications Based on DQI Exceedances
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

Sample ID	SDG	Method	Analyte	Result	Units	Validation Qualifier	Reason Code	DQI	DQI Result	
ARP-1_08/15/07	213675	EPA 160.1	Total Dissolved Solids	5330	mg/l	J	j-d	Lab Dup RPD	33.90%	
ARP-2_08/15/07	213675	EPA 160.1	Total Dissolved Solids	5750	mg/l	J	j-d	Lab Dup RPD	33.90%	
ARP-3_08/15/07	213675	EPA 160.1	Total Dissolved Solids	6450	mg/l	J	j-d	Lab Dup RPD	33.90%	
EB-1_07/31/07	211999	SW 846 7196	Chromium-hexavalent	0.005	mg/l	UJ	uj-h	Holding Time	1.01	days
EB-2_08/01/07	212147	SW 846 7196	Chromium-hexavalent	0.005	mg/l	UJ	uj-h	Holding Time	2.08	days
FB-1_07/30/07	211929	SW 846 7196	Chromium-hexavalent	0.005	mg/l	UJ	uj-h	Holding Time	1.26	days
M-10_08/02/07	212236	SW 846 7196	Chromium-hexavalent	0.35	mg/l	J	j-h	Holding Time	1.04	days
M-100_08/02/07	212263	SW 846 7196	Chromium-hexavalent	0.22	mg/l	J	j-h	Holding Time	1.13	days
M-11_08/02/07	212263	SW 846 7196	Chromium-hexavalent	2.8	mg/l	J	j-h	Holding Time	1.08	days
M-12A_08/01/07	212147	SW 846 7196	Chromium-hexavalent	14	mg/l	J	j-h	Holding Time	2.08	days
M-17A_08/03/07	212281	EPA 160.1	Total Dissolved Solids	13800	mg/l	J-	j-h	Holding Time	11.53	days
M-36_08/02/07	212263	SW 846 7196	Chromium-hexavalent	38	mg/l	J	j-h	Holding Time	1.10	days
M-37_07/31/07	211999	EPA 160.1	Total Dissolved Solids	5950	mg/l	J-	j-h	Holding Time	8.97	days
M-37_07/31/07	211999	SW 846 7196	Chromium-hexavalent	0.100	mg/l	UJ	uj-h	Holding Time	1.02	days
M-44_07/30/07	211929	SW 846 7196	Chromium-hexavalent	0.95	mg/l	J	j-h	Holding Time	1.01	days
M-84_08/02/07	212263	SW 846 7196	Chromium-hexavalent	0.090	mg/l	J	j-h	Holding Time	1.16	days
M-89_08/03/07	212281	EPA 160.1	Total Dissolved Solids	12300	mg/l	J-	j-h	Holding Time	11.54	days
M-94_07/30/07	211929	SW 846 7196	Chromium-hexavalent	0.74	mg/l	J	j-h	Holding Time	1.02	days
MD-1_07/30/07	211929	SW 846 7196	Chromium-hexavalent	0.76	mg/l	J	j-h	Holding Time	1.52	days
MD-2_08/01/07	212147	SW 846 7196	Chromium-hexavalent	14	mg/l	J	j-h	Holding Time	2.50	days
MWK-4_08/15/07	213675	EPA 160.1	Total Dissolved Solids	7570	mg/l	J	j-d	Lab Dup RPD	33.90%	
PC-126_07/30/07	211929	EPA 160.1	Total Dissolved Solids	11050	mg/l	J-	j-h	Holding Time	22.47	days
PC-18_08/15/07	213675	EPA 160.1	Total Dissolved Solids	8100	mg/l	J	j-d	Lab Dup RPD	33.90%	
PC-99R2/R3_06/25/07	208480	EPA 160.1	Total Dissolved Solids	5200	mg/l	J	j-h	Holding Time	10.19	days

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SDG	SampleID	EPA 160_1 Total Dissolved Solids	EPA 200_7 Chromium	EPA 300_0 Chloride	EPA 300_0 Nitrate (as N)	EPA 314 Perchlorate	SW 846 6010B Chromium	SW 846 7196 Chromium-hexavalent
208480	ART-1_06/25/07	X				X		
208480	ART-2_06/25/07	X				X		
208480	ART-3_06/25/07	X				X		
208480	ART-4_06/25/07	X				X		
208480	ART-6_06/25/07	X				X		
208480	ART-7_06/25/07	X				X		
208480	ART-8_06/25/07	X				X		
208480	ART-9_06/25/07	X				X		
208480	PC-115R_06/25/07	X				X		
208480	PC-116R_06/25/07	X				X		
208480	PC-117_06/25/07	X				X		
208480	PC-118_06/25/07	X				X		
208480	PC-119_06/25/07	X				X		
208480	PC-120_06/25/07	X				X		
208480	PC-121_06/25/07	X				X		
208480	PC-133_06/25/07	X				X		
208480	PC-99R2/R3_06/25/07	X				X		
208786	SF-1_06/27/07	X				X		
209108	ART-1_07/02/07	X				X		
209108	ART-2_07/02/07	X				X		
209108	ART-3_07/02/07	X				X		
209108	ART-4_07/02/07	X				X		
209108	ART-6_07/02/07	X				X		
209108	ART-7_07/02/07	X				X		
209108	ART-8_07/02/07	X				X		
209108	ART-9_07/02/07	X				X		
209108	PC-115R_07/02/07	X				X		
209108	PC-116R_07/02/07	X				X		
209108	PC-117_07/02/07	X				X		
209108	PC-118_07/02/07	X				X		
209108	PC-119_07/02/07	X				X		
209108	PC-120_07/02/07	X				X		

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209108	PC-121_07/02/07	X				X		
209108	PC-133_07/02/07	X				X		
209108	PC-99R2/R3_07/02/07	X				X		
209108	SF-1_07/02/07	X				X		
209827	ART-1_07/10/07	X				X		
209827	ART-2_07/10/07	X				X		
209827	ART-3_07/10/07	X				X		
209827	ART-4_07/10/07	X				X		
209827	ART-6_07/10/07	X				X		
209827	ART-7_07/10/07	X				X		
209827	ART-8_07/10/07	X				X		
209827	ART-9_07/10/07	X				X		
209827	PC-115R_07/10/07	X				X		
209827	PC-116R_07/10/07	X				X		
209827	PC-117_07/10/07	X				X		
209827	PC-118_07/10/07	X				X		
209827	PC-119_07/10/07	X				X		
209827	PC-120_07/10/07	X				X		
209827	PC-121_07/10/07	X				X		
209827	PC-133_07/10/07	X				X		
209827	PC-99R2/R3_07/10/07	X				X		
209827	SF-1_07/10/07	X				X		
210342	ARP-1_07/12/07	X				X		
210342	ARP-2_07/12/07	X				X		
210342	ARP-3_07/12/07	X				X		
210342	ARP-7_07/13/07	X				X		
210342	L-635_07/11/07	X				X		
210342	L-637_07/11/07	X				X		
210342	M-83_07/13/07	X				X		
210342	M-87_07/13/07	X				X		
210342	MWK-4_07/12/07	X				X		
210342	MWK-5_07/13/07	X				X		

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210342	PC-101R_07/12/07	X				X		
210342	PC-103_07/13/07	X				X		
210342	PC-122_07/12/07	X				X		
210342	PC-17_07/12/07	X				X		
210342	PC-18_07/12/07	X				X		
210342	PC-53_07/13/07	X				X		
210342	PC-55_07/11/07	X				X		
210342	PC-56_07/11/07	X				X		
210342	PC-58_07/11/07	X				X		
210342	PC-59_07/11/07	X				X		
210342	PC-60_07/11/07	X				X		
210342	PC-62_07/11/07	X				X		
210342	PC-68_07/11/07	X				X		
210342	PC-86_07/12/07	X				X		
210342	PC-90_07/12/07	X				X		
210342	PC-91_07/12/07	X				X		
210342	PC-95_07/12/07	X				X		
210342	PC-97_07/12/07	X				X		
210342	PC-98R_07/13/07	X				X		
210606	ART-1_07/16/07	X				X		
210606	ART-2_07/16/07	X				X		
210606	ART-3_07/16/07	X				X		
210606	ART-4_07/16/07	X				X		
210606	ART-6_07/16/07	X				X		
210606	ART-7_07/16/07	X				X		
210606	ART-8_07/16/07	X				X		
210606	ART-9_07/16/07	X				X		
210606	PC-115R_07/16/07	X				X		
210606	PC-116R_07/16/07	X				X		
210606	PC-117_07/16/07	X				X		
210606	PC-118_07/16/07	X				X		
210606	PC-119_07/16/07	X				X		

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210606	PC-120_07/16/07	X				X		
210606	PC-121_07/16/07	X				X		
210606	PC-133_07/16/07	X				X		
210606	PC-99R2/R3_07/16/07	X				X		
210606	SF-1_07/16/07	X				X		
211354	ART-1_07/23/07	X				X		
211354	ART-2_07/23/07	X				X		
211354	ART-3_07/23/07	X				X		
211354	ART-4_07/23/07	X				X		
211354	ART-6_07/23/07	X				X		
211354	ART-7_07/23/07	X				X		
211354	ART-8_07/23/07	X				X		
211354	ART-9_07/23/07	X				X		
211354	PC-115R_07/23/07	X				X		
211354	PC-116R_07/23/07	X				X		
211354	PC-117_07/23/07	X				X		
211354	PC-118_07/23/07	X				X		
211354	PC-119_07/23/07	X				X		
211354	PC-120_07/23/07	X				X		
211354	PC-121_07/23/07	X				X		
211354	PC-133_07/23/07	X				X		
211354	PC-99R2/R3_07/23/07	X				X		
211354	SF-1_07/23/07	X				X		
211878	ART-1_07/30/07	X				X		
211878	ART-2_07/30/07	X				X		
211878	ART-3_07/30/07	X				X		
211878	ART-4_07/30/07	X				X		
211878	ART-6_07/30/07	X				X		
211878	ART-7_07/30/07	X				X		
211878	ART-8_07/30/07	X				X		
211878	ART-9_07/30/07	X				X		
211878	PC-115R_07/30/07	X				X		

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211878	PC-116R_07/30/07	X				X		
211878	PC-117_07/30/07	X				X		
211878	PC-118_07/30/07	X				X		
211878	PC-119_07/30/07	X				X		
211878	PC-120_07/30/07	X				X		
211878	PC-121_07/30/07	X				X		
211878	PC-133_07/30/07	X				X		
211878	PC-99R2/R3_07/30/07	X				X		
211878	SF-1_07/30/07	X				X		
211929	FB-1_07/30/07	X				X	X	X
211929	M-23_07/30/07	X				X	X	
211929	M-44_07/30/07	X				X	X	X
211929	M-48_07/30/07	X				X	X	
211929	M-94_07/30/07	X				X	X	X
211929	M-96_07/30/07	X				X	X	
211929	MD-1_07/30/07	X				X	X	X
211929	MD-3_07/30/07	X				X	X	
211929	PC-123_07/30/07	X				X	X	
211929	PC-124_07/30/07	X				X	X	
211929	PC-125_07/30/07	X				X	X	
211929	PC-126_07/30/07	X				X	X	
211929	PC-127_07/30/07	X				X	X	
211929	PC-128_07/30/07	X				X	X	
211929	PC-129_07/30/07	X				X	X	
211929	PC-130_07/30/07	X				X	X	
211929	PC-131_07/30/07	X				X	X	
211929	PC-132_07/30/07	X				X	X	
211929	PC-37_07/30/07	X				X	X	
211929	PC-54_07/30/07	X				X	X	
211929	PC-71_07/30/07	X				X	X	
211929	PC-72_07/30/07	X				X	X	
211929	PC-73_07/30/07	X				X	X	

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211999	EB-1_07/31/07	X				X	X	X
211999	M-25_07/31/07	X				X	X	
211999	M-37_07/31/07	X				X	X	X
211999	M-57A_07/31/07	X				X	X	
211999	M-64_07/31/07	X				X	X	
211999	M-65_07/31/07	X				X	X	
211999	M-66_07/31/07	X				X	X	
211999	M-69_07/31/07	X				X	X	
211999	M-79_07/31/07	X				X	X	
211999	M-98_07/31/07	X				X	X	
211999	M-99_07/31/07	X				X	X	
211999	MD-4_07/31/07	X				X	X	
212022	H-28A_07/31/07	X				X	X	
212022	M-5A_07/31/07	X				X	X	
212022	M-6A_07/31/07	X				X	X	
212022	M-7B_07/31/07	X				X	X	
212133	I-AR_07/31/07	X				X	X	
212133	I-B_07/31/07	X				X	X	
212133	I-C_07/31/07	X				X	X	
212133	I-D_07/31/07	X				X	X	
212133	I-E_07/31/07	X				X	X	
212133	I-F_07/31/07	X				X	X	
212133	I-H_07/31/07	X				X	X	
212133	I-L_07/31/07	X				X	X	
212133	I-M_07/31/07	X				X	X	
212133	I-N_07/31/07	X				X	X	
212133	I-O_07/31/07	X				X	X	
212133	I-P_07/31/07	X				X	X	
212133	I-Q_07/31/07	X				X	X	
212133	I-R_07/31/07	X				X	X	
212133	I-S_07/31/07	X				X	X	
212133	I-T_07/31/07	X				X	X	

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212133	I-U_07/31/07	X				X	X	
212147	EB-2_08/01/07	X				X	X	X
212147	I-I_08/01/07	X				X	X	
212147	I-J_08/01/07	X				X	X	
212147	I-K_08/01/07	X				X	X	
212147	I-V_08/01/07	X				X	X	
212147	I-Z_08/01/07	X				X	X	
212147	M-12A_08/01/07	X				X	X	X
212147	M-19_08/01/07	X				X	X	
212147	M-31A_08/01/07	X				X	X	
212147	M-34_08/01/07	X				X	X	
212147	M-35_08/01/07	X				X	X	
212147	M-39_08/01/07	X				X	X	
212147	M-50_08/01/07	X				X	X	
212147	M-61_08/01/07	X				X	X	
212147	M-67_08/01/07	X				X	X	
212147	M-68_08/01/07	X				X	X	
212147	M-92_08/01/07	X				X	X	
212147	M-97_08/01/07	X				X	X	
212147	MD-2_08/01/07	X				X	X	X
212236	M-10_08/02/07	X	X	X	X	X	X	X
212263	M-100_08/02/07	X				X	X	X
212263	M-101_08/02/07	X				X	X	
212263	M-102_08/02/07	X				X	X	
212263	M-11_08/02/07	X				X	X	X
212263	M-36_08/02/07	X				X	X	X
212263	M-73_08/02/07	X				X	X	
212263	M-74_08/02/07	X				X	X	
212263	M-84_08/02/07	X				X	X	X
212263	M-86_08/02/07	X				X	X	
212263	M-87_08/02/07	X				X	X	
212263	M-88_08/02/07	X				X	X	

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212281	M-115_08/03/07	X				X	X	
212281	M-14A_08/03/07	X				X	X	
212281	M-17A_08/03/07	X				X	X	
212281	M-22A_08/03/07	X				X	X	
212281	M-38_08/03/07	X				X	X	
212281	M-70_08/03/07	X				X	X	
212281	M-71_08/03/07	X				X	X	
212281	M-72_08/03/07	X				X	X	
212281	M-83_08/03/07	X				X	X	
212281	M-85_08/03/07	X				X	X	
212281	M-89_08/03/07	X				X	X	
212470	ART-1_08/06/07	X				X		
212470	ART-2_08/06/07	X				X		
212470	ART-3_08/06/07	X				X		
212470	ART-4_08/06/07	X				X		
212470	ART-6_08/06/07	X				X		
212470	ART-7_08/06/07	X				X		
212470	ART-8_08/06/07	X				X		
212470	ART-9_08/06/07	X				X		
212470	PC-115R_08/06/07	X				X		
212470	PC-116R_08/06/07	X				X		
212470	PC-117_08/06/07	X				X		
212470	PC-118_08/06/07	X				X		
212470	PC-119_08/06/07	X				X		
212470	PC-120_08/06/07	X				X		
212470	PC-121_08/06/07	X				X		
212470	PC-133_08/06/07	X				X		
212470	PC-99R2/R3_08/06/07	X				X		
212470	SEEP	X				X		
212470	SF-1_08/06/07	X				X		
213156	ART-1_08/13/07	X	X			X		
213156	ART-2_08/13/07	X	X			X		

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213156	ART-3_08/13/07	X	X			X		
213156	ART-4_08/13/07	X	X			X		
213156	ART-6_08/13/07	X	X			X		
213156	ART-7_08/13/07	X	X			X		
213156	ART-8_08/13/07	X	X			X		
213156	ART-9_08/13/07	X	X			X		
213156	PC-115R_08/13/07	X	X			X		
213156	PC-116R_08/13/07	X	X			X		
213156	PC-117_08/13/07	X	X			X		
213156	PC-118_08/13/07	X	X			X		
213156	PC-119_08/13/07	X	X			X		
213156	PC-120_08/13/07	X	X			X		
213156	PC-121_08/13/07	X	X			X		
213156	PC-133_08/13/07	X	X			X		
213156	PC-99R2/R3_08/13/07	X	X			X		
213156	SF-1_08/13/07	X	X			X		
213675	ARP-1_08/15/07	X	X			X		
213675	ARP-2_08/15/07	X	X			X		
213675	ARP-3_08/15/07	X	X			X		
213675	ARP-7_08/17/07	X	X			X		
213675	L-635_08/14/07	X	X			X		
213675	L-637_08/14/07	X	X			X		
213675	M-83_08/16/07	X	X			X		
213675	M-87_08/16/07	X	X			X		
213675	MWK-4_08/15/07	X	X			X		
213675	MWK-5_08/17/07	X	X			X		
213675	PC-101R_08/15/07	X	X			X		
213675	PC-103_08/17/07	X	X			X		
213675	PC-122_08/14/07	X	X			X		
213675	PC-17_08/15/07	X	X			X		
213675	PC-18_08/15/07	X	X			X		
213675	PC-53_08/17/07	X	X			X		

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213675	PC-55_08/14/07	X	X			X		
213675	PC-56_08/13/07	X	X			X		
213675	PC-58_08/13/07	X	X			X		
213675	PC-59_08/13/07	X	X			X		
213675	PC-60_08/13/07	X	X			X		
213675	PC-62_08/13/07	X	X			X		
213675	PC-68_08/13/07	X	X			X		
213675	PC-86_08/15/07	X	X			X		
213675	PC-90_08/15/07	X	X			X		
213675	PC-91_08/15/07	X	X			X		
213675	PC-95_08/15/07	X	X			X		
213675	PC-97_08/15/07	X	X			X		
213675	PC-98R_08/17/07	X	X			X		
213892	ART-1_08/20/07	X				X		
213892	ART-2_08/20/07	X				X		
213892	ART-3_08/20/07	X				X		
213892	ART-4_08/20/07	X				X		
213892	ART-6_08/20/07	X				X		
213892	ART-7_08/20/07	X				X		
213892	ART-8_08/20/07	X				X		
213892	ART-9_08/20/07	X				X		
213892	PC-115R_08/20/07	X				X		
213892	PC-116R_08/20/07	X				X		
213892	PC-117_08/20/07	X				X		
213892	PC-118_08/20/07	X				X		
213892	PC-119_08/20/07	X				X		
213892	PC-120_08/20/07	X				X		
213892	PC-121_08/20/07	X				X		
213892	PC-133_08/20/07	X				X		
213892	PC-99R2/R3_08/20/07	X				X		
213892	SF-1_08/20/07	X				X		
214530	ART-1_08/27/07	X				X		

Table D-4
SDGs, Sample IDs, and Analytes
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

SDG	SampleID	EPA 160_1 Total Dissolved Solids	EPA 200_7 Chromium	EPA 300_0 Chloride	EPA 300_0 Nitrate (as N)	EPA 314 Perchlorate	SW 846 6010B Chromium	SW 846 7196 Chromium-hexavalent
214530	ART-2_08/27/07	X				X		
214530	ART-3_08/27/07	X				X		
214530	ART-4_08/27/07	X				X		
214530	ART-6_08/27/07	X				X		
214530	ART-7_08/27/07	X				X		
214530	ART-8_08/27/07	X				X		
214530	ART-9_08/27/07	X				X		
214530	PC-115R_08/27/07	X				X		
214530	PC-116R_08/27/07	X				X		
214530	PC-117_08/27/07	X				X		
214530	PC-118_08/27/07	X				X		
214530	PC-119_08/27/07	X				X		
214530	PC-120_08/27/07	X				X		
214530	PC-121_08/27/07	X				X		
214530	PC-133_08/27/07	X				X		
214530	PC-99R2/R3_08/27/07	X				X		
214530	SF-1_08/27/07	X				X		
215287	ART-1_09/04/07	X				X		
215287	ART-2_09/04/07	X				X		
215287	ART-3_09/04/07	X				X		
215287	ART-4_09/04/07	X				X		
215287	ART-6_09/04/07	X				X		
215287	ART-7_09/04/07	X				X		
215287	ART-8_09/04/07	X				X		
215287	ART-9_09/04/07	X				X		
215287	PC-115R_09/04/07	X				X		
215287	PC-116R_09/04/07	X				X		
215287	PC-117_09/04/07	X				X		
215287	PC-118_09/04/07	X				X		
215287	PC-119_09/04/07	X				X		
215287	PC-120_09/04/07	X				X		
215287	PC-121_09/04/07	X				X		

Table D-4
SDGs, Sample IDs, and Analytes
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

SDG	SampleID	EPA 160_1 Total Dissolved Solids	EPA 200_7 Chromium	EPA 300_0 Chloride	EPA 300_0 Nitrate (as N)	EPA 314 Perchlorate	SW 846 6010B Chromium	SW 846 7196 Chromium-hexavalent
215287	PC-133_09/04/07	X				X		
215287	PC-99R2/R3_09/04/07	X				X		
215287	SF-1_09/04/07	X				X		
215827	ART-1_09/10/07	X				X		
215827	ART-2_09/10/07	X				X		
215827	ART-3_09/10/07	X				X		
215827	ART-4_09/10/07	X				X		
215827	ART-6_09/10/07	X				X		
215827	ART-7_09/10/07	X				X		
215827	ART-8_09/10/07	X				X		
215827	ART-9_09/10/07	X				X		
215827	PC-115R_09/10/07	X				X		
215827	PC-116R_09/10/07	X				X		
215827	PC-117_09/10/07	X				X		
215827	PC-118_09/10/07	X				X		
215827	PC-119_09/10/07	X				X		
215827	PC-120_09/10/07	X				X		
215827	PC-121_09/10/07	X				X		
215827	PC-133_09/10/07	X				X		
215827	PC-99R2/R3_09/10/07	X				X		
215827	SF-1_09/10/07	X				X		
216434	ARP-1_09/14/07	X				X		
216434	ARP-2_09/14/07	X				X		
216434	ARP-3_09/14/07	X				X		
216434	L-635_09/11/07	X				X		
216434	L-637_09/11/07	X				X		
216434	M-83_09/14/07	X				X		
216434	M-87_09/14/07	X				X		
216434	MWK-4_09/14/07	X				X		
216434	MWK-5_09/12/07	X				X		
216434	PC-101R_09/12/07	X				X		
216434	PC-103_09/12/07	X				X		

Table D-4
SDGs, Sample IDs, and Analytes
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

SDG	SampleID	EPA 160_1 Total Dissolved Solids	EPA 200_7 Chromium	EPA 300_0 Chloride	EPA 300_0 Nitrate (as N)	EPA 314 Perchlorate	SW 846 6010B Chromium	SW 846 7196 Chromium-hexavalent
216434	PC-122_09/11/07	X				X		
216434	PC-17_09/12/07	X				X		
216434	PC-18_09/12/07	X				X		
216434	PC-55_09/11/07	X				X		
216434	PC-56_09/10/07	X				X		
216434	PC-59_09/10/07	X				X		
216434	PC-60_09/10/07	X				X		
216434	PC-62_09/10/07	X				X		
216434	PC-68_09/10/07	X				X		
216434	PC-98R_09/12/07	X				X		
216598	ART-1_09/17/07	X				X		
216598	ART-2_09/17/07	X				X		
216598	ART-3_09/17/07	X				X		
216598	ART-4_09/17/07	X				X		
216598	ART-6_09/17/07	X				X		
216598	ART-7_09/17/07	X				X		
216598	ART-8_09/17/07	X				X		
216598	ART-9_09/17/07	X				X		
216598	PC-115R_09/17/07	X				X		
216598	PC-116R_09/17/07	X				X		
216598	PC-117_09/17/07	X				X		
216598	PC-118_09/17/07	X				X		
216598	PC-119_09/17/07	X				X		
216598	PC-120_09/17/07	X				X		
216598	PC-121_09/17/07	X				X		
216598	PC-133_09/17/07	X				X		
216598	PC-99R2/R3_09/17/07	X				X		
216598	SF-1_09/17/07	X				X		
216930	ARP-7_09/19/07	X				X		
216930	PC-53_09/19/07	X				X		
216930	PC-86_09/19/07	X				X		
216930	PC-90_09/19/07	X				X		

Table D-4
SDGs, Sample IDs, and Analytes
Quarterly Performance Report for Remediation Systems
Henderson, Nevada
July - September 2007

SDG	SampleID	EPA 160_1 Total Dissolved Solids	EPA 200_7 Chromium	EPA 300_0 Chloride	EPA 300_0 Nitrate (as N)	EPA 314 Perchlorate	SW 846 6010B Chromium	SW 846 7196 Chromium-hexavalent
216930	PC-91_09/19/07	X				X		
216930	PC-95_09/19/07	X				X		
216930	PC-97_09/19/07	X				X		
217344	ART-1_09/24/07	X				X		
217344	ART-2_09/24/07	X				X		
217344	ART-3_09/24/07	X				X		
217344	ART-4_09/24/07	X				X		
217344	ART-6_09/24/07	X				X		
217344	ART-8_09/24/07	X				X		
217344	ART-9_09/24/07	X				X		
217344	PC-115R_09/24/07	X				X		
217344	PC-116R_09/24/07	X				X		
217344	PC-117_09/24/07	X				X		
217344	PC-118_09/24/07	X				X		
217344	PC-119_09/24/07	X				X		
217344	PC-120_09/24/07	X				X		
217344	PC-121_09/24/07	X				X		
217344	PC-133_09/24/07	X				X		
217344	PC-99R2/R3_09/24/07	X				X		
217344	SF-1_09/24/07	X				X		

Note: SDGs subjected to full data validation are indicated in **bold**. All other SDGs underwent limited data validation.

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Memorandum

Date: October 30, 2007
To: Sally Bilodeau/Camarillo
From: Sheena Blair/Westford
Subject: Data Review
Routine Monitoring Program
Quarterly Performance Report for Remediation Systems
Tronox LLC Henderson, Nevada

Distribution: Robert Kennedy/Westford 04020-023-110
3rdQtr.2007Full

SUMMARY

A Tier 2 validation was performed on the data for raw groundwater samples, raw surface water samples, an equipment blank, and a field blank analyzed for all or a subset of the following parameters:

- Perchlorate by EPA Method 314
- Hexavalent chromium by SW-846 Method 7196
- Total chromium by SW846 6010B
- Total dissolved solids by EPA Method 160.1

The samples were collected at the Tronox LLC site in Henderson, Nevada from August 1 through 6, 2007 and submitted to MWH Laboratories in Monrovia, California for analysis. The MWH project numbers, sample collection dates, and analyses included in this review are summarized in Attachment A at the end of this memo. The data reports provided by MWH did not support a validation at the Tier 2 level as requested by NDEP. MWH was contacted and the information required to perform a Tier 2 validation was requested. All provided quality control (QC) elements submitted by MWH were reviewed and results of that are summarized below.

The sample results were assessed according to the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (October 2004), the Region 9 Superfund Data Evaluation/Validation Guidance, NDEP guidance (May 2006), and by the laboratory QC criteria. The validation guidelines were modified to accommodate the non-CLP methodologies.

The data reviewed required minor qualification for selected samples and appear generally acceptable for decision making. No major problems were identified and no data were rejected.

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REVIEW ELEMENTS

Sample data were reviewed for the following elements:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Holding times and sample preservation
- Initial and continuing calibrations
- Interference check sample (ICS) results (total chromium only)
- Laboratory blanks/equipment blanks/field blanks
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory duplicate results
- Field duplicate results
- ICP serial dilution results (total chromium only)
- Sample results/detection limits

DISCUSSION**Agreement of Analyses Conducted with COC Requests**

Sample reports were checked to verify that the results reported corresponded to analytical requests as detailed on the COC documentation. The following discrepancies were noted:

- It should be noted that sample results for chlorate and perchlorate in several data packages had analysis times on the “Laboratory Data Report” which did not match the analysis time as recorded on the instrument raw data. The laboratory was contacted about this issue and provided the following information: “Analysis time for tests with holding times greater than 72 hours is typically shown on reports either as 00:00 or defaults to the time of the first injection on a batch of samples and does not reflect the specific analysis time for the individual sample”. No validation action was taken other than this notation.

Holding Times and Sample Preservation

Method-specified holding times were met for all samples analyzed except for the following:

- **Report number 212263:** The hexavalent chromium analyses for samples M-84, M-100, M-36, M-11, and M-10 were performed four hours beyond the method specified 24-hour holding time criterion. Detected and nondetect results for these samples were qualified as estimated (J and UJ, respectively).
- **Report number 21247R:** The hexavalent chromium analyses for samples M-12A, EB-2, and MD-2 were performed two hours beyond the method specified 24-hour holding time criterion. Detected and nondetect results for these samples were qualified as estimated (J and UJ, respectively).

The cooler temperatures upon receipt at the laboratory met the acceptable range of 4± 2°C.

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Documentation regarding sample pH verification upon receipt at the laboratory for total chromium and hexavalent chromium was not included in the data package. No action was taken except for this notation.

Initial and Continuing Calibrations

All criteria were met for the calibration curves and the initial and continuing calibration verification (ICV/CCV) standards (where applicable).

ICS Results

All criteria were met for the analyses of the ICS A and ICS AB solutions.

Laboratory Blanks/Equipment Blanks/Field Blanks

Field blank FB-1 (collected July 30, 2007) and equipment blank EB-2 (collected August 1, 2007) were associated with selected samples reported under this data set. Field blank FB-1 (reported under SDG 211929R2) was the source water for equipment blank EB-2.

In instances where laboratory blanks, i.e., method blanks (MBs) and the initial and continuing calibration blanks (ICBs and CCBs), equipment blanks, and field blanks are associated with a given sample, laboratory blanks and field blanks were evaluated in the following order:

- Laboratory blank actions were applied to equipment blank and field blank samples as well as associated field samples.
- Field blank actions were applied to the associated equipment blanks.
- Equipment blank actions were applied to the associated field samples.

Target analytes were not detected in the laboratory blanks or field blank FB-1. No validation actions were required on this basis.

The following analytes were detected in equipment blank sample EB-2. The following table summarizes the concentration detected and the associated samples.

Equipment Blank	Analyte	Conc. Detected
EB-2	Perchlorate	28 µg/L
	Total Dissolved Solids	26 mg/L
Associated samples: M-92, M-97, M31A, M-50, M-34, M-35, M-19, M-39, M-68, M-61, I-K, I-J, I-Z, M-67, I-I, I-V, M-12A, MD-2		

The perchlorate and total dissolved solids results for the associated samples were significantly greater than the reporting limits and the concentrations detected in equipment blank EB-2. It was considered that the low levels of blank contamination present would have no impact on the results of perchlorate and total dissolved solids for the associated samples. No validation action was taken on this basis.

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LCS/LCSD Results

The percent recoveries (%Rs) and relative percent differences (RPDs) of the LCSs/LCSDs for perchlorate, total dissolved solids, total chromium, and hexavalent chromium met the laboratory acceptance criteria.

MS/MSD Results

The %Rs and RPDs of the MS/MSDs performed on all client specific samples met the laboratory acceptance criteria.

In most cases the batch MS/MSD analyses were performed on samples from other clients, and although this practice is acceptable, the results could not be directly applied to the samples reviewed in these data packages due to possible differences in the sample matrix and type. No validation action was taken on this basis.

Laboratory Duplicate Results

The RPDs of the laboratory duplicates for the total dissolved solids analyses performed on client specific samples met the laboratory acceptance criteria.

In most cases batch laboratory duplicate analyses were performed on samples from other clients, and although this practice is acceptable, the results could not be directly applied to the samples reviewed in these data packages due to possible differences in the sample matrix and type. No validation action was taken on this basis.

No laboratory duplicates were analyzed for perchlorate, total chromium, and hexavalent chromium. Precision in the laboratory was demonstrated by the MS/MSD and/or the LCS/LCSD analyses (see discussions above).

Field Duplicate Results

The following field duplicate pair was submitted with selected samples in this data set. The following table summarizes the sample IDs, the detected results and the associated RPDs.

Analyte	Sample IDs/Collection Date	Sample	Duplicate	RPD
Perchlorate (µg/L)	M-12A/MD-2 (8/01/07)	320000	315000	2
Total Chromium (mg/L)		13	12	8
Total Dissolved Solids (mg/L)		7890	8080	2

The RPDs met the QC acceptance criteria of 30% maximum RPD for an aqueous matrix.

ICP Serial Dilution Results

In most cases batch serial dilution analyses were performed on samples from other clients, and although this practice is acceptable, the results could not be directly applied to the samples reviewed in these data packages due to possible differences in the sample matrix and type. No validation action was taken on this basis.

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Sample Results/Detection Limits

Calculations were spot-checked. There were no discrepancies noted.

Analytical dilutions were necessary for most samples due to matrix interferences or to bring analyte concentrations within the instrument calibration range.

Attachment A

MWH Report #	Sample Collection Date	Analyses
212147R	8/1/07	Perchlorate, Total Chromium, Total Dissolved Solids, Hexavalent Chromium
212263	8/2/07	Perchlorate, Total Chromium, Total Dissolved Solids, Hexavalent Chromium
212470	8/6/07	Perchlorate, Total Dissolved Solids

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Memorandum

Date: October 30, 2007
To: Sally Bilodeau/Camarillo
From: Sharon McKechnie/Westford
Subject: Data Review
Routine Monitoring Program
Quarterly Performance Report for Remediation Systems
Tronox LLC Henderson, Nevada

Distribution: Robert Kennedy/Westford

04020-023-110
TH361-383sm

SUMMARY

A limited review was performed on the data for raw groundwater samples, raw surface water samples, one equipment blank, and one field blank analyzed for all or a subset of the following parameters:

- Perchlorate by EPA Method 314
- Hexavalent chromium by SW-846 Method 7196
- Total chromium by SW846 6010B or EPA Method 200.7
- Total dissolved solids by EPA Method 160.1/Standard Methods (SM) 2540C
- Nitrate as nitrogen by EPA Method 300.0
- Chloride by EPA Method 300.0

The samples were collected at the Tronox LLC site in Henderson, Nevada from June 25 through September 24, 2007 and submitted to MWH Laboratories in Monrovia, California for analysis. The MWH project numbers, sample collection dates and analyses included in this review are summarized in Attachment A at the end of this memo. The data reports provided by MWH did not support a validation at the Tier 2 level as requested by NDEP. All provided QC elements submitted by MWH were reviewed and results of that are summarized below.

The sample results were assessed according to the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" (October 2004), the Region 9 Superfund Data Evaluation/Validation Guidance, NDEP guidance (May 2006), and by the laboratory quality control (QC) criteria. The validation guidelines were modified to accommodate the non-CLP methodologies.

The data reviewed required minor qualification for selected samples and appear generally acceptable for decision making. No major problems were identified and no data were rejected.

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REVIEW ELEMENTS

The elements selected for review are based on the documentation provided in the laboratory data reports. Sample data were reviewed for the following elements:

- Agreement of analyses conducted with chain-of-custody (COC) requests
- Holding times and sample preservation
- Method blanks/equipment blanks/field blanks
- Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) results
- Matrix spike/matrix spike duplicate (MS/MSD) results
- Laboratory duplicate results
- Field duplicate results
- Sample results/detection limits

DISCUSSION**Agreement of Analyses Conducted with COC Requests**

Sample reports were checked to verify that the results reported corresponded to analytical requests as detailed on the COC documentation. The following discrepancies were noted:

- **Report number 212022:** Sample H-28A was listed on the COC without a time of collection. The field sampling team was contacted and Brian Ho of ENSR responded via e-mail on October 29, 2007 with a collection time of 1145. No validation action was taken other than this notation.
- **Report number 213675:** Samples MW-K4 and MW-K5 were incorrectly formatted on the laboratory data report form as MWK-4 and MWK-5 respectively. Format corrections were made on the data reports. No validation action was taken other than this notation.
- **Report number 213156:** The total chromium result of 0.3 ppm for sample ART-1 was questioned by Ed Krish of ENSR. Per his request as noted in an e-mail dated October 4, 2007, the sample was re-prepared and re-analyzed to confirm the result. Following the re-analysis, the revised result of 0.2 ppm was recorded. The report was revised and resubmitted with this new result. No validation action was taken other than this notation.
- **Report number 208480:** Sample SF-1 was listed on the COC but a sample at this location was not received at the laboratory and no notation was made on the COC. Roy B. Capati of MWH confirmed that this sample was resubmitted in SDG 208786. No validation action was taken other than this notation.
- **Report number 208786:** Sample SF-1 was listed on the COC with a notation indicating that this sample was being resubmitted. No other explanation was provided. Roy B. Capati of MWH confirmed that this sample was to replace the one missing from SDG 208480. No validation action was taken other than this notation.

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- **Report number 216434:** Samples PC-86, PC-90, PC-91, PC-95, PC-9, ARP-7, and PC-53 were listed on the preprinted COC but samples at these locations were not received at the laboratory and no notation was made on the COC. Roy B. Capati of MWH confirmed that these samples were resubmitted in SDG 216930. No validation action was taken other than this notation.
- **Report number 216930:** Samples PC-86, PC-90, PC-91, PC-95, PC-9, ARP-7, and PC-53 were listed on the COC with a notation indicating that these samples were being resubmitted. No other explanation was provided. Roy B. Capati of MWH confirmed that these samples were to replace those missing from SDG 216434. No validation action was taken other than this notation.
- **Report number 212236:** The matrix and type of sample was not indicated on the COC for sample M-10. No validation action was taken other than this notation.

Holding Times and Sample Preservation

Method-specified holding times were met for all samples analyzed except for the following:

- **Report number 211929R2:** The hexavalent chromium analyses for samples M-94, M-44, MD-1, and FB-1 were performed six hours outside of the method specified 24-hour holding time criterion. Detected and nondetect results for these samples were qualified as estimated (J and UJ, respectively). The total dissolved solids analysis for sample PC-126 was performed fifteen days beyond the method specified 7-day holding time criterion. The positive result for this sample was qualified as estimated, biased low (J-).
- **Report number 211999:** The hexavalent chromium analyses for samples M-37 and EB-1 were performed one hour outside of the method specified 24-hour holding time criterion. The nondetect results for these samples were qualified as estimated (UJ). The total dissolved solids analysis for sample M-37 was performed two days beyond the method specified 7-day holding time criterion. The positive result for this sample was qualified as estimated, biased low (J-).
- **Report number 212281:** The total dissolved solids analysis for samples M-89 and M-17A were performed four days beyond the method specified 7-day holding time criterion. The positive results for these samples were qualified as estimated, biased low (J-).
- **Report number 208480:** The total dissolved solids analysis for sample PC-99R2/R3 was performed four days beyond the method specified 7-day holding time criterion. The initial analysis was performed within the method specified holding time; however, the sample was reanalyzed due to not matching historical data. The positive result for this sample was qualified as estimated, biased low (J-).

The cooler temperatures upon receipt at the laboratory met the acceptable range of $4 \pm 2^{\circ}\text{C}$.

Documentation regarding sample pH verification upon receipt at the laboratory for total chromium and hexavalent chromium was not included in the data package. No action was taken except for this notation.

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Method Blanks/Equipment Blanks/Field Blanks

Field blank FB-1 (collected July 30, 2007) and equipment blank EB-1 (collected July 31, 2007), were reviewed in association with the samples in this data set.

In instances where laboratory method blanks and field blanks are associated with a given sample, laboratory method blanks and field blanks were evaluated in the following order:

- Laboratory method blank actions were applied to equipment blank and field blank samples as well as associated field samples.
- Field blank actions were applied to the associated equipment blanks.
- Actions for contamination remaining in the equipment blanks were applied to the associated field samples.

Target analytes were not detected in the method blanks associated with the samples in this data set. Therefore, no data validation actions were required on this basis.

No target analytes were detected in the field blanks associated with the equipment blanks in this data set. Therefore, no data validation actions were required on this basis.

The following analytes were detected in the equipment blank samples. The following table summarizes the concentration detected and the associated samples.

Equipment Blank	Analyte	Conc. Detected
EB-1	Perchlorate	1720 ug/L
Associated samples: M-64, M-65, M-66, M-57A, M-79, M-69, M-99, M-98, M-25, M-37, MD-4		

Sample results were qualified as follows:

For blank results > the method reporting limit (MRL):

- Positive sample results > method detection limit (MDL) but < MRL were qualified as nondetect (U) at the MRL.
- Positive sample results > MRL but < 10x the blank result were qualified as estimated high (J+).
- Positive sample results that were > 10x the blank result were accepted unqualified.
-

For blank results \geq MDL but \leq MRL:

- Nondetects were accepted unqualified.
- Positive sample results > MDL but < MRL were qualified as nondetect (U) at the MRL.
- Positive sample results > MRL and < the Action Level (AL) (determined by professional judgment) of 5x the blank contamination level were qualified as undetected (U) at the reported concentration.

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No samples were qualified for EB contamination.

LCS/LCSD Results

The percent recoveries (%Rs) and relative percent differences (RPDs) of the LCS/LCSD analyses for chloride, perchlorate, total dissolved solids, nitrate, total chromium, and hexavalent chromium met the laboratory acceptance criteria.

MS/MSD Results

The %Rs and RPDs of the MS/MSDs performed on client specific samples met the laboratory acceptance criteria the following exception:

MS/MSD analysis for total chromium was performed on sample M-71 in SDG 212281. The MS/MSD results were not useable for determination of accuracy since the spiked amount was lower than the original sample concentration. Associated samples were: M-85, M-83, M-70, M-71, M-72, M-22A, M-38, M-89, M-17A, M-115, and M-14A. No action was taken except for this notation.

In most cases the batch MS/MSD analyses were performed on samples from other clients, and although this practice is acceptable, the results could not be directly applied to the samples reviewed in these data packages due to possible differences in the sample matrix and type. No validation action was taken on this basis.

Laboratory Duplicate Results

The RPDs of the laboratory duplicates for the total dissolved solids analyses performed on client specific samples met the laboratory acceptance criteria with the following exception:

- **Report number 213675:** The RPD for total dissolved solids in the laboratory duplicate analysis performed on sample PC-18 did not meet QC acceptance criteria for laboratory duplicate precision. The positive results for total dissolved solids in samples MW-K4, ARP-1, ARP-2, ARP-3, and PC-18 were qualified as estimated (J).

In most cases batch laboratory duplicate analyses were performed on samples from other clients, and although this practice is acceptable, the results could not be directly applied to the samples reviewed in these data packages due to possible differences in the sample matrix and type. No validation action was taken on this basis.

No laboratory duplicates were analyzed for perchlorate, total chromium, and hexavalent chromium. Precision in the laboratory was demonstrated by the MS/MSD and/or the LCS/LCSD analyses (see discussions above).

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Field Duplicate Results

The following field duplicates pairs were submitted with the samples in this data set. The following table summarizes the sample IDs, the detected results and the associated RPDs.

Analyte	Sample IDs/Collection Date	Sample	Duplicate	RPD
Perchlorate (ug/L)	M-94/MD-1 (7/30/2007)	625000	687000	9.5
Total Dissolved Solids (mg/L)		8280	8120	2
Hexavalent Chromium (mg/L)		0.74	0.76	2.7
Perchlorate (ug/L)	PC-73/MD-3 (7/30/2007)	398000	416000	4.4
Total Chromium (mg/L)		0.40	0.41	2.5
Total Dissolved Solids (mg/L)		7500	7680	2.4
Perchlorate (ug/L)	M-69/MD-4 (7/31/2007)	464000	423000	9.2
Total Chromium (mg/L)		0.071	0.073	2.8
Total Dissolved Solids (mg/L)		4050	4490	10.3

The RPDs met the QC acceptance criteria of 30% maximum RPD for an aqueous matrix.

Sample Results/Detection Limits

Analytical dilutions were necessary for most samples due to matrix interferences or to bring the perchlorate and total chromium concentrations within the instrument calibration range.

Attachment A

MWH Report #	Sample Collection Date	Analyses
208480	6/25/07	Perchlorate, Total Dissolved Solids
208786	6/27/07	Perchlorate, Total Dissolved Solids
209108	7/2/07	Perchlorate, Total Dissolved Solids
209827	7/10/07	Perchlorate, Total Dissolved Solids
210342	7/11/07 - 7/13/07	Perchlorate, Total Dissolved Solids
210606	7/16/07	Perchlorate, Total Dissolved Solids
211354	7/23/07	Perchlorate, Total Dissolved Solids
211878	7/30/07	Perchlorate, Total Dissolved Solids
211999	7/31/07	Perchlorate, Total Chromium, Total Dissolved Solids
212022	7/31/07	Perchlorate, Total Chromium, Total Dissolved Solids

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Attachment A

MWH Report #	Sample Collection Date	Analyses
212236	8/2/07	Total Chromium, Total Dissolved Solids, Chloride, Nitrate as Nitrogen
212281	8/3/07	Perchlorate, Total Chromium, Total Dissolved Solids
213156	8/13/07	Perchlorate, Total Chromium, Total Dissolved Solids
213675	8/13/07 - 8/17/07	Perchlorate, Total Chromium, Total Dissolved Solids
213892	8/20/07	Perchlorate, Total Dissolved Solids
214530	8/27/07	Perchlorate, Total Dissolved Solids
215287	9/4/07	Perchlorate, Total Dissolved Solids
215827	9/10/07	Perchlorate, Total Dissolved Solids
216434	9/10/07-9/12/07 and 9/14/07	Perchlorate, Total Dissolved Solids
216598	9/17/07	Perchlorate, Total Dissolved Solids
216930	9/19/07	Perchlorate, Total Dissolved Solids
217344	9/24/07	Perchlorate, Total Dissolved Solids
211929R2	7/30/07	Perchlorate, Total Chromium, Total Dissolved Solids, Hexavalent Chromium
212133R	7/31/07	Perchlorate, Total Chromium Total Dissolved Solids