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BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

January 10, 2010

Project No. 04-01-101-001

Mr. Brian Rakvica. P.E.
Supervisor IV
Special Projects Branch
Nevada Division of Environmental Protection
2030 East Flamingo Road, Suite 230
Las Vegas, Nevada 89119-0818

Re: Titanium Metals Corporation
Henderson, Nevada Facility
NDEP Facility ID # 000537
Semiannual Groundwater Monitoring Report – 2nd Semester, 2009

Dear Mr. Rakvica:

Please find attached a copy of the Semiannual Groundwater Monitoring Report for the 2nd Semester of 2009 for data associated with the Titanium Metals Corporation (TIMET) facility. The attached report has been authored by Ms. Candace Friday of CdFriday & Associates, Ms. Victoria Tyson-Bloyd of Tyson Contracting, Ms. Kathryn Allford of T2 Environmental, and Mr. Jay Snyder of Golder Associates. This document has been reviewed and approved by me.

If you have any questions regarding this submittal, please do not hesitate to contact me at (702) 563-0600.

Sincerely,
BROADBENT & ASSOCIATES, INC.

Kirk J. Stowers, EM-1549 (exp. 10/11/10)
Associate Geologist

JURAT: I, Kirk J. Stowers, 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.

LAB JURAT: *I, Kirk J. Stowers, hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.*

cc: Craig Wilkinson – TIMET
Victoria Tyson-Bloyd – Tyson Contracting
Paul Hackenberry – Hackenberry Associates, on disk
Brian Giroux – McGinley and Associates, on disk
Jim Najima – NDEP, Carson City, on disk
Al Tinney – NDEP, Carson City, on disk
Brenda Pohlmann – City of Henderson, referred to TIMET website
Rick Kellogg – BRC, referred to TIMET website
Ranajit Sahu – BRC, referred to TIMET website
Susan Crowley –TRONOX, referred to TIMET website
Mike Bellotti – Olin Corporation, referred to TIMET website
Curt Richards – Olin Corporation, referred to TIMET website
Joe Kelly – Montrose Chemical Corporation of California, referred to TIMET website
George Crouse – Syngenta Crop Protection, referred to TIMET website
Paul Sundberg – Montrose Chemical Corporation, referred to TIMET website
Lee Erickson – Stauffer Chemical, referred to TIMET website
Jay Snyder – EA Engineering, Science, and Technology, Inc., referred to TIMET website
Kathy Allford – T2 Environmental, referred to TIMET website
Candace Friday – CdFriday & Associates, referred to TIMET website

Semiannual Groundwater Monitoring Report

2nd Semester 2009

Titanium Metals Corporation Facility

Henderson, Nevada

Submitted to

Nevada Division of Environmental Protection
2030 E. Flamingo Road, Suite 230
Las Vegas, Nevada 89119-0837

Prepared for

Titanium Metals Corporation Facility
181 North Water Street
Henderson, Nevada 89015

January 8, 2010

SIGNATURE PAGE

SEMIANNUAL GROUNDWATER MONITORING REPORT
2nd Semester 2009
Titanium Metals Corporation Facility
Henderson, Nevada

Approvals: Date

_____ 1/8/2010

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Project Manager, EM 2200 (exp 9/2011)

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ABBREVIATIONS AND ACRONYMS

µg/L	Microgram per liter
BMI	Black Mountain Industrial
Broadbent	Broadbent & Associates, Inc.
BRC	Basic Remediation Company
CAB	Cation-anion balance
DVSR	Data validation summary report
EC	Electrical conductivity
ECA	Environmental conditions assessment
ECI	Environmental conditions investigation
ECIA	Environmental conditions investigation addendum
LOU	Letter of understanding
MCL	Maximum contaminant level
MDC	Minimum detectable concentration
mg/L	Milligram per liter
MSSL	Medium-specific screening level
NDEP	State of Nevada, Division of Environmental Protection
Paragon	ALS-Paragon
pCi/L	PicoCurie per liter
Plant Site	TIMET Plant Site Area
QC	Quality control
SAP	Sampling & Analysis Plan
SL	Screening level
SQL	Sample quantitation limit
Tetra Tech	Tetra Tech EM Inc.
TIMET	Titanium Metals Corporation
TOC	Top of casing
TDS	Total Dissolved Solids
VOC	Volatile organic compound

1.0 INTRODUCTION

This Semiannual Groundwater Monitoring Report (hereafter referred to as the "Semiannual Report") was prepared on behalf of the Titanium Metals Corporation (TIMET) facility located in Henderson, Nevada (see Figure 1-1). The Semiannual Report is being submitted to the State of Nevada, Division of Environmental Protection (NDEP), pursuant to the report requirements of the Groundwater Monitoring Program Sampling and Analysis Plan, dated October 29, 2007 (TIMET 2007b). The program consists of three main data collection sequences as follows:

- On-going quarterly groundwater data collection for groundwater protection and landfill permit wells (CLD1-R, CLD3-R, CLD4-R, J2U2, J2D4, and MW-6R) only
- Semiannual groundwater data collection for the TIMET Plant Site Area (Plant Site), as shown on Figure 1-2
- Special groundwater data collection for select wells located down-gradient of the site and wells near the former southern site boundary along Lake Mead Parkway (TMMW-101 through TMMW-104) detailed in the SAP (TIMET 2007b)

Data obtained from the quarterly groundwater protection and landfill permit wells are presented in TIMET's quarterly Discharge Monitoring Report to the NDEP and will not be specifically addressed here. However the analytical results obtained from these events have been added to the TIMET analytical database and will be validated and presented in the 2009 annual groundwater data validation summary report (DVSR).

This Semiannual Report summarizes groundwater data collected during the 2nd semester of 2009 at the TIMET facility in Henderson, Nevada (see Figure 1-1). The 2nd semester 2009 sampling event was conducted from July 7 through August 11, 2009. During this sampling event, groundwater data were collected from the Plant Site wells only.

The primary purpose of this report is to summarize water levels and analytical results for groundwater samples collected from the Plant Site wells. Water levels and analytical results are summarized, mapped, tabulated, and graphed (trend charts).

Previous analytical results for groundwater samples collected from the TIMET facility are presented in the following reports:

- "Final Environmental Conditions Investigation Report" (Tetra Tech 1998a)
- "Environmental Conditions Investigation Addendum, Draft Report" (Tetra Tech 1999)

- "Quarterly Groundwater Monitoring Report – Semiannual Format, March 2000 to December 2003" (Tetra Tech 2004a)
- Quarterly and semiannual reports submitted on a quarterly or semiannual basis from 1st Quarter 2004 through 1st Semester 2009 (Tetra Tech 2004b, 2004d, 2004e, 2005b, 2005c, 2005d, 2005e, 2006a, 2006b, 2006c, 2006d, 2007a, 2007b, 2007c, TIMET 2008a, 2008b, 2009)
- "Revised Environmental Conditions Investigation Addendum Report" (Tetra Tech 2005a)

This Semiannual Report adds to the data presented in the previous reports listed above. Section 1.1 summarizes the project history, Section 1.2 describes the purpose and scope of the groundwater monitoring program, and Section 1.3 summarizes the report organization.

1.1 PROJECT HISTORY

In 1991, NDEP entered into a Consent Agreement with six of the companies, including TIMET, which had facilities at the BMI Complex. Three phases of corrective action were identified in the Consent Agreement:

- Phase I – Develop environmental conditions assessment (ECA) reports for each "Individual Company Site" and "BMI Common Areas"
- Phase II – Perform an environmental conditions investigation (ECI) to fill data gaps identified during Phase I, if determined necessary by NDEP
- Phase III – Identify and implement appropriate remedial measures to address conditions identified during Phases I and II, if determined necessary by NDEP

TIMET's Phase I ECA is presented in the "Phase I Environmental Conditions Assessment Report, Titanium Metals Corporation, Henderson, Nevada" published by Law Engineering (1993).

Based on the information in the Phase I ECA report and subsequent discussions with TIMET, NDEP issued a letter of understanding (LOU) dated August 16, 1994, that identified 54 study items requiring additional information or further investigation (NDEP 1994). On June 7, 1996, TIMET submitted a letter to NDEP that provided complete responses to some action items in the LOU and that identified other action items requiring additional investigation (Hydro-Search 1996). In June 1996, NDEP entered into a Consent Agreement with TIMET to perform an ECI, remedial alternative studies, interim remedial measures, or additional work.

The action items identified in the LOU response were addressed during the Phase II ECI in accordance with the June 1996 Consent Agreement. Results of the Phase II ECI are discussed in the final ECI report

(Tetra Tech 1998a) and the revised ECI addendum (ECIA) report (Tetra Tech 2005a). On December 1, 2003, NDEP sent a letter to TIMET providing NDEP's comments on the ECIA report (NDEP 2003a). On December 11, 2003, NDEP sent a letter to TIMET providing recommendations for accelerated work to abate, mitigate, and eliminate environmental contaminants at the TIMET facility (NDEP 2003b). This Semiannual Report is submitted in partial fulfillment of TIMET's response to NDEP's recommendation for accelerated groundwater work (TIMET 2004) and according to TIMET's current Generic SAP and the latest groundwater monitoring SAP (TIMET 2007a and 2007b).

1.2 PURPOSE AND SCOPE

This semiannual groundwater monitoring was conducted as part of the expanded groundwater investigation under the Phase II ECI, as described in Appendix A of the ECIA report (Tetra Tech 1999) and according to the groundwater monitoring SAP (TIMET 2007b). The purpose of the groundwater investigation is to (1) characterize the distribution of inorganic, organic, and radionuclide analytes in groundwater; (2) characterize the hydraulic properties of the aquifer; and (3) evaluate relationships between groundwater chemistry, hydrogeology, and potential sources. The following activities were performed during this groundwater monitoring event.

- Gauged depth to groundwater in wells relative to the top of casing (TOC) of the wells.
- Collected groundwater samples for field and chemical analyses using micro-purge sampling technology.
- Evaluated basic groundwater hydrology and water quality data.
- Analyzed groundwater data for trends, and compared data with maximum contaminant levels (MCL) (U.S. Environmental Protection Agency 2003) or other appropriate screening levels. MCLs and other screening levels are used herein for preliminary screening only and do not imply a comprehensive evaluation of health effects.

During this semiannual event, data collection was conducted at Plant Site wells shown on Figure 1-2. Well locations J2U1 and CLD2-R did not produce sufficient water to collect samples for chemical analysis during this event, and insufficient volume was collected for J2D3-R (resulting in a reduced suite of analysis for radionuclides). Samples were also collected in the four wells located along Lake Mead Parkway (TMMW-101 through TMMW-104). In addition, water levels were gauged at eight piezometer locations (TMPZ-105 through 112) along the northern Plant Site boundary.

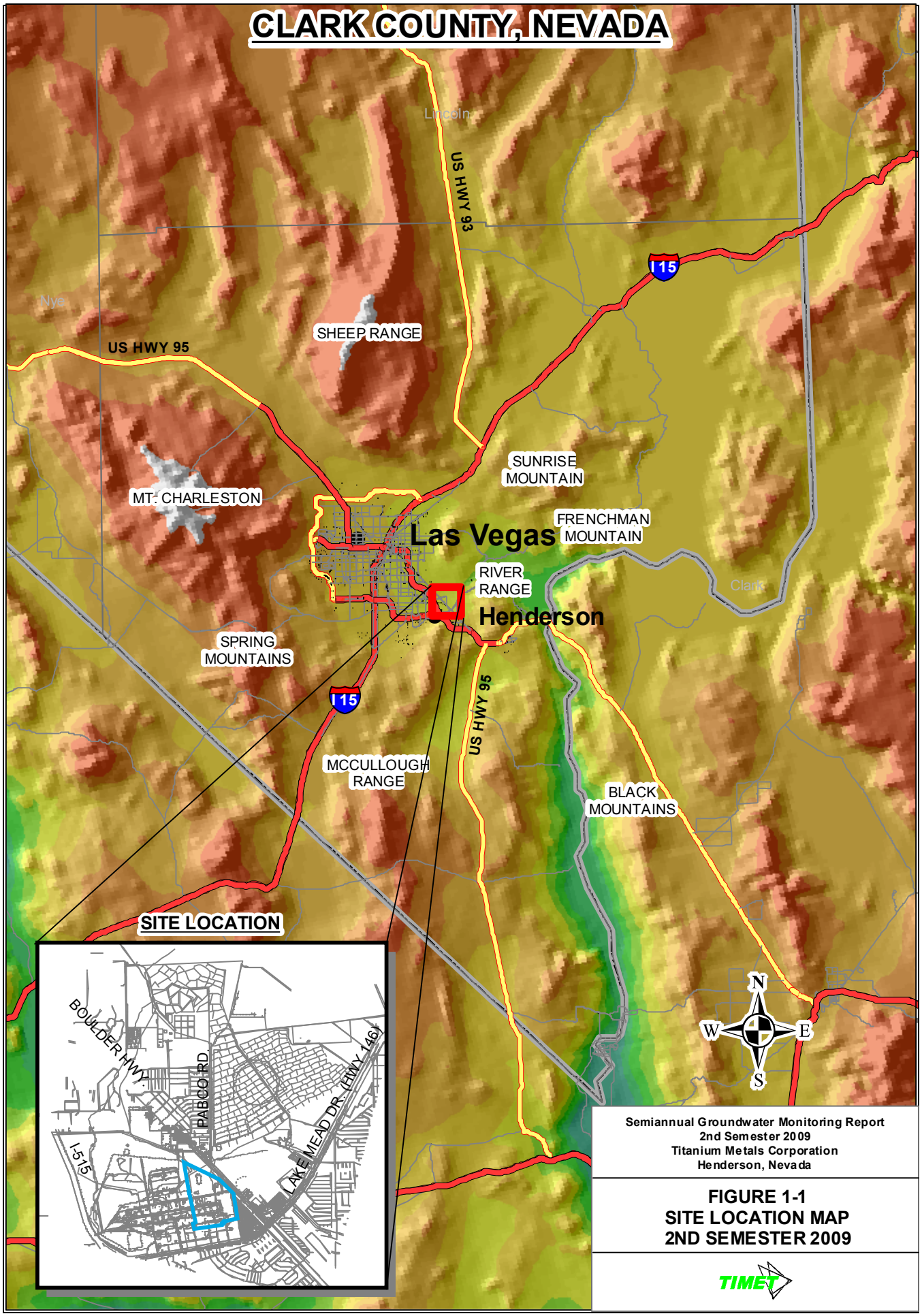
1.3 REPORT ORGANIZATION

The remainder of this report is organized into the following three sections:

- Section 2.0, Groundwater Monitoring Program – Describes each component of the groundwater monitoring program, including field analytical methods used.
- Section 3.0, Groundwater Monitoring Data – Summarizes groundwater conditions and results of groundwater monitoring for the Plant Site.
- Section 4.0, References – Lists the references cited in this report.

Figures and tables follow their respective sections. Appendix A of this report contains electronic data in a Microsoft® Access format for groundwater sample results imported from laboratory electronic data deliverables; this appendix is presented on compact disc only and includes all data collected during this event. Appendix B contains hydrographs of the Plant Site wells, Lake Mead Parkway wells, and piezometers. Appendix C contains concentration trend graphs for selected analytes for the Plant Site wells only. Appendix D contains isoconcentration maps for selected analytes for the Plant Site and Lake Mead Parkway wells.

FIGURES

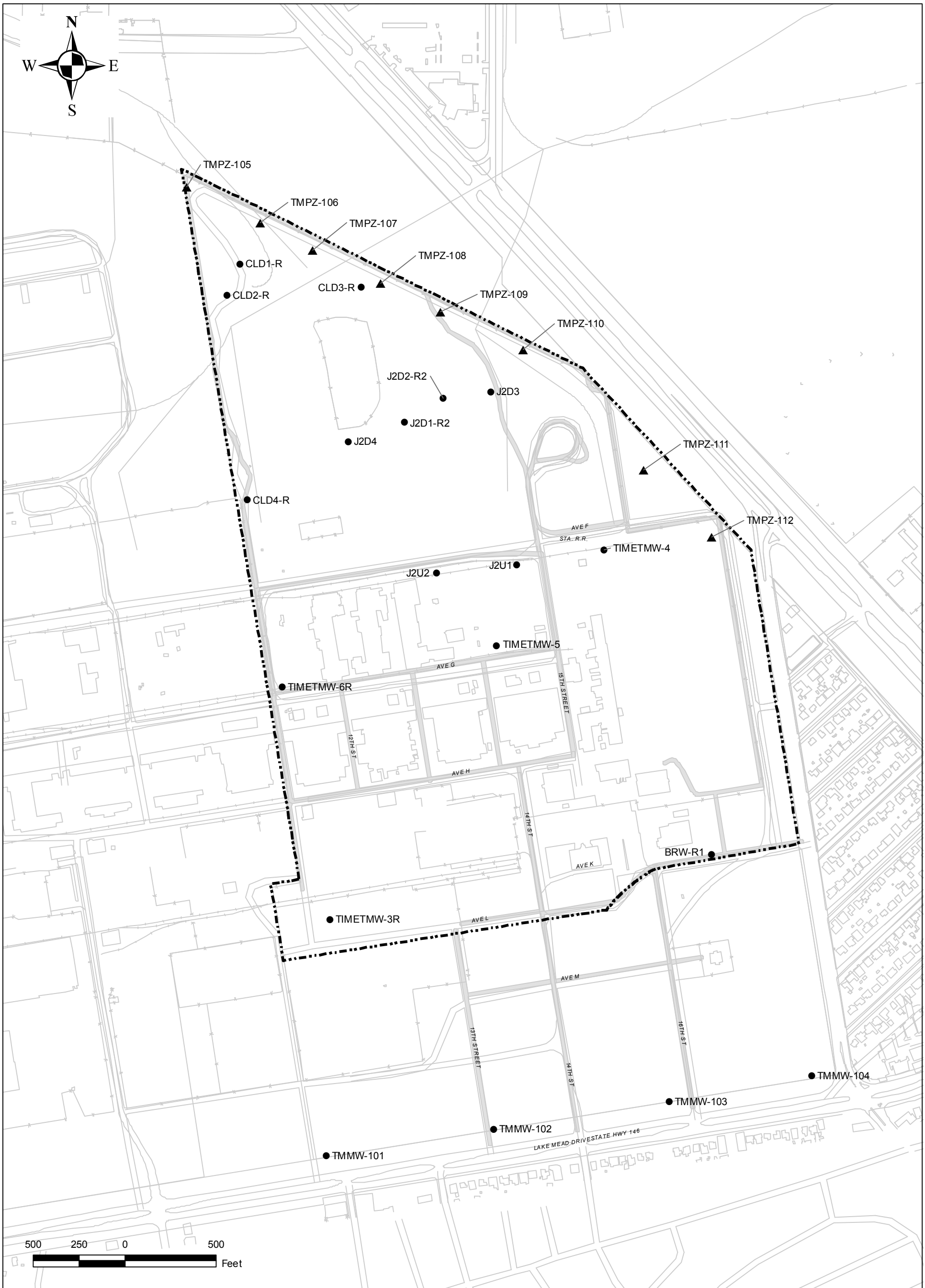


Semiannual Groundwater Monitoring Report
2nd Semester 2009
Titanium Metals Corporation
Henderson, Nevada

FIGURE 1-1
SITE LOCATION MAP
2ND SEMESTER 2009

TIMET

2009-4-27 C:\TIMET\3RDQTR2008\mxd\location_map.mxd michelle.handley



BRW-R1 ● MONITORING WELL LOCATION

TMPZ-105 ▲ PIEZOMETER

Semiannual Groundwater Monitoring Report
2nd Semester 2009
Titanium Metals Corporation
Henderson, Nevada

FIGURE 1-2
MONITORING WELL LOCATION MAP

TIMET

2009-4-27 C:\TIMET\1st\SEM2009\mxd\TIMET_siteMW_S12008.mxd michele.handley

2.0 GROUNDWATER MONITORING PROGRAM

Historical groundwater sampling procedures are specified in (1) the ECI workplan, Appendix A, Standard Operating Procedure for Soil, Groundwater, Pond Water, and Sediment Sampling, and (2) the Data Quality Assurance Project Plan (Tetra Tech 1998b). Sampling procedures were modified to incorporate the micro-purge sampling protocol for groundwater, with the approval of the NDEP, on August 13, 2004; accordingly, the micro-purge regimen was initiated during the 1st quarter 2005 sampling event (Tetra Tech 2004c) and has been continued thereafter. Current groundwater sampling procedures are specified in the Generic Site-Wide SAP and the Groundwater Monitoring Program SAP (TIMET 2007a and 2007b).

Table 2-1 lists the wells included under the groundwater monitoring program, the required analyses, and pertinent notes. Field personnel use this table as a guide during groundwater sampling events. Note that Table 2-1 includes the Plant Site wells, Lake Mead Parkway wells (TMMW-101 through TMMW-104), and piezometer locations (TMPZ-105 through TMPZ-112). Table 2-2 provides details concerning well construction of the Plant Site wells, Lake Mead Parkway wells, and piezometers. Monitoring wells J2U1 and CLD2-R were not sampled during this semester because of insufficient water; however, water level measurements were obtained.

The following sections briefly describe the procedures followed by TIMET personnel when performing groundwater monitoring field activities.

- Section 2.1, Well Measurements
- Section 2.2, Sample Collection
- Section 2.3, Decontamination Procedures
- Section 2.4, Management of Investigation-Derived Waste
- Section 2.5, Analytical Program

2.1 WELL MEASUREMENTS

Before monitoring wells are sampled, depth to groundwater and total well depth relative to TOC are gauged in each well. Water levels and total depth of each well are measured to the nearest 0.01 foot using an electronic water level meter. The water level probe and cable are decontaminated before use at each well.

2.2 SAMPLE COLLECTION

TIMET personnel performed groundwater sampling activities using TIMET-owned equipment. ALS-Paragon (Paragon) of Fort Collins, Colorado supplied TIMET with "certified clean" sample bottles, with chemical preservatives added as applicable; coolers; and the associated chain-of-custody forms.

Wells under the groundwater monitoring program are purged using QED® SamplePro (portable) or QED® Well Wizard (dedicated) bladder pumps. Dedicated pumps have been installed in wells CLD3-R, CLD4-R, J2D1-R2, J2D2-R2, J2D4, MW-6R, and TMMW-104. The dedicated pumps are set approximately in the middle of the submerged screen within each well. Wells were purged at low enough flow rates such that drawdown did not exceed 0.3 foot using a QED® MP10 advanced digital controller. Field parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity were measured at 3-minute intervals and recorded on a groundwater sampling form.

Purging was considered complete after a minimum of three consecutive measurements of field parameters met stabilization criteria that were established to ensure representative formation water was sampled. Stabilization criteria included ± 0.1 pH unit, ± 3 percent for specific conductivity, and ± 10 percent for turbidity and dissolved oxygen. The only internal portion of the pump exposed to groundwater during sampling is the bladder, which is replaced between each well. The discharge tubing for each well is dedicated. Groundwater samples were collected by first filling the pre-preserved vials for analysis of volatile organic compounds (VOC) and radon-222, followed by filling the rest of the sample bottles. Table 5 of the TIMET Generic Site-Wide Sampling and Analysis Plan provides the types and volumes of sampling containers required for each analysis (TIMET 2007a).

A sample identification number was recorded on the label attached to each sample container and the chain-of-custody form. Filled sample containers were properly packaged and placed in a cooler containing a temperature blank and bagged ice, when required. Quality control (QC) samples, including field duplicates and trip blanks (when applicable), were also packed with samples in the cooler.

Field personnel were responsible for properly preserving, packaging, labeling, documenting, storing, handling, and shipping samples obtained during the sampling event. Field QC samples were collected to determine if sampling practices affected sample integrity and subsequently the quality of analytical results. Field QC samples collected during each sampling event consist of field duplicates, which are samples collected from the same well immediately after the initial sampling. In addition to QC samples collected in the field, a trip blank (laboratory-prepared vial) was stored and transported with sample

coolers that contained samples for VOC analysis. Groundwater samples were shipped to Paragon in Fort Collins, Colorado, using sample coolers provided by the laboratory.

2.3 DECONTAMINATION PROCEDURES

Non-dedicated purging pumps, sampling equipment, and monitoring instrumentation (such as water level meters) were decontaminated before and after use at each well. The portable pump was decontaminated by replacing the bladder, which is the only internal component exposed to groundwater. The external housing of the pump was submerged in a non-phosphate detergent and tap water solution. The pump was then submerged in rinse water. Water level probes were decontaminated by washing the probes with non-phosphate detergent and tap water, and then rinsing the probes with tap water.

2.4 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

Purge water was collected in designated 55-gallon drums. A representative sample will be collected from each of the drums and submitted for the toxicity characteristic leaching procedure (TCLP) for metals and VOCs by a NDEP-certified laboratory. Purge water will be profiled and transported to a permitted off-site disposal facility.

Miscellaneous waste, such as personal protective equipment, disposable sampling equipment, polyethylene sheeting, and general trash, were disposed of as municipal solid waste.

2.5 ANALYTICAL PROGRAM

Table 5 of the TIMET Generic Site-Wide Sampling and Analysis Plan lists the analytical parameters, analytical methods, containers, preservatives, and maximum holding times for groundwater samples collected as part of the groundwater monitoring program (TIMET 2007b). Samples were collected from the monitoring wells shown on Figure 1-2 and analyzed for the constituents specified in Table 2-1.

Paragon performed sample analysis for this event. In order to ensure the highest quality review, full data packages (both hardcopy and electronic formats) were received from Paragon. Level 2B validation was conducted on all sample results; with a minimum of 10 percent reviewed at Level 4 (based on the most recent data validation guidance from NDEP). All groundwater data collected during 2009 will be summarized and reported in the annual DVSR scheduled for submittal in early 2010.

Paragon prepared a Client Analysis Summary that was e-mailed to TIMET for review. The summary was checked against the sampling plan (see Table 2-1) for completeness and accuracy in logging tests and sample identification numbers.

Upon completion of all analyses, Paragon conducted an internal QC review of all test results before releasing data to the client. As part of the QC review, and as required by the NDEP, three comparison tests were conducted to verify the correctness of analyses using Standard Method 1030E (American Public Health Association 2005). Cation-anion balance (CAB), measured total dissolved solids (TDS) versus calculated TDS, and TDS versus electrical conductivity (EC) were evaluated based on recent NDEP guidance (NDEP 2009). Findings are discussed in Section 3.2.

Data deliverables from Paragon include hardcopy reports, electronic format of hardcopy reports (in portable document format), and electronic data deliverables (EDD). The EDDs for this sampling event were directly loaded into the TIMET analytical database, a Microsoft® Access database, which is included in electronic form in Appendix A to this report.

TABLES

TABLE 2-1
CURRENT GROUNDWATER MONITORING PLAN
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitoring Well Identification No.	Water Level (measured from TOC to 0.01 foot)	Inorganic Analytes Wet Chemistry[a]	Perchlorate	Total Metals[b]	Hex Chromium	VOCs	Radionuclides[c]	Radon-222	Uranium by ICP/MS
TMMW-101	X	X	X	X	X	X	X	X	X
TMMW-102	X	X	X	X	X	X	X	X	X
TMMW-103	X	X	X	X	X	X	X	X	X
TMMW-104	X	X	X	X	X	X	X	X	X
TMPZ-105	X	--	--	--	--	--	--	--	--
TMPZ-106	X	--	--	--	--	--	--	--	--
TMPZ-107	X	--	--	--	--	--	--	--	--
TMPZ-108	X	--	--	--	--	--	--	--	--
TMPZ-109	X	--	--	--	--	--	--	--	--
TMPZ-110	X	--	--	--	--	--	--	--	--
TMPZ-111	X	--	--	--	--	--	--	--	--
TMPZ-112	X	--	--	--	--	--	--	--	--
BRW-R1	X	X	X	X	X	X	X	X	X
J2U1	X	Well J2U1 did not produce sufficient volume of water to collect samples for chemical analysis.							
J2U2	X	X	X	X	X	X	X	X	X
J2U2 Duplicate-1	X	X	X	X	X	X	X	X	X
J2D1-R2	X	X	X	X	X	X	X	X	X
J2D2-R2	X	X	X	X	X	X	X	X	X
J2D2-R2 MS/MSD	X	X	X	X	X	X	X	X	X
J2D2-R2 Duplicate-2	X	X	X	X	X	X	X	X	X
J2D3-R	X	X	X	X	X	X	e	X	X
J2D4	X	X	X	X	X	X	X	X	X
CLD1-R	X	X	X	X	X	X	X	X	X
CLD2-R	X	Well CLD2-R did not produce sufficient volume of water to collect samples for chemical analysis.							
CLD3-R	X	X	X	X	X	X	X	X	X
CLD4-R	X	X	X	X	X	X	X	X	X
MW-3R	X	X	X	X	X	X	X	X	X
MW-4	X	X	X	X	X	X	X	X	X
MW-5	X	X	X	X	X	X	X	X	X
MW-6R	X	X	X	X	X	X	X	X	X
Trip Blank	--	--	--	--	--	X[d]	--	--	--

Notes:

ICP Inductively coupled plasma
MS Mass spectrometry
TDS Total dissolved solids
TOC Top of casing
VOC Volatile organic compound

a Inorganic Analytes Wet Chemistry = alkalinity (bicarbonate, carbonate, and total), bromide, chloride, fluoride, nitrate, nitrite, sulfate, cyanide, total phosphorus, and TDS
b Total metals = 30 ICP metals, 3 ICP/MS metals, and mercury
c Radionuclides = Gross alpha, gross beta, isotopic radium (-226 and -228), isotopic uranium (-234, -235, -236, and -238), polonium-210, radon-222, lead-210, isotopic thorium (-230 and -232) and gamma spectrometry
d One trip blank set for each cooler with VOC samples
e Insufficient sample was collected for J2D3-R to analyze for radionuclides (only radon-222 was analyzed)

TABLE 2-2
MONITORING WELL CONSTRUCTION DETAILS
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitoring Well Identification No.	Aquifer	Replaces[1]	Screened Formation	Date Drilled	Contractor	Geologic Log Available	Well Construction Details Available	UTM Y Zone North-South Coordinates in Meters[2]	UTM Y Zone East-West Coordinates in Meters[2]	Ground Elevation[3]	Casing Elevation[4]
BRW-R1	WT	BRW	Qal/xMCf	3/24/1999	Tetra Tech	Yes	Yes	26716928.10	831558.841	1,844	1,844.15
CLD1-R [5]	WT	CLD1	Qal	8/23/1983	JHK	No[5]	Yes	26720138.24	828993.721	1,743	1,745.19
CLD2-R [5]	WT	CLD2	Qal	8/23/1983	JHK	No[5]	Yes	26719965.90	828920.852	1,752	1,753.14
CLD3-R [5]	WT	CLD3	Qal	8/23/1983	JHK	No[5]	Yes	26720010.74	829651.410	1,750	1,752.24
CLD4-R [5]	WT	CLD4	Qal	8/23/1983	JHK	No[5]	Yes	26718854.29	829034.278	1,782	1,781.96
J2D1-R2	WT	J2D1-R	Qal	8/19/1997	Tetra Tech	Yes	Yes	26719274.00	829885.777	1,771	1,773.38
J2D2-R2	WT	J2D2-R	Qal/xMCf	8/19/1997	Tetra Tech	Yes	Yes	26719406.73	830098.482	1,770	1,772.46
J2D3-R	WT	J2D3	Qal	8/23/1983	JHK	Yes	Yes	26719408.27	830353.035	1,770	1,769.90
J2D4	WT	--	Qal/xMCf	12/17/1997	Tetra Tech	Yes	Yes	26719171.05	829582.566	1,771	1,774.29
J2U1	WT	--	Qal	4/13/1983	JHK	Yes	Yes	26718499.09	830498.140	1,799	1,800.98
J2U2	WT	--	Qal/xMCf	8/6/1997	Tetra Tech	Yes	Yes	26718456.02	830063.167	1,799	1,798.35
MW-3R [6]	WT	MW-3	Qal/xMCf	8/22/2008	BAI	Yes	Yes	26716571.73	829483.251	1,841	1,840.39
MW-4	WT	--	Qal/xMCf	3/25/1999	Tetra Tech	Yes	Yes	26718582.87	830973.924	1,798	1,800.60
MW-5	WT	--	Qal/xMCf	3/30/1999	Tetra Tech	Yes	Yes	26718063.61	830385.808	1,813	1,812.47
MW-6R	WT	MW-6	Qal/xMCf	8/18/1999	Tetra Tech	Yes	Yes	26717834.12	829221.075	1,813	1,812.63
TMMW-101	WT	--	Qal	12/13/2005	BAI	Yes	Yes	26715285.26	829462.76	1,881	1,881.11
TMMW-101 [7]	WT	--	Qal	12/13/2005	BAI	Yes	Yes	26715285.26	829462.76	1,876	1,876.91
TMMW-102	WT	--	Qal/xMCf	12/12/2005	BAI	Yes	Yes	26715433.08	830371.175	1,882	1,882.34
TMMW-102 [7]	WT	--	Qal/xMCf	12/12/2005	BAI	Yes	Yes	26715433.08	830371.175	1,880	1,882.46
TMMW-103	WT	--	xMCf	12/11/2005	BAI	Yes	Yes	26715583.05	831325.82	1,884	1,884.95
TMMW-103 [7]	WT	--	xMCf	12/11/2005	BAI	Yes	Yes	26715583.05	831325.82	1,880	1,882.95
TMMW-104	WT	--	xMCf	12/10/2005	BAI	Yes	Yes	26715722.71	832104.881	1,885	1,885.51
TMMW-104 [7]	WT	--	xMCf	12/10/2005	BAI	Yes	Yes	26715722.71	832104.881	1,884	1,885.78
TMPZ-105	WT	--	Qal/xMCf	12/6/2005	BAI	Yes	Yes	26720557.27	828703.771	1,736	1,736.68
TMPZ-106	WT	--	Qal	12/7/2005	BAI	Yes	Yes	26720359.15	829102.418	1,742	1,742.25
TMPZ-107	WT	--	Qal/xMCf	12/7/2005	BAI	Yes	Yes	26720209.59	829386.703	1,745	1,745.60
TMPZ-108	WT	--	Qal/xMCf	12/8/2005	BAI	Yes	Yes	26720032.09	829756.757	1,750	1,750.46
TMPZ-109	WT	--	Qal/xMCf	12/8/2005	BAI	Yes	Yes	26719874.25	830082.661	1,756	1,756.59
TMPZ-110	WT	--	Qal/xMCf	12/8/2005	BAI	Yes	Yes	26719668.76	830531.856	1,763	1,764.00
TMPZ-111	WT	--	Qal/xMCf	12/9/2005	BAI	Yes	Yes	26719015.17	831186.734	1,783	1,783.93
TMPZ-112	WT	--	Qal/xMCf	12/10/2005 & 1/14/2006	BAI	Yes	Yes	26718652.39	831559.744	1,795	1,795.94

TABLE 2-2
MONITORING WELL CONSTRUCTION DETAILS
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Notes:

--	Not applicable
BAI	Broadbent & Associates, Inc.
P&A	Plugged and abandoned
JHK	J.H. Kleinfelder and Associates
NA	Not available
QAL	Quaternary alluvium
Tetra Tech	Tetra Tech EM Inc.
TMC	Tertiary-age Muddy Creek Formation
UTM	Universal Transverse Mercator
WT	Water Table

1	Replacement wells are collocated with P&A wells because of inadequate construction specifications, inadequate depth, improper screen intervals, or damage.
2	UTM Zones in meters relative to North American Datum 27 from the DRI database (DRI 2004).
3	Ground elevations estimated from surveyed top-of-casing elevations and tape-measured stickup.
4	Casing elevations surveyed to North American Vertical Datum (NAVD) 1988 reported in feet above mean sea level; surveyed by licensed surveyor.
5	Geologic log available for collocated (or replaced) P&A well.
6	Replaced well location MW-3; geologic log provided as Figure
7	Top of casing elevations of wells TMMW-101, TMMW-102, TMMW-103, and TMMW-104 were changed and resurveyed in 2008

3.0 GROUNDWATER MONITORING DATA

This section summarizes the groundwater conditions (see Section 3.1) and analytical results (see Section 3.2). Figure 1-2 shows the location of each monitoring well located on the Plant Site and along Lake Mead Parkway sampled during this event. Table 2-1 summarizes the analytical suite conducted for each of the sampled wells. Wells BRW-R1 and theMW-3 replacement (MW-3R) are generally considered upgradient at the current plant operations, and wells CLD1-R, CLD2-R, and CLD3-R are considered downgradient of the current plant operations. The six "J2" series wells (J2D1-R2, J2D2-R2, J2D3-R, J2D4, J2U1, and J2U2) serve as compliance monitoring points for the J2 Landfill, and may be upgradient of some potential sources and downgradient of others. Additionally, six wells (CLD1-R, CLD3-R, CLD4-R, J2U2, J2D4, and MW-6R) serve as compliance points for the groundwater protection permit for ponds HP-1 and HP-6. Four wells (TMMW-101, TMMW-102, TMMW-103, and TMMW-104) are positioned upgradient of the current plant operations along Lake Mead Parkway. Water level measurements were also obtained from the eight piezometers positioned just inside the northern fence line (downgradient).

Figures and tables for the Plant Site are presented after this section. Figure 3-1 presents a potentiometric surface map using data from TIMET facility Plant Site wells, Lake Mead Parkway wells, and piezometers gauged this event. The tables presented in this section summarize analytical results and laboratory qualifiers by well for each sampling event conducted from 1st quarter 2008 through 2nd semester 2009 at the Plant Site and Lake Mead Parkway wells. Note that beginning with 4Q2008, analytical data for the even quarters will not be included in these tables; since the groundwater monitoring program was revised to a semiannual event in 2007. Hydrographs and isoconcentration maps are presented in Appendices B and D respectively. Concentration trend graphs are included in Appendix C.

Hydrographs present groundwater elevations for field measurements taken during 1st Quarter 2000 through 2nd Semester 2009 at the Plant Site and Lake Mead Parkway wells. Note that hydrographs for piezometers contain fewer data points; as these were measured beginning in 2007.

Concentration trend graphs present analytical data for selected analytes from 1st Quarter 2000 through 2nd Semester 2009. Isoconcentration maps suggest that the plumes are relatively stable with no major shift in geometry for the selected analytes during 2nd Semester 2009.

3.1 GROUNDWATER CONDITIONS

The following sections discuss the general hydrogeologic characteristics of the water table aquifer (for example, depth to groundwater and potentiometric surface of groundwater) at the TIMET facility for this reporting period.

3.1.1 Depth to Groundwater

Table 3-1 summarizes groundwater levels for Plant Site and Lake Mead Parkway monitoring wells and piezometers. Hydrographs showing water level trends for Plant Site wells, Lake Mead Parkway wells, and piezometers are presented in Appendix B. Water levels in wells J2U1 and CLD2-R were gauged this event; however, insufficient screen submergence precluded sampling these wells for chemical analysis.

The water level increased by more than 2 feet in well TMMW-102, and decreased by almost 3 feet in well TMMW-104. A decline of 1.04 feet was observed in piezometer TMPZ-110. The water level in TMMW-102 is the highest recorded since measurement started in 2007. Note that the hydrograph for MW-3R, which replaced MW-3, only has two measurements. Other water level fluctuations were within ±1 foot and are within the historical range of elevations.

3.1.2 Potentiometric Surface of Groundwater

Figure 3-1 shows the potentiometric surface for the water table aquifer and the direction of groundwater flow for the 2nd Semester 2009 sampling event based on data from Plant Site wells, Lake Mead Parkway wells, and piezometers. The hydraulic gradient is approximately 0.02 to 0.03 ft/ft in a northerly direction, mimicking the topographic slope toward the Las Vegas Wash.

3.2 ANALYTICAL RESULTS

This section summarizes the distribution of analytes in groundwater for the 2nd Semester 2009. All data from this event were validated according to current NDEP guidelines and have been assigned validation qualifiers based on quality control measurements, as defined in the table below.

Stable Chemistry Validation Qualifiers and Definitions	
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be estimated.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The result is rejected. The associated numerical value is rejected due to quality issues that seriously affect the result.

The U qualifier indicates that the analyte was not detected, and the value reported is the sample quantitation limit (SQL). The U qualifier does not imply any data quality issue, but is simply a statement that the analyte was not detected at the reported SQL. The other qualifiers listed in the table above imply that because of some issue with associated QC samples or criteria, the sample result or SQL may be questioned. During the course of data validation, the reviewer evaluated each of the QC criteria and determined if the issue had any impact on data quality. For all analytes, the J qualifier indicates that the reported value is estimated and the R qualifier indicates that the reported value is rejected. Results are considered estimated or rejected when QC issues could affect data quality and are assigned a bias (+/-) where applicable.

Tables 3-2 through 3-20 summarize the results of groundwater monitoring at Plant Site and Lake Mead Parkway wells, including the validation qualifiers. Reported values that exceed the TIMET Screening Levels (TIMET SLs) are highlighted in bold in the tables. The tables were generated from the TIMET electronic database and contain a set of notes defining data qualifiers. Not all notes may be pertinent to every table.

3.2.1 Cation-Anion Balance and TDS Ratios

In late September 2009, NDEP released a letter regarding the analysis and evaluation of cation-anion balance in groundwater (NDEP 2009). While the guidance was released too late to apply to the analysis of cations and anions for the 2nd semester data, the three recommended evaluations were conducted

according to the letter: (1) cation-anion balance, (2) measured TDS versus calculated TDS, and (3) TDS versus EC.

For the CAB evaluation, the anions and cations used in the calculation include the following:

- Anions – Bicarbonate, carbonate, chloride, fluoride, nitrate as nitrogen, perchlorate, and sulfate
- Cations – Calcium, magnesium, potassium and sodium

Note that hydroxide was not included in the anion calculation, because the pH of the groundwater was less than 10. The acceptable difference between the anion and cation sums is 5 percent. Most of the wells in this event exhibited acceptable CAB results (less or equal to 5%), and all but one had differences less than 10 percent. The large percent difference observed at well CLD1-R (34%) may be the caused by the sharp decline in concentration of chloride and sulfate. Results were rechecked and while no errors were found, it is suspected that the chloride and sulfate results were not accurate as reported. These results are not typical of chloride and sulfate historical results in this well.

For the evaluation of measured TDS versus calculated TDS, the same anions and cations listed in the CAB discussion above were used. The ratios of measured TDS (reported directly from Paragon) and calculated TDS were computed according to the formula recommended by NDEP. The acceptable ratio is greater than or equal to 1.0, but less than or equal to 1.2. All results are acceptable, except when applied to analyses from TMMW-101 and CLD1-R.

For the evaluation of TDS versus EC, the ratio of TDS against the field measurement of EC was calculated. NDEP's acceptable limits are 0.54 to 0.96. A plot of TDS versus EC results is included as Figure 3-2. All wells in this event exhibited acceptable results for TDS to EC ratio.

CAB analysis, TDS ratios, and TDS to EC ratios are summarized in Table 3-21. The calculated percent differences and ratios were compared to the appropriate acceptance criteria and reported as "acceptable" or "unacceptable" accordingly. Based on the findings shown in Table 3-21, the anion, cation, and/or TDS results were qualified as estimated when acceptance criteria were not met.

3.2.2 Concentration Trends

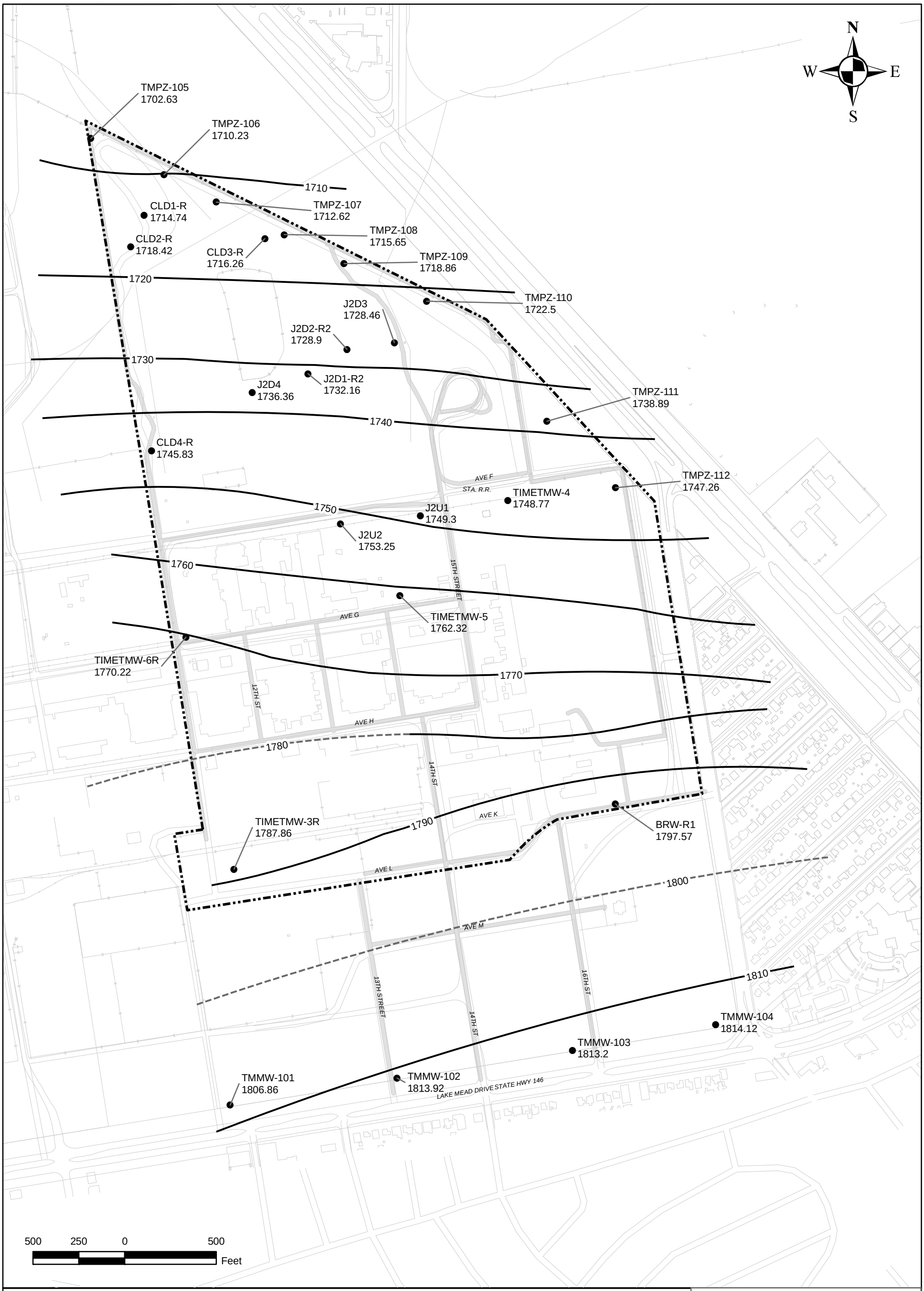
Concentration trend graphs for selected analytes for the 1st quarter 2000 through 2nd semester 2009 are provided in Appendix C. Isoconcentration maps for selected analytes during 2nd Semester 2009 are

provided in Appendix D. During the past quarter, analyte concentrations in most wells remained relatively unchanged and were generally within the historical range of concentrations when compared to the last reporting period. The following exceptions were noted, as described below.

- The concentrations of chloride and sulfate in well CLD1-R decreased sharply since last semester; which may account for the disparity in the CAB analysis (see Tables 3-3 and 3-21).
- The concentration of chloroform in well CLD1-R has increased over the last year to a concentration of 720 µg/L (see Table 3-3).
- The concentration of total dissolved solids in well CLD3-R continued its downward trend starting in 2003 (see Table 3-5).
- The concentration of chloroform in well CLD4-R has decreased since last semester to a concentration of 700 µg/L (see Table 3-6).
- The concentration of tetrachloroethene in well J2D4 continued to decrease to its lowest concentration since 2000, and remains below the MCL of 5 µg/L; reported at 3.8 µg/L (see Table 3-10).
- The concentration of 1,1-dichloroethene in well TIMETMW-4 continued to decrease this period to its lowest concentration, 1 µg/L, and remains below the MCL of 7 µg/L (see Table 3-14).
- The concentration of 1,1-dichloroethene in well J2D1-R2 during the last three reporting periods has remained at or near its lowest reported concentration and remains below the MCL of 7 µg/L (See Table 3-7).
- The concentration of tetrachloroethene in well TIMETMW-4 continued to decrease this period to its lowest reported concentration yet is above the MCL of 5 µg/L; reported at 20 µg/L (see Table 3-14).
- The concentration of radon-222 in well TMMW-101 sharply increased to its highest reported concentration; reported at 1,040 pCi/L (see Table 3-17).
- The concentrations of chloride, sulfate, and TDS declined in well TMMW-102 since last semester (see Table 3-18).
- The concentration of radon-222 increased in well TMMW-103 since last semester (see Table 3-19)

Note that values highlighted in bold font in Tables 3-2 through 3-20 indicate that either the result or the reporting limit exceeds the TIMET SLs during this reporting period.

FIGURES



BRW-R1
1797.57 ● MONITORING WELL WITH GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

WATER LEVEL CONTOUR

APPROXIMATE WATER LEVEL CONTOUR

NOTE: All wells gauged July 6, 2009.

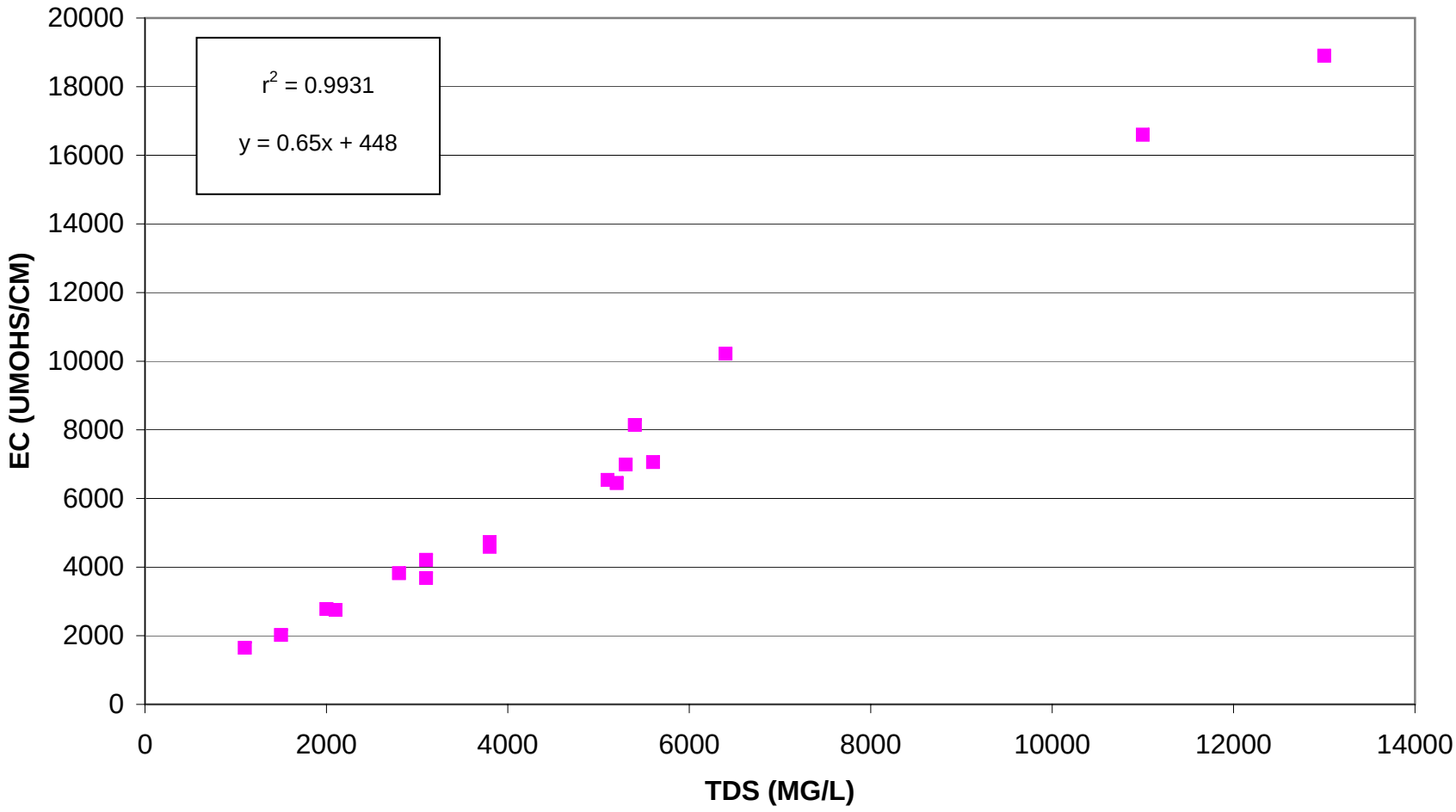
Semiannual Groundwater Monitoring Report
2nd Semester 2009
Titanium Metals Corporation
Henderson, Nevada

FIGURE 3-1
POTENTIOMETRIC SURFACE MAP
2ND SEMESTER 2009

TIMET

2009-10-17 C:\TIMET\1stSEM2009\mxd\TIMET_siteWL_S12008.mxd michelle.handley

Figure 3-2 TDS versus Electrical Conductivity



TABLES

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
BRW-R1	26716928.1	831558.8405	1844.15	21-Mar-00	47.13	1797.02
BRW-R1	26716928.1	831558.8405	1844.15	20-Jun-00	47.57	1796.58
BRW-R1	26716928.1	831558.8405	1844.15	19-Sep-00	47.75	1796.40
BRW-R1	26716928.1	831558.8405	1844.15	13-Dec-00	47.51	1796.64
BRW-R1	26716928.1	831558.8405	1844.15	13-Mar-01	47.16	1796.99
BRW-R1	26716928.1	831558.8405	1844.15	12-Jun-01	47.05	1797.10
BRW-R1	26716928.1	831558.8405	1844.15	25-Sep-01	47.5	1796.65
BRW-R1	26716928.1	831558.8405	1844.15	11-Dec-01	47.2	1796.95
BRW-R1	26716928.1	831558.8405	1844.15	12-Mar-02	47.04	1797.11
BRW-R1	26716928.1	831558.8405	1844.15	11-Jun-02	47.7	1796.45
BRW-R1	26716928.1	831558.8405	1844.15	25-Sep-02	48	1796.15
BRW-R1	26716928.1	831558.8405	1844.15	17-Dec-02	47.55	1796.60
BRW-R1	26716928.1	831558.8405	1844.15	25-Mar-03	47.5	1796.65
BRW-R1	26716928.1	831558.8405	1844.15	25-Jun-03	48.09	1796.06
BRW-R1	26716928.1	831558.8405	1844.15	24-Sep-03	49.08	1795.07
BRW-R1	26716928.1	831558.8405	1844.15	22-Dec-03	47.77	1796.38
BRW-R1	26716928.1	831558.8405	1844.15	10-Feb-04	47.87	1796.28
BRW-R1	26716928.1	831558.8405	1844.15	28-Apr-04	48.17	1795.98
BRW-R1	26716928.1	831558.8405	1844.15	21-Jul-04	48.42	1795.73
BRW-R1	26716928.1	831558.8405	1844.15	25-Oct-04	48.45	1795.70
BRW-R1	26716928.1	831558.8405	1844.15	11-Feb-05	47.85	1796.30
BRW-R1	26716928.1	831558.8405	1844.15	26-Apr-05	46.8	1797.35
BRW-R1	26716928.1	831558.8405	1844.15	28-Jul-05	47.2	1796.95
BRW-R1	26716928.1	831558.8405	1844.15	27-Oct-05	45.75	1798.40
BRW-R1	26716928.1	831558.8405	1844.15	24-Jan-06	46.48	1797.67
BRW-R1	26716928.1	831558.8405	1844.15	21-Apr-06	47.38	1796.77
BRW-R1	26716928.1	831558.8405	1844.15	20-Jul-06	47.99	1796.16
BRW-R1	26716928.1	831558.8405	1844.15	18-Oct-06	46.4	1797.75
BRW-R1	26716928.1	831558.8405	1844.15	23-Jan-07	47.34	1796.81
BRW-R1	26716928.1	831558.8405	1844.15	09-Apr-07	47.8	1796.35
BRW-R1	26716928.1	831558.8405	1844.15	17-Jul-07	47.98	1796.17
BRW-R1	26716928.1	831558.8405	1844.15	23-Oct-07	NA	NA
BRW-R1	26716928.1	831558.8405	1844.15	21-Jan-08	47.13	1797.02
BRW-R1	26716928.1	831558.8405	1844.15	28-Apr-08	47.35	1796.80
BRW-R1	26716928.1	831558.8405	1844.15	21-Jul-08	47.98	1796.17
BRW-R1	26716928.1	831558.8405	1844.15	12-Jan-09	46.21	1797.94
BRW-R1	26716928.1	831558.8405	1844.15	06-Jul-09	46.58	1797.57
CLD1-R	26720138.24	828993.7209	1745.19	23-Mar-00	25.2	1719.99
CLD1-R	26720138.24	828993.7209	1745.19	22-Jun-00	25.98	1719.21
CLD1-R	26720138.24	828993.7209	1745.19	21-Sep-00	26.4	1718.79
CLD1-R	26720138.24	828993.7209	1745.19	14-Dec-00	26.82	1718.37
CLD1-R	26720138.24	828993.7209	1745.19	15-Mar-01	26.37	1718.82

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
CLD1-R	26720138.24	828993.7209	1745.19	14-Jun-01	27.29	1717.90
CLD1-R	26720138.24	828993.7209	1745.19	27-Sep-01	27.74	1717.45
CLD1-R	26720138.24	828993.7209	1745.19	13-Dec-01	27.85	1717.34
CLD1-R	26720138.24	828993.7209	1745.19	12-Mar-02	27.9	1717.29
CLD1-R	26720138.24	828993.7209	1745.19	11-Jun-02	27.3	1717.89
CLD1-R	26720138.24	828993.7209	1745.19	01-Sep-02	28.15	1717.04
CLD1-R	26720138.24	828993.7209	1745.19	19-Dec-02	28.2	1716.99
CLD1-R	26720138.24	828993.7209	1745.19	27-Mar-03	28.16	1717.03
CLD1-R	26720138.24	828993.7209	1745.19	26-Jun-03	28.6	1716.59
CLD1-R	26720138.24	828993.7209	1745.19	25-Sep-03	28.88	1716.31
CLD1-R	26720138.24	828993.7209	1745.19	23-Dec-03	29.15	1716.04
CLD1-R	26720138.24	828993.7209	1745.19	11-Feb-04	29.31	1715.88
CLD1-R	26720138.24	828993.7209	1745.19	29-Apr-04	29.08	1716.11
CLD1-R	26720138.24	828993.7209	1745.19	22-Jul-04	29.65	1715.54
CLD1-R	26720138.24	828993.7209	1745.19	26-Oct-04	29.79	1715.40
CLD1-R	26720138.24	828993.7209	1745.19	11-Feb-05	26.85	1718.34
CLD1-R	26720138.24	828993.7209	1745.19	28-Apr-05	27.26	1717.93
CLD1-R	26720138.24	828993.7209	1745.19	27-Jul-05	27.29	1717.90
CLD1-R	26720138.24	828993.7209	1745.19	27-Oct-05	25.57	1719.62
CLD1-R	26720138.24	828993.7209	1745.19	19-Jan-06	26.85	1718.34
CLD1-R	26720138.24	828993.7209	1745.19	18-Apr-06	24.99	1720.20
CLD1-R	26720138.24	828993.7209	1745.19	17-Jul-06	27.44	1717.75
CLD1-R	26720138.24	828993.7209	1745.19	17-Oct-06	26.73	1718.46
CLD1-R	26720138.24	828993.7209	1745.19	24-Jan-07	25.53	1719.66
CLD1-R	26720138.24	828993.7209	1745.19	09-Apr-07	28.67	1716.52
CLD1-R	26720138.24	828993.7209	1745.19	17-Jul-07	29.26	1715.93
CLD1-R	26720138.24	828993.7209	1745.19	22-Oct-07	29.81	1715.38
CLD1-R	26720138.24	828993.7209	1745.19	21-Jan-08	30.03	1715.16
CLD1-R	26720138.24	828993.7209	1745.19	28-Apr-08	30.25	1714.94
CLD1-R	26720138.24	828993.7209	1745.19	21-Jul-08	30.81	1714.38
CLD1-R	26720138.24	828993.7209	1745.19	12-Jan-09	30.46	1714.73
CLD1-R	26720138.24	828993.7209	1745.19	06-Jul-09	30.45	1714.74
CLD2-R	26719965.9	828920.8521	1753.14	23-Mar-00	30.14	1723.00
CLD2-R	26719965.9	828920.8521	1753.14	22-Jun-00	30.87	1722.27
CLD2-R	26719965.9	828920.8521	1753.14	21-Sep-00	31.28	1721.86
CLD2-R	26719965.9	828920.8521	1753.14	14-Dec-00	31.65	1721.49
CLD2-R	26719965.9	828920.8521	1753.14	15-Mar-01	31.01	1722.13
CLD2-R	26719965.9	828920.8521	1753.14	14-Jun-01	31.94	1721.20
CLD2-R	26719965.9	828920.8521	1753.14	27-Sep-01	32.29	1720.85
CLD2-R	26719965.9	828920.8521	1753.14	13-Dec-01	32.17	1720.97
CLD2-R	26719965.9	828920.8521	1753.14	12-Mar-02	31.95	1721.19
CLD2-R	26719965.9	828920.8521	1753.14	11-Jun-02	31.05	1722.09

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
CLD2-R	26719965.9	828920.8521	1753.14	01-Sep-02	31.95	1721.19
CLD2-R	26719965.9	828920.8521	1753.14	19-Dec-02	32	1721.14
CLD2-R	26719965.9	828920.8521	1753.14	27-Mar-03	31.94	1721.20
CLD2-R	26719965.9	828920.8521	1753.14	26-Jun-03	32.38	1720.76
CLD2-R	26719965.9	828920.8521	1753.14	25-Sep-03	32.42	1720.72
CLD2-R	26719965.9	828920.8521	1753.14	23-Dec-03	35.2	1717.94
CLD2-R	26719965.9	828920.8521	1753.14	11-Feb-04	35.23	1717.91
CLD2-R	26719965.9	828920.8521	1753.14	29-Apr-04	32.4	1720.74
CLD2-R	26719965.9	828920.8521	1753.14	22-Jul-04	35.18	1717.96
CLD2-R	26719965.9	828920.8521	1753.14	26-Oct-04	32.42	1720.72
CLD2-R	26719965.9	828920.8521	1753.14	11-Feb-05	30.12	1723.02
CLD2-R	26719965.9	828920.8521	1753.14	26-Apr-05	30.74	1722.40
CLD2-R	26719965.9	828920.8521	1753.14	27-Jul-05	30.4	1722.74
CLD2-R	26719965.9	828920.8521	1753.14	28-Oct-05	28.59	1724.55
CLD2-R	26719965.9	828920.8521	1753.14	19-Jan-06	30.48	1722.66
CLD2-R	26719965.9	828920.8521	1753.14	18-Apr-06	28.45	1724.69
CLD2-R	26719965.9	828920.8521	1753.14	17-Jul-06	31.16	1721.98
CLD2-R	26719965.9	828920.8521	1753.14	17-Oct-06	29.72	1723.42
CLD2-R	26719965.9	828920.8521	1753.14	25-Jan-07	28.85	1724.29
CLD2-R	26719965.9	828920.8521	1753.14	09-Apr-07	32.27	1720.87
CLD2-R	26719965.9	828920.8521	1753.14	17-Jul-07	32.37	1720.77
CLD2-R	26719965.9	828920.8521	1753.14	22-Oct-07	34.24	1718.90
CLD2-R	26719965.9	828920.8521	1753.14	21-Jan-08	34.71	1718.43
CLD2-R	26719965.9	828920.8521	1753.14	28-Apr-08	34.91	1718.23
CLD2-R	26719965.9	828920.8521	1753.14	21-Jul-08	35.44	1717.70
CLD2-R	26719965.9	828920.8521	1753.14	12-Jan-09	35.42	1717.72
CLD2-R	26719965.9	828920.8521	1753.14	06-Jul-09	35.37	1717.77
CLD3-R	26720010.74	829651.41	1752.24	23-Mar-00	28.89	1723.35
CLD3-R	26720010.74	829651.41	1752.24	20-Jun-00	29.48	1722.76
CLD3-R	26720010.74	829651.41	1752.24	21-Sep-00	29.87	1722.37
CLD3-R	26720010.74	829651.41	1752.24	14-Dec-00	32.2	1720.04
CLD3-R	26720010.74	829651.41	1752.24	15-Mar-01	30.51	1721.73
CLD3-R	26720010.74	829651.41	1752.24	14-Jun-01	30.81	1721.43
CLD3-R	26720010.74	829651.41	1752.24	01-Sep-01	31.14	1721.10
CLD3-R	26720010.74	829651.41	1752.24	13-Dec-01	31.47	1720.77
CLD3-R	26720010.74	829651.41	1752.24	12-Mar-02	31.9	1720.34
CLD3-R	26720010.74	829651.41	1752.24	11-Jun-02	32.25	1719.99
CLD3-R	26720010.74	829651.41	1752.24	25-Sep-02	32.8	1719.44
CLD3-R	26720010.74	829651.41	1752.24	19-Dec-02	33.1	1719.14
CLD3-R	26720010.74	829651.41	1752.24	27-Mar-03	33.17	1719.07
CLD3-R	26720010.74	829651.41	1752.24	26-Jun-03	33.51	1718.73
CLD3-R	26720010.74	829651.41	1752.24	25-Sep-03	34.03	1718.21

TABLE 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
CLD3-R	26720010.74	829651.41	1752.24	23-Dec-03	34.43	1717.81
CLD3-R	26720010.74	829651.41	1752.24	22-Feb-04	34.57	1717.67
CLD3-R	26720010.74	829651.41	1752.24	29-Apr-04	34.59	1717.65
CLD3-R	26720010.74	829651.41	1752.24	22-Jul-04	34.97	1717.27
CLD3-R	26720010.74	829651.41	1752.24	26-Oct-04	35.38	1716.86
CLD3-R	26720010.74	829651.41	1752.24	08-Feb-05	33.61	1718.63
CLD3-R	26720010.74	829651.41	1752.24	28-Apr-05	33.02	1719.22
CLD3-R	26720010.74	829651.41	1752.24	26-Jul-05	33.08	1719.16
CLD3-R	26720010.74	829651.41	1752.24	27-Oct-05	32.88	1719.36
CLD3-R	26720010.74	829651.41	1752.24	18-Jan-06	32.46	1719.78
CLD3-R	26720010.74	829651.41	1752.24	19-Apr-06	32.34	1719.90
CLD3-R	26720010.74	829651.41	1752.24	20-Jul-06	33.18	1719.06
CLD3-R	26720010.74	829651.41	1752.24	17-Oct-06	33.91	1718.33
CLD3-R	26720010.74	829651.41	1752.24	24-Jan-07	33.91	1718.33
CLD3-R	26720010.74	829651.41	1752.24	09-Apr-07	33.98	1718.26
CLD3-R	26720010.74	829651.41	1752.24	17-Jul-07	34.76	1717.48
CLD3-R	26720010.74	829651.41	1752.24	22-Oct-07	35.5	1716.74
CLD3-R	26720010.74	829651.41	1752.24	21-Jan-08	35.58	1716.66
CLD3-R	26720010.74	829651.41	1752.24	28-Apr-08	35.74	1716.50
CLD3-R	26720010.74	829651.41	1752.24	21-Jul-08	35.98	1716.26
CLD3-R	26720010.74	829651.41	1752.24	12-Jan-09	35.96	1716.28
CLD3-R	26720010.74	829651.41	1752.24	06-Jul-09	35.98	1716.26
CLD4-R	26718854.29	829034.2781	1781.96	23-Mar-00	36.96	1745.00
CLD4-R	26718854.29	829034.2781	1781.96	22-Jun-00	37.73	1744.23
CLD4-R	26718854.29	829034.2781	1781.96	21-Sep-00	37.91	1744.05
CLD4-R	26718854.29	829034.2781	1781.96	14-Dec-00	37.6	1744.36
CLD4-R	26718854.29	829034.2781	1781.96	15-Mar-01	37.3	1744.66
CLD4-R	26718854.29	829034.2781	1781.96	14-Jun-01	37.96	1744.00
CLD4-R	26718854.29	829034.2781	1781.96	01-Sep-01	38.23	1743.73
CLD4-R	26718854.29	829034.2781	1781.96	13-Dec-01	37.62	1744.34
CLD4-R	26718854.29	829034.2781	1781.96	12-Mar-02	36.6	1745.36
CLD4-R	26718854.29	829034.2781	1781.96	13-Jun-02	36.6	1745.36
CLD4-R	26718854.29	829034.2781	1781.96	27-Sep-02	37.7	1744.26
CLD4-R	26718854.29	829034.2781	1781.96	19-Dec-02	38.1	1743.86
CLD4-R	26718854.29	829034.2781	1781.96	27-Mar-03	38	1743.96
CLD4-R	26718854.29	829034.2781	1781.96	26-Jun-03	38.05	1743.91
CLD4-R	26718854.29	829034.2781	1781.96	25-Sep-03	38.21	1743.75
CLD4-R	26718854.29	829034.2781	1781.96	23-Dec-03	38.35	1743.61
CLD4-R	26718854.29	829034.2781	1781.96	11-Feb-04	38.37	1743.59
CLD4-R	26718854.29	829034.2781	1781.96	29-Apr-04	37.94	1744.02
CLD4-R	26718854.29	829034.2781	1781.96	22-Jul-04	38.18	1743.78
CLD4-R	26718854.29	829034.2781	1781.96	26-Oct-04	38.03	1743.93

TABLE 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
CLD4-R	26718854.29	829034.2781	1781.96	11-Feb-05	36.24	1745.72
CLD4-R	26718854.29	829034.2781	1781.96	26-Apr-05	36.18	1745.78
CLD4-R	26718854.29	829034.2781	1781.96	27-Jul-05	36.68	1745.28
CLD4-R	26718854.29	829034.2781	1781.96	28-Oct-05	36.61	1745.35
CLD4-R	26718854.29	829034.2781	1781.96	17-Jan-06	36.87	1745.09
CLD4-R	26718854.29	829034.2781	1781.96	25-Apr-06	37.2	1744.76
CLD4-R	26718854.29	829034.2781	1781.96	21-Jul-06	37.93	1744.03
CLD4-R	26718854.29	829034.2781	1781.96	23-Oct-06	37.94	1744.02
CLD4-R	26718854.29	829034.2781	1781.96	25-Jan-07	37.91	1744.05
CLD4-R	26718854.29	829034.2781	1781.96	09-Apr-07	38.09	1743.87
CLD4-R	26718854.29	829034.2781	1781.96	17-Jul-07	38.29	1743.67
CLD4-R	26718854.29	829034.2781	1781.96	22-Oct-07	38.38	1743.58
CLD4-R	26718854.29	829034.2781	1781.96	21-Jan-08	38.17	1743.79
CLD4-R	26718854.29	829034.2781	1781.96	28-Apr-08	38.45	1743.51
CLD4-R	26718854.29	829034.2781	1781.96	21-Jul-08	37.38	1744.58
CLD4-R	26718854.29	829034.2781	1781.96	12-Jan-09	37	1744.96
CLD4-R	26718854.29	829034.2781	1781.96	06-Jul-09	36.13	1745.83
J2D1-R2	26719274	829885.7771	1773.38	22-Mar-00	37.04	1736.34
J2D1-R2	26719274	829885.7771	1773.38	20-Jun-00	37.63	1735.75
J2D1-R2	26719274	829885.7771	1773.38	21-Sep-00	38.3	1735.08
J2D1-R2	26719274	829885.7771	1773.38	14-Dec-00	38.59	1734.79
J2D1-R2	26719274	829885.7771	1773.38	15-Mar-01	38.78	1734.60
J2D1-R2	26719274	829885.7771	1773.38	13-Jun-01	39.14	1734.24
J2D1-R2	26719274	829885.7771	1773.38	01-Sep-01	39.81	1733.57
J2D1-R2	26719274	829885.7771	1773.38	12-Dec-01	39.97	1733.41
J2D1-R2	26719274	829885.7771	1773.38	12-Mar-02	39.96	1733.42
J2D1-R2	26719274	829885.7771	1773.38	11-Jun-02	40	1733.38
J2D1-R2	26719274	829885.7771	1773.38	01-Sep-02	40.2	1733.18
J2D1-R2	26719274	829885.7771	1773.38	18-Dec-02	40.1	1733.28
J2D1-R2	26719274	829885.7771	1773.38	26-Mar-03	40	1733.38
J2D1-R2	26719274	829885.7771	1773.38	26-Jun-03	40.41	1732.97
J2D1-R2	26719274	829885.7771	1773.38	25-Sep-03	41.7	1731.68
J2D1-R2	26719274	829885.7771	1773.38	22-Dec-03	39.91	1733.47
J2D1-R2	26719274	829885.7771	1773.38	11-Feb-04	41	1732.38
J2D1-R2	26719274	829885.7771	1773.38	29-Apr-04	41.1	1732.28
J2D1-R2	26719274	829885.7771	1773.38	22-Jul-04	41.27	1732.11
J2D1-R2	26719274	829885.7771	1773.38	26-Oct-04	41.33	1732.05
J2D1-R2	26719274	829885.7771	1773.38	14-Feb-05	39.96	1733.42
J2D1-R2	26719274	829885.7771	1773.38	26-Apr-05	39.46	1733.92
J2D1-R2	26719274	829885.7771	1773.38	26-Jul-05	39.71	1733.67
J2D1-R2	26719274	829885.7771	1773.38	26-Oct-05	39.32	1734.06
J2D1-R2	26719274	829885.7771	1773.38	17-Jan-06	39.19	1734.19

TABLE 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
J2D1-R2	26719274	829885.7771	1773.38	20-Apr-06	39.49	1733.89
J2D1-R2	26719274	829885.7771	1773.38	19-Jul-06	40.41	1732.97
J2D1-R2	26719274	829885.7771	1773.38	19-Oct-06	40.71	1732.67
J2D1-R2	26719274	829885.7771	1773.38	24-Jan-07	40.44	1732.94
J2D1-R2	26719274	829885.7771	1773.38	09-Apr-07	40.58	1732.80
J2D1-R2	26719274	829885.7771	1773.38	17-Jul-07	41.19	1732.19
J2D1-R2	26719274	829885.7771	1773.38	23-Oct-07	NA	NA
J2D1-R2	26719274	829885.7771	1773.38	21-Jan-08	41.39	1731.99
J2D1-R2	26719274	829885.7771	1773.38	28-Apr-08	41.56	1731.82
J2D1-R2	26719274	829885.7771	1773.38	21-Jul-08	41.58	1731.80
J2D1-R2	26719274	829885.7771	1773.38	12-Jan-09	41.26	1732.12
J2D1-R2	26719274	829885.7771	1773.38	06-Jul-09	41.22	1732.16
J2D2-R2	26719406.73	830098.4822	1772.46	22-Mar-00	38.26	1734.20
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jun-00	38.83	1733.63
J2D2-R2	26719406.73	830098.4822	1772.46	20-Sep-00	39.53	1732.93
J2D2-R2	26719406.73	830098.4822	1772.46	14-Dec-00	39.82	1732.64
J2D2-R2	26719406.73	830098.4822	1772.46	15-Mar-01	40.5	1731.96
J2D2-R2	26719406.73	830098.4822	1772.46	13-Jun-01	40.5	1731.96
J2D2-R2	26719406.73	830098.4822	1772.46	26-Sep-01	41.27	1731.19
J2D2-R2	26719406.73	830098.4822	1772.46	12-Dec-01	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	13-Mar-02	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	12-Jun-02	41.68	1730.78
J2D2-R2	26719406.73	830098.4822	1772.46	27-Sep-02	42.05	1730.41
J2D2-R2	26719406.73	830098.4822	1772.46	18-Dec-02	41.8	1730.66
J2D2-R2	26719406.73	830098.4822	1772.46	26-Mar-03	41.65	1730.81
J2D2-R2	26719406.73	830098.4822	1772.46	26-Jun-03	42.26	1730.20
J2D2-R2	26719406.73	830098.4822	1772.46	25-Sep-03	42.72	1729.74
J2D2-R2	26719406.73	830098.4822	1772.46	22-Dec-03	42.86	1729.60
J2D2-R2	26719406.73	830098.4822	1772.46	11-Feb-04	39.91	1732.55
J2D2-R2	26719406.73	830098.4822	1772.46	29-Apr-04	43.05	1729.41
J2D2-R2	26719406.73	830098.4822	1772.46	22-Jul-04	43.4	1729.06
J2D2-R2	26719406.73	830098.4822	1772.46	26-Oct-04	43.6	1728.86
J2D2-R2	26719406.73	830098.4822	1772.46	09-Feb-05	42.07	1730.39
J2D2-R2	26719406.73	830098.4822	1772.46	28-Apr-05	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	26-Jul-05	41.77	1730.69
J2D2-R2	26719406.73	830098.4822	1772.46	26-Oct-05	41.39	1731.07
J2D2-R2	26719406.73	830098.4822	1772.46	17-Jan-06	41.01	1731.45
J2D2-R2	26719406.73	830098.4822	1772.46	20-Apr-06	41.21	1731.25
J2D2-R2	26719406.73	830098.4822	1772.46	19-Jul-06	42.18	1730.28
J2D2-R2	26719406.73	830098.4822	1772.46	20-Oct-06	42.65	1729.81
J2D2-R2	26719406.73	830098.4822	1772.46	25-Jan-07	42.14	1730.32
J2D2-R2	26719406.73	830098.4822	1772.46	09-Apr-07	42.34	1730.12

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GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
J2D2-R2	26719406.73	830098.4822	1772.46	17-Jul-07	43.15	1729.31
J2D2-R2	26719406.73	830098.4822	1772.46	23-Oct-07	NA	NA
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jan-08	43.35	1729.11
J2D2-R2	26719406.73	830098.4822	1772.46	28-Apr-08	43.55	1728.91
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jul-08	43.05	1729.41
J2D2-R2	26719406.73	830098.4822	1772.46	12-Jan-09	43.48	1728.98
J2D2-R2	26719406.73	830098.4822	1772.46	06-Jul-09	43.56	1728.90
J2D3	26719443.26	830356.3083	1769.90	22-Mar-00	36.06	1733.84
J2D3	26719443.26	830356.3083	1769.90	20-Jun-00	36.39	1733.51
J2D3	26719443.26	830356.3083	1769.90	20-Sep-00	37.34	1732.56
J2D3	26719443.26	830356.3083	1769.90	13-Dec-00	37.42	1732.48
J2D3	26719443.26	830356.3083	1769.90	14-Mar-01	37.72	1732.18
J2D3	26719443.26	830356.3083	1769.90	12-Jun-01	38.17	1731.73
J2D3	26719443.26	830356.3083	1769.90	01-Sep-01	39.1	1730.80
J2D3	26719443.26	830356.3083	1769.90	12-Dec-01	39.12	1730.78
J2D3	26719443.26	830356.3083	1769.90	12-Mar-02	39.93	1729.97
J2D3	26719443.26	830356.3083	1769.90	11-Jun-02	39.37	1730.53
J2D3	26719443.26	830356.3083	1769.90	01-Sep-02	NA	NA
J2D3	26719443.26	830356.3083	1769.90	18-Dec-02	NA	NA
J2D3	26719443.26	830356.3083	1769.90	26-Mar-03	40.19	1729.71
J2D3	26719443.26	830356.3083	1769.90	25-Jun-03	40.05	1729.85
J2D3	26719443.26	830356.3083	1769.90	25-Sep-03	40.56	1729.34
J2D3	26719443.26	830356.3083	1769.90	22-Dec-03	40.37	1729.53
J2D3	26719443.26	830356.3083	1769.90	11-Feb-04	40.4	1729.50
J2D3	26719443.26	830356.3083	1769.90	29-Apr-04	40.62	1729.28
J2D3	26719443.26	830356.3083	1769.90	22-Jul-04	41.1	1728.80
J2D3	26719443.26	830356.3083	1769.90	26-Oct-04	41.2	1728.70
J2D3	26719443.26	830356.3083	1769.90	10-Feb-05	39.21	1730.69
J2D3	26719443.26	830356.3083	1769.90	25-Apr-05	38.76	1731.14
J2D3	26719443.26	830356.3083	1769.90	01-Aug-05	39.54	1730.36
J2D3	26719443.26	830356.3083	1769.90	28-Oct-05	NA	NA
J2D3	26719443.26	830356.3083	1769.90	19-Jan-06	38.34	1731.56
J2D3	26719443.26	830356.3083	1769.90	20-Apr-06	38.72	1731.18
J2D3	26719443.26	830356.3083	1769.90	19-Jul-06	39.96	1729.94
J2D3	26719443.26	830356.3083	1769.90	19-Oct-06	40.25	1729.65
J2D3	26719443.26	830356.3083	1769.90	23-Jan-07	39.47	1730.43
J2D3	26719443.26	830356.3083	1769.90	09-Apr-07	39.78	1730.12
J2D3	26719443.26	830356.3083	1769.90	17-Jul-07	40.86	1729.04
J2D3	26719443.26	830356.3083	1769.90	23-Oct-07	NA	NA
J2D3	26719443.26	830356.3083	1769.90	21-Jan-08	40.7	1729.20
J2D3	26719443.26	830356.3083	1769.90	28-Apr-08	40.99	1728.91
J2D3	26719443.26	830356.3083	1769.90	21-Jul-08	41.25	1728.65

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
J2D3	26719443.26	830356.3083	1769.90	12-Jan-09	40.86	1729.04
J2D3	26719443.26	830356.3083	1769.90	06-Jul-09	41.24	1728.66
J2D4	26719171.05	829582.5658	1774.29	23-Mar-00	36.38	1737.91
J2D4	26719171.05	829582.5658	1774.29	20-Jun-00	36.83	1737.46
J2D4	26719171.05	829582.5658	1774.29	21-Sep-00	37.16	1737.13
J2D4	26719171.05	829582.5658	1774.29	14-Dec-00	37.27	1737.02
J2D4	26719171.05	829582.5658	1774.29	15-Mar-01	37.31	1736.98
J2D4	26719171.05	829582.5658	1774.29	13-Jun-01	37.47	1736.82
J2D4	26719171.05	829582.5658	1774.29	01-Sep-01	37.88	1736.41
J2D4	26719171.05	829582.5658	1774.29	13-Dec-01	37.91	1736.38
J2D4	26719171.05	829582.5658	1774.29	12-Mar-02	37.5	1736.79
J2D4	26719171.05	829582.5658	1774.29	11-Jun-02	37.6	1736.69
J2D4	26719171.05	829582.5658	1774.29	01-Sep-02	37.9	1736.39
J2D4	26719171.05	829582.5658	1774.29	18-Dec-02	38	1736.29
J2D4	26719171.05	829582.5658	1774.29	27-Mar-03	38.11	1736.18
J2D4	26719171.05	829582.5658	1774.29	26-Jun-03	38.17	1736.12
J2D4	26719171.05	829582.5658	1774.29	25-Sep-03	38.29	1736.00
J2D4	26719171.05	829582.5658	1774.29	22-Dec-03	33.38	1740.91
J2D4	26719171.05	829582.5658	1774.29	11-Feb-04	38.47	1735.82
J2D4	26719171.05	829582.5658	1774.29	29-Apr-04	38.42	1735.87
J2D4	26719171.05	829582.5658	1774.29	22-Jul-04	38.51	1735.78
J2D4	26719171.05	829582.5658	1774.29	26-Oct-04	38.47	1735.82
J2D4	26719171.05	829582.5658	1774.29	11-Feb-05	37.3	1736.99
J2D4	26719171.05	829582.5658	1774.29	26-Apr-05	37.09	1737.20
J2D4	26719171.05	829582.5658	1774.29	26-Jul-05	37.35	1736.94
J2D4	26719171.05	829582.5658	1774.29	27-Oct-05	37.15	1737.14
J2D4	26719171.05	829582.5658	1774.29	18-Jan-06	37.15	1737.14
J2D4	26719171.05	829582.5658	1774.29	21-Apr-06	NA	NA
J2D4	26719171.05	829582.5658	1774.29	20-Jul-06	38.11	1736.18
J2D4	26719171.05	829582.5658	1774.29	19-Oct-06	38.29	1736.00
J2D4	26719171.05	829582.5658	1774.29	22-Jan-07	38.25	1736.04
J2D4	26719171.05	829582.5658	1774.29	09-Apr-07	38.33	1735.96
J2D4	26719171.05	829582.5658	1774.29	17-Jul-07	38.57	1735.72
J2D4	26719171.05	829582.5658	1774.29	22-Oct-07	38.6	1735.69
J2D4	26719171.05	829582.5658	1774.29	21-Jan-08	38.53	1735.76
J2D4	26719171.05	829582.5658	1774.29	28-Apr-08	38.71	1735.58
J2D4	26719171.05	829582.5658	1774.29	21-Jul-08	38.33	1735.96
J2D4	26719171.05	829582.5658	1774.29	12-Jan-09	38.01	1736.28
J2D4	26719171.05	829582.5658	1774.29	06-Jul-09	37.93	1736.36
J2U1	26718499.09	830498.1399	1800.98	22-Mar-00	47.53	1753.45
J2U1	26718499.09	830498.1399	1800.98	20-Jun-00	48.2	1752.78
J2U1	26718499.09	830498.1399	1800.98	20-Sep-00	48.8	1752.18

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
J2U1	26718499.09	830498.1399	1800.98	13-Dec-00	48.9	1752.08
J2U1	26718499.09	830498.1399	1800.98	14-Mar-01	51.9	1749.08
J2U1	26718499.09	830498.1399	1800.98	12-Jun-01	51.85	1749.13
J2U1	26718499.09	830498.1399	1800.98	01-Sep-01	51.87	1749.11
J2U1	26718499.09	830498.1399	1800.98	12-Dec-01	51.88	1749.10
J2U1	26718499.09	830498.1399	1800.98	12-Mar-02	51.88	1749.10
J2U1	26718499.09	830498.1399	1800.98	11-Jun-02	50.86	1750.12
J2U1	26718499.09	830498.1399	1800.98	01-Sep-02	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	18-Dec-02	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	26-Mar-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	25-Jun-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	25-Sep-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	22-Dec-03	NA	NA
J2U1	26718499.09	830498.1399	1800.98	11-Feb-04	NA	NA
J2U1	26718499.09	830498.1399	1800.98	29-Apr-04	NA	NA
J2U1	26718499.09	830498.1399	1800.98	22-Jul-04	NA	NA
J2U1	26718499.09	830498.1399	1800.98	26-Oct-04	NA	NA
J2U1	26718499.09	830498.1399	1800.98	10-Feb-05	NA	NA
J2U1	26718499.09	830498.1399	1800.98	25-Apr-05	NA	NA
J2U1	26718499.09	830498.1399	1800.98	27-Jul-05	48.72	1752.26
J2U1	26718499.09	830498.1399	1800.98	28-Oct-05	48.04	1752.94
J2U1	26718499.09	830498.1399	1800.98	19-Jan-06	48.42	1752.56
J2U1	26718499.09	830498.1399	1800.98	21-Apr-06	48.93	1752.05
J2U1	26718499.09	830498.1399	1800.98	19-Jul-06	51.49	1749.49
J2U1	26718499.09	830498.1399	1800.98	20-Oct-06	NA	NA
J2U1	26718499.09	830498.1399	1800.98	22-Jan-07	NA	NA
J2U1	26718499.09	830498.1399	1800.98	09-Apr-07	49.04	1751.94
J2U1	26718499.09	830498.1399	1800.98	17-Jul-07	50.58	1750.40
J2U1	26718499.09	830498.1399	1800.98	23-Oct-07	NA	NA
J2U1	26718499.09	830498.1399	1800.98	21-Jan-08	51.67	1749.31
J2U1	26718499.09	830498.1399	1800.98	28-Apr-08	51.7	1749.28
J2U1	26718499.09	830498.1399	1800.98	21-Jul-08	51.68	1749.30
J2U1	26718499.09	830498.1399	1800.98	12-Jan-09	51.67	1749.31
J2U1	26718499.09	830498.1399	1800.98	06-Jul-09	51.68	1749.30
J2U2	26718456.02	830063.1673	1798.35	22-Mar-00	44.04	1754.31
J2U2	26718456.02	830063.1673	1798.35	20-Jun-00	44.46	1753.89
J2U2	26718456.02	830063.1673	1798.35	20-Sep-00	44.58	1753.77
J2U2	26718456.02	830063.1673	1798.35	13-Dec-00	44.82	1753.53
J2U2	26718456.02	830063.1673	1798.35	14-Mar-01	45.21	1753.14
J2U2	26718456.02	830063.1673	1798.35	12-Jun-01	45.38	1752.97
J2U2	26718456.02	830063.1673	1798.35	01-Sep-01	45.46	1752.89
J2U2	26718456.02	830063.1673	1798.35	12-Dec-01	45.68	1752.67

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
J2U2	26718456.02	830063.1673	1798.35	12-Mar-02	45.7	1752.65
J2U2	26718456.02	830063.1673	1798.35	11-Jun-02	43.86	1754.49
J2U2	26718456.02	830063.1673	1798.35	01-Sep-02	43.58	1754.77
J2U2	26718456.02	830063.1673	1798.35	18-Dec-02	43.6	1754.75
J2U2	26718456.02	830063.1673	1798.35	26-Mar-03	43.87	1754.48
J2U2	26718456.02	830063.1673	1798.35	25-Jun-03	44.2	1754.15
J2U2	26718456.02	830063.1673	1798.35	25-Sep-03	44.55	1753.80
J2U2	26718456.02	830063.1673	1798.35	22-Dec-03	45.64	1752.71
J2U2	26718456.02	830063.1673	1798.35	11-Feb-04	45.76	1752.59
J2U2	26718456.02	830063.1673	1798.35	29-Apr-04	45.55	1752.80
J2U2	26718456.02	830063.1673	1798.35	22-Jul-04	45.3	1753.05
J2U2	26718456.02	830063.1673	1798.35	26-Oct-04	44.52	1753.83
J2U2	26718456.02	830063.1673	1798.35	10-Feb-05	44.72	1753.63
J2U2	26718456.02	830063.1673	1798.35	27-Apr-05	44.28	1754.07
J2U2	26718456.02	830063.1673	1798.35	25-Jul-05	43.63	1754.72
J2U2	26718456.02	830063.1673	1798.35	26-Oct-05	42.43	1755.92
J2U2	26718456.02	830063.1673	1798.35	17-Jan-06	43.92	1754.43
J2U2	26718456.02	830063.1673	1798.35	26-Apr-06	44.75	1753.60
J2U2	26718456.02	830063.1673	1798.35	20-Jul-06	44.66	1753.69
J2U2	26718456.02	830063.1673	1798.35	20-Oct-06	44.29	1754.06
J2U2	26718456.02	830063.1673	1798.35	22-Jan-07	42.97	1755.38
J2U2	26718456.02	830063.1673	1798.35	09-Apr-07	45.55	1752.80
J2U2	26718456.02	830063.1673	1798.35	17-Jul-07	44.98	1753.37
J2U2	26718456.02	830063.1673	1798.35	23-Oct-07	45.61	1752.74
J2U2	26718456.02	830063.1673	1798.35	21-Jan-08	46.11	1752.24
J2U2	26718456.02	830063.1673	1798.35	28-Apr-08	NA	NA
J2U2	26718456.02	830063.1673	1798.35	21-Jul-08	45.13	1753.22
J2U2	26718456.02	830063.1673	1798.35	12-Jan-09	45.38	1752.97
J2U2	26718456.02	830063.1673	1798.35	06-Jul-09	45.1	1753.25
TIMETMW-3	26716618.99	830128.1386	1843.63	22-Mar-00	55.95	1787.68
TIMETMW-3	26716618.99	830128.1386	1843.63	20-Jun-00	56.27	1787.36
TIMETMW-3	26716618.99	830128.1386	1843.63	20-Sep-00	56.44	1787.19
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Dec-00	56.31	1787.32
TIMETMW-3	26716618.99	830128.1386	1843.63	14-Mar-01	56.19	1787.44
TIMETMW-3	26716618.99	830128.1386	1843.63	13-Jun-01	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Sep-01	57.48	1786.15
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Dec-01	56.28	1787.35
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Mar-02	56.15	1787.48
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Jun-02	56.5	1787.13
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Sep-02	56.7	1786.93
TIMETMW-3	26716618.99	830128.1386	1843.63	17-Dec-02	56.6	1787.03
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Mar-03	56.72	1786.91

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Jun-03	56.88	1786.75
TIMETMW-3	26716618.99	830128.1386	1843.63	24-Sep-03	56.73	1786.90
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Dec-03	56.54	1787.09
TIMETMW-3	26716618.99	830128.1386	1843.63	10-Feb-04	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	28-Apr-04	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	21-Jul-04	56.72	1786.91
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Oct-04	56.82	1786.81
TIMETMW-3	26716618.99	830128.1386	1843.63	10-Feb-05	56.23	1787.40
TIMETMW-3	26716618.99	830128.1386	1843.63	29-Apr-05	55.94	1787.69
TIMETMW-3	26716618.99	830128.1386	1843.63	27-Jul-05	56	1787.63
TIMETMW-3	26716618.99	830128.1386	1843.63	28-Oct-05	55.63	1788.00
TIMETMW-3	26716618.99	830128.1386	1843.63	23-Jan-06	55.6	1788.03
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Apr-06	55.88	1787.75
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Jul-06	56.37	1787.26
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Oct-06	56.66	1786.97
TIMETMW-3	26716618.99	830128.1386	1843.63	23-Jan-07	56.44	1787.19
TIMETMW-3	26716618.99	830128.1386	1843.63	09-Apr-07	56.54	1787.09
TIMETMW-3	26716618.99	830128.1386	1843.63	17-Jul-07	56.57	1787.06
TIMETMW-3	26716618.99	830128.1386	1843.63	23-Oct-07	NA	NA
TIMETMW-3	26716618.99	830128.1386	1843.63	21-Jan-08	NA	NA
TIMETMW-3	26716618.99	830128.1386	1843.63	28-Apr-08	NA	NA
TIMETMW-3	26716618.99	830128.1386	1843.63	21-Jul-08	NA	NA
TIMETMW-3R	26716571.73	829483.2505	1840.39	12-Jan-09	52.84	1787.55
TIMETMW-3R	26716571.73	829483.2505	1840.39	06-Jul-09	52.53	1787.86
TIMETMW-4	26718582.87	830973.9242	1800.60	22-Mar-00	49.61	1750.99
TIMETMW-4	26718582.87	830973.9242	1800.60	20-Jun-00	50.35	1750.25
TIMETMW-4	26718582.87	830973.9242	1800.60	20-Sep-00	50.9	1749.70
TIMETMW-4	26718582.87	830973.9242	1800.60	12-Dec-00	51.18	1749.42
TIMETMW-4	26718582.87	830973.9242	1800.60	14-Mar-01	51.18	1749.42
TIMETMW-4	26718582.87	830973.9242	1800.60	13-Jun-01	51.55	1749.05
TIMETMW-4	26718582.87	830973.9242	1800.60	26-Sep-01	51.95	1748.65
TIMETMW-4	26718582.87	830973.9242	1800.60	12-Dec-01	51.77	1748.83
TIMETMW-4	26718582.87	830973.9242	1800.60	12-Mar-02	51.48	1749.12
TIMETMW-4	26718582.87	830973.9242	1800.60	12-Jun-02	52	1748.60
TIMETMW-4	26718582.87	830973.9242	1800.60	26-Sep-02	52	1748.60
TIMETMW-4	26718582.87	830973.9242	1800.60	17-Dec-02	51	1749.60
TIMETMW-4	26718582.87	830973.9242	1800.60	26-Mar-03	51.36	1749.24
TIMETMW-4	26718582.87	830973.9242	1800.60	25-Jun-03	52.05	1748.55
TIMETMW-4	26718582.87	830973.9242	1800.60	24-Sep-03	52.11	1748.49
TIMETMW-4	26718582.87	830973.9242	1800.60	18-Dec-03	51.42	1749.18
TIMETMW-4	26718582.87	830973.9242	1800.60	10-Feb-04	52	1748.60
TIMETMW-4	26718582.87	830973.9242	1800.60	28-Apr-04	52.03	1748.57

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TIMETMW-4	26718582.87	830973.9242	1800.60	21-Jul-04	52.38	1748.22
TIMETMW-4	26718582.87	830973.9242	1800.60	25-Oct-04	52.35	1748.25
TIMETMW-4	26718582.87	830973.9242	1800.60	10-Feb-05	50.31	1750.29
TIMETMW-4	26718582.87	830973.9242	1800.60	26-Apr-05	49.72	1750.88
TIMETMW-4	26718582.87	830973.9242	1800.60	25-Jul-05	50.58	1750.02
TIMETMW-4	26718582.87	830973.9242	1800.60	25-Oct-05	50.69	1749.91
TIMETMW-4	26718582.87	830973.9242	1800.60	16-Jan-06	50.56	1750.04
TIMETMW-4	26718582.87	830973.9242	1800.60	21-Apr-06	50.63	1749.97
TIMETMW-4	26718582.87	830973.9242	1800.60	19-Jul-06	51.36	1749.24
TIMETMW-4	26718582.87	830973.9242	1800.60	20-Oct-06	47.98	1752.62
TIMETMW-4	26718582.87	830973.9242	1800.60	25-Jan-07	50.09	1750.51
TIMETMW-4	26718582.87	830973.9242	1800.60	09-Apr-07	51.07	1749.53
TIMETMW-4	26718582.87	830973.9242	1800.60	17-Jul-07	51.85	1748.75
TIMETMW-4	26718582.87	830973.9242	1800.60	23-Oct-07	NA	NA
TIMETMW-4	26718582.87	830973.9242	1800.60	21-Jan-08	51.35	1749.25
TIMETMW-4	26718582.87	830973.9242	1800.60	28-Apr-08	52.36	1748.24
TIMETMW-4	26718582.87	830973.9242	1800.60	21-Jul-08	52.18	1748.42
TIMETMW-4	26718582.87	830973.9242	1800.60	12-Jan-09	51.61	1748.99
TIMETMW-4	26718582.87	830973.9242	1800.60	06-Jul-09	51.83	1748.77
TIMETMW-5	26718063.61	830385.808	1812.47	22-Mar-00	49.1	1763.37
TIMETMW-5	26718063.61	830385.808	1812.47	20-Jun-00	49.83	1762.64
TIMETMW-5	26718063.61	830385.808	1812.47	20-Sep-00	50.02	1762.45
TIMETMW-5	26718063.61	830385.808	1812.47	12-Dec-00	50.43	1762.04
TIMETMW-5	26718063.61	830385.808	1812.47	14-Mar-01	50.75	1761.72
TIMETMW-5	26718063.61	830385.808	1812.47	13-Jun-01	50.66	1761.81
TIMETMW-5	26718063.61	830385.808	1812.47	26-Sep-01	50.68	1761.79
TIMETMW-5	26718063.61	830385.808	1812.47	12-Dec-01	50.8	1761.67
TIMETMW-5	26718063.61	830385.808	1812.47	12-Mar-02	50.81	1761.66
TIMETMW-5	26718063.61	830385.808	1812.47	12-Jun-02	50.45	1762.02
TIMETMW-5	26718063.61	830385.808	1812.47	26-Sep-02	50.1	1762.37
TIMETMW-5	26718063.61	830385.808	1812.47	17-Dec-02	50.3	1762.17
TIMETMW-5	26718063.61	830385.808	1812.47	26-Mar-03	50.63	1761.84
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jun-03	50.22	1762.25
TIMETMW-5	26718063.61	830385.808	1812.47	24-Sep-03	50.32	1762.15
TIMETMW-5	26718063.61	830385.808	1812.47	18-Dec-03	50.8	1761.67
TIMETMW-5	26718063.61	830385.808	1812.47	10-Feb-04	50.82	1761.65
TIMETMW-5	26718063.61	830385.808	1812.47	28-Apr-04	50.62	1761.85
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-04	50.28	1762.19
TIMETMW-5	26718063.61	830385.808	1812.47	25-Oct-04	49.38	1763.09
TIMETMW-5	26718063.61	830385.808	1812.47	14-Feb-05	49.88	1762.59
TIMETMW-5	26718063.61	830385.808	1812.47	27-Apr-05	48.95	1763.52
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jul-05	49.09	1763.38

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TIMETMW-5	26718063.61	830385.808	1812.47	26-Oct-05	48.71	1763.76
TIMETMW-5	26718063.61	830385.808	1812.47	16-Jan-06	49.32	1763.15
TIMETMW-5	26718063.61	830385.808	1812.47	21-Apr-06	49.82	1762.65
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-06	50.04	1762.43
TIMETMW-5	26718063.61	830385.808	1812.47	20-Oct-06	50	1762.47
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jan-07	50.39	1762.08
TIMETMW-5	26718063.61	830385.808	1812.47	09-Apr-07	50.74	1761.73
TIMETMW-5	26718063.61	830385.808	1812.47	17-Jul-07	50.64	1761.83
TIMETMW-5	26718063.61	830385.808	1812.47	23-Oct-07	NA	NA
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jan-08	50.85	1761.62
TIMETMW-5	26718063.61	830385.808	1812.47	28-Apr-08	50.82	1761.65
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-08	50.77	1761.70
TIMETMW-5	26718063.61	830385.808	1812.47	12-Jan-09	50.13	1762.34
TIMETMW-5	26718063.61	830385.808	1812.47	06-Jul-09	50.15	1762.32
TIMETMW-6R	26717836.95	829221.18	1812.63	22-Mar-00	43.26	1769.37
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jun-00	43.57	1769.06
TIMETMW-6R	26717836.95	829221.18	1812.63	20-Sep-00	41.57	1771.06
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Sep-01	43.81	1768.82
TIMETMW-6R	26717836.95	829221.18	1812.63	12-Dec-01	43.78	1768.85
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Mar-02	43.31	1769.32
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Jun-02	43.25	1769.38
TIMETMW-6R	26717836.95	829221.18	1812.63	30-Sep-02	43.4	1769.23
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Dec-02	43.8	1768.83
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Mar-03	43.67	1768.96
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Jun-03	43.71	1768.92
TIMETMW-6R	26717836.95	829221.18	1812.63	24-Sep-03	43.89	1768.74
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Dec-03	43.98	1768.65
TIMETMW-6R	26717836.95	829221.18	1812.63	10-Feb-04	43.83	1768.80
TIMETMW-6R	26717836.95	829221.18	1812.63	28-Apr-04	43.52	1769.11
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-04	43.49	1769.14
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Oct-04	43.36	1769.27
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Feb-05	42.5	1770.13
TIMETMW-6R	26717836.95	829221.18	1812.63	27-Apr-05	42.55	1770.08
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Jul-05	42.86	1769.77
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Oct-05	42.51	1770.12
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Jan-06	43.18	1769.45
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Mar-06	43.23	1769.40
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Apr-06	43.92	1768.71
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Jun-06	43.51	1769.12
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-06	43.76	1768.87
TIMETMW-6R	26717836.95	829221.18	1812.63	23-Oct-06	43.72	1768.91
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Dec-06	42.75	1769.88

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TIMETMW-6R	26717836.95	829221.18	1812.63	24-Jan-07	43.75	1768.88
TIMETMW-6R	26717836.95	829221.18	1812.63	09-Apr-07	46.61	1766.02
TIMETMW-6R	26717836.95	829221.18	1812.63	17-Jul-07	44.1	1768.53
TIMETMW-6R	26717836.95	829221.18	1812.63	22-Oct-07	44.39	1768.24
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jan-08	43.35	1769.28
TIMETMW-6R	26717836.95	829221.18	1812.63	28-Apr-08	44.23	1768.40
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-08	43.04	1769.59
TIMETMW-6R	26717836.95	829221.18	1812.63	12-Jan-09	43.31	1769.32
TIMETMW-6R	26717836.95	829221.18	1812.63	06-Jul-09	42.41	1770.22
TMMW-101	26715285.26	829462.76	1881.11	17-Jul-07	72.11	1809.00
TMMW-101	26715285.26	829462.76	1881.11	30-Oct-07	75.1	1806.01
TMMW-101	26715285.26	829462.76	1881.11	21-Jan-08	75.46	1805.65
TMMW-101	26715285.26	829462.76	1876.91	28-Apr-08	70.72	1806.19
TMMW-101	26715285.26	829462.76	1876.91	21-Jul-08	NA	NA
TMMW-101	26715285.26	829462.76	1876.91	12-Jan-09	70.75	1806.16
TMMW-101	26715285.26	829462.76	1876.91	06-Jul-09	70.05	1806.86
TMMW-102	26715433.08	830371.175	1882.34	17-Jul-07	70.95	1811.39
TMMW-102	26715433.08	830371.175	1882.34	29-Oct-07	71.89	1810.45
TMMW-102	26715433.08	830371.175	1882.34	21-Jan-08	72.67	1809.67
TMMW-102	26715433.08	830371.175	1882.46	28-Apr-08	73.13	1809.33
TMMW-102	26715433.08	830371.175	1882.46	21-Jul-08	NA	NA
TMMW-102	26715433.08	830371.175	1882.46	12-Jan-09	71.19	1811.27
TMMW-102	26715433.08	830371.175	1882.46	06-Jul-09	68.54	1813.92
TMMW-103	26715583.05	831325.82	1884.95	17-Jul-07	74.29	1810.66
TMMW-103	26715583.05	831325.82	1884.95	12-Nov-07	73.81	1811.14
TMMW-103	26715583.05	831325.82	1884.95	21-Jan-08	74.77	1810.18
TMMW-103	26715583.05	831325.82	1882.95	28-Apr-08	72.78	1810.17
TMMW-103	26715583.05	831325.82	1882.95	21-Jul-08	NA	NA
TMMW-103	26715583.05	831325.82	1882.95	12-Jan-09	69.98	1812.97
TMMW-103	26715583.05	831325.82	1882.95	06-Jul-09	69.75	1813.20
TMMW-104	26715722.71	832104.881	1885.51	17-Jul-07	73.64	1811.87
TMMW-104	26715722.71	832104.881	1885.51	23-Oct-07	74.06	1811.45
TMMW-104	26715722.71	832104.881	1885.51	21-Jan-08	73.92	1811.59
TMMW-104	26715722.71	832104.881	1885.78	28-Apr-08	74.11	1811.67
TMMW-104	26715722.71	832104.881	1885.78	21-Jul-08	NA	NA
TMMW-104	26715722.71	832104.881	1885.78	12-Jan-09	68.75	1817.03
TMMW-104	26715722.71	832104.881	1885.78	06-Jul-09	71.66	1814.12
TMPZ-105	26720557.27	828703.771	1736.68	17-Jul-07	31.97	1704.71
TMPZ-105	26720557.27	828703.771	1736.68	23-Oct-07	NA	NA
TMPZ-105	26720557.27	828703.771	1736.68	21-Jan-08	33.05	1703.63
TMPZ-105	26720557.27	828703.771	1736.68	28-Apr-08	33.47	1703.21
TMPZ-105	26720557.27	828703.771	1736.68	21-Jul-08	33.98	1702.70

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TMPZ-105	26720557.27	828703.771	1736.68	12-Jan-09	33.91	1702.77
TMPZ-105	26720557.27	828703.771	1736.68	06-Jul-09	34.05	1702.63
TMPZ-106	26720359.15	829102.418	1742.25	17-Jul-07	30.54	1711.71
TMPZ-106	26720359.15	829102.418	1742.25	23-Oct-07	NA	NA
TMPZ-106	26720359.15	829102.418	1742.25	21-Jan-08	31.41	1710.84
TMPZ-106	26720359.15	829102.418	1742.25	28-Apr-08	31.71	1710.54
TMPZ-106	26720359.15	829102.418	1742.25	21-Jul-08	32.09	1710.16
TMPZ-106	26720359.15	829102.418	1742.25	12-Jan-09	32.05	1710.20
TMPZ-106	26720359.15	829102.418	1742.25	06-Jul-09	32.02	1710.23
TMPZ-107	26720209.59	829386.703	1745.60	17-Jul-07	31.51	1714.09
TMPZ-107	26720209.59	829386.703	1745.60	23-Oct-07	NA	NA
TMPZ-107	26720209.59	829386.703	1745.60	21-Jan-08	32.65	1712.95
TMPZ-107	26720209.59	829386.703	1745.60	28-Apr-08	32.9	1712.70
TMPZ-107	26720209.59	829386.703	1745.60	21-Jul-08	33.15	1712.45
TMPZ-107	26720209.59	829386.703	1745.60	12-Jan-09	33.2	1712.40
TMPZ-107	26720209.59	829386.703	1745.60	06-Jul-09	32.98	1712.62
TMPZ-108	26720032.09	829756.757	1750.46	17-Jul-07	33.75	1716.71
TMPZ-108	26720032.09	829756.757	1750.46	23-Oct-07	NA	NA
TMPZ-108	26720032.09	829756.757	1750.46	21-Jan-08	34.37	1716.09
TMPZ-108	26720032.09	829756.757	1750.46	28-Apr-08	34.51	1715.95
TMPZ-108	26720032.09	829756.757	1750.46	21-Jul-08	34.81	1715.65
TMPZ-108	26720032.09	829756.757	1750.46	12-Jan-09	34.78	1715.68
TMPZ-108	26720032.09	829756.757	1750.46	06-Jul-09	34.81	1715.65
TMPZ-109	26719874.25	830082.661	1756.59	17-Jul-07	NA	NA
TMPZ-109	26719874.25	830082.661	1756.59	23-Oct-07	NA	NA
TMPZ-109	26719874.25	830082.661	1756.59	21-Jan-08	36.96	1719.63
TMPZ-109	26719874.25	830082.661	1756.59	28-Apr-08	37.29	1719.30
TMPZ-109	26719874.25	830082.661	1756.59	21-Jul-08	37.69	1718.90
TMPZ-109	26719874.25	830082.661	1756.59	12-Jan-09	37.43	1719.16
TMPZ-109	26719874.25	830082.661	1756.59	06-Jul-09	37.73	1718.86
TMPZ-110	26719668.76	830531.856	1764.00	17-Jul-07	40.88	1723.12
TMPZ-110	26719668.76	830531.856	1764.00	23-Oct-07	NA	NA
TMPZ-110	26719668.76	830531.856	1764.00	21-Jan-08	39.9	1724.10
TMPZ-110	26719668.76	830531.856	1764.00	28-Apr-08	40.51	1723.49
TMPZ-110	26719668.76	830531.856	1764.00	21-Jul-08	41.2	1722.80
TMPZ-110	26719668.76	830531.856	1764.00	12-Jan-09	40.46	1723.54
TMPZ-110	26719668.76	830531.856	1764.00	06-Jul-09	41.5	1722.50
TMPZ-111	26719015.17	831186.734	1783.93	17-Jul-07	44.94	1738.99
TMPZ-111	26719015.17	831186.734	1783.93	23-Oct-07	NA	NA
TMPZ-111	26719015.17	831186.734	1783.93	21-Jan-08	44.38	1739.55
TMPZ-111	26719015.17	831186.734	1783.93	28-Apr-08	45.03	1738.90
TMPZ-111	26719015.17	831186.734	1783.93	21-Jul-08	45.5	1738.43

TABLE 3-1
GROUNDWATER ELEVATION DATA
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2ND SEMESTER 2009

Monitor Well	UTM Y Zone North-South [1] (meters)	UTM Y Zone East-West [1] (meters)	Casing [2] Elevation (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation [2] (ft)
TMPZ-111	26719015.17	831186.734	1783.93	12-Jan-09	44.77	1739.16
TMPZ-111	26719015.17	831186.734	1783.93	06-Jul-09	45.04	1738.89
TMPZ-112	26718652.39	831559.744	1795.94	17-Jul-07	48.14	1747.80
TMPZ-112	26718652.39	831559.744	1795.94	23-Oct-07	NA	NA
TMPZ-112	26718652.39	831559.744	1795.94	21-Jan-08	47.99	1747.95
TMPZ-112	26718652.39	831559.744	1795.94	28-Apr-08	48.53	1747.41
TMPZ-112	26718652.39	831559.744	1795.94	21-Jul-08	47.83	1748.11
TMPZ-112	26718652.39	831559.744	1795.94	12-Jan-09	48.01	1747.93
TMPZ-112	26718652.39	831559.744	1795.94	06-Jul-09	48.68	1747.26

Notes:

DRI	Desert Research Institute	NAVD	North American vertical datum
NA	Not available	UTM	Universal transverse mercator

1 UTM zones in meters relative to North American Datum 27 from the DRI database (DRI 2004)
2 Elevations surveyed to NAVD 1988 reported in feet above mean sea level by licensed surveyor.

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		60	92	75	78	83	85
ANIONS (reported in mg/L)							
Chloride	250	272	2800	**310 J**	**300**	**300**	**280**
Nitrate	10	11	128	**13 J**	**12**	**13**	**11**
Perchlorate [g]	0.018	0.24	0.36	**0.3 J**	**0.36**	**0.27**	**0.28**
Sulfate	250	1790	21000	**2600 J**	**2100**	**2300**	**2100**
GENERAL							
Fluoride	4	1.2	1.8	1.5 J	1.2	1.8	1.6
Nitrite	1	0.5	1	0.5 U	1 U	0.5 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-22	30	13.6 ± 5.61	5.35 ± 6 U	4.27 ± 4.55 U	8.27 ± 3.84
Adjusted Gross Alpha (Total) MCL [c]	15	-2.59	18.96	3.8	NA	NA	-0.8
Beta (Total)	4	-12	72.2	**13.3 ± 7.04**	**6.03 ± 12 U**	**12.7 ± 6.63 [f]**	**11.2 ± 7.3 U**
Uranium 238		2	4.08	3.89 ± 0.78	3.99 ± 0.788	4.08 ± 0.791	3.73 ± 0.759
Uranium 234		3	6.15	5.72 ± 1.09	5.64 ± 1.06	6.15 ± 1.13	5.18 ± 1
Thorium 230		-0.0484	0.127	0.0987 ± 0.0736 U	-0.0484 ± 0.0573 U	0.00755 ± 0.06 U	0.0626 ± 0.0695 U
Radium 226	5	-0.94	1	0.225 ± 0.27 U	0.488 ± 0.327	0.737 ± 0.356	0.59 ± 0.37
Radon 222	300	245	649	**443 ± 60.3**	**444 ± 60**	**483 ± 65.3**	**535 ± 69**
Lead 214		-7.14	63.2	20.4 ± 9.21 J-	-1.87 ± 9.23 UJ-	-7.14 ± 9.2 UJ-	-1.62 ± 10.8 UJ-
Bismuth 214		-13.5	51.3	29.5 ± 9.99 J-	2.39 ± 11.4 UJ-	17.4 ± 5.61 J-	7.44 ± 13.7 UJ-
Lead 210		0.0799	0.756	0.435 ± 0.43 U	0.23 ± 0.423 U	NA	NA
Thorium 232		-0.0111	0.025	0.0156 ± 0.0198	-0.00158 ± 0.0228 U	0.0163 ± 0.019 U	-0.0111 ± 0.0222 U
Radium 228	5	-2.05	1.43	0.777 ± 0.515 U	0.536 ± 0.386 U	0.736 ± 0.474 U	1.02 ± 0.469
Radium MCL [d]	5	-0.06	1.64	NA	0.49	0.74	1.61
Actinium-228		-7.31	15.9	15.8 ± 9.96 J	10.7 ± 10.4 U	6.59 ± 11.9 U	-2.65 ± 21.2 U
Thorium 228		-0.0228	0.0921	-0.0228 ± 0.0508 U	0.00893 ± 0.0594 U	0.0146 ± 0.057 U	0.00749 ± 0.0814 U
Lead 212		-4.1	3.94	0.543 ± 7.11 U	-1.74 ± 8.12 U	-2.74 ± 7.59 U	3.23 ± 7.38 U
Bismuth 212		-31.1	46.1	36.5 ± 35.9 U	26.4 ± 37.4 U	5.94 ± 36.3 U	46.1 ± 41.3 U
Thallium 208		-1.29	5.76	4.55 ± 2.52 J	0.223 ± 6.26 U	5.46 ± 2.59 J+	5.76 ± 2.87 J+

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-22	72	5.08 ± 64.6 U	72 ± 68.2 U	-20.4 ± 67.4 U	60.7 ± 70.8 U
Uranium 235		-9.56	11.8	0.196 ± 0.118	0.288 ± 0.138	0.249 ± 0.123	0.151 ± 0.108
Polonium-210		0.24	0.265	0.24 ± 0.177	0.265 ± 0.172	NA	NA
Protactinium-234		-147	559	224 ± 443 U	269 ± 321 U	369 ± 997 U	412 ± 496 U
Radium-224		-2.74	3.94	0.543 ± 7.11 U	-1.74 ± 8.12 U	-2.74 ± 7.59 U	3.23 ± 7.38 U
Thorium-227		-14.6	22.4	7.74 ± 16.8 U	-1.95 ± 19 U	4.67 ± 19.7 U	-10.4 ± 20.5 U
Thorium-234		-31.2	64.8	-1.17 ± 83.6 U	64.8 ± 82 U	-0.491 ± 51.1 U	-10.9 ± 77.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	253	4200	**4200**	**4100**	**4100**	**3800**
TOTAL METAL (reported in ug/L)							
Aluminum	50	7.7	120	**120 J**	31 J-	46 U	**80 U**
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	17.8	46	**41**	**40**	**40**	**37**
Barium	2000	6.2	18.7	8.8 J	6.8 J-	8 J-	7.1 J-
Beryllium	4	0.081	0.51	0.32 U	0.45 U	0.19 J	0.28 J-
Cadmium	5	0.33	10	5 U	0.57 U	0.75 J	5 U
Calcium		205000	460000	440000 J	380000	460000	390000
Chromium	100	9.5	56	42	40	43	43
Chromium VI	100	48	53	48	48	51	53
Cobalt	11	0.82	20	10 U	10 U	10 U	10 U
Copper	1300	0.81	20	10 U	10 U	0.81 U	10 U
Iron	300	8.5	539	14 J-	18 U	8.5 J-	40 J-
Lead	15	1	8.8	3 U	3 U	3 U	3 U
Lithium	73	150	230	**230 J+**	**220 J+**	**200**	**180**
Magnesium		140000	200000	200000 J	190000	190000	170000
Manganese	50	0.18	15	3.4 UJ	0.92 U	1.4 J-	0.44 J-
Mercury	2	0.0097	0.22	0.0097 J	0.2 U	0.018 J	0.02 J
Molybdenum	183	90	100	96	92	100	93
Nickel	730	1.1	40	20 U	20 U	20 U	20 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		14000	17000	17000 J+	16000 J+	17000 J+	15000 J+
Selenium	50	2.1	15.4	5.8	5 U	3.8 J	3.8 J-
Silicon		15000	16000	16000	15000 J+	16000	15000
Silver	100	0.63	20	10 U	0.93 J	10 U	10 U
Sodium		350000	491000	400000 J	360000	410000	350000
Thallium	2	0.021	200	0.087 U	0.033 U	0.055 U	0.028 U
Tin	21900	6.2	50	50 U	6.2 U	50 U	50 U
Titanium	146000	2.4	20	20 U	20 U	20 U	20 U
Uranium	30	7.3	14	14	12	13	12
Vanadium	183	15	38.2	20	19	20	19
Zinc	5000	0.71	76	5.9 J-	20 U	5.5 U	3.2 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	0.8	5	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	20	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	20	10 U	10 U	10 U	10 U
Acetone	32600	2.5	96	10 R	10 R	10 R	10 U
Benzene	5	1	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.13	5	1 U	1 U	1 U	1 U
Bromoform	80	1	5	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	10	1 UJ	1 U	1 U	1 U
Carbon Disulfide	3520	1	5	1 U	1 U	1 U	1 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	5	1 U	1 U	1 U	1 U
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	2.9	13	4.5	3	4.1	3.7
Chloromethane	81.1	1	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	1 U	1 U
Dibromochloromethane	80	1	5	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.77	5.8	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1	5	1 U	1 U	1 U	1 U
Toluene	1000	0.29	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	3	28	4.5	3	4.1	3.7
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	1 U	1 U
Trichloroethene	5	0.48	11	1 U	1 U	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		66	430	200	200	210	210 J
ANIONS (reported in mg/L)							
Chloride	250	740	5780	**1700 J**	**1800 J**	**1800**	**740 J**
Nitrate	10	8.5	60	**18 J**	**20 J**	**18**	**14 J**
Perchlorate [g]	0.018	4.3	12	**8.1 J**	**8.5 J**	**9.7**	**9.7 J**
Sulfate	250	710	2780	**1500 J**	**1600 J**	**1600**	**710 J**
GENERAL							
Fluoride	4	1.2	3.7	2.4 J	2.6 J	1.2	2.1 J
Nitrite	1	0.5	1	1 UJ-	1 U	1 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-34	150	-1.27 ± 9.02 U	11.9 ± 6.54	16.4 ± 7.13	16.9 ± 8.5 J+
Adjusted Gross Alpha (Total) MCL [c]	15	10.66	60.7	NA	-8.8	-3.3	-1.5
Beta (Total)	4	-14	44	**13.1 ± 14.4 U [f]**	**28.9 ± 12**	**12.4 ± 11.7 U**	**8.42 ± 12.3 U [f]**
Uranium 238		4.3	22.2	5.53 ± 1.05	8.14 ± 1.49	8.48 ± 1.7	7.82 ± 1.41
Uranium 234		6.2	32.9	7.98 ± 1.45	12.1 ± 2.14	10.7 ± 2.08	10.2 ± 1.8
Thorium 230		-0.0637	0.151	0.0529 ± 0.0706 U	-0.0395 ± 0.0527 U	0.0491 ± 0.0625 U	0.0569 ± 0.0711 U
Radium 226	5	-0.19	1.21	0.395 ± 0.207	0.42 ± 0.384 U	0.662 ± 0.436	0.342 ± 0.37 U
Radon 222	300	311	2140	**1670 ± 198**	**782 ± 96.1**	**1520 ± 180**	**1120 ± 133**
Lead 214		-10	367	62.5 ± 11.7 J-	6.42 ± 10.7 UJ-	7.42 ± 4.93 UJ-	7.08 ± 10.4 UJ-
Bismuth 214		-13	350	67.9 ± 15 J-	0.62 ± 13.1 UJ-	12.8 ± 5.46 J-	6.22 ± 11.1 UJ-
Lead 210		0.217	127	0.561 ± 0.47 U	0.625 ± 0.449 U	NA	NA
Thorium 232		-0.0106	0.037	0.0354 ± 0.0378 U	-0.0106 ± 0.0166 U	0.011 ± 0.0165 U	0.0286 ± 0.0279 U
Radium 228	5	-4.35	0.94	0.624 ± 0.394 U	0.844 ± 0.391 J	0.308 ± 0.436 U	0.071 ± 0.469 U
Radium MCL [d]	5	0.29	1.75	0.4	0.84	0.66	NA
Actinium-228		-4.35	25	11.8 ± 9.02 U	11.4 ± 9.63 U	8.99 ± 9.72 U	14.6 ± 12.7 U
Thorium 228		-0.0206	0.125	-0.0206 ± 0.0756 U	0.00738 ± 0.0642 U	-0.00022 ± 0.0212 U	0.0376 ± 0.0416 U
Lead 212		-19.9	6.04	-0.599 ± 6.55 U	0.0488 ± 7.11 U	0.73 ± 7.65 U	-0.335 ± 8.28 U
Bismuth 212		-50	65	43.2 ± 37 U	24.5 ± 42.4 U	63.6 ± 37.2 J+	30.9 ± 37 U
Thallium 208		-4.9	6.97	-1.22 ± 6.17 U	5.12 ± 3.12 J	6.97 ± 2.67 J+	1.19 ± 4.52 U

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-55	71.6	33.3 ± 75.4 U	3.16 ± 84.8 U	-45.4 ± 67.9 U	52.6 ± 71.8 U
Uranium 235		0.16	30.9	0.43 ± 0.176	0.504 ± 0.196	0.526 ± 0.244	0.334 ± 0.142
Polonium-210		0.0455	0.283	0.0455 ± 0.121 U	0.283 ± 0.177	NA	NA
Protactinium-234		-340	654	200 ± 423 U	200 ± 522 U	-340 ± 998 U	-331 ± 964 U
Radium-224		-1.83	6.04	-0.599 ± 6.55 U	0.0488 ± 7.11 U	0.73 ± 7.65 U	-0.335 ± 8.28 U
Thorium-227		-18.3	13.7	13.7 ± 12.9 U	-8.34 ± 12.4 U	3.16 ± 12.6 U	6.17 ± 19.8 U
Thorium-234		-33.5	48.6	11.5 ± 66.7 U	1.76 ± 50 U	13.3 ± 50.4 U	13.5 ± 60.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3700	12500	**5500**	**6000**	**5900**	**5400 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.7	110	**100 J**	**100 UJ**	18 U	**52 U**
Antimony	6	5.5	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	130	493	**160**	**170**	**180**	**180 J+**
Barium	2000	12	2000	25 J-	22 J-	23 J-	20 J-
Beryllium	4	0.081	4	2 U	0.31 U	0.2 U	2 U
Cadmium	5	0.33	50	5 U	0.54 U	0.81 U	5 U
Calcium		83000	581000	220000 J	190000 J	200000	180000 J
Chromium	100	151	2600	**420**	**400**	**430 J-**	**380 J-**
Chromium VI	100	440	760	**500 J-**	**530**	**530**	**510**
Cobalt	11	1.9	16	2.9 J	1.9 J-	3.1 U	2.4 J
Copper	1300	0.56	20	10 U	10 U	0.56 U	10 U
Iron	300	3.2	1040	11 UJ	42 UJ	3.2 U	15 U
Lead	15	1.7	30	3 U	2.2 U	1.7 U	3 U
Lithium	73	180	500	**410**	**500 J+**	**420**	**400**
Magnesium		46000	350000	170000 J	150000 J	130000	110000 J
Manganese	50	4	358	**230 J**	**230 J**	**230**	**200**
Mercury	2	0.011	0.2	0.2 U	0.2 U	0.025 J	0.016 J
Molybdenum	183	120	140	130	140	140	130
Nickel	730	1.3	14	5.5 J	6.2 U	7.3 U	6 J

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	14	200	**200 U [f]**	**14 U**	**200 U [f]**	**200 U [f]**
Potassium		11000	66000	20000 J+	23000 J+	25000 J+	23000 J+
Selenium	50	3.6	50	4.6 J-	5 U	6.7	3.6 J
Silicon		40000	47000	47000	41000 J+	47000	40000
Silver	100	0.51	100	10 U	10 U	0.71 J-	10 U
Sodium		810000	3700000	1200000 J	1100000 J	1500000	1500000 J-
Thallium	2	0.022	200	0.044 U	0.035 U	0.048 U	0.075 U
Tin	21900	2.8	50	2.8 J	50 U	50 U	50 U
Titanium	146000	0.31	20	20 U	0.31 J-	20 U	0.77 J-
Uranium	30	13.2	76	18	21	23	23
Vanadium	183	41	7670	160	110	100 J-	97
Zinc	5000	0.41	34	20 U	20 U	3.8 U	6.8 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	25	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	25	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.095	25	0.19 J	1 U	1 U	1 U
1,1-Dichloroethene	7	0.23	25	0.31 J	1 U	1 U	0.26 J
1,2-Dichloroethane	5	1	25	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	25	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	25	1 U	1 U	1 U	1 U
2-Butanone	21300	10	250	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	250	10 U	10 U	10 U	10 U
Acetone	32600	2	250	10 R	10 R	10 R	10 R
Benzene	5	0.19	25	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.64	25	2	1.2	1.6	1.5
Bromoform	80	0.92	25	1 U	1 U	1 U	1 U
Bromomethane	47.8	1	50	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	25	1 U	1 U	1 U	1 U

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	25	2.8	2	2.5	2.4
Chlorobenzene	100	1	25	1 U	1 U	1 U	1 U
Chloroform	80	210	1100	**210**	**370**	**480**	**720**
Chloromethane	81.1	0.18	50	1 U	1 U	0.18 J	1 U
cis-1,2-Dichloroethene	70	1	25	1 U	1 U	1 U	1 U
Dibromochloromethane	80	0.17	25	0.32 J	0.17 J	0.28 J	0.3 J
Ethylbenzene	700	1	25	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.23	25	0.27 J	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	25	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.75	25	2	0.94 J	1.2	1.2
Toluene	1000	0.16	25	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	212.32	1110.83	**210**	**370**	**480**	**720**
Trans-1,2-Dichloroethene	100	1	25	1 U	1 U	1 U	1 U
Trichloroethene	5	0.24	25	1 U	1 U	1 U	1 U
Trichlorofluoromethane	9890	1	25	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	25	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	50	2 U	2 U	2 U	2 U

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		170	370	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	250	460	1500	NA	NA	NA	NA
Nitrate	10	5.2	12	NA	NA	NA	NA
Perchlorate [g]	0.018	6.2	7.4	NA	NA	NA	NA
Sulfate	250	680	1500	NA	NA	NA	NA
GENERAL							
Fluoride	4	3	3	NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	24.79	24.79	NA	NA	NA	NA
Beta (Total)	4			NA	NA	NA	NA
Uranium 238		9.94	9.94	NA	NA	NA	NA
Uranium 234		14.3	14.3	NA	NA	NA	NA
Thorium 230		-0.0138	-0.0138	NA	NA	NA	NA
Radium 226	5	0.0829	0.0829	NA	NA	NA	NA
Radon 222	300	2380	2380	NA	NA	NA	NA
Lead 214		267	267	NA	NA	NA	NA
Bismuth 214		256	256	NA	NA	NA	NA
Lead 210		0.888	0.888	NA	NA	NA	NA
Thorium 232		0.0111	0.0111	NA	NA	NA	NA
Radium 228	5	0.233	0.233	NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		17.2	17.2	NA	NA	NA	NA
Thorium 228		-0.029	-0.029	NA	NA	NA	NA
Lead 212		2.97	2.97	NA	NA	NA	NA
Bismuth 212		78.2	78.2	NA	NA	NA	NA
Thallium 208		4.61	4.61	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		2.56	2.56	NA	NA	NA	NA
Uranium 235		0.549	4.86	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		320	320	NA	NA	NA	NA
Radium-224		2.97	2.97	NA	NA	NA	NA
Thorium-227		-9.42	-9.42	NA	NA	NA	NA
Thorium-234		20	20	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2400	5000	NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	9.3	120	NA	NA	NA	NA
Antimony	6	9.7	40	NA	NA	NA	NA
Arsenic	10	130	490	NA	NA	NA	NA
Barium	2000	4.3	2000	NA	NA	NA	NA
Beryllium	4	0.072	2	NA	NA	NA	NA
Cadmium	5	0.54	50	NA	NA	NA	NA
Calcium		74000	484000	NA	NA	NA	NA
Chromium	100	350	1700	NA	NA	NA	NA
Chromium VI	100	330	400	NA	NA	NA	NA
Cobalt	11	1.9	4.5	NA	NA	NA	NA
Copper	1300	2	20	NA	NA	NA	NA
Iron	300	14	5980	NA	NA	NA	NA
Lead	15	2.6	30	NA	NA	NA	NA
Lithium	73	180	180	NA	NA	NA	NA
Magnesium		38000	242000	NA	NA	NA	NA
Manganese	50	67	2290	NA	NA	NA	NA
Mercury	2	0.011	0.2	NA	NA	NA	NA
Molybdenum	183	82	82	NA	NA	NA	NA
Nickel	730	4.3	57	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73			NA	NA	NA	NA
Potassium		9500	23000	NA	NA	NA	NA
Selenium	50	3.6	50	NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100	0.59	100	NA	NA	NA	NA
Sodium		5000	2710000	NA	NA	NA	NA
Thallium	2	0.027	200	NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000	0.77	0.77	NA	NA	NA	NA
Uranium	30	13	35	NA	NA	NA	NA
Vanadium	183	90	170	NA	NA	NA	NA
Zinc	5000	0.66	20	NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	4	NA	NA	NA	NA
1,1,2-Trichloroethane	5	1	4	NA	NA	NA	NA
1,1-Dichloroethane	11.8	1	4	NA	NA	NA	NA
1,1-Dichloroethene	7	1	4	NA	NA	NA	NA
1,2-Dichloroethane	5	1	4	NA	NA	NA	NA
1,2-Dichloropropane	5	1	4	NA	NA	NA	NA
1,3-Dichlorobenzene	110	1	4	NA	NA	NA	NA
2-Butanone	21300	10	40	NA	NA	NA	NA
4-Methyl-2-Pentanone	2900	10	40	NA	NA	NA	NA
Acetone	32600	10	40	NA	NA	NA	NA
Benzene	5	1	4	NA	NA	NA	NA
Bromodichloromethane	80	0.54	4	NA	NA	NA	NA
Bromoform	80	1	4	NA	NA	NA	NA
Bromomethane	47.8	1	4	NA	NA	NA	NA
Carbon Disulfide	3520	0.43	1	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.64	0.74	NA	NA	NA	NA
Chlorobenzene	100	1	4	NA	NA	NA	NA
Chloroform	80	140	140	NA	NA	NA	NA
Chloromethane	81.1	1	4	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	1	4	NA	NA	NA	NA
Dibromochloromethane	80	1	4	NA	NA	NA	NA
Ethylbenzene	700	1	4	NA	NA	NA	NA
Methylene Chloride	5	1	4	NA	NA	NA	NA
Naphthalene	4.29			NA	NA	NA	NA
Styrene	100	1	4	NA	NA	NA	NA
Tetrachloroethene	5	1.9	2.1	NA	NA	NA	NA
Toluene	1000	0.71	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	140.54	152	NA	NA	NA	NA
Trans-1,2-Dichloroethene	100	1	4	NA	NA	NA	NA
Trichloroethene	5	0.26	4	NA	NA	NA	NA
Trichlorofluoromethane	9890	1	4	NA	NA	NA	NA
Vinyl Chloride	2	1	4	NA	NA	NA	NA
Xylene (Total)	10000	2	8	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		72	264	120	120	120	120
ANIONS (reported in mg/L)							
Chloride	250	3050	26300	**5600 J**	**5100 J**	**5300**	**4100**
Nitrate	10	16	95.4	**22 J**	**20 J**	**20**	**16**
Perchlorate [g]	0.018	2.9	3.6	**3 J**	**2.9 J**	**3.1**	**2.9 J**
Sulfate	250	1730	5850	**2600 J**	**2300 J**	**2300**	**2100**
GENERAL							
Fluoride	4	2	2	2 UJ	2 UJ	2	2 U
Nitrite	1	1	2	**2 UJ-**	**2 UJ- [f]**	**2 UJ-**	**2 U**
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		1.43	980	90.7 ± 29.1	30.8 ± 13.6	30.1 ± 14.6	54 ± 18.1
Adjusted Gross Alpha (Total) MCL [c]	15	34.16	1026.8	**39.7**	-17.6	-12.5	13.3
Beta (Total)	4	-8	390	**49.5 ± 28.1**	**37.7 ± 29.5 U**	**5.88 ± 20.5 U [f]**	**37.8 ± 27 U [f]**
Uranium 238		12.5	437	21.7 ± 3.88	20.1 ± 3.41	17 ± 2.88	16.7 ± 2.93
Uranium 234		21	565	28.4 ± 4.99	27 ± 4.54	24.4 ± 4.08	23 ± 3.97
Thorium 230		-0.0412	0.81	0.0246 ± 0.0606 U	0.0153 ± 0.0575 U	0.0204 ± 0.0583 U	-0.0238 ± 0.0649 U
Radium 226	5	-0.348	9.6	1.07 ± 0.417	1.38 ± 0.531	1.23 ± 0.503	1.4 ± 0.589
Radon 222	300	517	2080	**592 ± 77.2**	**924 ± 112**	**886 ± 108**	**1030 ± 123**
Lead 214		-40	132	40.7 ± 10.7 J-	3.51 ± 11.5 UJ-	1.62 ± 9.61 UJ-	9.42 ± 7.34 UJ-
Bismuth 214		-20	126	43.9 ± 11.6 J-	9.94 ± 12.8 UJ-	-0.695 ± 12.2 UJ-	6.29 ± 16.2 UJ-
Lead 210		-110	200	0.435 ± 0.573 U	0.345 ± 0.523 U	NA	NA
Thorium 232		-0.02	0.045	0.00412 ± 0.0209 U	0.00314 ± 0.0158 U	0.00237 ± 0.0164 U	0.0208 ± 0.028 U
Radium 228	5	-4.14	6.5	1.33 ± 0.559	0.967 ± 0.427	0.971 ± 0.481	0.742 ± 0.393
Radium MCL [d]	5	-0.75	16.1	2.4	2.35	2.2	2.14
Actinium-228		-65	36	3.95 ± 21.6 U	10.4 ± 12.7 U	2.97 ± 12.2 U	10.8 ± 22.4 U
Thorium 228		-0.0358	0.34	0.0142 ± 0.0603 U	0.0173 ± 0.0492 U	0.0311 ± 0.0517 U	0.0435 ± 0.0828 U
Lead 212		-23	10	3.01 ± 7.49 U	2.01 ± 7.39 U	7.29 ± 8.92 U	4.9 ± 8.27 U
Bismuth 212		-29.5	57.9	57.9 ± 32.3 J	17.9 ± 44.4 U	56.7 ± 42.4 U	6.46 ± 40.6 U
Thallium 208		-19	7.4	5.86 ± 2.78 J	3.97 ± 3 U	-1.12 ± 5.86 U	6.37 ± 3.3 J+

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-60	180	56.4 ± 77.6 U	14.8 ± 84.4 U	53.1 ± 73.8 U	-6.54 ± 80.4 U
Uranium 235		0.66	24.8	0.911 ± 0.368	1.32 ± 0.343	1.19 ± 0.316	1.02 ± 0.298
Polonium-210		-0.00185	0.306	0.306 ± 0.221	-0.00185 ± 0.0852 U	NA	NA
Protactinium-234		-326	612	446 ± 435 U	307 ± 522 U	-326 ± 545 U	-26.4 ± 535 U
Radium-224		-0.535	7.29	3.01 ± 7.49 U	2.01 ± 7.39 U	7.29 ± 8.92 U	4.9 ± 8.27 U
Thorium-227		-27.6	12	0.105 ± 23.4 U	4.86 ± 12.3 U	0.582 ± 18.5 U	4.41 ± 12.8 U
Thorium-234		-56.7	230	-2.1 ± 103 U	0.66 ± 49.9 U	-19.4 ± 84.5 U	-45.5 ± 85.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7380	40400	**14000**	**13000**	**12000**	**11000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.2	190	**180 J**	41 J-	23 U	**53 U**
Antimony	6	7.5	200	**7.5 J**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	60.6	237	**140**	**130**	**130**	**130 J+**
Barium	2000	19	5000	29 J-	26 J-	28 J-	27 J-
Beryllium	4	0.14	20	2 U	0.49 U	0.25 U	2 U
Cadmium	5	0.36	125	5 U	5 U	0.82 U	5 U
Calcium		315000	3370000	650000 J	520000 J	690000	480000 J
Chromium	100	43	1180	**300**	**260**	**260 J-**	**230 J-**
Chromium VI	100	330	390	**370 J-**	**360**	**340**	**330**
Cobalt	11	0.91	100	10 U	10 U	0.91 U	10 U
Copper	1300	2.5	100	10 U	10 U	10 U	10 U
Iron	300	2.8	2500	16 UJ	100 UJ	4.6 U	2.8 U
Lead	15	2	75	3 U	3 U	2.5 U	3 U
Lithium	73	480	750	**620**	**750 J+**	**590**	**550**
Magnesium		210000	2000000	280000 J	260000 J	240000	210000
Manganese	50	2.1	379	5.6 J-	2.5 UJ	3.4 U	2.1 U
Mercury	2	0.0082	0.2	0.2 U	0.2 U	0.033 J	0.015 J
Molybdenum	183	240	290	**290**	**280**	**260**	**240**
Nickel	730	1.3	20	1.7 J	2.1 U	3.2 U	1.8 J

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	15	200	**17 U [f]**	**15 U**	**200 U [f]**	**200 U [f]**
Potassium		21000	78000	55000 J+	55000 J+	55000 J+	49000 J+
Selenium	50	3.1	125	8.1	5 U	5.6	5.9
Silicon		32000	37000	36000	35000 J+	37000	32000
Silver	100	1.2	250	3.9 J	2.3 J	2.3 J-	2.3 J
Sodium		133000	10800000	3200000 J	2500000 J	3300000	3200000 J-
Thallium	2	0.062	78	0.085 U	0.064 U	0.068 U	0.093 U
Tin	21900	4.8	50	4.8 J	50 U	50 U	50 U
Titanium	146000	5.4	20	20 U	20 U	20 U	20 U
Uranium	30	36.5	1330	**72**	**56**	**53**	**49**
Vanadium	183	27.3	1250	39	33	33 J-	33
Zinc	5000	0.53	200	2.9 U	20 U	3.3 U	4 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	50	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	0.19	50	0.19 J	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.14	50	0.56 J	0.4 J	0.38 J	0.39 J
1,1-Dichloroethene	7	0.76	50	5	3.5	2.7	3.3
1,2-Dichloroethane	5	0.16	50	0.26 J	1 U	1 U	0.17 J
1,2-Dichloropropane	5	0.2	50	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	50	1 U	1 U	1 U	1 U
2-Butanone	21300	10	500	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	500	10 U	10 U	10 U	10 U
Acetone	32600	3	500	10 R	10 R	10 R	10 R
Benzene	5	1	50	1 U	1 U	1 U	1 U
Bromodichloromethane	80	1.3	50	2.9	1.8	1.7	1.6
Bromoform	80	0.44	68	0.99 J	0.75 J	0.92 J	0.44 J
Bromomethane	47.8	1	100	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	50	1 U	1 U	1 U	1 U

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	50	**7.5**	**7.4**	**5.9**	**6.2**
Chlorobenzene	100	1	50	1 U	1 U	1 U	1 U
Chloroform	80	150	2500	**2500**	**790**	**1000**	**1600**
Chloromethane	81.1	0.68	100	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	0.18	50	0.26 J	0.23 J	1 U	0.18 J
Dibromochloromethane	80	0.48	50	0.91 J	0.56 J	0.61 J	0.48 J
Ethylbenzene	700	1	50	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.28	50	0.52 J	1 U	0.28 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	50	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1.2	68	**12**	**11**	**9.5**	**12**
Toluene	1000	1	50	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	129	2504.8	**2500**	**790**	**1000**	**1600**
Trans-1,2-Dichloroethene	100	1	50	1 U	1 U	1 U	1 U
Trichloroethene	5	1	50	2.1	1.7	1.5	1.6
Trichlorofluoromethane	9890	1	50	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	50	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	100	2 U	2 U	2 U	2 U

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		58	290	250	290	280	230 J
ANIONS (reported in mg/L)							
Chloride	250	1800	11400	**2600 J**	**2600 J**	**2300**	**1800 J**
Nitrate	10	10	62.8	**12 J**	**11 J**	**12**	**13 J**
Perchlorate [g]	0.018	2.5	3.7	**3.1 J**	**3.1 J**	**2.8**	**2.5 J**
Sulfate	250	1700	2800	**2100 J**	**1900 J**	**1900**	**1700 J**
GENERAL							
Fluoride	4	3.7	5.5	**5.2 J**	**4.4 J**	**4.6**	3.7 J
Nitrite	1	1	1	1 U	1 UJ-	1 UJ-	1 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-18	10.2	10.2 ± 8.97 U	2.2 ± 6.19 U	0.567 ± 7.72 U	8.94 ± 6.85 U
Adjusted Gross Alpha (Total) MCL [c]	15	6.25	8.68	NA	NA	NA	NA
Beta (Total)	4	-12.3	37	-12.3 ± 14 U	**14 ± 12.3 U**	**6.49 ± 12.7 U** [f]	2.98 ± 11.1 U [f]
Uranium 238		2.5	3.69	3.69 ± 0.762	3.51 ± 0.754	2.5 ± 0.622	2.74 ± 0.577
Uranium 234		3	5	4.87 ± 0.962	4.58 ± 0.94	3.75 ± 0.85	4.31 ± 0.843
Thorium 230		-0.000354	0.0965	0.0241 ± 0.0634 U	-0.000354 ± 0.0556 U	0.0517 ± 0.056 U	0.0965 ± 0.081 U
Radium 226	5	0.0273	0.47	0.0273 ± 0.134 U	0.133 ± 0.18 U	0.438 ± 0.312	0.202 ± 0.256 U
Radon 222	300	752	836	**752 ± 95.2**	**767 ± 94.3**	**754 ± 93.2**	**772 ± 94**
Lead 214		0.244	55.6	55.6 ± 9.68 J-	4.51 ± 9.56 UJ-	0.244 ± 12.5 UJ-	13.2 ± 8.91 UJ-
Bismuth 214		5.35	52.1	52.1 ± 12.8 J-	8.42 ± 12.2 UJ-	5.35 ± 12.2 UJ-	13.4 ± 9.81 UJ-
Lead 210		0.433	0.819	0.645 ± 0.464 U	0.433 ± 0.428 U	NA	NA
Thorium 232		0.0019	0.03	0.0138 ± 0.026 U	0.013 ± 0.0161 U	0.00525 ± 0.0129 U	0.03 ± 0.0317 U
Radium 228	5	-0.28	0.59	0.145 ± 0.337 U	0.59 ± 0.36 U	-0.112 ± 0.331 U	-0.0392 ± 0.447 U
Radium MCL [d]	5	0.09	0.85	NA	NA	0.44	NA
Actinium-228		-9.47	22.3	-9.47 ± 21.3 U	17.3 ± 9.95 J	17.5 ± 11.6 U	22.3 ± 8.37 J+
Thorium 228		-0.0408	0.0278	-0.031 ± 0.0824 U	-0.00385 ± 0.044 U	0.0278 ± 0.0273 U	-0.0408 ± 0.0721 U
Lead 212		-2.07	6.62	2.53 ± 7.47 U	-2.07 ± 7.31 U	1.67 ± 9.06 U	1.8 ± 7.2 U
Bismuth 212		12.9	58.5	25.7 ± 44 U	12.9 ± 36.3 U	27.9 ± 41 U	31.2 ± 57.9 U
Thallium 208		3.06	5.48	5.3 ± 3.07 J	5.48 ± 2.73 J	4.72 ± 3.03 U	3.06 ± 4.9 U

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-7.25	219	35.6 ± 78.7 U	-7.25 ± 77.1 U	-3.28 ± 89.6 U	28.5 ± 68.1 U
Uranium 235		0.104	0.28	0.125 ± 0.0944	0.126 ± 0.115 U	0.104 ± 0.107 U	0.129 ± 0.0903
Polonium-210		0.25	0.384	0.384 ± 0.273	0.25 ± 0.17	NA	NA
Protactinium-234		191	348	348 ± 497 U	242 ± 408 U	305 ± 493 U	266 ± 444 U
Radium-224		-2.07	6.62	2.53 ± 7.47 U	-2.07 ± 7.31 U	1.67 ± 9.06 U	1.8 ± 7.2 U
Thorium-227		-15.3	7.63	7.63 ± 12.5 U	-1.26 ± 16.1 U	-3.69 ± 19.2 U	-8.16 ± 18.4 U
Thorium-234		2.57	78.2	2.57 ± 46.7 U	20.7 ± 77 U	62 ± 46.7 U	36.7 ± 78.3 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6340	17600	**7300 J**	**7700**	**7200**	**6400**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	590	**560 J**	**190 J-**	**490 U**	**590** [f]
Antimony	6	3.3	40	5.5 J	**20 U**	**20 U** [f]	**20 U** [f]
Arsenic	10	90.2	592	**470**	**470**	**470**	**340**
Barium	2000	8.8	2000	9.8 J	9.3 J-	10 J-	11 J-
Beryllium	4	0.081	10	**10 U** [f]	4 U	**4.5 U**	**5.8 J-** [f]
Cadmium	5	0.33	50	5 U	5 U	1.6 U	1.2 J
Calcium		30000	2500000	48000 J	36000 J	30000	120000 J
Chromium	100	175	1030	**490**	**500**	**480 J-**	**300**
Chromium VI	100	320	690	**440**	**630**	**690**	**320**
Cobalt	11	0.78	20	10 U	10 U	1.2 U	10 U
Copper	1300	0.79	20	10 U	10 U	0.79 U	10 U
Iron	300	2.4	1000	8.5 UJ	100 UJ	2.4 U	4.1 J-
Lead	15	1.1	30	3 U	3 U	1.1 U	3 U
Lithium	73	140	200	**160**	**190 J+**	**140**	**200**
Magnesium		7500	1290000	14000 J	12000 J	8600	31000 J
Manganese	50	11	90.6	15 J	13 J	14	12
Mercury	2	0.01	0.2	0.04 U	0.2 U	0.038 J	0.05 J
Molybdenum	183	300	350	**350**	**350**	**340**	**300**
Nickel	730	0.84	40	20 U	1.6 U	3 U	1.6 J

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	15	200	**200 U [f]**	**15 U**	**200 U [f]**	**200 U [f]**
Potassium		11000	15000	14000 J+	15000 J+	15000 J+	11000 J+
Selenium	50	4.8	50	16	16	17	11
Silicon		38000	39000	39000	38000 J+	39000	38000
Silver	100	0.76	100	10 U	10 U	1.2 J-	1.8 J
Sodium		450000	4120000	2400000 J	2000000 J	2400000	1500000 J
Thallium	2	0.051	41	0.095 U	0.095 U	0.082 U	0.092 U
Tin	21900	2.4	5.3	4.6 U	5.3 U	2.4 J	3.6 J
Titanium	146000	0.66	20	0.66 J-	0.76 J-	1.2 U	20 U
Uranium	30	6.7	114	9.1	11	9.1	8.2
Vanadium	183	30.2	12200	**11000**	**9100**	**11000 J-**	**12000**
Zinc	5000	1.3	54	20 U	2.6 U	4.1 U	5.4 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	50	2 U	1 U	1 U	5 U
1,1,2-Trichloroethane	5	1	50	2 U	1 U	1 U	5 U
1,1-Dichloroethane	11.8	0.19	50	0.61 J	0.41 J	0.37 J	5 U
1,1-Dichloroethene	7	0.57	50	0.87 J	0.73 J	0.58 J	1 J
1,2-Dichloroethane	5	0.19	50	2 U	0.19 J	0.21 J	5 U
1,2-Dichloropropane	5	0.22	50	0.34 J	0.27 J	0.26 J	5 U
1,3-Dichlorobenzene	110	1	50	2 U	1 U	1 U	5 U
2-Butanone	21300	10	500	20 U	10 U	10 U	50 U
4-Methyl-2-Pentanone	2900	10	500	20 U	10 UJ	10 U	50 U
Acetone	32600	3.9	500	20 R	10 R	10 R	50 R
Benzene	5	1	50	2 U	1 U	1 U	5 U
Bromodichloromethane	80	0.85	50	4.2	3.1	3	1.7 J
Bromoform	80	0.24	50	0.44 J	0.72 J	0.87 J	5 U
Bromomethane	47.8	1	100	2 U	1 U	1 U	5 U
Carbon Disulfide	3520	1	50	2 U	1 U	1 U	1.1 J

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	2.4	50	**17**	**15**	**13**	**7.7**
Chlorobenzene	100	1	50	2 U	1 U	1 U	5 U
Chloroform	80	290	1400	**1400**	**1000**	**1200**	**700**
Chloromethane	81.1	0.32	100	2 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	70	1	50	2 U	1 U	1 U	5 U
Dibromochloromethane	80	0.63	50	0.75 J	0.75 J	0.83 J	5 U
Ethylbenzene	700	1	50	2 U	1 U	1 U	5 U
Methylene Chloride	5	0.35	50	0.68 J	1 U	0.44 U	5 U
Naphthalene	4.29	1	5	2 U	1 U	1 U	**5 U**
Styrene	100	1	50	2 U	1 U	1 U	5 U
Tetrachloroethene	5	0.49	52	0.58 J	0.71 J	0.59 J	5 U
Toluene	1000	0.55	50	2 U	1 U	1 U	5 U
Total Trihalomethanes [e]	80	310	1405.39	**1400**	**1000**	**1200**	**700**
Trans-1,2-Dichloroethene	100	1	50	2 U	1 U	1 U	5 U
Trichloroethene	5	0.29	50	0.37 J	0.32 J	0.29 J	5 U
Trichlorofluoromethane	9890	1	50	2 U	1 U	1 U	5 U
Vinyl Chloride	2	1	50	2 U	1 U	1 U	**5 U**
Xylene (Total)	10000	2	100	4 U	2 U	2 U	10 U

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		88	230	89	94	88	98 J
ANIONS (reported in mg/L)							
Chloride	250	1090	2700	**1500 J**	**1700**	**2700**	**1600 J**
Nitrate	10	11	65	**13 J**	**11**	**13**	**11 J**
Perchlorate [g]	0.018	2	2.5	**2.5 J**	**2.4**	**2.3**	**2 J**
Sulfate	250	1400	2730	**1600 J**	**1500**	**1600**	**1400 J**
GENERAL							
Fluoride	4	0.88	1.4	1.4 J	0.88	1.2	1 J
Nitrite	1	0.5	1	0.5 U	0.5 U	1 UJ-	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		13.8	159	32.7 ± 8.49	26.5 ± 8.37	23.1 ± 10.3	13.8 ± 6.99
Adjusted Gross Alpha (Total) MCL [c]	15	26.39	120.43	-2.4	-10.2	-14.3	-17.9
Beta (Total)	4	16.7	83	**31.6 ± 9.19**	**37.4 ± 12.9**	**27.6 ± 15**	**21.1 ± 11.8**
Uranium 238		11	51	14.8 ± 2.6	15.8 ± 2.75	15.1 ± 2.63	13.2 ± 2.35
Uranium 234		15	66	19.8 ± 3.42	20.2 ± 3.48	21.4 ± 3.65	18 ± 3.14
Thorium 230		-0.0482	0.97	-0.00108 ± 0.056 U	0.0441 ± 0.0728 U	0.0369 ± 0.0615 U	0.0761 ± 0.0828 U
Radium 226	5	-0.7	2.67	1.08 ± 0.491	1.42 ± 0.525	0.504 ± 0.413 U	1.16 ± 0.546
Radon 222	300	931	2190	**1650 ± 196**	**1690 ± 199**	**1880 ± 222**	**1910 ± 222**
Lead 214		-33	439	439 ± 52.7 J-	8.2 ± 9.48 UJ-	6.81 ± 11 UJ-	23.1 ± 8.81 J-
Bismuth 214		-24	400	400 ± 48.9 J-	17.8 ± 13 UJ-	10.2 ± 11.9 UJ-	33.3 ± 10.6 J-
Lead 210		0.404	210	0.506 ± 0.456 U	0.522 ± 0.428 U	NA	NA
Thorium 232		-0.013	0.26	0.00552 ± 0.0208 U	0.00181 ± 0.0213 U	0.0117 ± 0.019 U	0.027 ± 0.0333 U
Radium 228	5	-3.98	1.68	0.402 ± 0.382 U	0.734 ± 0.372	0.587 ± 0.363 U	0.855 ± 0.527 U
Radium MCL [d]	5	0.02	3.99	1.08	2.15	NA	1.16
Actinium-228		-28	45	14.5 ± 11.7 UJ	18.4 ± 10.6 J	8.93 ± 11.4 U	11.9 ± 10.9 U
Thorium 228		-0.0338	0.47	-0.0187 ± 0.0624 U	-0.0188 ± 0.0679 U	0.0342 ± 0.0489 U	0.00358 ± 0.067 U
Lead 212		-32	6	2.68 ± 8.08 U	1 ± 7.23 U	2.51 ± 8.46 U	1.78 ± 7.42 U
Bismuth 212		-50	57.2	28.8 ± 37.6 U	-11.3 ± 39.5 U	33.8 ± 41.9 U	-8.22 ± 36.9 U
Thallium 208		-21	6.81	0.576 ± 5.72 U	3.04 ± 2.83 U	-1.57 ± 5.9 U	-0.105 ± 4.55 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-110	122	37.8 ± 78.1 U	53.1 ± 77.3 U	57.4 ± 68.4 U	39.6 ± 62.6 U
Uranium 235		-3.99	14.2	0.52 ± 0.201	0.713 ± 0.243	0.856 ± 0.265	0.494 ± 0.192
Polonium-210		0.0223	0.0999	0.0999 ± 0.128 U	0.0223 ± 0.0822 U	NA	NA
Protactinium-234		-467	621	232 ± 524 U	279 ± 509 U	-467 ± 881 U	376 ± 465 U
Radium-224		-3.14	3.14	2.68 ± 8.08 U	1 ± 7.23 U	2.51 ± 8.46 U	1.78 ± 7.42 U
Thorium-227		-15.2	6.98	0.421 ± 18.5 U	-1.26 ± 20.3 U	6.98 ± 13.1 U	-4.3 ± 19.6 U
Thorium-234		-48.7	53.9	5.8 ± 104 U	53.9 ± 72.7 U	37.8 ± 76.4 U	-48.7 ± 58.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4450	8560	**5100**	**5300**	**6400**	**5300**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	170	**110 J**	**100 U**	33 U [f]	45 U
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	48	318	**140**	**130**	**130**	**120 J+**
Barium	2000	13.5	1530	19 J-	18 J-	24 J-	20 J-
Beryllium	4	0.081	0.47	0.18 J	0.41 U	0.29 J	0.22 U
Cadmium	5	0.33	25	5 U	5 U	5 U	5 U
Calcium		540000	1150000	540000 J	580000	960000	730000 J
Chromium	100	39	321	67	59	60	61 J-
Chromium VI	100	59	86	81 J-	76	75	78
Cobalt	11	0.82	20	10 U	10 U	10 U	10 U
Copper	1300	1	20	10 U	10 U	10 U	10 U
Iron	300	2.7	91400	33 UJ	4.4 U	5.5 J-	2.7 U
Lead	15	1.8	45	3 U	2.5 U	3 U	3 U
Lithium	73	420	530	**490**	**530 J+**	**510**	**460**
Magnesium		260000	597000	280000 J	290000	390000	260000 J
Manganese	50	0.16	2080	0.98 J-	0.96 U	0.16 J-	0.41 U
Mercury	2	0.011	0.2	0.028 U	0.2 U	0.2 U	0.2 U
Molybdenum	183	52	67	65	67	63	58
Nickel	730	0.72	40	1.8 J	1.9 U	2.2 J-	2.7 J

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		18000	34000	28000 J+	29000 J+	34000 J+	28000 J+
Selenium	50	4	30.8	5.9	6.4	6	6.7
Silicon		40000	43000	42000	40000 J+	43000	40000
Silver	100	0.83	50	10 U	0.89 J	0.96 J	10 U
Sodium		450000	640000	460000 J	490000	640000	640000 J-
Thallium	2	0.02	200	0.026 U	0.036 U	0.034 U	0.063 U
Tin	21900	50	50	50 U	50 U	50 U	50 U
Titanium	146000	4.1	20	20 U	20 U	20 U	20 U
Uranium	30	38	160	**50**	**45**	**46**	**38**
Vanadium	183	24	357	89	84	80	88
Zinc	5000	0.36	36	20 U	20 U	1.4 U	1.1 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	10	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	10	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.25	10	0.4 J	0.28 J	0.31 J	0.25 J
1,1-Dichloroethene	7	2.7	8	3.9	2.8	2.7	2.8
1,2-Dichloroethane	5	0.16	10	0.22 J	1 U	0.24 J	0.21 J
1,2-Dichloropropane	5	0.14	10	0.18 J	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	10	1 U	1 U	1 U	1 U
2-Butanone	21300	10	40	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	40	10 U	10 U	10 U	10 U
Acetone	32600	3.5	40	10 R	10 R	10 R	10 R
Benzene	5	1	10	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.17	10	0.22 J	1 U	1 U	1 U
Bromoform	80	1	10	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	20	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	0.61	10	1 U	1 U	1 U	1 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.62	10	0.9 J	0.92 J	0.83 J	0.71 J
Chlorobenzene	100	1	10	1 U	1 U	1 U	1 U
Chloroform	80	40	88	69	52	58	48
Chloromethane	81.1	1	20	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	0.24	4	1 U	1 U	1 U	1 U
Dibromochloromethane	80	1	10	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	10	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.8	24	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	10	1 U	1 U	1 U	1 U
Tetrachloroethene	5	38	250	**59**	**51**	**42**	**38**
Toluene	1000	1	10	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	48	103	69	52	58	48
Trans-1,2-Dichloroethene	100	1	4	1 U	1 U	1 U	1 U
Trichloroethene	5	0.95	15	1.4	1.2	1.2	0.95 J
Trichlorofluoromethane	9890	1	4	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	20	2 U	2 U	2 U	2 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		66	116	88	92	100 J	110
ANIONS (reported in mg/L)							
Chloride	250	543	3300	**1500**	**1500**	**1600 J**	**1400**
Nitrate	10	21.4	66.7	**42**	**40**	**43 J**	**37**
Perchlorate [g]	0.018	0.75	0.84	**0.8**	**0.75**	**0.78 J**	**0.78 J**
Sulfate	250	851	2690	**2000**	**1900**	**2100 J**	**1700**
GENERAL							
Fluoride	4	0.94	1.6	1.6	0.94	1 UJ	1.1
Nitrite	1	0.5	1	0.5 U	0.5 U	1 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		15	78.7	36.9 ± 9.77	33.8 ± 9.89	46.1 ± 10.5	78.7 ± 15.8
Adjusted Gross Alpha (Total) MCL [c]	15	22.26	92	-19.9	-25.4	-12.9	**18.5**
Beta (Total)	4	14.2	34	**16.2 ± 12.9 U [f]**	**26 ± 12.5**	**32.8 ± 8.42**	**14.2 ± 8.16**
Uranium 238		9.7	39	24 ± 4.07	24.9 ± 4.22	25.4 ± 4.58	24.6 ± 4.26
Uranium 234		12	51	31.7 ± 5.34	32.9 ± 5.54	32 ± 5.72	34.2 ± 5.87
Thorium 230		0.0106	0.0797	0.0189 ± 0.0523 U	0.0797 ± 0.0786 U	0.0106 ± 0.0554 U	0.0697 ± 0.0734 U
Radium 226	5	-0.41	1.02	0.52 ± 0.271	0.481 ± 0.285	0.708 ± 0.347	0.202 ± 0.439 U
Radon 222	300	1360	1920	**1730 ± 205**	**1610 ± 190**	**1920 ± 224**	**1360 ± 160**
Lead 214		3.81	26.6	26.6 ± 9.89 J-	16.4 ± 7.66 J	3.81 ± 7.97 UJ-	6.81 ± 10.3 UJ-
Bismuth 214		-24.9	25	25 ± 13.3 J-	17.7 ± 9.5 J-	2.94 ± 13.7 UJ-	9.19 ± 12 UJ-
Lead 210		0.254	0.914	0.672 ± 0.468 U	0.254 ± 0.414 U	NA	NA
Thorium 232		-0.0113	0.0127	0.0127 ± 0.016	-0.0113 ± 0.0203 U	0.00405 ± 0.0154 U	0.00619 ± 0.0224 U
Radium 228	5	0.382	1.22	0.382 ± 0.335 U	0.729 ± 0.388	0.799 ± 0.421	0.39 ± 0.399 U
Radium MCL [d]	5	0.4	2.24	0.52	1.21	1.51	NA
Actinium-228		-4.57	22.2	-4.57 ± 23.6 U	12 ± 8.24 U	22.2 ± 10.7 J+	19.5 ± 11.4 J+
Thorium 228		-0.00689	0.0466	0.0466 ± 0.057 U	-0.00423 ± 0.0636 U	0.00801 ± 0.023 U	-0.00689 ± 0.0385 U
Lead 212		-2.14	0.971	0.971 ± 8.67 U	-2.14 ± 6.15 U	0.712 ± 7.22 U	0.118 ± 6.99 U
Bismuth 212		-8.93	34.4	4.47 ± 44.4 U	-8.93 ± 34.1 U	18.9 ± 37.4 U	34.4 ± 40.2 U
Thallium 208		0.192	4.9	4.64 ± 3.04 U	4.9 ± 2.4 J	0.192 ± 5.45 U	0.665 ± 6.08 U

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-22.2	27	-22.2 ± 82.8 U	27 ± 63.3 U	2.35 ± 66.9 U	-7.07 ± 71.2 U
Uranium 235		0.56	2	1.14 ± 0.315	1.39 ± 0.363	1.56 ± 0.458	1.36 ± 0.369
Polonium-210		0.0313	0.101	0.101 ± 0.153 U	0.0313 ± 0.0903 U	NA	NA
Protactinium-234		-8.4	505	254 ± 507 U	505 ± 395 U	266 ± 417 U	-8.4 ± 495 U
Radium-224		-2.14	0.971	0.971 ± 8.67 U	-2.14 ± 6.15 U	0.712 ± 7.22 U	0.118 ± 6.99 U
Thorium-227		-7.81	7.1	-7.81 ± 17.5 U	-2.59 ± 14.6 U	-4.4 ± 19.4 U	3.9 ± 20.2 U
Thorium-234		-39.4	23	-39.4 ± 47.4 U	23 ± 40.8 U	14.7 ± 93.7 U	14.8 ± 74.2 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4100	9100	**5800**	**6000**	**5700**	**5600**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.5	170	**100**	16 J-	**53 UJ**	35 U
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	96	156	**130**	**130**	**130**	**120 J+**
Barium	2000	14	237	16 J-	14 J-	17 J-	15 J-
Beryllium	4	0.081	0.72	0.22 J	0.57 U	0.57 U	0.14 U
Cadmium	5	0.33	25	5 U	5 U	5 U	5 U
Calcium		590000	1100000	730000	660000	640000 J	650000 J
Chromium	100	40	81.9	42	41	50 J-	46
Chromium VI	100	46	62	50 J-	53	61	62
Cobalt	11	1.9	10	3.5 J	3.1 J-	3.1 U	1.9 J
Copper	1300	1	20	10 U	10 U	10 U	10 U
Iron	300	2	9230	6.4 U	100 U	2 UJ	100 U
Lead	15	0.96	9	3 U	3 U	2.4 U	3 U
Lithium	73	580	650	**590**	**640 J+**	**580**	**580**
Magnesium		270000	480000	320000	310000	300000 J	270000
Manganese	50	0.2	178	0.38 J-	0.42 U	1.9 UJ	0.34 U
Mercury	2	0.0042	0.2	0.2 U	0.2 U	0.022 J	0.01 J
Molybdenum	183	24	32	32	30	30	26
Nickel	730	1.2	8.8	2.4 J	2 U	4.1 U	2.4 J

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		18000	30000	20000 J+	20000 J+	22000 J+	20000 J+
Selenium	50	4.2	15.4	5 U	5 U	6.2	4.8 J
Silicon		37000	42000	41000	39000 J+	42000	37000
Silver	100	0.61	50	10 U	1.2 J	10 U	10 U
Sodium		400000	729000	470000	460000	400000 J	470000 J-
Thallium	2	0.025	200	0.044 U	0.037 U	0.025 U	0.056 U
Tin	21900	2.3	50	3.1 J	12 U	2.3 J	50 U
Titanium	146000	8.5	20	20 U	20 U	20 U	20 U
Uranium	30	33	115	**85**	**79**	**79**	**81**
Vanadium	183	31	74.6	52	47	49 J-	44
Zinc	5000	0.99	57	20 U	20 U	3.5 U	1.4 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.23	5	0.34 J	0.23 J	0.36 J	0.36 J
1,1-Dichloroethene	7	0.41	5	0.57 J	0.41 J	0.82 J	0.57 J
1,2-Dichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	50	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	50	10 U	10 U	10 U	10 U
Acetone	32600	2	50	10 R	10 R	10 R	10 R
Benzene	5	0.068	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.13	5	1 U	1 U	1 U	1 U
Bromoform	80	1	5	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	10	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	5	1 U	1 U	1 U	1 U

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1.3	3.6	1.7	1.5	1.7	1.3
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	41	140	59	46	55	41
Chloromethane	81.1	0.46	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	0.17	5	1 U	1 U	0.17 J	1 U
Dibromochloromethane	80	1	5	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	5	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	5	170	**83**	**76**	**89**	**77**
Toluene	1000	0.17	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	41	145	59	46	55	41
Trans-1,2-Dichloroethene	100	1	5	1 U	1 U	1 U	1 U
Trichloroethene	5	6.4	18	**9.2**	**7**	**8.6**	**6.4**
Trichlorofluoromethane	9890	1	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	130	110	130	120 J	130
ANIONS (reported in mg/L)							
Chloride	250	950	1300	**980 J**	**1100 J**	**1100 J**	**950**
Nitrate	10	10	15	**11 J**	**11 J**	**11 J**	10
Perchlorate [g]	0.018	1.2	1.9	**1.6 J**	**1.3 J**	**1.4 J**	**1.2**
Sulfate	250	2200	2800	**2300 J**	**2500 J**	**2600 J**	**2200**
GENERAL							
Fluoride	4	0.72	1.5	1.5 J	1.3 J	0.72 J	0.88
Nitrite	1	0.5	1	1 U	0.5 UJ-	0.5 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		2.03	37	21.5 ± 8.48	NA	27.2 ± 9.5	NA
Adjusted Gross Alpha (Total) MCL [c]	15	27.71	42.87	-16.6	NA	-11.3	NA
Beta (Total)	4	0.757	39.2	**10.6 ± 11.8 U [f]**	NA	**21.8 ± 13.8**	NA
Uranium 238		15.9	17.6	16.1 ± 2.8	NA	16.2 ± 2.8	NA
Uranium 234		20.9	23.9	20.9 ± 3.59	NA	21.5 ± 3.65	NA
Thorium 230		-0.0709	0.0654	-0.0172 ± 0.0539 U	NA	0.0654 ± 0.073 U	NA
Radium 226	5	0.282	0.983	0.983 ± 0.597	NA	0.491 ± 0.418 U	NA
Radon 222	300	76	3590	**1560 ± 185**	76 ± 22.1	**467 ± 63**	135 ± 25.3
Lead 214		-0.931	498	218 ± 28.1 J	NA	1.96 ± 11.1 UJ-	NA
Bismuth 214		-4.8	404	195 ± 49 J-	NA	4.62 ± 10.8 UJ-	NA
Lead 210		0.573	1.12	0.879 ± 0.518	NA	NA	NA
Thorium 232		-0.0158	0.0122	-0.00672 ± 0.0229 U	NA	-0.00227 ± 0.0203 U	NA
Radium 228	5	-2.33	1.35	0.782 ± 0.442	NA	0.206 ± 0.32 U	NA
Radium MCL [d]	5	0.59	1.82	1.76	NA	NA	NA
Actinium-228		-2.33	17.6	5.04 ± 13.7 U	NA	17.2 ± 10.2 J+	NA
Thorium 228		-0.0106	0.121	0.00227 ± 0.0622 U	NA	-0.00576 ± 0.0274 U	NA
Lead 212		-2.42	9.67	2.66 ± 7.37 U	NA	-1.64 ± 7.71 U	NA
Bismuth 212		-8.8	69.8	-8.8 ± 45 U	NA	33.2 ± 26.9 U	NA
Thallium 208		-2.29	6.28	4.63 ± 3.36 U	NA	2.36 ± 5.56 U	NA

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-2.13	322	16.8 ± 75.4 U	NA	34.5 ± 70.6 U	NA
Uranium 235		-12.4	20.3	1.08 ± 0.311	NA	0.767 ± 0.245	NA
Polonium-210		0.409	0.409	0.409 ± 0.287	NA	NA	NA
Protactinium-234		-239	506	361 ± 574 U	NA	385 ± 448 U	NA
Radium-224		-1.64	9.67	2.66 ± 7.37 U	NA	-1.64 ± 7.71 U	NA
Thorium-227		-23.4	11	-1.04 ± 14.2 U	NA	-6.02 ± 18.3 U	NA
Thorium-234		-24.2	109	-16.2 ± 46 U	NA	-24.2 ± 87.5 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5100	6400	**5400**	**5500**	**5100**	**5200**
TOTAL METAL (reported in ug/L)							
Aluminum	50	26	900	**67 UJ**	**640 J**	**77 UJ**	**900**
Antimony	6	20	20	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	29	64	**61**	**58**	**63**	**64**
Barium	2000	25	44	28 J	36 J-	27 J-	44 U
Beryllium	4	0.22	2	0.25 U	0.68 U	2 U	0.34 U
Cadmium	5	0.74	5	5 U	0.83 U	5 U	0.91 U
Calcium		470000	630000	500000 J	470000 J	520000 J	490000
Chromium	100	31	47	40	38	34	35
Chromium VI	100	20	44	44	36	40	40
Cobalt	11	1.5	10	10 U	1.5 J-	10 U	3.3 U
Copper	1300	3.3	10	10 U	10 U	10 U	3.3 U
Iron	300	11	710	11 J-	**530 J**	34 J-	**710**
Lead	15	2.9	6	3 U	2.9 U	3 U	3 U
Lithium	73	220	300	**280**	**300 J+**	**270**	**270**
Magnesium		240000	280000	240000 J	240000 J	240000 J	240000
Manganese	50	0.72	120	6.3 J	**90 J**	13 J	**120**
Mercury	2	0.0088	0.2	0.2 U	0.025 J-	0.037 U	0.012 J
Molybdenum	183	46	51	48	48	51	51
Nickel	730	0.83	9.9	1.2 J	9.7 U	1.7 J-	6.3 U

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	9.1	200	**9.1 U [f]**	**24 U**	**200 U [f]**	**31 U [f]**
Potassium		15000	19000	17000 J+	17000 J+	18000 J+	18000 J+
Selenium	50	5.2	13	8.7	5.2	9.4	8.2
Silicon		28000	32000	28000	28000 J+	30000	32000
Silver	100	0.61	10	10 U	2.3 J	10 U	10 U
Sodium		560000	690000	570000 J	560000 J	600000 J	600000
Thallium	2	0.011	200	0.052 U	0.026 U	0.2 U	0.011 U
Tin	21900	3.7	50	50 U	6.2 U	50 U	3.7 J
Titanium	146000	3.2	40	20 U	29	20 U	40
Uranium	30	47	57	**53**	**47**	**49**	**48**
Vanadium	183	21	34	28	28	29	34
Zinc	5000	1.6	21	2.1 U	5.1 U	4.6 U	21
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.18	1	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	0.51	2.6	0.51 J	1 U	1 U	1 U
1,2-Dichloroethane	5	1	1	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	1	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	1	1 U	1 U	1 U	1 U
2-Butanone	21300	10	10	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	10 U	10 U	10 U	10 U
Acetone	32600	3.1	10	10 R	10 R	10 R	10 U
Benzene	5	1	1	1 U	1 U	1 U	1 U
Bromodichloromethane	80	1	1	1 U	1 U	1 U	1 U
Bromoform	80	1	1	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	1	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	0.2	1.1	1 U	1 U	1.1	0.2 J

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.35	1	0.81 J	0.35 J	0.8 J	0.51 J
Chlorobenzene	100	1	1	1 U	1 U	1 U	1 U
Chloroform	80	8.6	25	18	8.6	15	11 U
Chloromethane	81.1	1	1	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	1 U	1 U
Dibromochloromethane	80	1	1	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	1	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	1	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	1	1 U	1 U	1 U	1 U
Tetrachloroethene	5	5	20	**14**	5	**9.1**	**7.7**
Toluene	1000	0.31	1	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	8.6	27	18	8.6	16	NA
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	1 U	1 U
Trichloroethene	5	0.35	1	0.71 J	0.35 J	0.63 J	0.49 J
Trichlorofluoromethane	9890	1	1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	1	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	2	2 U	2 U	2 U	2 U

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		99	480	110	120	110	120
ANIONS (reported in mg/L)							
Chloride	250	184	6300	**4000**	**4400 J**	**6000**	**5400 J**
Nitrate	10	13.1	54	**17**	**18 J**	**30**	**45 J**
Perchlorate [g]	0.018	2.3	3.5	**2.5**	**2.8 J**	**3.2**	**2.5 J**
Sulfate	250	1850	4020	**2100**	**2000 J**	**2200**	**2200 J**
GENERAL							
Fluoride	4	0.29	4.5	1.6	**4.5 J**	2.8	1.3 J
Nitrite	1	1	2	1 UJ-	**2 UJ- [f]**	**2 UJ-**	1 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		18.1	164	53.3 ± 19.7	22.6 ± 8.18	29.5 ± 14.4	31.3 ± 15.7
Adjusted Gross Alpha (Total) MCL [c]	15	34.66	147.9	13.4	-20.2	-5.2	-9.3
Beta (Total)	4	6.02	94	**35 ± 15.9**	**42.6 ± 13.9**	**36.1 ± 20.3**	**15.7 ± 22.9 U**
Uranium 238		13.9	59	15.9 ± 2.73	17.4 ± 2.96	13.9 ± 2.55	15.6 ± 2.72
Uranium 234		20.1	84	23.2 ± 3.93	24.5 ± 4.1	20.1 ± 3.62	24.2 ± 4.13
Thorium 230		-0.0679	4.46	0.0243 ± 0.0609 U	-0.0366 ± 0.0534 U	0.0194 ± 0.0586 U	-0.0391 ± 0.0597 U
Radium 226	5	0.269	4	0.322 ± 0.315 U	0.269 ± 0.282 U	0.922 ± 0.511	0.565 ± 0.33
Radon 222	300	1280	2390	**2010 ± 235**	**2030 ± 237**	**2190 ± 255**	**1990 ± 1050**
Lead 214		-39	213	16.8 ± 9.07 UJ-	4.92 ± 7.64 UJ-	-2.42 ± 11.1 UJ-	21.3 ± 12.2 J-
Bismuth 214		-13	185	17.1 ± 13.8 UJ-	5.3 ± 14.6 UJ-	-1.36 ± 11.1 UJ-	22.8 ± 9.78 J-
Lead 210		0.12	670	0.643 ± 0.511 U	0.273 ± 0.559 U	NA	NA
Thorium 232		-0.00286	0.85	0.00304 ± 0.0197 U	0 ± 0.0165 U	0.013 ± 0.0166	0.00522 ± 0.027 U
Radium 228	5	-1	1.94	0.964 ± 0.527	1.19 ± 0.491	0.559 ± 0.391 U	0.917 ± 0.521
Radium MCL [d]	5	0.46	4.21	0.96	1.19	0.92	1.48
Actinium-228		-35	27.2	11.6 ± 11.3 U	4.68 ± 18.3 U	10.9 ± 10.2 U	15.2 ± 11.1 U
Thorium 228		-0.0543	1.24	-0.00697 ± 0.054 U	-0.032 ± 0.0598 U	0.0178 ± 0.0296 U	0.00675 ± 0.0658 U
Lead 212		-34	15.4	-0.707 ± 8.86 U	-0.752 ± 6.58 U	-0.617 ± 7.93 U	3.67 ± 4.62 U
Bismuth 212		-27	110	28 ± 32.5 U	7.15 ± 33.5 U	-2.84 ± 37.6 U	15.1 ± 42.6 U
Thallium 208		-6	6.71	0.322 ± 5.69 U	-1.54 ± 4.71 U	5.75 ± 2.78 J+	6.71 ± 3.11 J+

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-140	237	0.207 ± 76.5 U	24.3 ± 63.7 U	16 ± 71.6 U	1.97 ± 93.3 U
Uranium 235		-1.88	15.2	0.843 ± 0.259	0.892 ± 0.258	0.663 ± 0.259	0.763 ± 0.24
Polonium-210		-0.025	0.408	0.408 ± 0.239	-0.025 ± 0.0794 U	NA	NA
Protactinium-234		11.4	538	26.6 ± 466 U	274 ± 402 U	269 ± 451 U	16.9 ± 488 U
Radium-224		-3.82	3.67	-0.707 ± 8.86 U	-0.752 ± 6.58 U	-0.617 ± 7.93 U	3.67 ± 4.62 U
Thorium-227		-15.1	15.7	-2 ± 12.4 U	-3.99 ± 14 U	-2.44 ± 18.1 U	-12.5 ± 14.3 U
Thorium-234		-16.9	248	-13.9 ± 79.8 U	38.3 ± 41.2 U	68.5 ± 92.4 U	11.6 ± 87.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5810	14000	**10000**	**11000**	**14000**	**13000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	27	140	**140**	44 J-	29 U	**53 U**
Antimony	6	6.4	100	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	93.8	226	**130**	**130**	**130**	**120 J+**
Barium	2000	20	1000	24 J-	23 J-	32 J-	30 J-
Beryllium	4	0.12	0.74	0.23 J	0.64 U	0.44 U	0.2 U
Cadmium	5	0.5	25	5 U	5 U	0.76 U	5 U
Calcium		640000	1300000	750000	640000 J	1200000	1300000 J
Chromium	100	87	290	**200**	**220**	**280 J-**	**280 J-**
Chromium VI	100	220	400	**240 J-**	**300**	**390**	**400**
Cobalt	11	0.71	50	10 U	10 U	0.71 U	10 U
Copper	1300	1.5	50	10 U	10 U	10 U	10 U
Iron	300	1.5	26500	41 U	4 UJ	1.5 U	3.1 U
Lead	15	1.2	17.6	3 U	3 U	1.6 U	3 U
Lithium	73	600	770	**600**	**770 J+**	**700**	**650**
Magnesium		240000	415000	290000	310000 J	410000	370000 J
Manganese	50	1.3	491	2.3 J-	1.4 UJ	3.3 U	1.3 U
Mercury	2	0.011	0.31	0.2 U	0.2 U	0.025 J	0.013 J
Molybdenum	183	310	500	**310**	**310**	**360**	**500**
Nickel	730	0.72	100	2.7 J	2.1 U	3.2 U	1.3 J

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		29000	47000	35000 J+	39000 J+	47000 J+	45000 J+
Selenium	50	5	30.8	5 U	5 U	7.1	8.4
Silicon		38000	43000	43000	41000 J+	43000	38000
Silver	100	2.2	50	3.9 J	3.6 J	6.2 J-	4.7 J
Sodium		700000	3000000	2000000	1800000 J	2800000	3000000 J-
Thallium	2	0.017	200	0.2 U	0.017 U	0.2 U	0.098 U
Tin	21900	2.8	50	50 U	9.5 U	2.8 J	50 U
Titanium	146000	20	20	20 U	20 U	20 U	20 U
Uranium	30	39.3	180	**54**	**52**	**48**	**50**
Vanadium	183	39	143	54	50	48 J-	47
Zinc	5000	0.35	20	0.95 U	20 U	2.6 U	1.7 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	25	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	25	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.17	25	0.19 J	1 U	1 U	1 U
1,1-Dichloroethene	7	0.41	25	1.1	0.89 J	1 U	0.49 J
1,2-Dichloroethane	5	0.27	25	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	0.14	25	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	25	1 U	1 U	1 U	1 U
2-Butanone	21300	10	250	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	250	10 U	10 U	10 U	10 U
Acetone	32600	3	250	10 R	10 R	10 R	10 R
Benzene	5	1	25	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.17	25	0.23 J	0.17 J	0.17 J	0.21 J
Bromoform	80	0.15	25	1 U	0.17 J	1.6	1.1
Bromomethane	47.8	1	50	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	25	1 U	1 U	1 U	1 U

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	25	3.5	4.1	4	2.9
Chlorobenzene	100	0.83	25	1 U	1 U	1 U	1 U
Chloroform	80	180	930	**670**	**570**	**930**	**360**
Chloromethane	81.1	1	50	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	25	1 U	1 U	1 U	1 U
Dibromochloromethane	80	0.44	25	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	25	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.83	31	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	25	1 U	1 U	1 U	1 U
Tetrachloroethene	5	3.6	24	**5.3**	3.9	3.8	3.6
Toluene	1000	1	25	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	195	931.77	**670**	**570**	**930**	**360**
Trans-1,2-Dichloroethene	100	1	25	1 U	1 U	1 U	1 U
Trichloroethene	5	0.3	25	0.38 J	0.32 J	0.3 J	0.31 J
Trichlorofluoromethane	9890	1	25	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	25	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	50	2 U	2 U	2 U	2 U

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		92	131	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	250	690	1230	NA	NA	NA	NA
Nitrate	10	2	14.8	NA	NA	NA	NA
Perchlorate [g]	0.018			NA	NA	NA	NA
Sulfate	250	2230	3140	NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		24	24	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	46.44	46.44	NA	NA	NA	NA
Beta (Total)	4	26	26	NA	NA	NA	NA
Uranium 238		19.3	19.3	NA	NA	NA	NA
Uranium 234		25.5	25.5	NA	NA	NA	NA
Thorium 230				NA	NA	NA	NA
Radium 226	5	0.79	0.79	NA	NA	NA	NA
Radon 222	300	43.4	43.4	NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232				NA	NA	NA	NA
Radium 228	5	0.33	0.33	NA	NA	NA	NA
Radium MCL [d]	5	1.12	1.12	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228				NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235		1.64	1.64	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5300	6440	NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	94	NA	NA	NA	NA
Antimony	6	20	40	NA	NA	NA	NA
Arsenic	10	114	148	NA	NA	NA	NA
Barium	2000	8.5	47.5	NA	NA	NA	NA
Beryllium	4	0.27	0.35	NA	NA	NA	NA
Cadmium	5	5	10	NA	NA	NA	NA
Calcium		466000	580000	NA	NA	NA	NA
Chromium	100	31	95.8	NA	NA	NA	NA
Chromium VI	100			NA	NA	NA	NA
Cobalt	11	10	20	NA	NA	NA	NA
Copper	1300	4.5	20	NA	NA	NA	NA
Iron	300	37	4720	NA	NA	NA	NA
Lead	15	3	9.7	NA	NA	NA	NA
Lithium	73	130	130	NA	NA	NA	NA
Magnesium		170000	281000	NA	NA	NA	NA
Manganese	50	6.2	238	NA	NA	NA	NA
Mercury	2	0.0048	0.2	NA	NA	NA	NA
Molybdenum	183	51	51	NA	NA	NA	NA
Nickel	730	2.2	4.5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73			NA	NA	NA	NA
Potassium		14000	15000	NA	NA	NA	NA
Selenium	50	4.6	10	NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100	10	20	NA	NA	NA	NA
Sodium		550000	1060000	NA	NA	NA	NA
Thallium	2	0.029	200	NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000	10	10	NA	NA	NA	NA
Uranium	30	41	70	NA	NA	NA	NA
Vanadium	183	57	66	NA	NA	NA	NA
Zinc	5000	1.2	73	NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	NA	NA	NA	NA
1,1,2-Trichloroethane	5	1	5	NA	NA	NA	NA
1,1-Dichloroethane	11.8	1	5	NA	NA	NA	NA
1,1-Dichloroethene	7	1	5	NA	NA	NA	NA
1,2-Dichloroethane	5	1	5	NA	NA	NA	NA
1,2-Dichloropropane	5	1	5	NA	NA	NA	NA
1,3-Dichlorobenzene	110	1	5	NA	NA	NA	NA
2-Butanone	21300	10	13	NA	NA	NA	NA
4-Methyl-2-Pentanone	2900	10	20	NA	NA	NA	NA
Acetone	32600	10	20	NA	NA	NA	NA
Benzene	5	1	5	NA	NA	NA	NA
Bromodichloromethane	80	1	5	NA	NA	NA	NA
Bromoform	80	1	5	NA	NA	NA	NA
Bromomethane	47.8	1	10	NA	NA	NA	NA
Carbon Disulfide	3520	1	5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.27	5	NA	NA	NA	NA
Chlorobenzene	100	1	5	NA	NA	NA	NA
Chloroform	80	5.5	7.4	NA	NA	NA	NA
Chloromethane	81.1	1	10	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	1	1	NA	NA	NA	NA
Dibromochloromethane	80	1	5	NA	NA	NA	NA
Ethylbenzene	700	1	5	NA	NA	NA	NA
Methylene Chloride	5	1	5	NA	NA	NA	NA
Naphthalene	4.29			NA	NA	NA	NA
Styrene	100	1	5	NA	NA	NA	NA
Tetrachloroethene	5	0.97	1.9	NA	NA	NA	NA
Toluene	1000	0.44	5	NA	NA	NA	NA
Total Trihalomethanes [e]	80	5.5	22.4	NA	NA	NA	NA
Trans-1,2-Dichloroethene	100	1	1	NA	NA	NA	NA
Trichloroethene	5	1	5	NA	NA	NA	NA
Trichlorofluoromethane	9890	1	1	NA	NA	NA	NA
Vinyl Chloride	2	1	10	NA	NA	NA	NA
Xylene (Total)	10000	2	5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		82	140	120	140	130	130
ANIONS (reported in mg/L)							
Chloride	250	204	1770	**1500**	**1500**	**1500**	**1300**
Nitrate	10	7.8	85.5	**59**	**57**	**64**	**54**
Perchlorate [g]	0.018	0.65	1	**0.74**	**0.78**	**0.76**	**0.71**
Sulfate	250	1010	2530	**1800**	**1700**	**1800**	**1600**
GENERAL							
Fluoride	4	0.62	1	0.9	1 U	0.62	0.77
Nitrite	1	0.5	1	0.5 UJ-	1 UJ-	0.5 UJ-	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		50	164	103 ± 20.7	76.4 ± 16.2	54.8 ± 13.1	127 ± 23.2
Adjusted Gross Alpha (Total) MCL [c]	15	49.9	145.8	-19.9	-50.9	-65.3	10
Beta (Total)	4	15.4	62.2	**52.4 ± 16**	**48.6 ± 14.6**	**40.3 ± 13.9**	**30.2 ± 10.4**
Uranium 238		20.3	63	49.5 ± 8.33	51.7 ± 8.56	48.6 ± 8.72	47.9 ± 8.14
Uranium 234		28.7	79	71 ± 11.9	73.3 ± 12.1	68.8 ± 12.3	66.9 ± 11.3
Thorium 230		-0.0147	1	0.024 ± 0.0617 U	0.101 ± 0.0715 U	0.0952 ± 0.0682 U	0.0441 ± 0.0813 U
Radium 226	5	-0.155	1.53	0.411 ± 0.247	1.15 ± 0.464	0.399 ± 0.279	0.443 ± 0.28
Radon 222	300	561	1370	**1050 ± 127**	**1060 ± 127**	**1010 ± 121**	**1160 ± 137**
Lead 214		-24	97.9	8.35 ± 10.3 UJ-	10.3 ± 5.3 J-	-2.55 ± 9.5 UJ-	14.9 ± 12 UJ-
Bismuth 214		-20	91.2	9.97 ± 12.9 UJ-	0.385 ± 13.2 UJ-	9.45 ± 6.42 UJ-	17.4 ± 10.3 UJ-
Lead 210		-90	205	0.468 ± 0.453 U	1.27 ± 0.55	NA	NA
Thorium 232		-0.036	0.22	0.00937 ± 0.029 U	0.0401 ± 0.0316 U	0.00826 ± 0.0157 U	0.00625 ± 0.0323 U
Radium 228	5	0.19	1.19	0.82 ± 0.48	1.19 ± 0.473	0.593 ± 0.436 U	1.04 ± 0.535
Radium MCL [d]	5	0.4	2.34	1.23	2.34	0.4	1.48
Actinium-228		-25	21	11.6 ± 9.26 U	18 ± 10.7 J	-1.5 ± 20 U	15.5 ± 8.84 U
Thorium 228		-0.0159	0.38	0.0248 ± 0.0633 U	0.0365 ± 0.0664 U	0.0128 ± 0.0269 U	0.00897 ± 0.0813 U
Lead 212		-34	9	0.301 ± 8.64 U	2.97 ± 6.98 U	0.223 ± 8.66 U	1.61 ± 8.62 U
Bismuth 212		-60	44.8	36.5 ± 41.8 U	-3.94 ± 40.5 U	10.1 ± 40.3 U	31.4 ± 28.9 U
Thallium 208		-10.6	4.97	2.72 ± 2.95 U	4.97 ± 5.58 U	4.06 ± 3.24 U	3.34 ± 3.04 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-59	110	-3.86 ± 81.9 U	11.4 ± 78.9 U	34.6 ± 72.3 U	8.21 ± 92.6 U
Uranium 235		-14.8	17	2.44 ± 0.557	2.26 ± 0.51	2.74 ± 0.706	2.21 ± 0.52
Polonium-210		0.172	0.248	0.172 ± 0.182 U	0.248 ± 0.197 U	NA	NA
Protactinium-234		-188	819	334 ± 515 U	819 ± 489 J	170 ± 519 U	275 ± 496 U
Radium-224		-2.08	6.41	0.301 ± 8.64 U	2.97 ± 6.98 U	0.223 ± 8.66 U	1.61 ± 8.62 U
Thorium-227		-14.3	14.4	4.16 ± 17.2 U	-4.4 ± 20.5 U	-10.1 ± 13.1 U	8.35 ± 18.9 U
Thorium-234		-28.7	73.9	-28.7 ± 47.2 U	37.1 ± 71.9 U	-5.96 ± 84.2 U	73 ± 48.9 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2000	6000	**5000**	**5900**	**5800**	**5100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	29	530	**340**	**530**	**110**	38 J-
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	100	171	**100**	**110**	**110**	**100**
Barium	2000	12	68.1	28 J-	27 J-	27 J-	24 U
Beryllium	4	0.081	0.73	0.33 J	0.73 U	0.53 U	0.34 U
Cadmium	5	0.33	10	5 U	5 U	0.56 U	0.7 U
Calcium		204000	715000	670000	630000	640000	580000
Chromium	100	11.2	82	82	71	74 J-	63
Chromium VI	100	54	95	95 J-	88	88	76
Cobalt	11	3.7	10	4.5 J	4.1 J-	6.4 U	6 U
Copper	1300	0.96	20	10 U	10 U	0.96 U	1.2 U
Iron	300	25	4920	190	**520**	78 U	25 J-
Lead	15	1	8.8	3 U	3.8	2.7 U	3 U
Lithium	73	340	640	**550**	**640 J+**	**550**	**540**
Magnesium		101000	350000	350000	340000	350000	320000
Manganese	50	0.35	116	4.9 J-	**100**	4.8 U	2.8 U
Mercury	2	0.0064	0.2	0.2 U	0.2 U	0.023 J	0.022 J
Molybdenum	183	32	35	33	35	33	32
Nickel	730	1.5	6.9	2.9 J	4 U	4.6 U	4.8 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	20	200	**200 U [f]**	**20 U**	**200 U [f]**	**200 U [f]**
Potassium		16000	23000	20000 J+	19000 J+	23000 J+	20000 J+
Selenium	50	1.3	15.4	3.8 J-	5.3	5.3	6
Silicon		41000	43000	41000	42000 J+	43000	41000
Silver	100	0.64	20	10 U	10 U	10 U	1.2 J
Sodium		5000	470000	440000	400000	400000	400000
Thallium	2	0.04	45	0.064 U	0.069 U	0.065 U	0.091 U
Tin	21900	4.1	50	50 U	5.2 U	50 U	4.1 J
Titanium	146000	2.1	43	6.4 J-	43	2.1 U	20 U
Uranium	30	29.8	254	**180**	**160**	**150**	**140**
Vanadium	183	25.6	145	30	55	29 J-	29
Zinc	5000	0.87	20	20 U	9.5 U	5.3 U	4.9 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.31	5	0.65 J	0.39 J	0.4 J	0.36 J
1,1-Dichloroethene	7	0.24	5	0.87 J	0.24 J	0.53 J	0.66 J
1,2-Dichloroethane	5	0.55	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	50	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	50	10 U	10 UJ	10 U	10 U
Acetone	32600	3.6	50	10 R	10 R	10 R	10 U
Benzene	5	0.074	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.2	5	1 U	0.34 J	0.32 J	0.37 U
Bromoform	80	1	5	1 U	1 U	1 U	1 U
Bromomethane	47.8	1	10	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	5	1 U	1 U	1 U	1 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.49	5.8	3.1	1.3	3	3
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	17	160	**100**	65	**100**	**140**
Chloromethane	81.1	0.42	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	0.2	5	0.23 J	1 U	1 U	1 U
Dibromochloromethane	80	0.18	5	0.43 J	1 U	1 U	0.18 J
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	0.22	5.3	0.22 J	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	0.83	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	29	120	NA	**29**	**56**	**56**
Toluene	1000	0.11	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	32	160	**100**	65	**100**	**140**
Trans-1,2-Dichloroethene	100	1	5	1 U	1 U	1 U	1 U
Trichloroethene	5	3.5	21	**12**	**5.5**	**11**	**11**
Trichlorofluoromethane	9890	1	5	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		120	120	NA	NA	120	120 J
ANIONS (reported in mg/L)							
Chloride	250	170	170	NA	NA	170	170 J
Nitrate	10	2.8	2.8	NA	NA	2.8	2.8 J
Perchlorate [g]	0.018	0.06	0.071	NA	NA	**0.06**	**0.071 J**
Sulfate	250	1100	1200	NA	NA	**1200**	**1100 J**
GENERAL							
Fluoride	4	0.58	0.65	NA	NA	0.65	0.58 J
Nitrite	1	0.2	0.5	NA	NA	0.2 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		10.6	14.1	NA	NA	14.1 ± 3.67 J+	10.6 ± 3.44
Adjusted Gross Alpha (Total) MCL [c]	15	13.93	14.41	NA	NA	0.2	-3.8
Beta (Total)	4	10.6	11.1	NA	NA	**10.6 ± 4.54**	**11.1 ± 5.08**
Uranium 238		5.64	5.8	NA	NA	5.64 ± 1.07	5.8 ± 1.1
Uranium 234		8.04	8.22	NA	NA	8.04 ± 1.46	8.22 ± 1.51
Thorium 230		0.0999	0.185	NA	NA	0.185 ± 0.0914	0.0999 ± 0.0659 J+
Radium 226	5	0	0.389	NA	NA	0.389 ± 0.266	0 ± 0.336 U
Radon 222	300	238	460	NA	NA	238 ± 39.3	**460 ± 59.4**
Lead 214		6.53	11.2	NA	NA	11.2 ± 5.37 J-	6.53 ± 9.66 UJ-
Bismuth 214		4.15	5.77	NA	NA	4.15 ± 14.7 UJ-	5.77 ± 12.5 UJ-
Lead 210				NA	NA	NA	NA
Thorium 232		0.00308	0.0399	NA	NA	0.0399 ± 0.0307	0.00308 ± 0.0151 U
Radium 228	5	0.488	0.62	NA	NA	0.488 ± 0.412 U	0.62 ± 0.389 U
Radium MCL [d]	5	0.39	0.39	NA	NA	0.39	NA
Actinium-228		13.6	23.1	NA	NA	23.1 ± 11.4 J+	13.6 ± 13.2 U
Thorium 228		0.0219	0.0366	NA	NA	0.0366 ± 0.0641 U	0.0219 ± 0.0422 U
Lead 212		-5.11	3.06	NA	NA	3.06 ± 7.12 U	-5.11 ± 9.3 U
Bismuth 212		30.8	36.4	NA	NA	30.8 ± 41 U	36.4 ± 29.5 U
Thallium 208		0.0863	1.29	NA	NA	0.0863 ± 5.66 U	1.29 ± 6.08 U

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		14.7	86.5	NA	NA	86.5 ± 78.6 U	14.7 ± 80.1 U
Uranium 235		0.253	0.388	NA	NA	0.253 ± 0.129	0.388 ± 0.163
Polonium-210				NA	NA	NA	NA
Protactinium-234		112	535	NA	NA	112 ± 487 U	535 ± 534 U
Radium-224		-5.11	3.06	NA	NA	3.06 ± 7.12 U	-5.11 ± 9.3 U
Thorium-227		-8.33	0.941	NA	NA	0.941 ± 20.4 U	-8.33 ± 13.5 U
Thorium-234		-39.2	17	NA	NA	-39.2 ± 72.2 U	17 ± 78.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2100	2100	NA	NA	**2100**	**2100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	100	600	NA	NA	**600**	**100 U**
Antimony	6	20	20	NA	NA	**20 U**	**20 U** [f]
Arsenic	10	200	220	NA	NA	**220**	**200**
Barium	2000	18	22	NA	NA	22 J-	18 J-
Beryllium	4	0.2	2	NA	NA	2 U	0.2 J-
Cadmium	5	5	5	NA	NA	5 U	5 U
Calcium		140000	150000	NA	NA	150000	140000 J
Chromium	100	31	32	NA	NA	31	32
Chromium VI	100	35	40	NA	NA	40	35
Cobalt	11	10	10	NA	NA	10 U	10 U
Copper	1300	0.81	10	NA	NA	0.81 U	10 U
Iron	300	27	490	NA	NA	**490**	27 J-
Lead	15	1.3	3	NA	NA	1.3 J-	3 U
Lithium	73	150	170	NA	NA	**170**	**150**
Magnesium		89000	96000	NA	NA	96000	89000 J
Manganese	50	2.3	14	NA	NA	14	2.3 J-
Mercury	2	0.2	0.2	NA	NA	0.2 U	0.2 U
Molybdenum	183	87	92	NA	NA	92	87
Nickel	730	1.1	1.6	NA	NA	1.6 J-	1.1 J

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	NA	NA	**200 U**	**200 U [f]**
Potassium		12000	13000	NA	NA	13000 J+	12000 J+
Selenium	50	4.4	5	NA	NA	5 U	4.4 J-
Silicon		32000	36000	NA	NA	36000	32000
Silver	100	10	10	NA	NA	10 U	10 U
Sodium		250000	280000	NA	NA	280000	250000 J
Thallium	2	0.024	0.027	NA	NA	0.024 U	0.027 U
Tin	21900	50	50	NA	NA	50 U	50 U
Titanium	146000	20	24	NA	NA	24	20 U
Uranium	30	19	21	NA	NA	19	21
Vanadium	183	30	32	NA	NA	32	30
Zinc	5000	7.8	17	NA	NA	7.8 U	17 U
Zirconium		20	20	NA	NA	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	NA	NA	1 U	1 U
1,1,2-Trichloroethane	5	1	1	NA	NA	1 U	1 U
1,1-Dichloroethane	11.8	1	1	NA	NA	1 U	1 U
1,1-Dichloroethene	7	1	1	NA	NA	1 U	1 U
1,2-Dichloroethane	5	0.43	0.48	NA	NA	0.43 J	0.48 J
1,2-Dichloropropane	5	24	26	NA	NA	**26**	**24**
1,3-Dichlorobenzene	110	1	1	NA	NA	1 U	1 U
2-Butanone	21300	10	10	NA	NA	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	NA	NA	10 U	10 U
Acetone	32600	10	10	NA	NA	10 R	10 U
Benzene	5	1	1	NA	NA	1 U	1 U
Bromodichloromethane	80	0.2	1	NA	NA	1 U	0.2 J
Bromoform	80	1	1	NA	NA	1 U	1 U
Bromomethane	47.8	1	1	NA	NA	1 U	1 U
Carbon Disulfide	3520	1	1	NA	NA	1 U	1 U

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	1	NA	NA	1 U	1 U
Chlorobenzene	100	1	1	NA	NA	1 U	1 U
Chloroform	80	0.71	0.73	NA	NA	0.73 J	0.71 J
Chloromethane	81.1	1	1	NA	NA	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	NA	NA	1 U	1 U
Dibromochloromethane	80	1	1	NA	NA	1 U	1 U
Ethylbenzene	700	1	1	NA	NA	1 U	1 U
Methylene Chloride	5	1	1	NA	NA	1 U	1 U
Naphthalene	4.29	1	1	NA	NA	1 U	1 U
Styrene	100	1	1	NA	NA	1 U	1 U
Tetrachloroethene	5	1	1	NA	NA	1 U	1 U
Toluene	1000	1	1	NA	NA	1 U	1 U
Total Trihalomethanes [e]	80	0.73	0.91	NA	NA	0.73	0.71
Trans-1,2-Dichloroethene	100	1	1	NA	NA	1 U	1 U
Trichloroethene	5	19	22	NA	NA	**19**	**22**
Trichlorofluoromethane	9890	1	1	NA	NA	1 U	1 U
Vinyl Chloride	2	1	1	NA	NA	1 U	1 U
Xylene (Total)	10000	2	2	NA	NA	2 U	2 U

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		74	110	110	97	110	110
ANIONS (reported in mg/L)							
Chloride	250	170	2600	220	210	210	170
Nitrate	10	2	4.1	3	3.1	2.8	2.6
Perchlorate [g]	0.018	0.13	0.27	**0.27**	**0.26**	**0.2**	**0.13 J**
Sulfate	250	1600	3300	**2400**	**2400**	**2200**	**1600**
GENERAL							
Fluoride	4	0.5	0.91	0.69	0.91	0.5 U	0.5 U
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		0	29	19.7 ± 7.27	13.4 ± 4.79	11.3 ± 4.85	15.6 ± 5.39
Adjusted Gross Alpha (Total) MCL [c]	15	21.59	28.3	-1.9	-9.3	-12.7	-11.6
Beta (Total)	4	-0.9	22	**20.3 ± 14.1 U [f]**	**20.1 ± 7.14**	**13.2 ± 7.17**	**5.46 ± 5.99 U**
Uranium 238		8.76	12	8.76 ± 1.74	9.58 ± 1.72	10.2 ± 1.81	11.3 ± 1.99
Uranium 234		12.3	15.6	12.3 ± 2.32	12.6 ± 2.21	13.4 ± 2.34	15.3 ± 2.64
Thorium 230		-0.0589	0.067	0.0439 ± 0.0648 U	0.067 ± 0.0777 U	0.0255 ± 0.0658 U	0.0459 ± 0.0714 U
Radium 226	5	0.0458	0.831	0.831 ± 0.355	0.0884 ± 0.11	0.0458 ± 0.297 U	0.607 ± 0.376
Radon 222	300	256	888	**888 ± 110**	**851 ± 105**	**599 ± 77.2**	256 ± 38.3
Lead 214		4.44	59.5	59.5 ± 10.8 J-	10.2 ± 9.62 UJ-	6.26 ± 9.24 UJ-	4.44 ± 10.4 UJ-
Bismuth 214		0.397	66.4	66.4 ± 13.2 J-	3.15 ± 18.3 UJ-	4.2 ± 13.8 UJ-	0.397 ± 11.8 UJ-
Lead 210		0.406	0.664	0.406 ± 0.457 U	0.408 ± 0.422 U	NA	NA
Thorium 232		-0.00558	0.0363	0.005 ± 0.0219 U	0.0363 ± 0.0344 U	0.00844 ± 0.0201 U	0.00395 ± 0.0254 U
Radium 228	5	-0.0637	0.87	0.337 ± 0.321 U	0.603 ± 0.382 U	-0.0637 ± 0.302 U	0.552 ± 0.44 U
Radium MCL [d]	5	0.09	1.57	0.83	0.09	NA	0.61
Actinium-228		16.1	20.1	16.1 ± 10.3 J	18.4 ± 9.48 J	20.1 ± 8.42 J+	19.6 ± 12.1 J+
Thorium 228		-0.0558	0.189	0.014 ± 0.0675 U	-0.0558 ± 0.0607 U	0.0486 ± 0.0608 U	0.047 ± 0.0749 U
Lead 212		-1.06	3.01	-0.511 ± 7.99 U	2.11 ± 7.16 U	1.58 ± 7.33 U	-1.06 ± 7.45 U
Bismuth 212		14	46.6	46.6 ± 33.1 U	22.8 ± 40.6 U	20.2 ± 36.6 U	14.8 ± 41.8 U
Thallium 208		4.28	5.63	5.4 ± 2.89 J	4.28 ± 2.95 U	4.93 ± 2.67 J+	5.16 ± 3.01 J+

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		5.73	45	5.73 ± 76.1 U	20.2 ± 78.8 U	7.39 ± 67.4 U	25.6 ± 69.5 U
Uranium 235		0.394	0.77	0.527 ± 0.278	0.474 ± 0.186	0.394 ± 0.164	0.557 ± 0.194
Polonium-210		0.0127	0.353	0.353 ± 0.229	0.0127 ± 0.0838 U	NA	NA
Protactinium-234		0	559	380 ± 449 U	0 ± 490 U	332 ± 401 U	387 ± 516 U
Radium-224		-1.06	3.01	-0.511 ± 7.99 U	2.11 ± 7.16 U	1.58 ± 7.33 U	-1.06 ± 7.45 U
Thorium-227		1.46	20.6	6.1 ± 23.4 U	5.02 ± 20.4 U	1.46 ± 18.8 U	9.6 ± 17.4 U
Thorium-234		-34	6.83	-34 ± 101 U	5.01 ± 70.7 U	-7.83 ± 97.2 U	6.83 ± 43.7 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2830	5690	**4100**	**4300**	**3300**	**3100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.2	270	**70 U [f]**	19 J-	37 U	**270**
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	20	163	**120**	**110**	**130**	**120 J+**
Barium	2000	1.6	293	9.5 J	7.3 J-	10 J-	13 J-
Beryllium	4	0.081	2	0.23 J	0.45 U	2 U	0.12 U
Cadmium	5	0.33	10	5 U	5 U	0.62 J	5 U
Calcium		50000	500000	400000	400000	370000	280000 J
Chromium	100	2.6	117	24	25	20	14 J-
Chromium VI	100	16	29	26	29	22	16
Cobalt	11	0.82	20	10 U	10 U	10 U	10 U
Copper	1300	1	20	10 U	10 U	10 U	10 U
Iron	300	9.3	25500	9.3 U	100 U	12 J-	190
Lead	15	1	23.7	3 U	2.4 U	3.1	2.2 J
Lithium	73	120	170	**160**	**170 J+**	**150**	**150**
Magnesium		26100	310000	210000	210000	170000	140000
Manganese	50	0.5	469	0.95 J-	0.96 U	2 J-	8.1 U
Mercury	2	0.0073	0.23	0.03 U	0.2 U	0.019 U	0.2 U
Molybdenum	183	39	66	65	66	53	39
Nickel	730	0.9	40	20 U	1.5 U	1.1 J-	20 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		12000	19000	16000 J+	16000 J+	13000 J+	12000 J+
Selenium	50	3.1	15.4	3.6 J	5 U	5.9	3.6 J
Silicon		35000	38000	38000	35000 J+	38000	36000
Silver	100	0.57	20	10 U	0.8 J	10 U	10 U
Sodium		5000	728000	410000	430000	390000	390000 J-
Thallium	2	0.025	42	0.04 U	0.033 U	0.025 U	0.066 U
Tin	21900	4.6	50	50 U	4.6 U	50 U	50 U
Titanium	146000	2	20	20 U	20 U	20 U	9.7 J-
Uranium	30	5	42	28	27	**31**	**34**
Vanadium	183	8.4	101	47	37	48	53
Zinc	5000	1.2	20	20 U	20 U	4.8 U	3.5 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	0.24	5	0.97 J	0.71 J	0.55 J	0.25 J
1,1-Dichloroethene	7	1	13	**9.3**	6.5	3.8	1
1,2-Dichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	20	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	20	10 U	10 U	10 U	10 U
Acetone	32600	3.2	20	10 R	10 R	10 R	10 U
Benzene	5	0.14	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	0.25	5	0.44 J	0.34 J	0.25 J	1 U
Bromoform	80	1	5	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	10	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	5	1 U	1 U	1 U	1 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.14	5	1 U	1 U	1 U	1 U
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	1.1	15	7.8	4.7	3.2	1.1
Chloromethane	81.1	0.59	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	2	1 U	1 U	1 U	1 U
Dibromochloromethane	80	0.36	5	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	8.7	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	20	88	**65**	**83**	**46**	**20**
Toluene	1000	0.27	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	1.1	27	7.8	4.7	3.2	1.1
Trans-1,2-Dichloroethene	100	1	2	1 U	1 U	1 U	1 U
Trichloroethene	5	0.32	5	0.57 J	0.5 J	0.32 J	1 U
Trichlorofluoromethane	9890	1	2	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-4
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-5
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		76	110	100	100	110	110
ANIONS (reported in mg/L)							
Chloride	250	442	1110	**810 J**	**680 J**	**580 J**	**570**
Nitrate	10	6	35.2	**11 J**	8.7 J	7.6 J	7.6
Perchlorate [g]	0.018	0.38	0.6	**0.6 J**	**0.52 J**	**0.38 J**	**0.53**
Sulfate	250	1680	3860	**2300 J**	**1700 J**	**1800 J**	**1800**
GENERAL							
Fluoride	4	1.9	3.1	3.1 J	2.2 J	2.4 J	1.9
Nitrite	1	0.5	1	0.5 U	1 U	0.5 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		8	39	12.6 ± 7.43	10.4 ± 5.85	13.5 ± 5.87	22.8 ± 6.43
Adjusted Gross Alpha (Total) MCL [c]	15	11.15	19.42	-6.8	-5.2	-0.2	4.3
Beta (Total)	4	11.4	36	**11.4 ± 13.3 U [f]**	**22.6 ± 13.2**	**19.2 ± 7.81**	**17.5 ± 6.49**
Uranium 238		4.75	8.1	8.1 ± 1.51	7.07 ± 1.31	5.22 ± 0.962	8.09 ± 1.47
Uranium 234		5.9	11.1	11.1 ± 2.01	8.22 ± 1.5	8.23 ± 1.45	9.97 ± 1.78
Thorium 230		-0.0688	0.45	-0.0575 ± 0.0563 U	-0.0688 ± 0.0532 U	-0.0305 ± 0.0497 U	0.0382 ± 0.0687 U
Radium 226	5	-0.89	1.73	0.546 ± 0.254	0.801 ± 0.345	1.25 ± 0.523	0.431 ± 0.316
Radon 222	300	717	1750	**1280 ± 155**	**750 ± 93.6**	**717 ± 90.1**	**1600 ± 187**
Lead 214		-0.34	33.2	33.2 ± 9.32 J	-0.34 ± 9.47 UJ-	11.1 ± 5.53 J-	1.1 ± 11.2 UJ-
Bismuth 214		1.58	37	37 ± 11.5 J	11 ± 6.32 J-	6.97 ± 13.1 UJ-	10.2 ± 13.3 UJ-
Lead 210		0.582	1.07	1.07 ± 0.52	0.945 ± 0.481	NA	NA
Thorium 232		-0.0106	0.03	-0.0106 ± 0.0215 U	0.00904 ± 0.0215 U	0.00138 ± 0.0162 U	0.00253 ± 0.0229 U
Radium 228	5	0.344	2.1	0.878 ± 0.422	0.713 ± 0.426 U	0.509 ± 0.37 U	0.745 ± 0.543 U
Radium MCL [d]	5	-0.03	3.46	1.42	0.8	1.25	0.43
Actinium-228		8.23	21.4	15.5 ± 8.82 U	14.6 ± 8.24 U	8.23 ± 11.4 U	21.4 ± 9.81 J+
Thorium 228		0	0.23	0 ± 0.0936 U	0.0216 ± 0.0687 U	0.0157 ± 0.0299 U	0.0122 ± 0.0374 U
Lead 212		0.436	3.93	3.93 ± 6.89 U	0.598 ± 7.8 U	0.436 ± 8.19 U	0.465 ± 6.92 U
Bismuth 212		8.76	69.4	32.3 ± 36.6 U	47.3 ± 42.4 U	8.76 ± 40.1 U	69.4 ± 40.6 J+
Thallium 208		-1.05	4.39	-1.05 ± 4.48 U	0.181 ± 6.68 U	4.39 ± 2.89 U	0.577 ± 6 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-5
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-8.93	64.4	38 ± 76.5 U	18.9 ± 77 U	64.4 ± 90.9 U	50.8 ± 76.9 U
Uranium 235		0.13	0.491	0.219 ± 0.136	0.277 ± 0.143	0.243 ± 0.117	0.454 ± 0.176
Polonium-210		0.224	0.233	0.233 ± 0.186	0.224 ± 0.163	NA	NA
Protactinium-234		-9.14	763	373 ± 413 U	763 ± 488 J	35.1 ± 496 U	316 ± 484 U
Radium-224		0.436	3.93	3.93 ± 6.89 U	0.598 ± 7.8 U	0.436 ± 8.19 U	0.465 ± 6.92 U
Thorium-227		-6.5	6.91	-2.5 ± 20.4 U	-2.51 ± 20.5 U	-6.5 ± 13.5 U	-5.38 ± 20.2 U
Thorium-234		-31.9	39.3	-31.9 ± 70.8 U	13.3 ± 68.6 U	39.3 ± 46.1 U	16.5 ± 75 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3130	4800	**4700**	**4000**	**3600**	**3800**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	190	**68 UJ**	49 J-	37 UJ	**78 U**
Antimony	6	2.3	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	120	196	**170**	**160**	**170**	**160 J+**
Barium	2000	8.9	84.9	14 J	13 J-	14 J-	14 J-
Beryllium	4	0.081	2	0.23 J	0.51 U	2 U	2 U
Cadmium	5	0.33	10	5 U	5 U	0.61 J	5 U
Calcium		340000	618000	490000 J	450000 J	480000 J	400000 J
Chromium	100	16	36.9	23	22	21	21 J-
Chromium VI	100	23	29	27	23	29	26
Cobalt	11	0.82	20	10 U	10 U	10 U	10 U
Copper	1300	1	20	10 U	10 U	10 U	10 U
Iron	300	4.2	5900	7.1 UJ	9.2 UJ	4.2 J-	6.2 U
Lead	15	1	8.8	3 U	2.9 U	3 U	2 J
Lithium	73	160	240	**230**	**240 J+**	**200**	**200**
Magnesium		120000	190000	190000 J	140000 J	120000 J	120000
Manganese	50	0.26	158	1.4 J-	0.76 UJ	0.28 J-	1.8 U
Mercury	2	0.011	0.2	0.053 U	0.2 U	0.023 U	0.026 J
Molybdenum	183	40	58	58	45	45	49
Nickel	730	1.2	20	20 U	1.6 U	1.7 J-	2 J

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-5
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	**200 U**	**200 U [f]**	**200 U [f]**
Potassium		14000	18000	18000 J+	16000 J+	15000 J+	15000 J+
Selenium	50	4.6	15.4	8.9	5 U	8.9	7.8
Silicon		45000	55000	48000	47000 J+	55000	45000
Silver	100	0.63	20	10 U	10 U	10 U	10 U
Sodium		5000	661000	540000 J	380000 J	390000 J	580000 J-
Thallium	2	0.016	200	0.048 U	0.018 U	0.016 U	0.33
Tin	21900	4.1	50	4.1 U	50 U	50 U	50 U
Titanium	146000	2.3	20	20 U	20 U	20 U	20 U
Uranium	30	12	98.5	24	19	17	23
Vanadium	183	49	83	63	55	57	59
Zinc	5000	3.4	35	20 U	20 U	26	16 U
Zirconium		20	1000	20 U	20 U	1000 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1	5	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	20	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	20	10 U	10 U	10 U	10 U
Acetone	32600	3	20	10 R	10 R	10 R	10 R
Benzene	5	0.15	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	1	5	1 U	1 U	1 U	1 U
Bromoform	80	1	5	1 U	1 U	1 UJ	1 U
Bromomethane	47.8	1	10	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	18	1 U	1 U	1 U	1 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-5
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.3	5	2	0.66 J	0.44 J	1.4
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	1	8.8	2.6	1.3	1	1.7
Chloromethane	81.1	1	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	1 U	1 U
Dibromochloromethane	80	1	5	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	10	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.52	5	1.6	0.55 J	0.52 J	1
Toluene	1000	0.27	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	1	23.8	2.6	1.3	1	1.7
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	1 U	1 U
Trichloroethene	5	0.17	5	1 U	1 U	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-5
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET [a,b] SL	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		12	150	150	150	150 J	150
ANIONS (reported in mg/L)							
Chloride	250	346	3400	**640 J**	**530 J**	**550 J**	**540**
Nitrate	10	3	10.9	3.8 J	3.5 J	3.3 J	3.4
Perchlorate [g]	0.018	0.76	1.8	**1.6 J**	**1.7 J**	**1.7 J**	**1.7**
Sulfate	250	1300	2030	**1300 J**	**1300 J**	**1300 J**	**1300**
GENERAL							
Fluoride	4	0.5	1.1	1.1 J	0.51 J	0.5 UJ	0.97
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		22	131	26.2 ± 6.43	27.3 ± 6.44	29.4 ± 7.02	34.8 ± 7.35
Adjusted Gross Alpha (Total) MCL [c]	15	30.68	83	-17.4	-17.8	-9.5	-5.5
Beta (Total)	4	-13	90	**13.9 ± 7.66**	**24.3 ± 7.05**	**21.5 ± 7.37**	**18.4 ± 5.3**
Uranium 238		13.2	32.6	17.9 ± 3.14	17.8 ± 3.08	14.4 ± 2.65	15.3 ± 2.67
Uranium 234		16.9	50	24.9 ± 4.3	26.3 ± 4.5	23.6 ± 4.23	24.1 ± 4.11
Thorium 230		-0.0577	0.047	0.0102 ± 0.0694 U	-0.0577 ± 0.0494 U	-0.00365 ± 0.052 U	0.047 ± 0.0689 U
Radium 226	5	-0.119	1.1	0.229 ± 0.205 U	0.248 ± 0.251 U	0.029 ± 0.193 U	0 ± 0.23 U
Radon 222	300	262	964	**780 ± 98.5**	**887 ± 108**	**964 ± 117**	**756 ± 125 J**
Lead 214		1.44	32.7	32.7 ± 8.6 J	2.81 ± 9.71 UJ-	1.67 ± 8.54 UJ-	4.87 ± 10.4 UJ-
Bismuth 214		4.44	30.5	30.5 ± 10 J	10.3 ± 10.8 UJ-	11.4 ± 15.6 UJ-	4.44 ± 12.5 UJ-
Lead 210		0.368	0.578	0.412 ± 0.432 U	0.368 ± 0.424 U	NA	NA
Thorium 232		0.00342	0.0124	0.00342 ± 0.0309 U	0.0124 ± 0.0192 U	0.00392 ± 0.0149 U	0.00558 ± 0.021 U
Radium 228	5	-0.22	0.73	0.54 ± 0.4 U	NA	0.114 ± 0.386 U	0.26 ± 0.479 U
Radium MCL [d]	5	0.03	1.36	NA	NA	NA	NA
Actinium-228		4.65	22.5	15.7 ± 10.3 U	17.2 ± 11.1 U	22.5 ± 11.2 J+	4.65 ± 18.3 U
Thorium 228		-0.073	0.0816	0.0816 ± 0.0965 U	-0.0233 ± 0.0585 U	0.0136 ± 0.0235 U	-0.073 ± 0.0677 U
Lead 212		-2.66	4.45	-0.635 ± 6.09 U	-2.66 ± 7.03 U	4.45 ± 7.46 U	3.58 ± 7.12 U
Bismuth 212		8.38	45.2	27.2 ± 33.3 U	45.2 ± 37.9 U	37.8 ± 42.2 U	8.38 ± 34.3 U
Thallium 208		-1.41	3.3	0.459 ± 4.39 U	-1.41 ± 5.94 U	1.56 ± 5.69 U	0.459 ± 6.56 U

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-19.5	113	-10.6 ± 67.1 U	113 ± 73.3 U	65.1 ± 78.4 U	-0.592 ± 67.7 U
Uranium 235		0.58	1.62	0.795 ± 0.266	0.966 ± 0.29	0.875 ± 0.309	0.897 ± 0.266
Polonium-210		0.0728	0.283	0.283 ± 0.193	0.0728 ± 0.0821 U	NA	NA
Protactinium-234		69.3	402	237 ± 378 U	262 ± 443 U	69.3 ± 510 U	216 ± 447 U
Radium-224		-2.66	4.45	-0.635 ± 6.09 U	-2.66 ± 7.03 U	4.45 ± 7.46 U	3.58 ± 7.12 U
Thorium-227		-20.3	7.96	7.96 ± 14.3 U	-2.37 ± 11.6 U	-20.3 ± 20.8 U	-13.3 ± 18 U
Thorium-234		-7.23	21.9	9.1 ± 40.9 U	-7.23 ± 77.2 U	12.2 ± 72.6 U	21.9 ± 79.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3000	8080	**3100**	**3100**	**3100**	**3100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	16	170	**72 UJ**	45 J-	16 UJ	36 U
Antimony	6	7.6	40	**20 U [f]**	**20 U**	**20 U [f]**	**20 U [f]**
Arsenic	10	72.5	150	**140**	**140**	**150**	**140 J+**
Barium	2000	11	41.8	13 J	11 J-	12 J-	12 J-
Beryllium	4	0.08	2	2 U	0.43 U	0.24 U	2 U
Cadmium	5	0.33	25	5 U	0.47 U	0.61 U	5 U
Calcium		190000	792000	210000 J	190000 J	190000 J	190000 J
Chromium	100	23	105	73	74	81 J-	75 J-
Chromium VI	100	72	98	84	94	98	89
Cobalt	11	0.67	20	10 U	10 U	0.67 U	10 U
Copper	1300	0.73	20	10 U	10 U	10 U	10 U
Iron	300	4.4	1360	73 UJ	53 UJ	4.5 UJ	4.4 U
Lead	15	1.8	15	3 U	3 U	2.4 U	3 U
Lithium	73	240	360	**350**	**360 J+**	**310**	**320**
Magnesium		120000	506000	150000 J	140000 J	130000 J	130000
Manganese	50	0.83	51.3	20 J	2.3 UJ	2 UJ	0.89 U
Mercury	2	0.011	0.2	0.027 U	0.2 U	0.024 J	0.2 U
Molybdenum	183	33	39	37	36	37	33
Nickel	730	1.9	9.9	6.8 J	7.5 U	9.8 U	9.9 J

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	15	200	**200 U [f]**	**15 U**	**200 U [f]**	**200 U [f]**
Potassium		14000	22000	21000 J+	20000 J+	20000 J+	20000 J+
Selenium	50	3.3	15.4	5 U	5 U	4.7 J	7
Silicon		32000	36000	36000	34000 J+	36000	32000
Silver	100	0.83	50	10 U	10 U	10 U	10 U
Sodium		5000	1150000	440000 J	430000 J	420000 J	560000 J-
Thallium	2	0.032	39	0.082 U	0.038 U	0.032 U	0.056 U
Tin	21900	50	50	50 U	50 U	50 U	50 U
Titanium	146000	1.6	20	1.6 J-	20 U	20 U	20 U
Uranium	30	50	130	**52**	**52**	**50**	**52**
Vanadium	183	27	56	41	38	41 J-	38
Zinc	5000	1.5	69	20 U	20 U	3.9 U	3.2 U
Zirconium		20	20	20 U	20 U	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethane	11.8	1	5	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	0.39	5	0.59 J	0.39 J	1 U	0.49 J
1,2-Dichloroethane	5	1	5	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	5	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	110	1	5	1 U	1 U	1 U	1 U
2-Butanone	21300	10	20	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	2900	10	20	10 U	10 U	10 U	10 U
Acetone	32600	2.7	20	10 R	10 R	10 R	10 R
Benzene	5	1	5	1 U	1 U	1 U	1 U
Bromodichloromethane	80	1	5	1 U	1 U	1 U	1 U
Bromoform	80	1	5	1 U	1 U	1 U	1 U
Bromomethane	47.8	1	10	1 U	1 U	1 U	1 U
Carbon Disulfide	3520	1	5	1 U	1 U	1 U	1 U

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	0.26	5	0.27 J	0.39 J	0.26 J	0.28 J
Chlorobenzene	100	1	5	1 U	1 U	1 U	1 U
Chloroform	80	11	79	14	12	12	11
Chloromethane	81.1	0.48	10	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	1 U	1 U
Dibromochloromethane	80	1	5	1 U	1 U	1 U	1 U
Ethylbenzene	700	1	5	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	8.2	1 U	1 U	1 U	1 U
Naphthalene	4.29	1	1	1 U	1 U	1 U	1 U
Styrene	100	1	5	1 U	1 U	1 U	1 U
Tetrachloroethene	5	0.36	5	0.43 J	0.38 J	0.36 J	0.37 J
Toluene	1000	1	5	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	11	94	14	12	12	11
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	1 U	1 U
Trichloroethene	5	0.61	5	1 U	1 U	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	2 U	2 U	2 U

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TMMW-101
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		110	130	110	NA	120	130
ANIONS (reported in mg/L)							
Chloride	250	110	120	110 J	NA	110	110
Nitrate	10	0.4	1.8	0.44 J	NA	0.48	0.4 U
Perchlorate [g]	0.018	0.0068	0.021	**0.021 J**	NA	0.013	0.0068
Sulfate	250	840	960	**960 J**	NA	**870**	**850**
GENERAL							
Fluoride	4	0.78	0.93	0.93 J	NA	0.79	0.78
Nitrite	1	0.2	0.2	0.2 U	NA	0.2 U	0.2 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.39	13.7	13.7 ± 3.48	NA	10.1 ± 2.44	4.39 ± 1.97
Adjusted Gross Alpha (Total) MCL [c]	15	11.45	15.73	2.2	NA	-3.5	-11.3
Beta (Total)	4	-4.06	16.3	**16.3 ± 4.39**	NA	**9.33 ± 2.74**	-4.06 ± 3.25 U
Uranium 238		3.9	5.95	3.9 ± 0.76	NA	4.59 ± 0.89	5.95 ± 1.13
Uranium 234		7.32	9.43	7.32 ± 1.32	NA	8.87 ± 1.6	9.43 ± 1.71
Thorium 230		0.0196	0.159	0.0786 ± 0.0735 U	NA	0.159 ± 0.0854	0.119 ± 0.0667 J+
Radium 226	5	-0.303	0.902	-0.0215 ± 0.177 U	NA	0.902 ± 0.435	-0.303 ± 0.306 U
Radon 222	300	23.2	1040	274 ± 40.4	NA	23.2 ± 26.7 R	**1040 ± 128**
Lead 214		-2.23	31.1	31.1 ± 9.59 J-	NA	2.06 ± 9 UJ-	4.99 ± 10.4 UJ-
Bismuth 214		0.855	32.4	32.4 ± 11.6 J-	NA	10.5 ± 12.3 UJ-	6.43 ± 13.8 UJ-
Lead 210		0.86	2.33	2.33 ± 0.744	NA	NA	NA
Thorium 232		0.00879	0.0463	0.0366 ± 0.0363 U	NA	0.0123 ± 0.0245 U	0.00879 ± 0.0156 U
Radium 228	5	0.148	12.2	0.736 ± 0.507 U	NA	0.431 ± 0.383 U	0.333 ± 0.434 U
Radium MCL [d]	5	0.9	0.9	NA	NA	0.9	NA
Actinium-228		0.836	12.4	12.2 ± 11.7 U	NA	8.96 ± 10.6 U	12.4 ± 20.8 U
Thorium 228		-0.0152	0.0795	0.0502 ± 0.0766 U	NA	0.0795 ± 0.0706 U	0.0329 ± 0.0367 U
Lead 212		-1.48	4.12	-1.48 ± 7.7 U	NA	3.09 ± 7.05 U	2.61 ± 7.41 U
Bismuth 212		10.1	54.5	10.1 ± 34.5 U	NA	26.2 ± 28 U	54.5 ± 40.4 U
Thallium 208		2.01	5.17	2.01 ± 5.89 U	NA	5.17 ± 3.03 J+	4.78 ± 2.81 J+

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TMMW-101
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-1.27	91.1	-1.27 ± 76.4 U	NA	91.1 ± 77.3 U	21.3 ± 79.1 U
Uranium 235		0.17	14.3	0.233 ± 0.118	NA	0.17 ± 0.105	0.353 ± 0.156
Polonium-210		0.241	0.241	0.241 ± 0.159	NA	NA	NA
Protactinium-234		-92.8	345	252 ± 440 U	NA	99.2 ± 489 U	345 ± 491 U
Radium-224		-1.48	4.12	-1.48 ± 7.7 U	NA	3.09 ± 7.05 U	2.61 ± 7.41 U
Thorium-227		-2.34	6.78	-0.736 ± 23.4 U	NA	6.48 ± 21.3 U	-2.34 ± 20.5 U
Thorium-234		-21.4	9.02	9.02 ± 99.6 U	NA	-7.99 ± 72.1 U	3.47 ± 75.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1400	1600	1600 J	NA	1400 J	1500
TOTAL METAL (reported in ug/L)							
Aluminum	50	220	2000	**2000 J**	NA	**320 J-**	**470**
Antimony	6	20	20	**20 U** [f]	NA	**20 U**	**20 U** [f]
Arsenic	10	31	37	**37**	NA	**35**	**32**
Barium	2000	14	33	33 J	NA	17 U	16 J-
Beryllium	4	0.16	2	0.31 U	NA	0.16 U	2 U
Cadmium	5	5	5	5 U	NA	5 U	5 U
Calcium		140000	150000	150000 J	NA	150000	140000
Chromium	100	2.7	5.3	5.3 J	NA	4.2 J-	2.7 J
Chromium VI	100	10	10	10 UJ-	NA	10 U	10 U
Cobalt	11	10	10	10 U	NA	10 U	10 U
Copper	1300	1.9	10	10 U	NA	10 U	10 U
Iron	300	260	1700	**1700 J**	NA	260	**400**
Lead	15	2.3	3	2.4 J	NA	2.3 U	3 U
Lithium	73	130	160	**160 J+**	NA	**130**	**130**
Magnesium		82000	94000	94000 J	NA	87000	83000
Manganese	50	6.4	38	38 J	NA	6.4 U	8.9 J-
Mercury	2	0.2	0.2	0.2 U	NA	0.2 U	0.2 U
Molybdenum	183	31	43	43	NA	33	31
Nickel	730	2.2	20	3.2 J	NA	3.9 U	20 U

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TMMW-101
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	11	200	**41 U [f]**	NA	**11 U**	**13 U [f]**
Potassium		10000	12000	12000 J	NA	11000 J+	11000 J+
Selenium	50	5	5	5 U	NA	5 U	5 U
Silicon		23000	27000	27000	NA	23000	24000
Silver	100	10	10	10 U	NA	10 U	10 U
Sodium		150000	180000	180000 J	NA	160000	150000
Thallium	2	0.026	0.088	0.088 U	NA	0.045 U	0.026 U
Tin	21900	50	50	50 U	NA	50 U	50 U
Titanium	146000	11	81	81	NA	11 J	19 J-
Uranium	30	14	17	14	NA	14	15
Vanadium	183	16	20	20	NA	16	16
Zinc	5000	3.5	20	3.6 J-	NA	5.3 U	3.5 U
Zirconium		20	20	20 U	NA	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethane	11.8	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethene	7	1	1	1 U	NA	1 U	1 U
1,2-Dichloroethane	5	1	1	1 U	NA	1 U	1 U
1,2-Dichloropropane	5	1	1	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	110	1	1	1 U	NA	1 U	1 U
2-Butanone	21300	10	10	10 U	NA	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	10 U	NA	10 U	10 U
Acetone	32600	10	10	10 R	NA	10 R	10 U
Benzene	5	1	1	1 U	NA	1 U	1 U
Bromodichloromethane	80	0.3	0.72	0.35 J	NA	0.71 J	0.3 J
Bromoform	80	1	1	1 U	NA	1 U	1 U
Bromomethane	47.8	1	1	1 UJ	NA	1 U	1 U
Carbon Disulfide	3520	0.5	1	1 U	NA	1 U	0.5 J

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TMMW-101
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	1	1 U	NA	1 U	1 U
Chlorobenzene	100	1	1	1 U	NA	1 U	1 U
Chloroform	80	4.1	4.5	4.1	NA	4.3	4.5
Chloromethane	81.1	1	1	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	NA	1 U	1 U
Dibromochloromethane	80	1	1	1 U	NA	1 U	1 U
Ethylbenzene	700	1	1	1 U	NA	1 U	1 U
Methylene Chloride	5	1	1	1 U	NA	1 U	1 U
Naphthalene	4.29	1	1	1 U	NA	1 U	1 U
Styrene	100	1	1	1 U	NA	1 U	1 U
Tetrachloroethene	5	1	1	1 U	NA	1 U	1 U
Toluene	1000	1	1	1 U	NA	1 U	1 U
Total Trihalomethanes [e]	80	4.45	5.22	4.1	NA	4.3	4.5
Trans-1,2-Dichloroethene	100	1	1	1 U	NA	1 U	1 U
Trichloroethene	5	1	1	1 U	NA	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	NA	1 U	1 U
Vinyl Chloride	2	1	1	1 U	NA	1 U	1 U
Xylene (Total)	10000	2	2	2 U	NA	2 U	2 U

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TMMW-101
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-18
ANALYTICAL RESULTS FOR WELL TMMW-102
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	150	150	NA	100	130
ANIONS (reported in mg/L)							
Chloride	250	130	720	130 J	NA	**720 J**	220
Nitrate	10	0.47	12	0.47 J	NA	**12 J**	1.5
Perchlorate [g]	0.018	0.025	1.6	**0.032 J**	NA	**1.6 J**	**0.19**
Sulfate	250	340	1400	**340 J**	NA	**1400 J**	**390**
GENERAL							
Fluoride	4	0.87	0.93	0.93 J	NA	0.87 J	0.9
Nitrite	1	0.1	0.5	0.1 UJ-	NA	0.5 U	0.2 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.7	10.1	9.21 ± 2.18	NA	4.7 ± 4.66 U	10.1 ± 2.49
Adjusted Gross Alpha (Total) MCL [c]	15	8.21	11.79	-2.6	NA	NA	-0.6
Beta (Total)	4	5.3	7.8	**6.54 ± 2.41**	NA	**5.3 ± 7.18 U**	**6.74 ± 2.4** [f]
Uranium 238		3.07	4.35	3.89 ± 0.79	NA	3.07 ± 0.636	3.72 ± 0.739
Uranium 234		5.14	7.74	7.74 ± 1.43	NA	5.14 ± 0.983	6.91 ± 1.27
Thorium 230		-0.00413	0.147	0.0391 ± 0.0573 U	NA	0.147 ± 0.087	0.0693 ± 0.065 U
Radium 226	5	-0.213	0.217	0.191 ± 0.171 U	NA	0.217 ± 0.302 U	-0.213 ± 0.27 U
Radon 222	300	161	557	244 ± 41.9	NA	161 ± 34.8 J	**312 ± 45.5**
Lead 214		-2.48	29	29 ± 9.89 J-	NA	5.56 ± 11.9 UJ-	0.156 ± 10.8 UJ-
Bismuth 214		1.38	25.1	25.1 ± 10.2 J-	NA	3.11 ± 13.5 UJ-	2.16 ± 14 UJ-
Lead 210		0.697	1.36	0.697 ± 0.508 U	NA	NA	NA
Thorium 232		0.0033	0.0194	0.00918 ± 0.025 U	NA	0.0194 ± 0.0224 U	0.0033 ± 0.0167 U
Radium 228	5	-0.213	2.59	0.848 ± 0.44	NA	0.58 ± 0.378 U	-0.213 ± 0.353 J+
Radium MCL [d]	5	-0.21	0.85	0.85	NA	NA	-0.21
Actinium-228		2.16	9.43	2.59 ± 22.3 U	NA	9.43 ± 7.38 U	2.16 ± 22.2 U
Thorium 228		-0.0173	0.0884	0.0775 ± 0.0738 U	NA	-0.0173 ± 0.0669 U	0.0217 ± 0.065 U
Lead 212		-0.551	2.01	-0.551 ± 6.7 U	NA	2.01 ± 7.85 U	0.939 ± 8.94 U
Bismuth 212		-18.1	44.3	-18.1 ± 35.8 U	NA	44.2 ± 37.5 U	27.6 ± 40.4 U
Thallium 208		-0.746	3.04	-0.746 ± 5.06 U	NA	3.04 ± 2.73 U	0.25 ± 6.69 U

TABLE 3-18
ANALYTICAL RESULTS FOR WELL TMMW-102
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-33.6	74.3	10.5 ± 68.6 U	NA	74.3 ± 73.8 U	-18.1 ± 83 U
Uranium 235		-35.3	0.159	0.159 ± 0.109 J+	NA	0.0844 ± 0.0801 U	0.113 ± 0.0835
Polonium-210		0.104	0.104	0.104 ± 0.124	NA	NA	NA
Protactinium-234		-76.8	322	76.7 ± 431 U	NA	322 ± 446 U	287 ± 524 U
Radium-224		-0.551	2.01	-0.551 ± 6.7 U	NA	2.01 ± 7.85 U	0.939 ± 8.94 U
Thorium-227		-9.48	6.19	6.19 ± 11.4 U	NA	-9.48 ± 16 U	-1.55 ± 12.9 U
Thorium-234		-55.4	-0.333	-55.4 ± 85.6 U	NA	-24.5 ± 76.8 U	-0.333 ± 75.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	870	3000	870 J	NA	**3000**	1100
TOTAL METAL (reported in ug/L)							
Aluminum	50	68	260	**260 J**	NA	**140 J**	**68 U**
Antimony	6	20	20	**20 U** [f]	NA	**20 U**	**20 U** [f]
Arsenic	10	19	25	**23**	NA	**21**	**19**
Barium	2000	10	24	12 J-	NA	24 J-	12 J-
Beryllium	4	2	2	2 U	NA	2 U	2 U
Cadmium	5	5	5	5 U	NA	5 U	5 U
Calcium		80000	280000	80000 J	NA	280000 J	100000
Chromium	100	3.4	9.9	3.7 J	NA	9.9 J	3.4 J
Chromium VI	100	10	10	10 U	NA	10 U	10 U
Cobalt	11	10	10	10 U	NA	10 U	10 U
Copper	1300	1.1	10	10 U	NA	1.1 U	10 U
Iron	300	30	160	160 J	NA	110 J	30 J-
Lead	15	3	3	3 U	NA	3 U	3 U
Lithium	73	94	210	**95**	NA	**210**	**110**
Magnesium		52000	150000	56000 J	NA	150000 J	65000
Manganese	50	2	4.5	4 J-	NA	3.7 J-	2 J-
Mercury	2	0.0097	0.2	0.2 U	NA	0.0097 J	0.2 U
Molybdenum	183	24	40	40	NA	24	32
Nickel	730	0.88	20	1.3 J	NA	0.88 J-	20 U

TABLE 3-18
ANALYTICAL RESULTS FOR WELL TMMW-102
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	12	200	**18 U [f]**	NA	**200 U**	**17 U [f]**
Potassium		7100	20000	7100 J+	NA	20000 J+	7600 J+
Selenium	50	3.8	5	5 U	NA	3.8 J	5 U
Silicon		16000	18000	18000	NA	16000	17000
Silver	100	10	10	10 U	NA	10 U	10 U
Sodium		95000	370000	97000 J	NA	370000 J	110000
Thallium	2	0.063	0.2	0.063 U	NA	0.2 U	0.066 U
Tin	21900	50	50	50 U	NA	50 U	50 U
Titanium	146000	2.6	20	6.1 J-	NA	2.6 J-	20 U
Uranium	30	8	13	12 J+	NA	8	12
Vanadium	183	12	18	18	NA	12	14
Zinc	5000	3.8	20	20 U	NA	3.8 U	5.8 U
Zirconium		20	20	20 U	NA	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethane	11.8	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethene	7	1	1	1 U	NA	1 U	1 U
1,2-Dichloroethane	5	1	1	1 U	NA	1 U	1 U
1,2-Dichloropropane	5	1	1	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	110	1	1	1 U	NA	1 U	1 U
2-Butanone	21300	10	10	10 U	NA	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	10 U	NA	10 U	10 U
Acetone	32600	10	10	10 R	NA	10 R	10 U
Benzene	5	1	1	1 U	NA	1 U	1 U
Bromodichloromethane	80	0.26	1	1 U	NA	0.26 J	1 U
Bromoform	80	1	1	1 U	NA	1 U	1 U
Bromomethane	47.8	1	1	1 U	NA	1 U	1 U
Carbon Disulfide	3520	1	1	1 U	NA	1 U	1 U

TABLE 3-18
ANALYTICAL RESULTS FOR WELL TMMW-102
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	1	1 U	NA	1 U	1 U
Chlorobenzene	100	1	1	1 U	NA	1 U	1 U
Chloroform	80	0.92	1.7	0.99 J	NA	1.7	0.92 J
Chloromethane	81.1	1	1	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	NA	1 U	1 U
Dibromochloromethane	80	1	1	1 U	NA	1 U	1 U
Ethylbenzene	700	1	1	1 U	NA	1 U	1 U
Methylene Chloride	5	1	1	1 U	NA	1 U	1 U
Naphthalene	4.29	1	1	1 U	NA	1 U	1 U
Styrene	100	1	1	1 U	NA	1 U	1 U
Tetrachloroethene	5	1	1	1 U	NA	1 U	1 U
Toluene	1000	1	1	1 U	NA	1 U	1 U
Total Trihalomethanes [e]	80	0.92	1.96	0.99	NA	1.7	0.92
Trans-1,2-Dichloroethene	100	1	1	1 U	NA	1 U	1 U
Trichloroethene	5	1	1	1 U	NA	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	NA	1 U	1 U
Vinyl Chloride	2	1	1	1 U	NA	1 U	1 U
Xylene (Total)	10000	2	2	2 U	NA	2 U	2 U

TABLE 3-18
ANALYTICAL RESULTS FOR WELL TMMW-102
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-19
ANALYTICAL RESULTS FOR WELL TMMW-103
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		93	140	100	NA	140	100 J
ANIONS (reported in mg/L)							
Chloride	250	170	630	**590 J**	NA	170 J	**510 J**
Nitrate	10	0.7	12	**11 J**	NA	0.7 J	**11 J**
Perchlorate [g]	0.018	0.11	1.8	**1.8 J**	NA	**0.11 J**	**1.2 J**
Sulfate	250	350	1300	**1300 J**	NA	**350 J**	**1300 J**
GENERAL							
Fluoride	4	0.87	1.9	1.9 J	NA	0.87 J	0.89 J
Nitrite	1	0.2	0.5	0.5 UJ-	NA	0.2 U	0.5 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		5.67	13.6	9.04 ± 3.27	NA	10.3 ± 2.22	5.67 ± 3.39
Adjusted Gross Alpha (Total) MCL [c]	15	7.43	10.99	1.6	NA	-0.7	-2.2
Beta (Total)	4	6.29	26.1	**26.1 ± 6.5**	NA	**10.3 ± 2.45**	**13.1 ± 5.29**
Uranium 238		2.51	3.47	2.58 ± 0.564	NA	3.47 ± 0.695	2.51 ± 0.546
Uranium 234		4.71	7.31	4.71 ± 0.926	NA	7.31 ± 1.33	5.23 ± 1.01
Thorium 230		-0.00658	0.104	0.04 ± 0.0779 U	NA	0.0674 ± 0.0738 U	0.104 ± 0.0716 U
Radium 226	5	-0.18	0.259	0.259 ± 0.234 U	NA	0.0437 ± 0.339 U	0.0264 ± 0.191 U
Radon 222	300	194	732	**597 ± 79**	NA	194 ± 34.9	**619 ± 76.8**
Lead 214		-3.59	57.4	57.4 ± 10.7 J-	NA	-3.59 ± 9.22 UJ-	22.6 ± 9.81 J-
Bismuth 214		4.84	61.8	61.8 ± 29.3 J-	NA	4.84 ± 10.4 UJ-	31.3 ± 10.1 J-
Lead 210		0.921	0.953	0.953 ± 0.498	NA	NA	NA
Thorium 232		0.00617	0.0234	0.00617 ± 0.0319 U	NA	0.0196 ± 0.0248 U	0.022 ± 0.024 U
Radium 228	5	-0.0935	0.835	NA	NA	0.199 ± 0.419 U	-0.0935 ± 0.409 U
Radium MCL [d]	5	0.84	0.84	NA	NA	NA	NA
Actinium-228		-4.73	21.4	15.7 ± 10.3 U	NA	-4.73 ± 18.1 U	21.4 ± 11.8 J+
Thorium 228		-0.0219	0.0301	0.0301 ± 0.0709 U	NA	-0.01 ± 0.0642 U	0.0204 ± 0.04 U
Lead 212		-1.7	4.15	1.5 ± 7.97 U	NA	-0.0886 ± 7.48 U	4.15 ± 7.7 U
Bismuth 212		17.5	69.4	17.5 ± 34.1 U	NA	69.4 ± 36.9 J+	18.4 ± 40 U
Thallium 208		0.546	7.04	5 ± 2.85 J+	NA	7.04 ± 2.58 J+	0.546 ± 5.91 U

TABLE 3-19
ANALYTICAL RESULTS FOR WELL TMMW-103
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-3.51	80.4	44.2 ± 77.6 U	NA	23.4 ± 68.8 U	80.4 ± 74.3 U
Uranium 235		0.136	10.1	0.136 ± 0.097 J+	NA	0.207 ± 0.116	0.141 ± 0.095
Polonium-210		0.8	0.8	0.8 ± 0.362	NA	NA	NA
Protactinium-234		-324	769	769 ± 470 J	NA	-324 ± 1000 U	-116 ± 494 U
Radium-224		-1.7	4.15	1.5 ± 7.97 U	NA	-0.0886 ± 7.48 U	4.15 ± 7.7 U
Thorium-227		-7.99	4.38	-7.99 ± 23.2 U	NA	4.38 ± 19.9 U	-5.86 ± 20.5 U
Thorium-234		-1.93	16.8	-1.93 ± 104 U	NA	1.83 ± 50.2 U	16.8 ± 78.4 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	920	2900	**2900**	NA	920	**2800**
TOTAL METAL (reported in ug/L)							
Aluminum	50	56	360	**360 J**	NA	**250 J**	**56 U**
Antimony	6	20	20	**20 U** [f]	NA	**20 U**	**20 U** [f]
Arsenic	10	20	24	**23**	NA	**22**	**20**
Barium	2000	13	28	28 J-	NA	13 J-	20 J-
Beryllium	4	0.19	2	0.19 J	NA	2 U	2 U
Cadmium	5	5	5	5 U	NA	5 U	5 U
Calcium		84000	250000	250000 J	NA	84000 J	220000 J
Chromium	100	2.7	12	12	NA	2.7 J	10
Chromium VI	100	10	10	10	NA	10 U	10 U
Cobalt	11	10	10	10 U	NA	10 U	10 U
Copper	1300	10	10	10 U	NA	10 U	10 U
Iron	300	6.2	260	260 J	NA	170 J	6.2 J-
Lead	15	2.3	3	3 U	NA	2.3 J-	3 U
Lithium	73	97	210	**210**	NA	**97**	**190**
Magnesium		55000	150000	150000 J	NA	55000 J	120000 J
Manganese	50	1.3	7.8	7.8 J-	NA	4.8 J-	1.3 J-
Mercury	2	0.025	0.2	0.2 U	NA	0.2 U	0.2 U
Molybdenum	183	26	37	28	NA	37	26
Nickel	730	1.6	20	1.6 J	NA	20 U	20 U

TABLE 3-19
ANALYTICAL RESULTS FOR WELL TMMW-103
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	6.5	200	**200 U [f]**	NA	**6.5 U**	**200 U [f]**
Potassium		7300	19000	19000 J+	NA	7300 J+	19000 J+
Selenium	50	5	5.4	5.4	NA	5 U	5 J-
Silicon		16000	18000	17000	NA	18000	16000
Silver	100	10	10	10 U	NA	10 U	10 U
Sodium		100000	410000	410000 J	NA	100000 J	330000 J
Thallium	2	0.025	0.2	0.049 U	NA	0.2 U	0.025 U
Tin	21900	50	50	50 U	NA	50 U	50 U
Titanium	146000	4	20	9.8 J-	NA	6.9 J-	20 U
Uranium	30	7.9	11	7.9 J+	NA	11	7.9
Vanadium	183	13	15	15	NA	15	13
Zinc	5000	3	20	13 J-	NA	3 U	4.5 U
Zirconium		20	20	20 U	NA	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethane	11.8	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethene	7	1	1	1 U	NA	1 U	1 U
1,2-Dichloroethane	5	1	1	1 U	NA	1 U	1 U
1,2-Dichloropropane	5	1	1	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	110	1	1	1 U	NA	1 U	1 U
2-Butanone	21300	10	10	10 U	NA	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	10 U	NA	10 U	10 U
Acetone	32600	10	10	10 R	NA	10 R	10 U
Benzene	5	1	1	1 U	NA	1 U	1 U
Bromodichloromethane	80	0.28	1	0.36 J	NA	1 U	0.28 J
Bromoform	80	1	1	1 U	NA	1 U	1 U
Bromomethane	47.8	1	1	1 U	NA	1 U	1 U
Carbon Disulfide	3520	0.17	1	1 U	NA	1 U	0.17 J

TABLE 3-19
ANALYTICAL RESULTS FOR WELL TMMW-103
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	1	1 U	NA	1 U	1 U
Chlorobenzene	100	1	1	1 U	NA	1 U	1 U
Chloroform	80	0.88	3.1	3.1	NA	0.88 J	2.2
Chloromethane	81.1	1	1	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	NA	1 U	1 U
Dibromochloromethane	80	1	1	1 U	NA	1 U	1 U
Ethylbenzene	700	1	1	1 U	NA	1 U	1 U
Methylene Chloride	5	1	1	1 U	NA	1 U	1 U
Naphthalene	4.29	1	1	1 U	NA	1 U	1 U
Styrene	100	1	1	1 U	NA	1 U	1 U
Tetrachloroethene	5	1	1	1 U	NA	1 U	1 U
Toluene	1000	1	1	1 U	NA	1 U	1 U
Total Trihalomethanes [e]	80	0.88	3.46	3.1	NA	0.88	2.2
Trans-1,2-Dichloroethene	100	1	1	1 U	NA	1 U	1 U
Trichloroethene	5	1	1	1 U	NA	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	NA	1 U	1 U
Vinyl Chloride	2	1	1	1 U	NA	1 U	1 U
Xylene (Total)	10000	2	2	2 U	NA	2 U	2 U

TABLE 3-19
ANALYTICAL RESULTS FOR WELL TMMW-103
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-20
ANALYTICAL RESULTS FOR WELL TMMW-104
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET [a,b] SL	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		94	110	95	NA	94	110
ANIONS (reported in mg/L)							
Chloride	250	140	230	210 J	NA	140 J	170
Nitrate	10	1	2.6	2.6 J	NA	1 J	2.5
Perchlorate [g]	0.018	0.04	0.28	**0.28 J**	NA	**0.04 J**	**0.041**
Sulfate	250	910	1700	**930 J**	NA	**1700 J**	**1100**
GENERAL							
Fluoride	4	1.7	2.3	2.3 J	NA	1.7 J	1.9
Nitrite	1	0.2	0.5	0.2 U	NA	0.5 U	0.2 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		6.7	11.8	6.7 ± 2.35	NA	11.8 ± 3.34	7.4 ± 3.51
Adjusted Gross Alpha (Total) MCL [c]	15	6.52	7.97	0.2	NA	3.8	-0.5
Beta (Total)	4	9.69	18.2	**12.7 ± 4.14**	NA	**9.69 ± 4.6**	**9.98 ± 5.03**
Uranium 238		2.07	2.67	2.07 ± 0.47	NA	2.67 ± 0.569	2.36 ± 0.518
Uranium 234		4.07	5.35	4.32 ± 0.849	NA	5.16 ± 0.985	5.35 ± 1.02
Thorium 230		0.0432	0.129	0.0432 ± 0.066 U	NA	0.092 ± 0.0782 U	0.129 ± 0.0724 J+
Radium 226	5	-0.472	0.308	0.098 ± 0.218 U	NA	-0.472 ± 0.33 U	0.308 ± 0.286 U
Radon 222	300	329	872	**429 ± 56.7**	NA	**872 ± 109**	**821 ± 100**
Lead 214		2.26	23.5	20.8 ± 8.45 J-	NA	5.54 ± 5.39 UJ-	23.5 ± 8.82 J-
Bismuth 214		1.58	26.4	19.5 ± 11.4 UJ-	NA	12.3 ± 9.97 UJ-	26.4 ± 9.44 J-
Lead 210		0.328	3.77	0.328 ± 0.445 U	NA	NA	NA
Thorium 232		0.00833	0.0616	0.0127 ± 0.0222 U	NA	0.0108 ± 0.0203 U	0.00833 ± 0.0157 U
Radium 228	5	0.36	15.2	0.494 ± 0.343 U	NA	0.453 ± 0.388 U	0.36 ± 0.45 J+
Radium MCL [d]	5	0.36	0.36	NA	NA	NA	0.36
Actinium-228		6.41	21.6	15.2 ± 10.7 U	NA	6.41 ± 11.4 U	21.6 ± 9.31 J+
Thorium 228		0.0333	0.0945	0.0419 ± 0.0652 U	NA	0.0418 ± 0.0392 U	0.0333 ± 0.04 U
Lead 212		-3.77	9.18	9.18 ± 4.14 J	NA	6.44 ± 4.57 U	5.63 ± 7.2 U
Bismuth 212		-2.58	38.4	38.4 ± 38.1 U	NA	24 ± 40 U	-2.58 ± 35.3 U
Thallium 208		0.979	4.21	4.21 ± 2.74 U	NA	1.02 ± 2.95 U	0.979 ± 4.84 U

TABLE 3-20
ANALYTICAL RESULTS FOR WELL TMMW-104
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		52.8	200	200 ± 44.3 J	NA	55 ± 91.6 U	52.8 ± 67.5 U
Uranium 235		-2.32	0.142	0.134 ± 0.0969	NA	0.136 ± 0.0915	0.142 ± 0.0928
Polonium-210		0.118	0.118	0.118 ± 0.115 U	NA	NA	NA
Protactinium-234		-148	144	132 ± 433 U	NA	64.1 ± 519 U	144 ± 414 U
Radium-224		-3.77	9.18	9.18 ± 4.14 J	NA	6.44 ± 4.57 U	5.63 ± 7.2 U
Thorium-227		-44.8	4.19	-44.8 ± 14.8 U	NA	-21.1 ± 13.7 U	-7.29 ± 19.5 U
Thorium-234		-24.2	144	144 ± 39.1 J	NA	62.5 ± 46.4 U	-9.83 ± 48.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1700	2600	1800	NA	**2600**	**2000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	27	270	**79 UJ**	NA	**250 J**	27 U
Antimony	6	20	20	**20 U** [f]	NA	**20 U**	**20 U** [f]
Arsenic	10	18	20	**20**	NA	**19**	**18**
Barium	2000	13	18	13 J	NA	18 J-	13 J-
Beryllium	4	2	2	2 U	NA	2 U	2 U
Cadmium	5	5	5	5 U	NA	5 U	5 U
Calcium		120000	270000	120000 J	NA	270000 J	180000
Chromium	100	2.4	3.3	2.4 J	NA	3.3 J	3.2 J
Chromium VI	100	10	10	10 UJ-	NA	10 U	10 U
Cobalt	11	10	10	10 U	NA	10 U	10 U
Copper	1300	0.56	10	10 U	NA	0.56 U	10 U
Iron	300	8.3	270	8.3 J-	NA	180 J	30 J-
Lead	15	1.2	3	1.2 J	NA	3 U	3 U
Lithium	73	110	130	**120 J+**	NA	**130**	**110**
Magnesium		57000	120000	65000 J	NA	120000 J	84000
Manganese	50	0.92	16	0.92 UJ	NA	7.9 J-	10 U
Mercury	2	0.018	0.2	0.2 U	NA	0.2 U	0.2 U
Molybdenum	183	17	28	28	NA	17	19
Nickel	730	1.5	20	20 U	NA	1.5 J-	20 U

TABLE 3-20
ANALYTICAL RESULTS FOR WELL TMMW-104
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
TOTAL METAL (reported in ug/L)							
Phosphorus	0.73	200	200	**200 U [f]**	NA	**200 U**	**200 U [f]**
Potassium		12000	14000	13000 J	NA	14000 J+	13000 J+
Selenium	50	5	5.2	5 U	NA	5 U	5 U
Silicon		11000	14000	11000	NA	14000	12000
Silver	100	10	10	10 U	NA	10 U	10 U
Sodium		240000	280000	280000 J	NA	270000 J	240000
Thallium	2	0.037	0.2	0.047 U	NA	0.2 U	0.067 U
Tin	21900	50	50	50 U	NA	50 U	50 U
Titanium	146000	7.1	20	20 U	NA	7.1 J-	20 U
Uranium	30	7	8.4	7	NA	8.4	8.1
Vanadium	183	11	12	12	NA	11	11
Zinc	5000	2	20	20 U	NA	2 U	3.5 U
Zirconium		20	20	20 U	NA	20 U	20 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	NA	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethane	11.8	1	1	1 U	NA	1 U	1 U
1,1-Dichloroethene	7	1	1	1 U	NA	1 U	1 U
1,2-Dichloroethane	5	1	1	1 U	NA	1 U	1 U
1,2-Dichloropropane	5	1	1	1 U	NA	1 U	1 U
1,3-Dichlorobenzene	110	1	1	1 U	NA	1 U	1 U
2-Butanone	21300	10	10	10 U	NA	10 U	10 U
4-Methyl-2-Pentanone	2900	10	10	10 U	NA	10 U	10 U
Acetone	32600	10	10	10 R	NA	10 R	10 U
Benzene	5	1	1	1 U	NA	1 U	1 U
Bromodichloromethane	80	0.19	1	1 U	NA	1 U	0.19 J
Bromoform	80	1	1	1 U	NA	1 U	1 U
Bromomethane	47.8	1	1	1 UJ	NA	1 U	1 U
Carbon Disulfide	3520	1	1	1 U	NA	1 U	1 U

TABLE 3-20
ANALYTICAL RESULTS FOR WELL TMMW-104
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009
VOLATILES (reported in ug/L)							
Carbon Tetrachloride	5	1	1	1 U	NA	1 U	1 U
Chlorobenzene	100	1	1	1 U	NA	1 U	1 U
Chloroform	80	0.34	1	1 U	NA	0.34 J	0.52 J
Chloromethane	81.1	1	1	1 U	NA	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	NA	1 U	1 U
Dibromochloromethane	80	1	1	1 U	NA	1 U	1 U
Ethylbenzene	700	1	1	1 U	NA	1 U	1 U
Methylene Chloride	5	1	1	1 U	NA	1 U	1 U
Naphthalene	4.29	1	1	1 U	NA	1 U	1 U
Styrene	100	1	1	1 U	NA	1 U	1 U
Tetrachloroethene	5	1	1	1 U	NA	1 U	1 U
Toluene	1000	1	1	1 U	NA	1 U	1 U
Total Trihalomethanes [e]	80	0.34	0.71	NA	NA	0.34	0.52
Trans-1,2-Dichloroethene	100	1	1	1 U	NA	1 U	1 U
Trichloroethene	5	1	1	1 U	NA	1 U	1 U
Trichlorofluoromethane	9890	1	1	1 U	NA	1 U	1 U
Vinyl Chloride	2	1	1	1 U	NA	1 U	1 U
Xylene (Total)	10000	2	2	2 U	NA	2 U	2 U

TABLE 3-20
ANALYTICAL RESULTS FOR WELL TMMW-104
SEMIANNUAL GROUNDWATER MONITORING REPORT, 2nd SEMESTER 2009

Analyte	TIMET SL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	1st QTR 2008	3rd QTR 2008	1st QTR 2009	3rd QTR 2009

Notes:

a TIMET SLs are reported in the same unit as analytical group.
b Bolded results exceed the associated SL.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the MCL due to analytical limitations or sample dilution.
g Based on the Nevada Standard for perchlorate.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-21
CATION-ANION BALANCE RESULTS
GROUNDWATER MONITORING REPORT
2ND SEMESTER 2009

Well ID	Cation Sum (meq/L) [1]	Anion Sum (meq/L) [2]	Difference (%) [3]	CAB Result	TDS Measured (mg/L)	TDS Calculated (mg/L)	Ratio [4]	TDS Results [5]	TDS Measured (mg/L)	EC Measured (uS/cm)	Ratio TDS:EC [6]	EC Results [7]	Qualifier
BRW-R1	49	53.9	5	Acceptable	3800	3500	1.1	Acceptable	3800	4590	0.83	Acceptable	No qualifier
CLD1-R	84	40.2	35	Unacceptable	5400	3600	1.5	Unacceptable	5400	8140	0.66	Acceptable	J-CAB, J-TDS
CLD2-R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Acceptable	NA
CLD3-R	180	162	5	Acceptable	11000	10000	1.1	Acceptable	11000	16600	0.66	Acceptable	No qualifier
CLD4-R	74	91	10	Unacceptable	6400	5500	1.2	Acceptable	6400	10220	0.63	Acceptable	J-CAB
Duplicate -1	82	76	4	Acceptable	5200	4700	1.1	Acceptable	5200	6540	0.63	Acceptable	No qualifier
Duplicate-2	93	74.2	11	Unacceptable	5700	4900	1.2	Acceptable	5700	7060	0.63	Acceptable	J-CAB
J2D1-R2	86	76.7	6	Unacceptable	5300	4900	1.1	Acceptable	5300	6990	0.76	Acceptable	J-CAB
J2D3-R	71	75.5	3	Acceptable	5200	4700	1.1	Acceptable	5200	6450	0.81	Acceptable	No qualifier
J2D4	230	203	6	Unacceptable	13000	13000	1	Acceptable	13000	18900	0.69	Acceptable	J-CAB
J2D2-R2	76	79.3	2	Acceptable	5600	4700	1.2	Acceptable	5600	7060	0.79	Acceptable	No qualifier
J2U1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Acceptable	NA
J2U2	73	75.9	2	Acceptable	5100	4500	1.1	Acceptable	5100	6540	0.78	Acceptable	No qualifier
MW-3R	26	29.9	7	Unacceptable	2100	2000	1	Acceptable	2100	2750	0.76	Acceptable	J-CAB
MW-4	43	40.1	3	Acceptable	3100	2800	1.1	Acceptable	3100	3680	0.84	Acceptable	No qualifier
MW-5	55	56	1	Acceptable	3800	3700	1	Acceptable	3800	4730	0.8	Acceptable	No qualifier
MW-6R	45	45.1	0.1	Acceptable	3100	3000	1	Acceptable	3100	4210	0.74	Acceptable	No qualifier
TMMW-101	21	23	5	Acceptable	1500	1600	0.94	Unacceptable	1500	2020	0.74	Acceptable	No qualifier
TMMW-102	15	16.6	5	Acceptable	1100	1100	1	Acceptable	1100	1650	0.67	Acceptable	No qualifier
TMMW-103	36	44	10	Unacceptable	2800	2600	1.1	Acceptable	2800	3820	0.73	Acceptable	J-CAB
TMMW-104	27	29.8	5	Acceptable	2000	2000	1	Acceptable	2000	2780	0.72	Acceptable	No qualifier

Notes:

CAB	Cation/anion balance	mg/L	Milligram per liter	Duplicate 1 = J2U2
EC	Electrical conductivity	TDS	Total dissolved solids	Duplicate 2 = J2D2-R2
meq/L	Milliequivalent per liter	uS/cm	MicroSiemens per centimeter	

1 Cations summed include: Calcium, magnesium, sodium, and potassium.
2 Anions summed include: Bicarbonate, carbonate, chloride, fluoride, nitrate-nitrogen, perchlorate, and sulfate.
3 QC criterion for CAB: absolute percent difference less than or equal to 5 percent; when the anion sum is between 10 and 800 meq/L.
4 Ratio of laboratory measured TDS to calculated TDS.
5 QC criterion for TDS measured versus calculated: ratio of TDS measured to TDS calculated greater than or equal to 1.0 and less than or equal to 1.2.
6 QC limits for TDS versus ED ratio is 0.54 to 0.96
7 J-TDS indicates that TDS value for the given well is estimated; J-CAB indicates that the values for the 11 cation/anions are estimated for a given well.
The qualification of results based CAB includes the "J" qualifier with the associated comment code "p" or "q" in the TIMET analytical database

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APPENDIX A

ELECTRONIC DATA DELIVERABLE
MICROSOFT ACCESS DATABASE
2nd SEMESTER 2009
GROUNDWATER MONITORING DATA

INCLUDED ON COMPACT DISC

APPENDIX B

WELL HYDROGRAPHS

APPENDIX B

HYDROGRAPHS

B-1 BRW-R1
B-2 J2U1
B-3 J2U2
B-4 J2D1-R2
B-5 J2D2-R2
B-6 J2D3-R
B-7 J2D4
B-8 CLD1-R
B-9 CLD2-R
B-10 CLD3-R
B-11 CLD4-R
B-12 TIMETMW-3R
B-13 TIMETMW-4
B-14 TIMETMW-5
B-15 TIMETMW-6R
B-16 TMMW-101
B-17 TMMW-102
B-18 TMMW-103
B-19 TMMW-104
B-20 TMPZ-105
B-21 TMPZ-106
B-22 TMPZ-107
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B-25 TMPZ-110
B-26 TMPZ-111
B-27 TMPZ-112

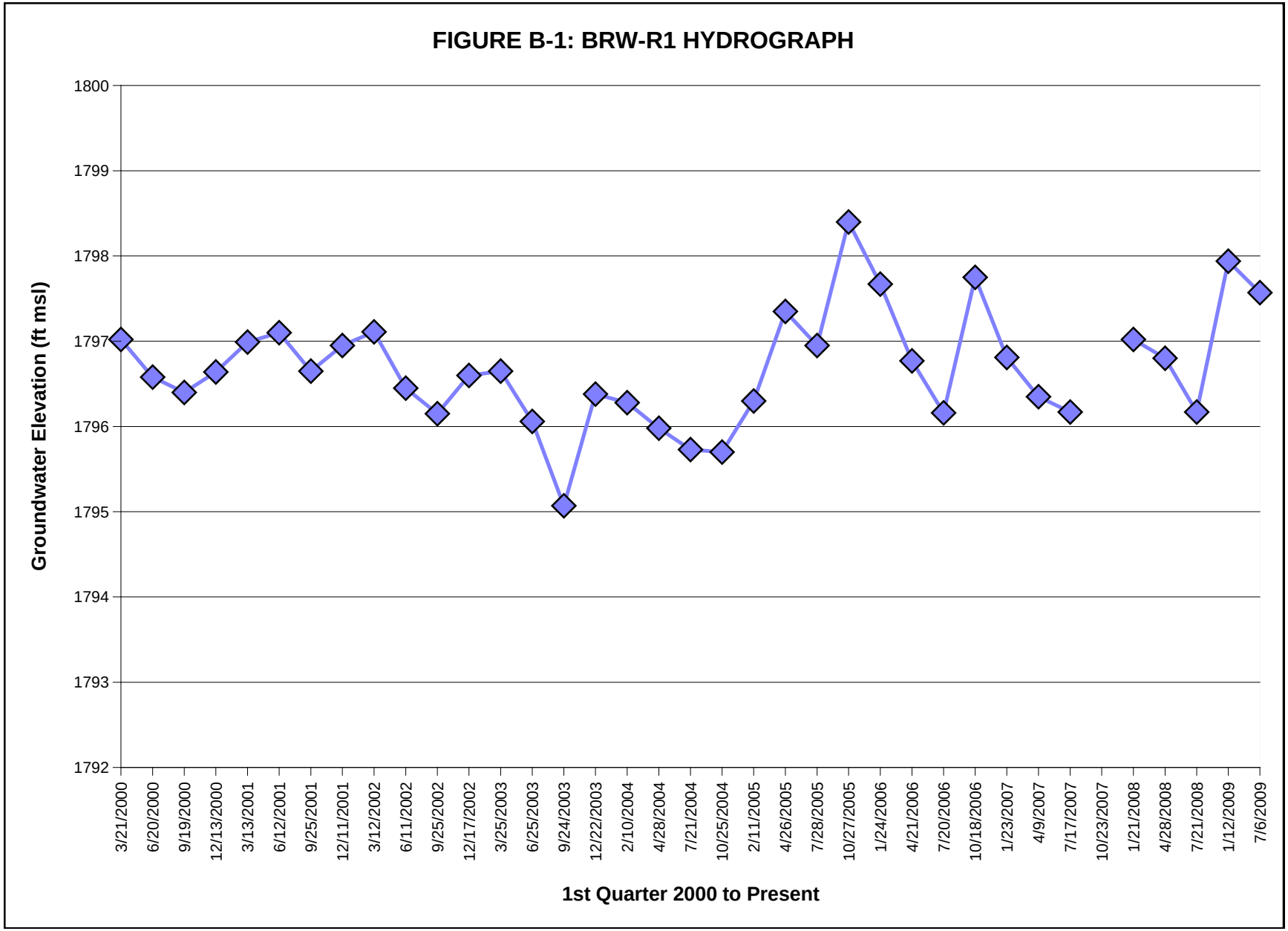


FIGURE B-1: BRW-R1 HYDROGRAPH
Groundwater Elevation (ft msl)
1800
1799
1798
1797
1796
1795
1794
1793
1792
3/21/2000
6/20/2000
9/19/2000
12/13/2000
3/13/2001
6/12/2001
9/25/2001
12/11/2001
3/12/2002
6/11/2002
9/25/2002
12/17/2002
3/25/2003
6/25/2003
9/24/2003
12/22/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/11/2005
4/26/2005
7/28/2005
10/27/2005
1/24/2006
4/21/2006
7/20/2006
10/18/2006
1/23/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 to Present

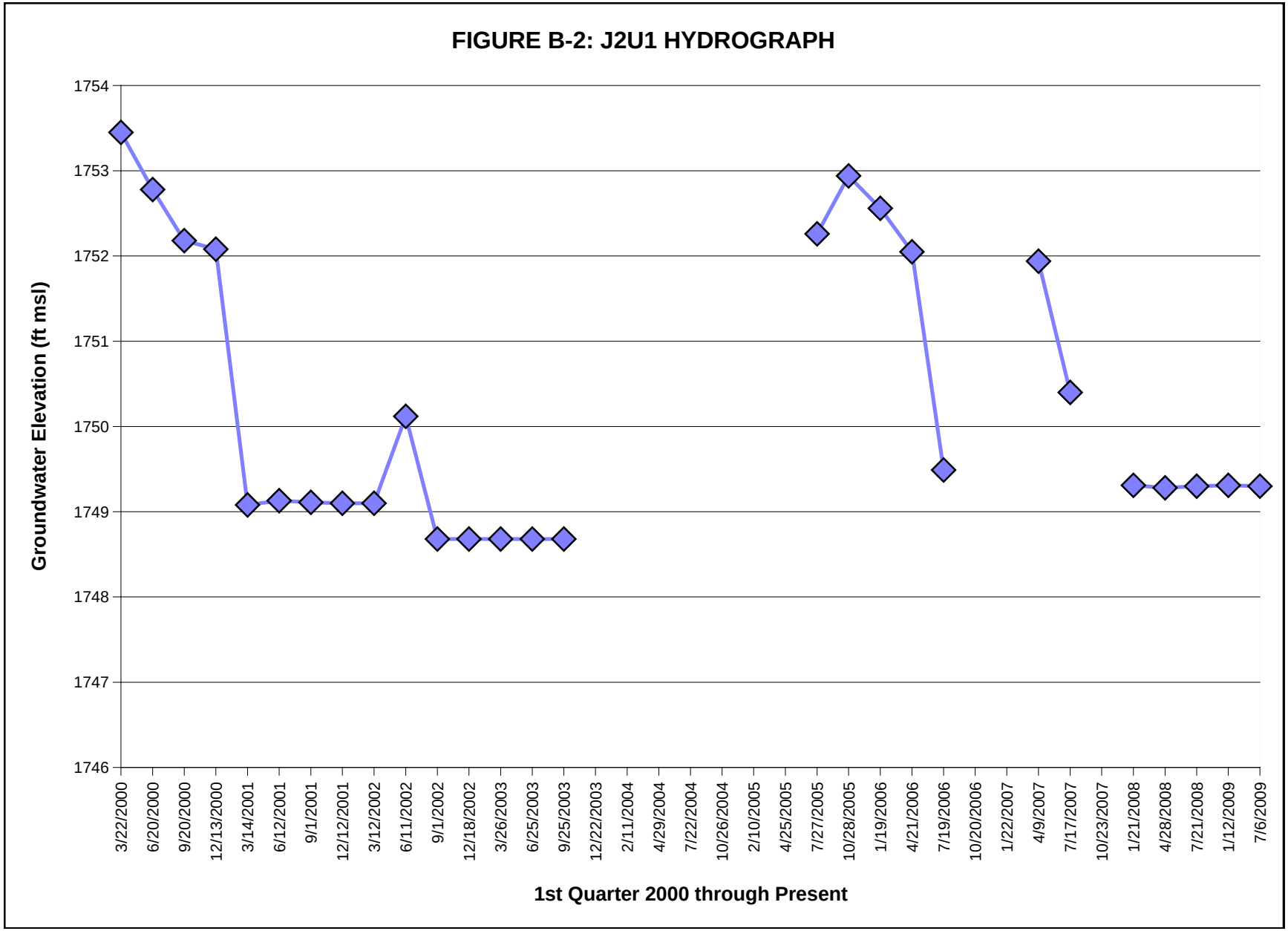
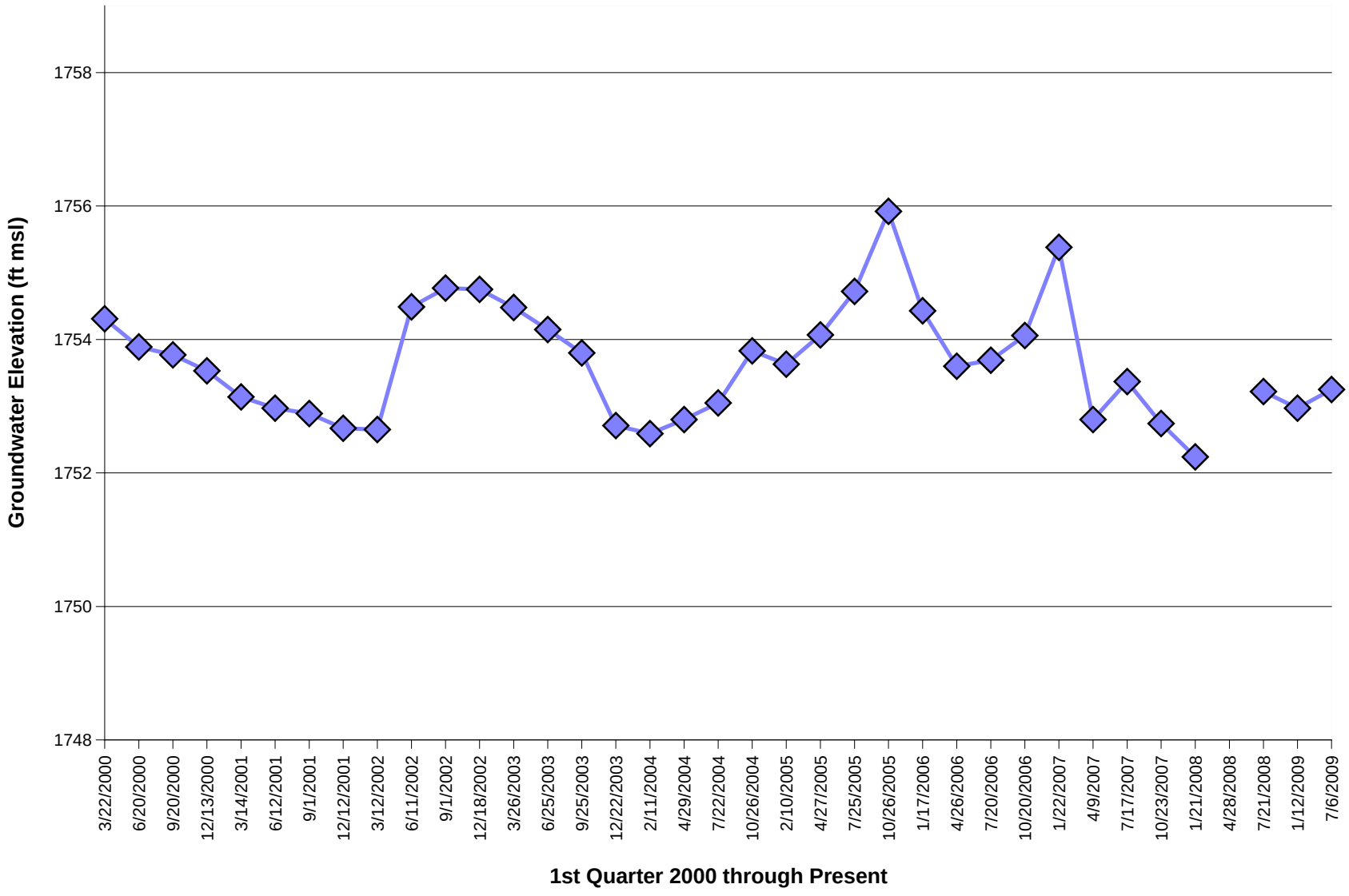


FIGURE B-2: J2U1 HYDROGRAPH
Groundwater Elevation (ft msl)
1754
1753
1752
1751
1750
1749
1748
1747
1746
3/22/2000
6/20/2000
9/20/2000
12/13/2000
3/14/2001
6/12/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/25/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/10/2005
4/25/2005
7/27/2005
10/28/2005
1/19/2006
4/21/2006
7/19/2006
10/20/2006
1/22/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

FIGURE B-3: J2U2 HYDROGRAPH



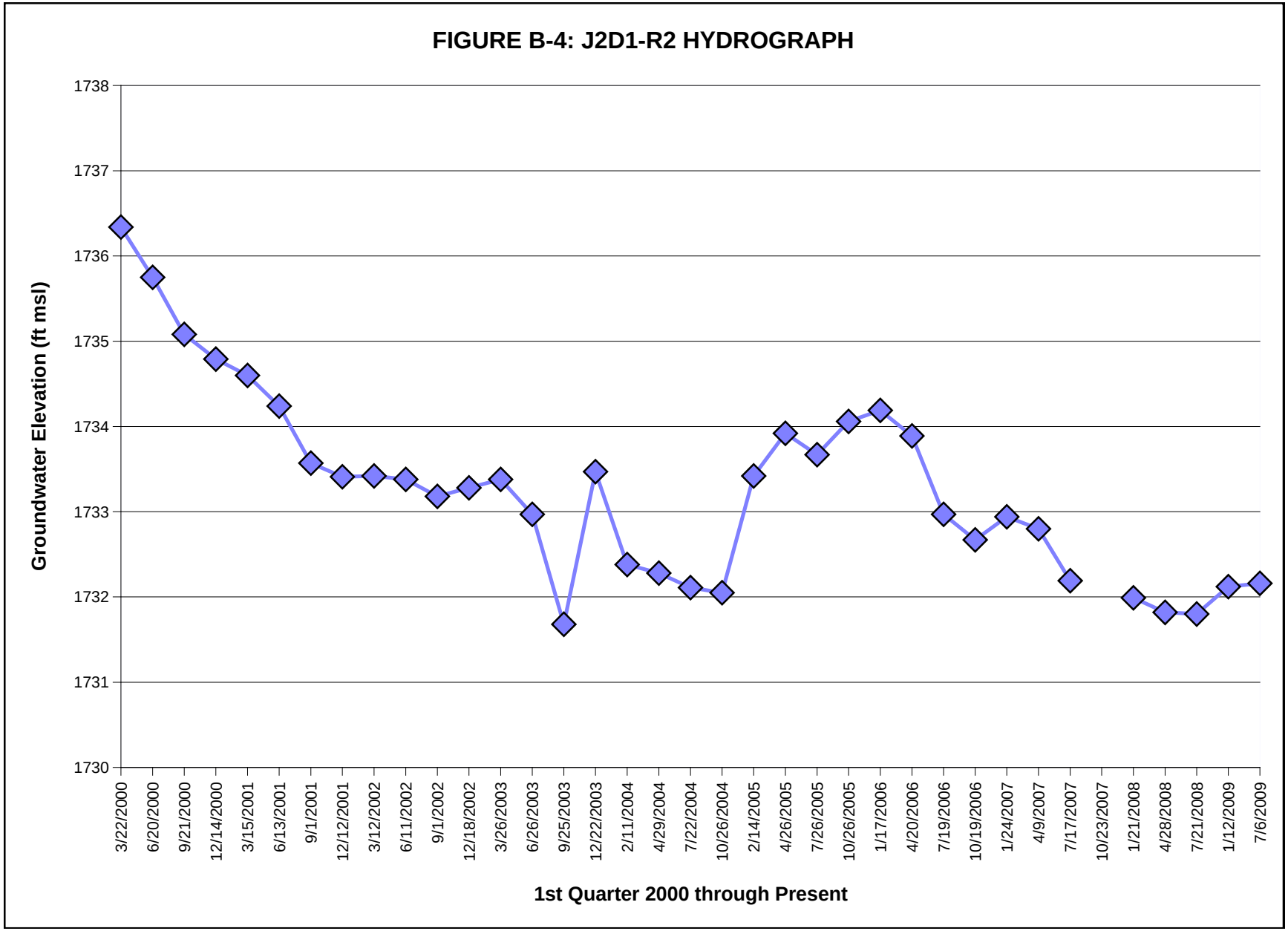


FIGURE B-4: J2D1-R2 HYDROGRAPH
Groundwater Elevation (ft msl)
1738
1737
1736
1735
1734
1733
1732
1731
1730
3/22/2000
6/20/2000
9/21/2000
12/14/2000
3/15/2001
6/13/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/14/2005
4/26/2005
7/26/2005
10/26/2005
1/17/2006
4/20/2006
7/19/2006
10/19/2006
1/24/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

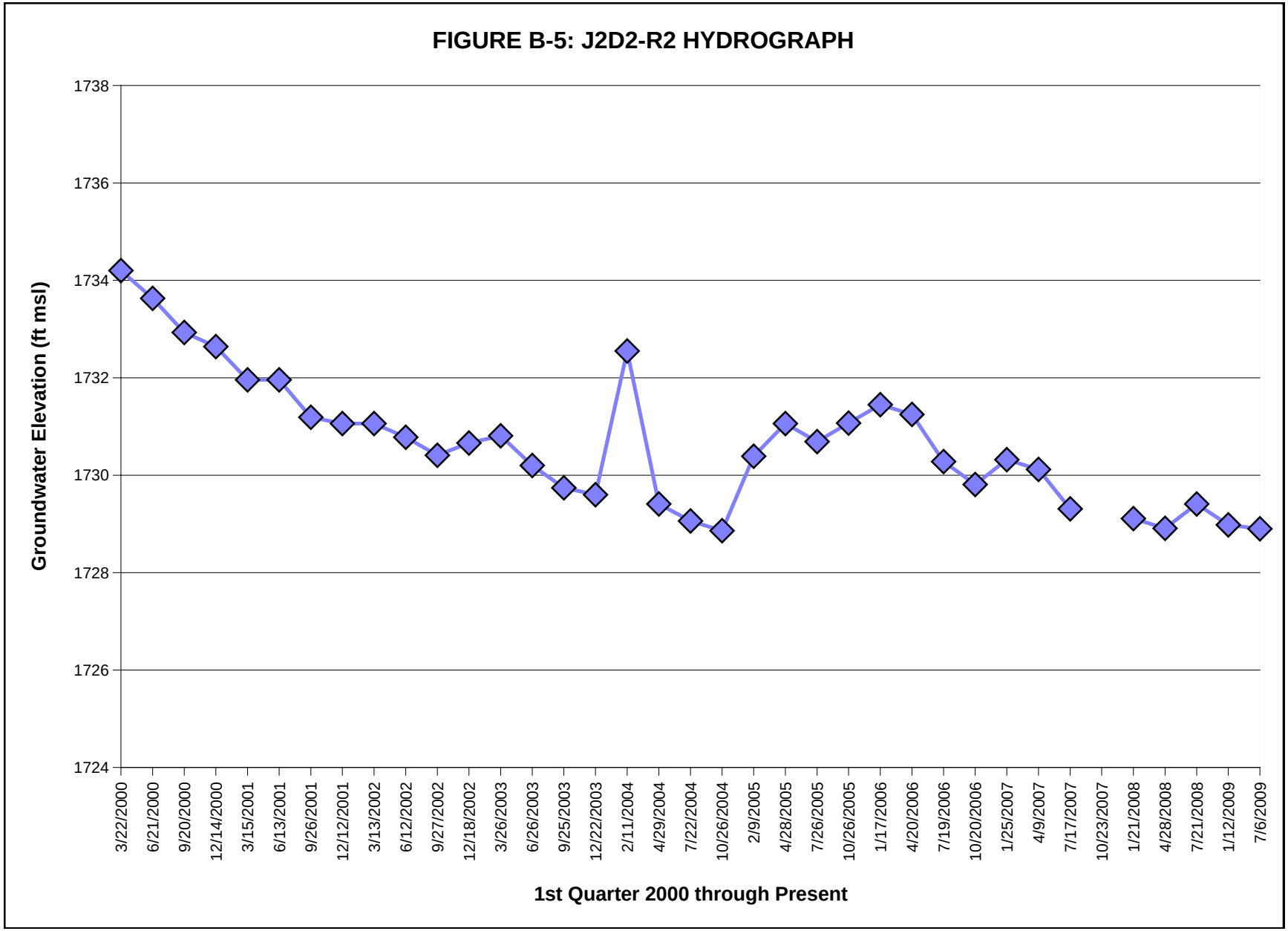


FIGURE B-5: J2D2-R2 HYDROGRAPH
Groundwater Elevation (ft msl)
1738
1736
1734
1732
1730
1728
1726
1724
3/22/2000
6/21/2000
9/20/2000
12/14/2000
3/15/2001
6/13/2001
9/26/2001
12/12/2001
3/13/2002
6/12/2002
9/27/2002
12/18/2002
3/26/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/9/2005
4/28/2005
7/26/2005
10/26/2005
1/17/2006
4/20/2006
7/19/2006
10/20/2006
1/25/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

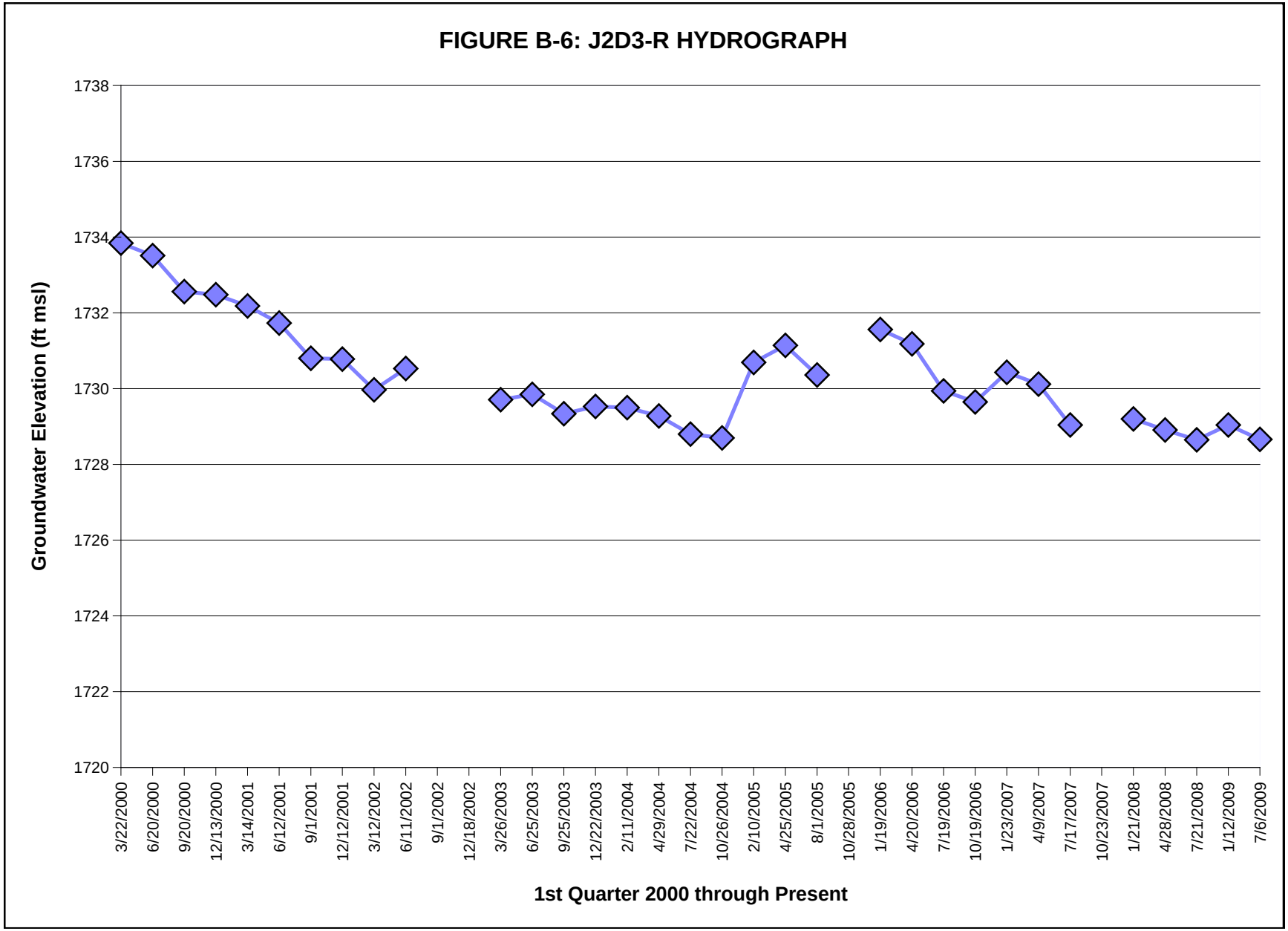


FIGURE B-6: J2D3-R HYDROGRAPH
Groundwater Elevation (ft msl)
1738
1736
1734
1732
1730
1728
1726
1724
1722
1720
3/22/2000
6/20/2000
9/20/2000
12/13/2000
3/14/2001
6/12/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/25/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/10/2005
4/25/2005
8/1/2005
10/28/2005
1/19/2006
4/20/2006
7/19/2006
10/19/2006
1/23/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
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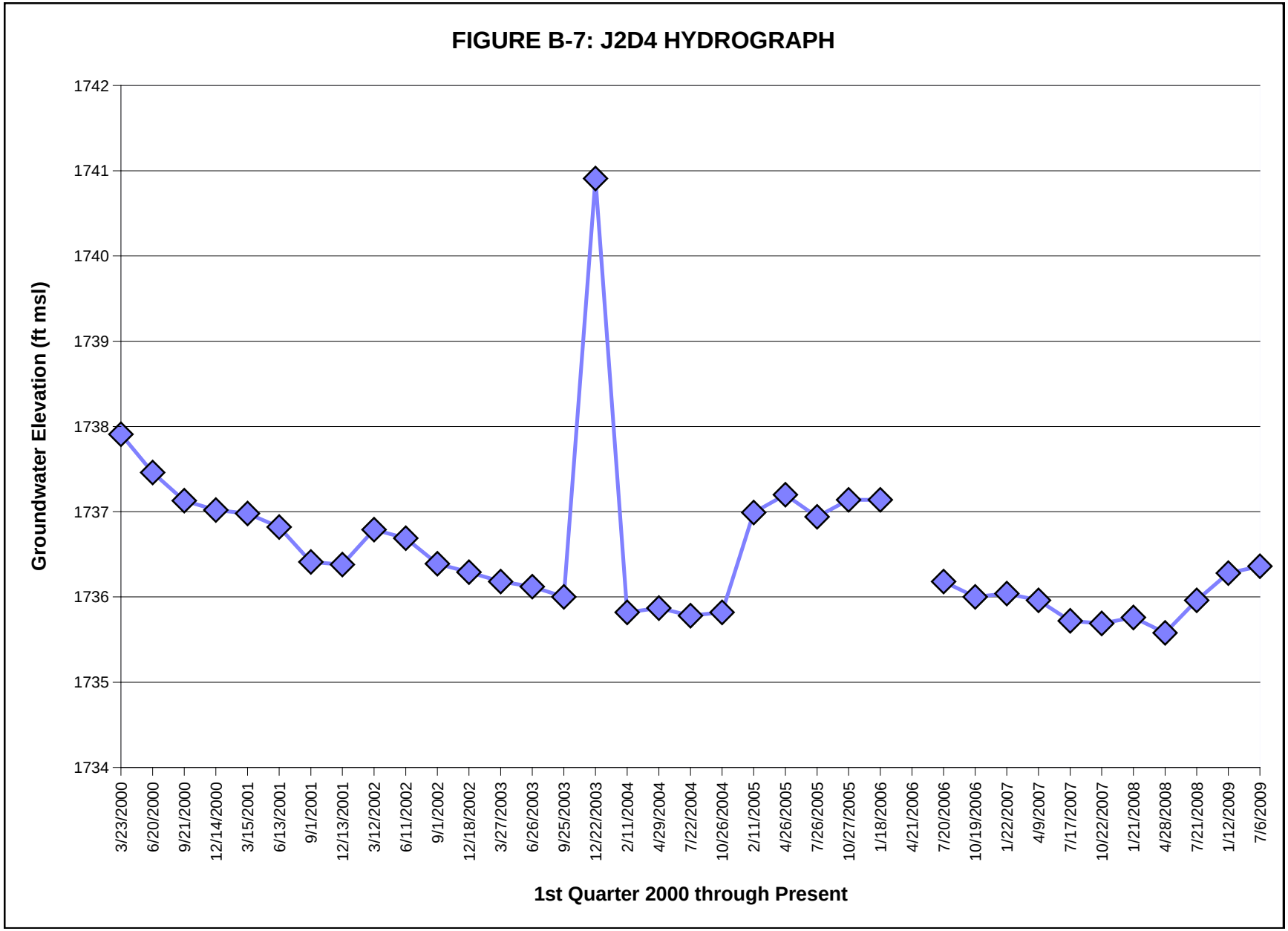
FIGURE B-7: J2D4 HYDROGRAPH
Groundwater Elevation (ft msl)
1742
1741
1740
1739
1738
1737
1736
1735
1734
3/23/2000
6/20/2000
9/21/2000
12/14/2000
3/15/2001
6/13/2001
9/1/2001
12/13/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/27/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/11/2005
4/26/2005
7/26/2005
10/27/2005
1/18/2006
4/21/2006
7/20/2006
10/19/2006
1/22/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
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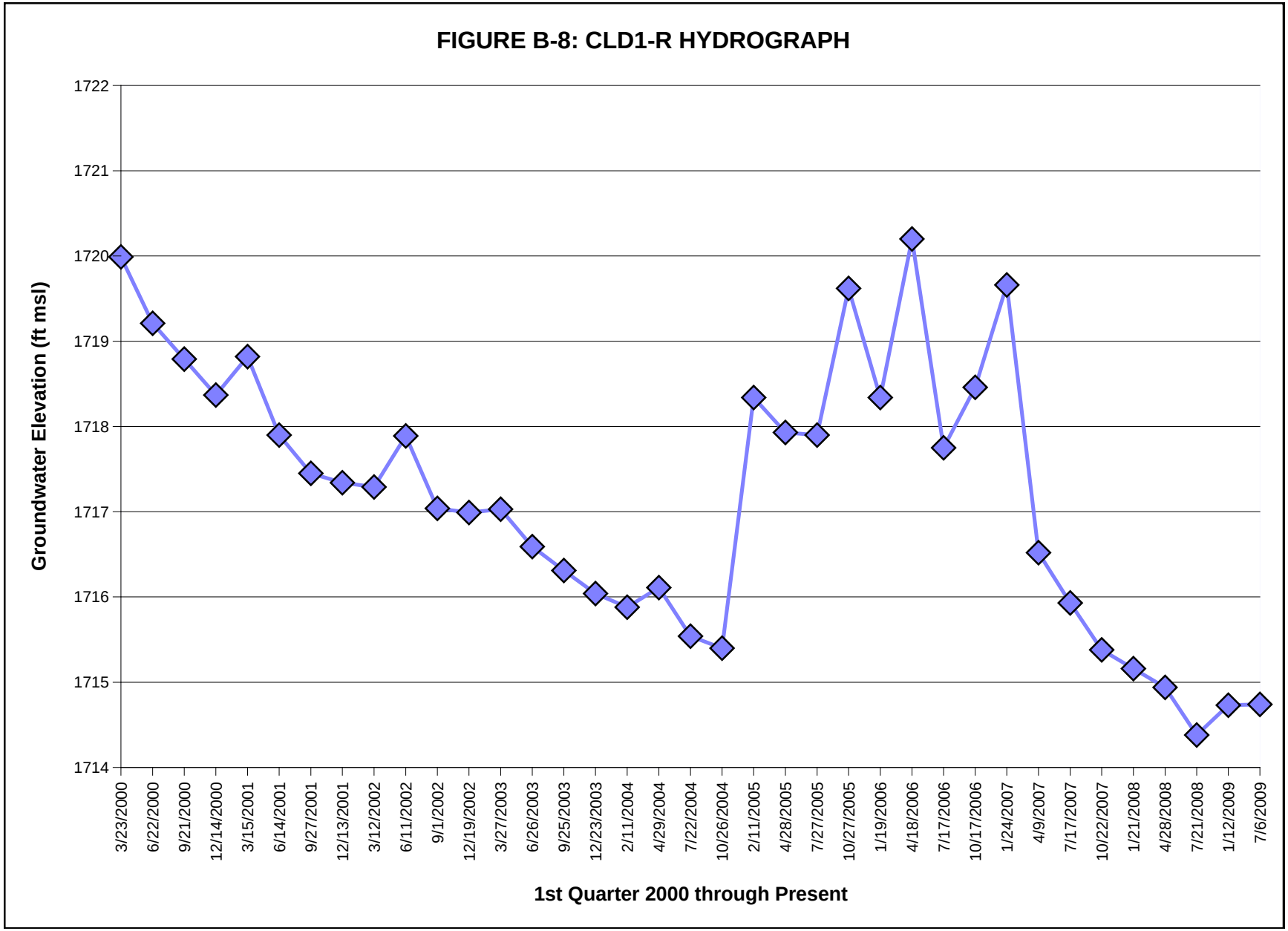


FIGURE B-8: CLD1-R HYDROGRAPH
Groundwater Elevation (ft msl)
1722
1721
1720
1719
1718
1717
1716
1715
1714
3/23/2000
6/22/2000
9/21/2000
12/14/2000
3/15/2001
6/14/2001
9/27/2001
12/13/2001
3/12/2002
6/11/2002
9/1/2002
12/19/2002
3/27/2003
6/26/2003
9/25/2003
12/23/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/11/2005
4/28/2005
7/27/2005
10/27/2005
1/19/2006
4/18/2006
7/17/2006
10/17/2006
1/24/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

FIGURE B-9: CLD2-R HYDROGRAPH

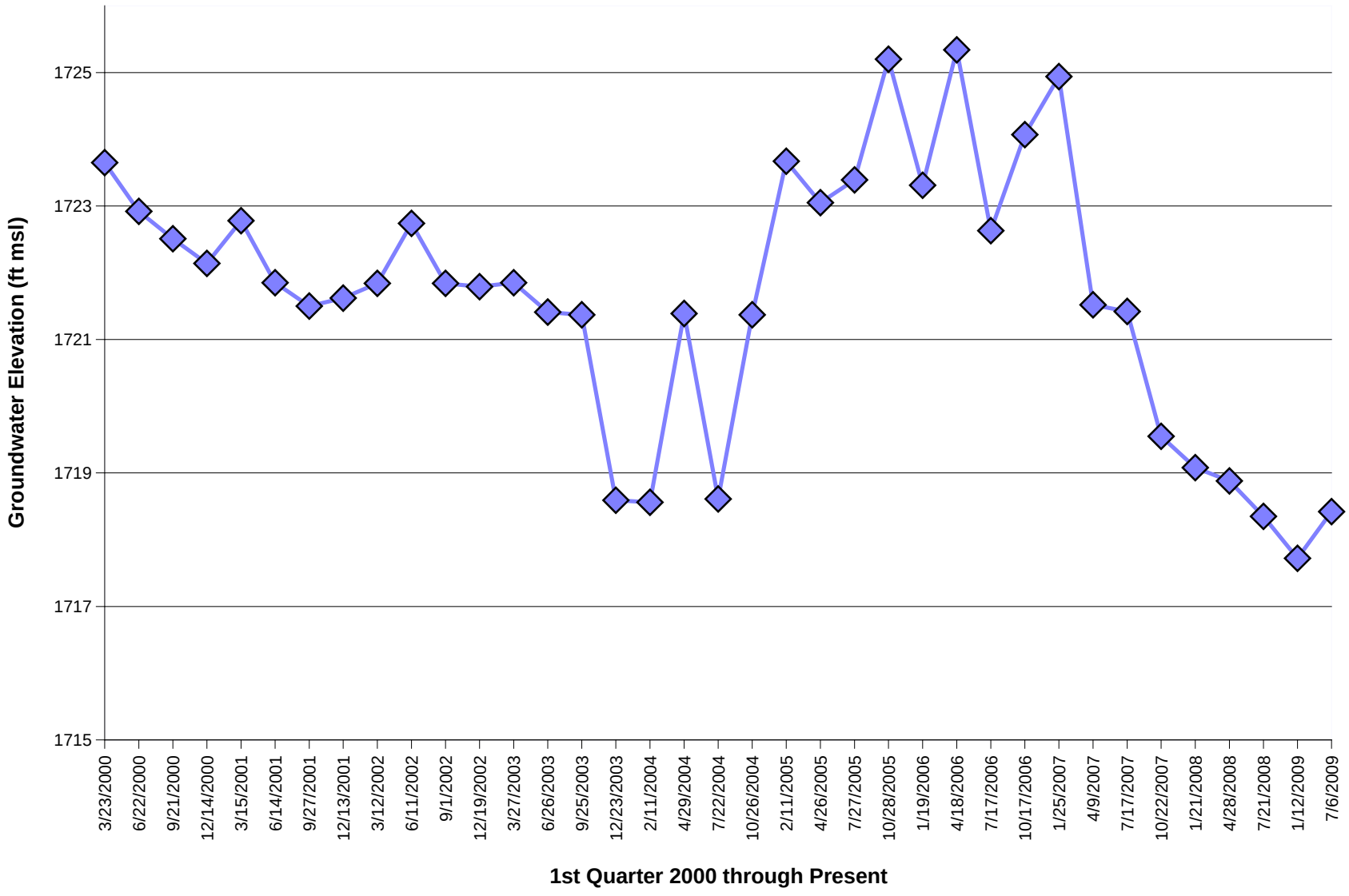


FIGURE B-10: CLD3-R HYDROGRAPH

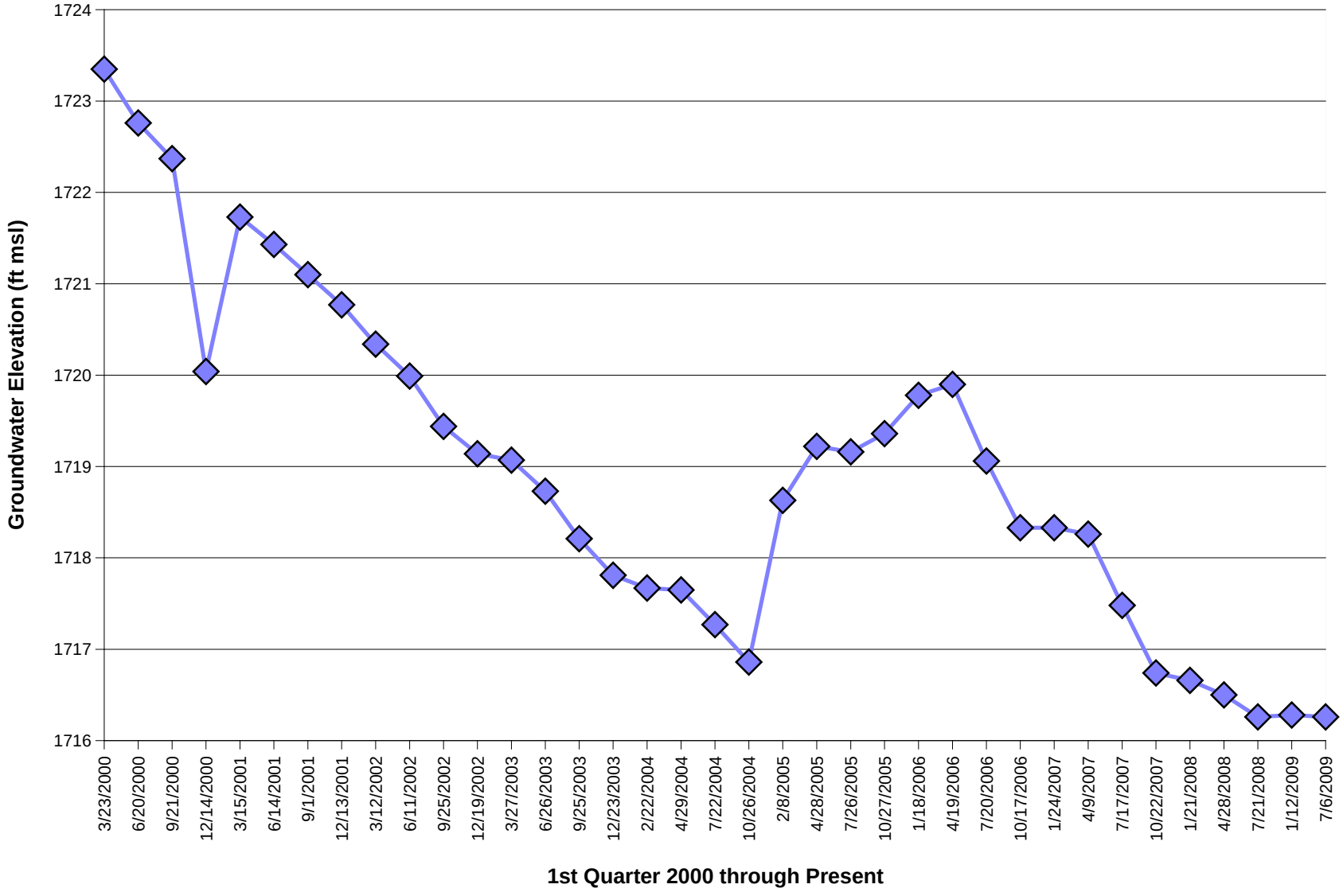


FIGURE B-11: CLD4-R HYDROGRAPH

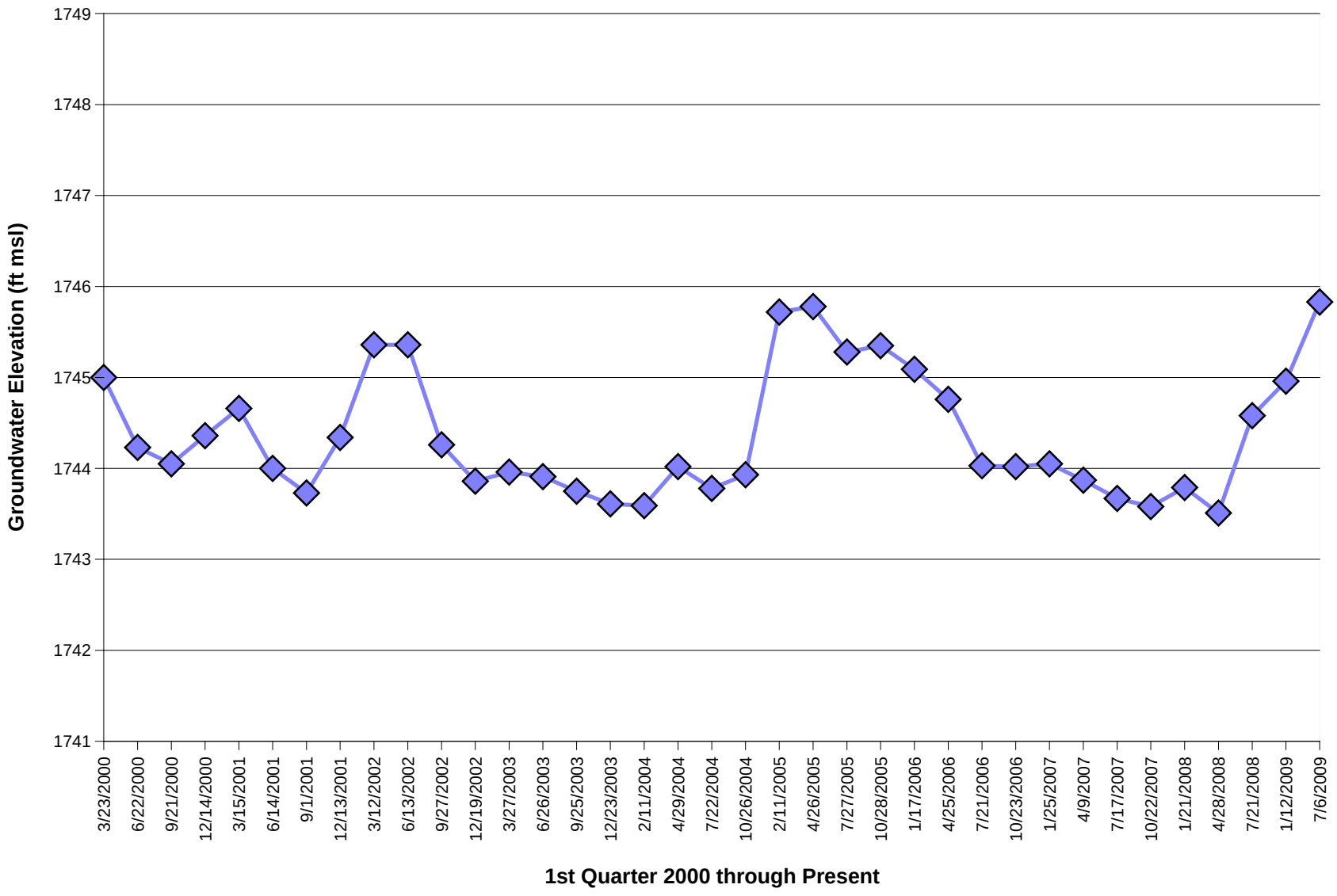
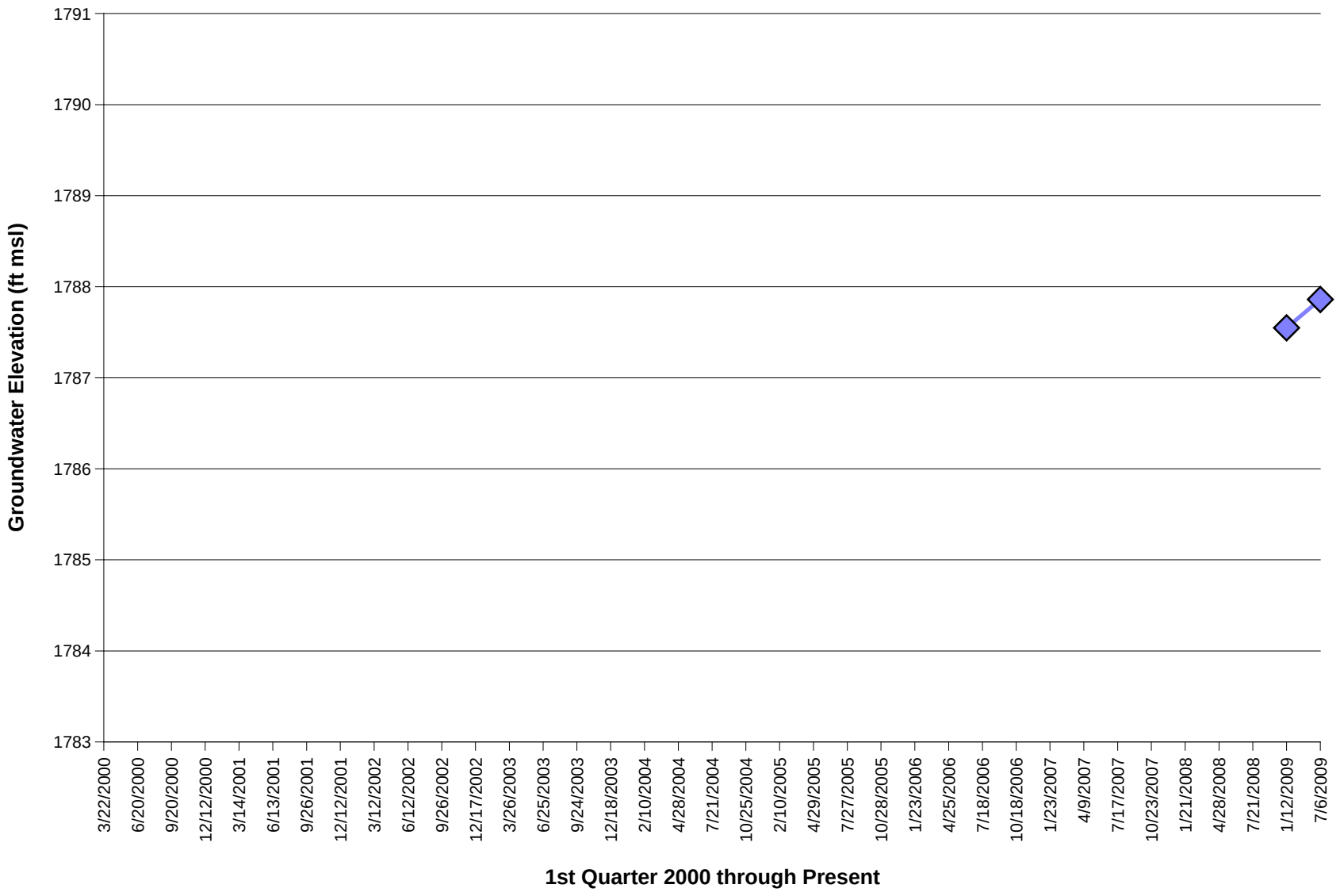


FIGURE B-12: MW-3R HYDROGRAPH



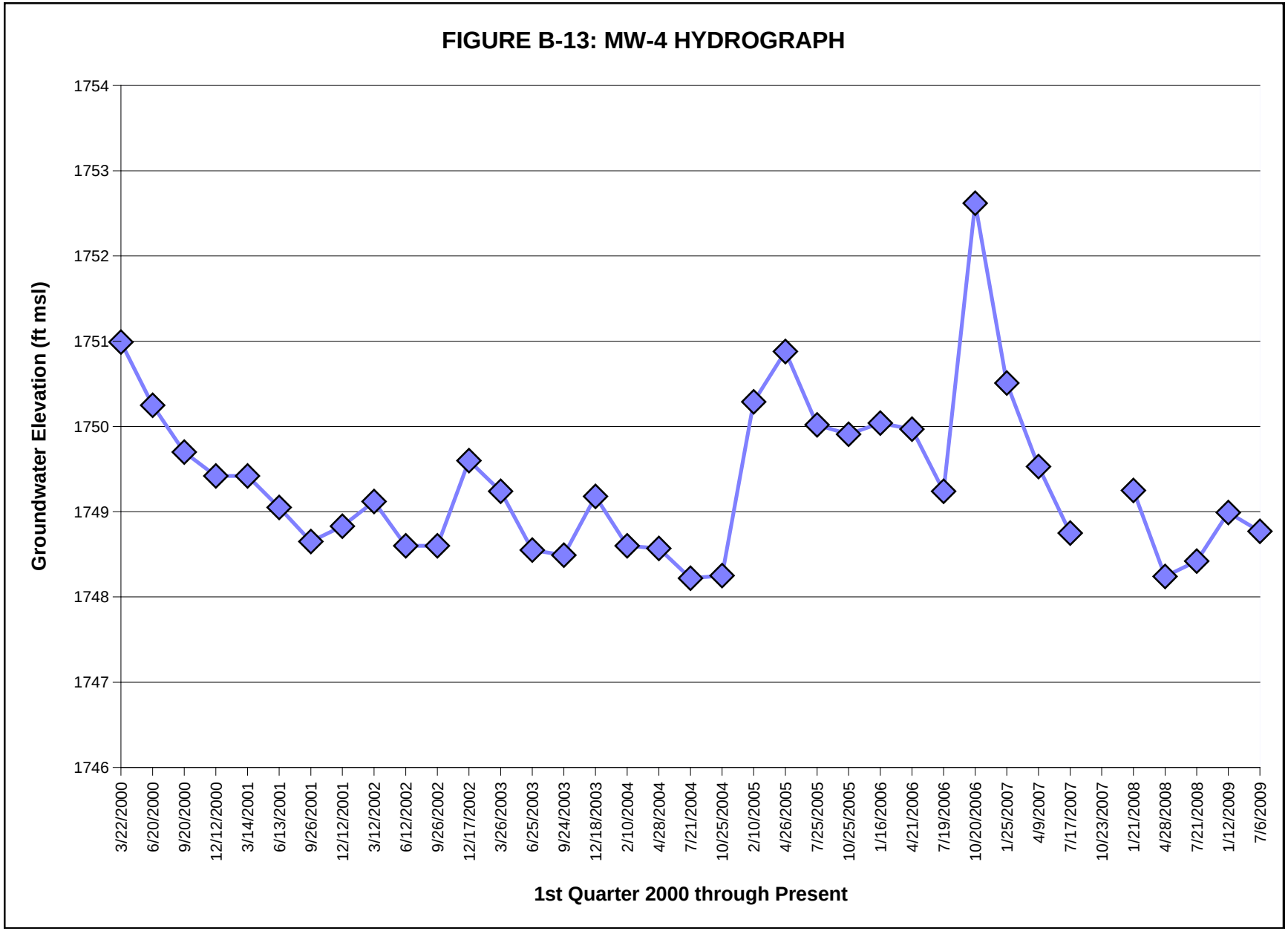


FIGURE B-13: MW-4 HYDROGRAPH
Groundwater Elevation (ft msl)
1754
1753
1752
1751
1750
1749
1748
1747
1746
3/22/2000
6/20/2000
9/20/2000
12/12/2000
3/14/2001
6/13/2001
9/26/2001
12/12/2001
3/12/2002
6/12/2002
9/26/2002
12/17/2002
3/26/2003
6/25/2003
9/24/2003
12/18/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/10/2005
4/26/2005
7/25/2005
10/25/2005
1/16/2006
4/21/2006
7/19/2006
10/20/2006
1/25/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

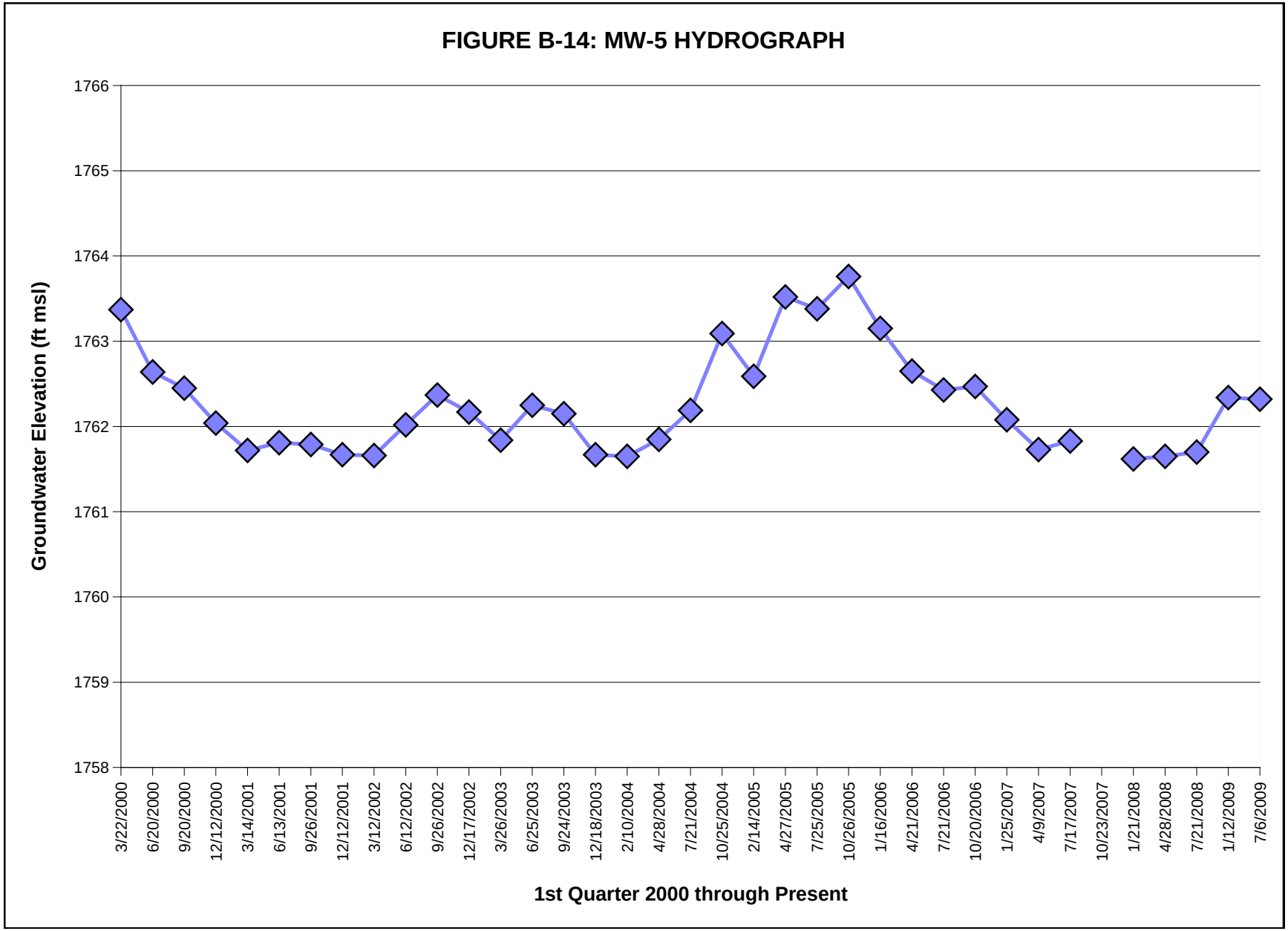


FIGURE B-14: MW-5 HYDROGRAPH
Groundwater Elevation (ft msl)
1766
1765
1764
1763
1762
1761
1760
1759
1758
3/22/2000
6/20/2000
9/20/2000
12/12/2000
3/14/2001
6/13/2001
9/26/2001
12/12/2001
3/12/2002
6/12/2002
9/26/2002
12/17/2002
3/26/2003
6/25/2003
9/24/2003
12/18/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/14/2005
4/27/2005
7/25/2005
10/26/2005
1/16/2006
4/21/2006
7/21/2006
10/20/2006
1/25/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

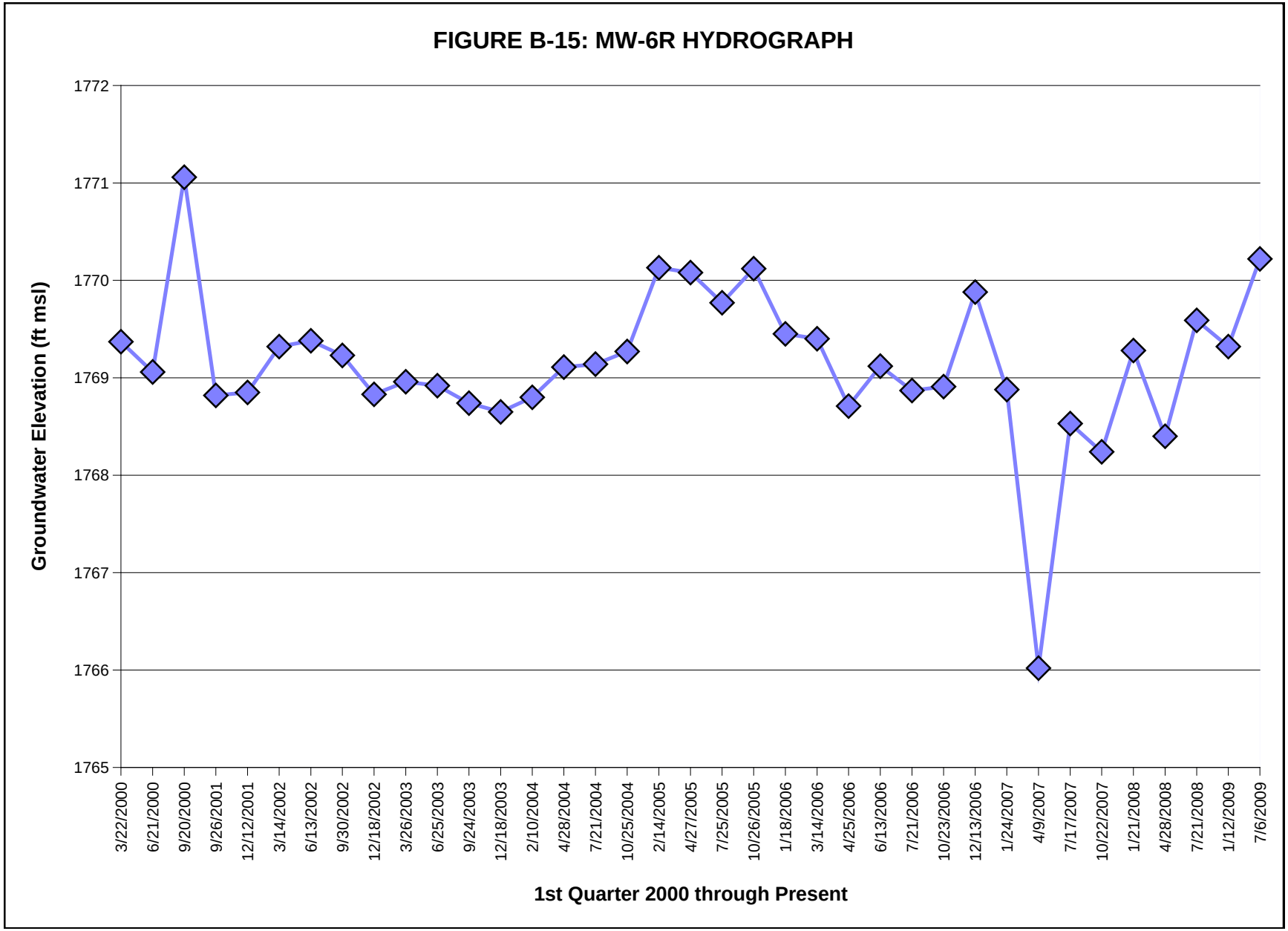


FIGURE B-15: MW-6R HYDROGRAPH
Groundwater Elevation (ft msl)
1772
1771
1770
1769
1768
1767
1766
1765
3/22/2000
6/21/2000
9/20/2000
9/26/2001
12/12/2001
3/14/2002
6/13/2002
9/30/2002
12/18/2002
3/26/2003
6/25/2003
9/24/2003
12/18/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/14/2005
4/27/2005
7/25/2005
10/26/2005
1/18/2006
3/14/2006
4/25/2006
6/13/2006
7/21/2006
10/23/2006
12/13/2006
1/24/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

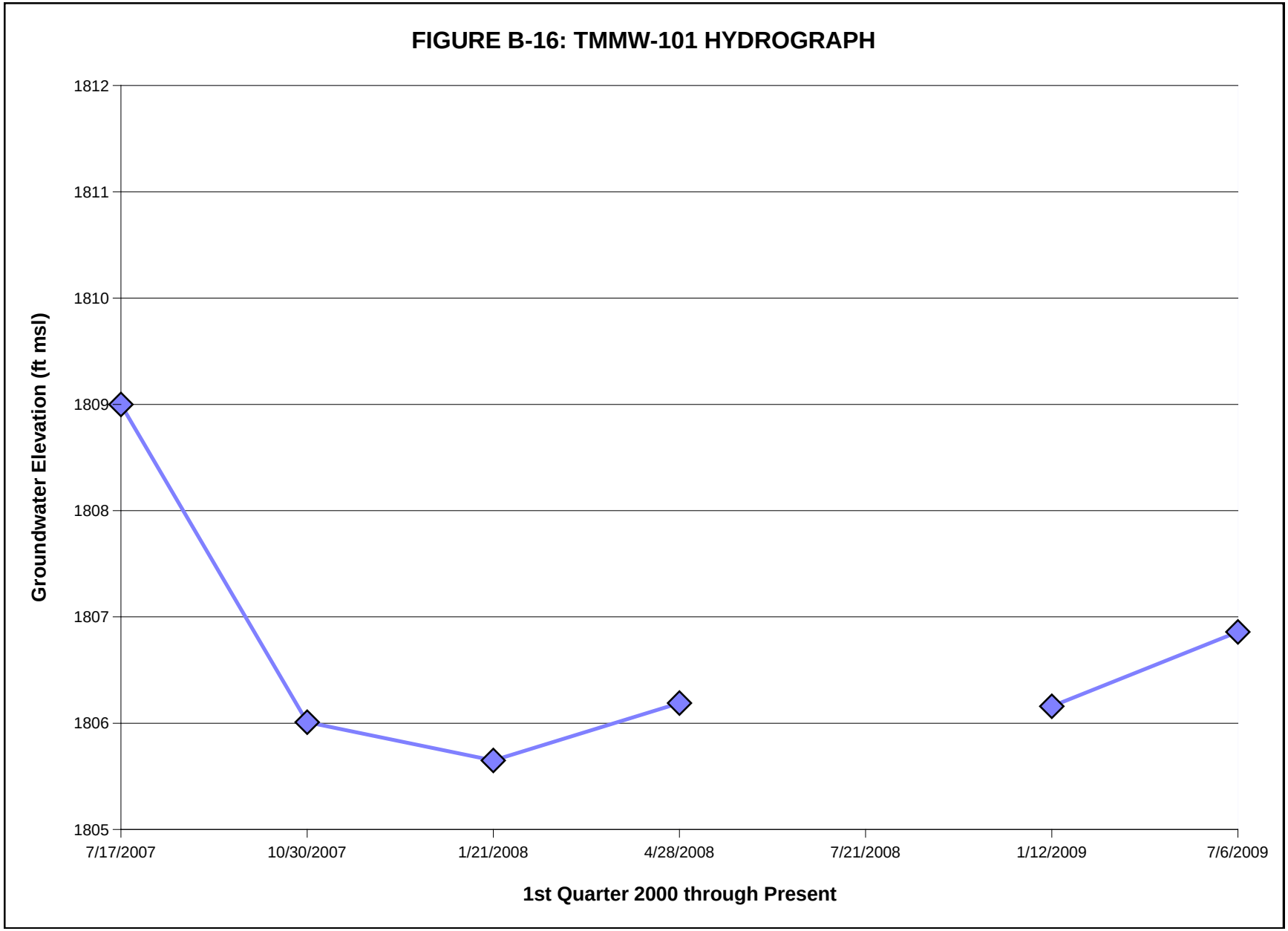


FIGURE B-16: TMMW-101 HYDROGRAPH
Groundwater Elevation (ft msl)
1812
1811
1810
1809
1808
1807
1806
1805
7/17/2007
10/30/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

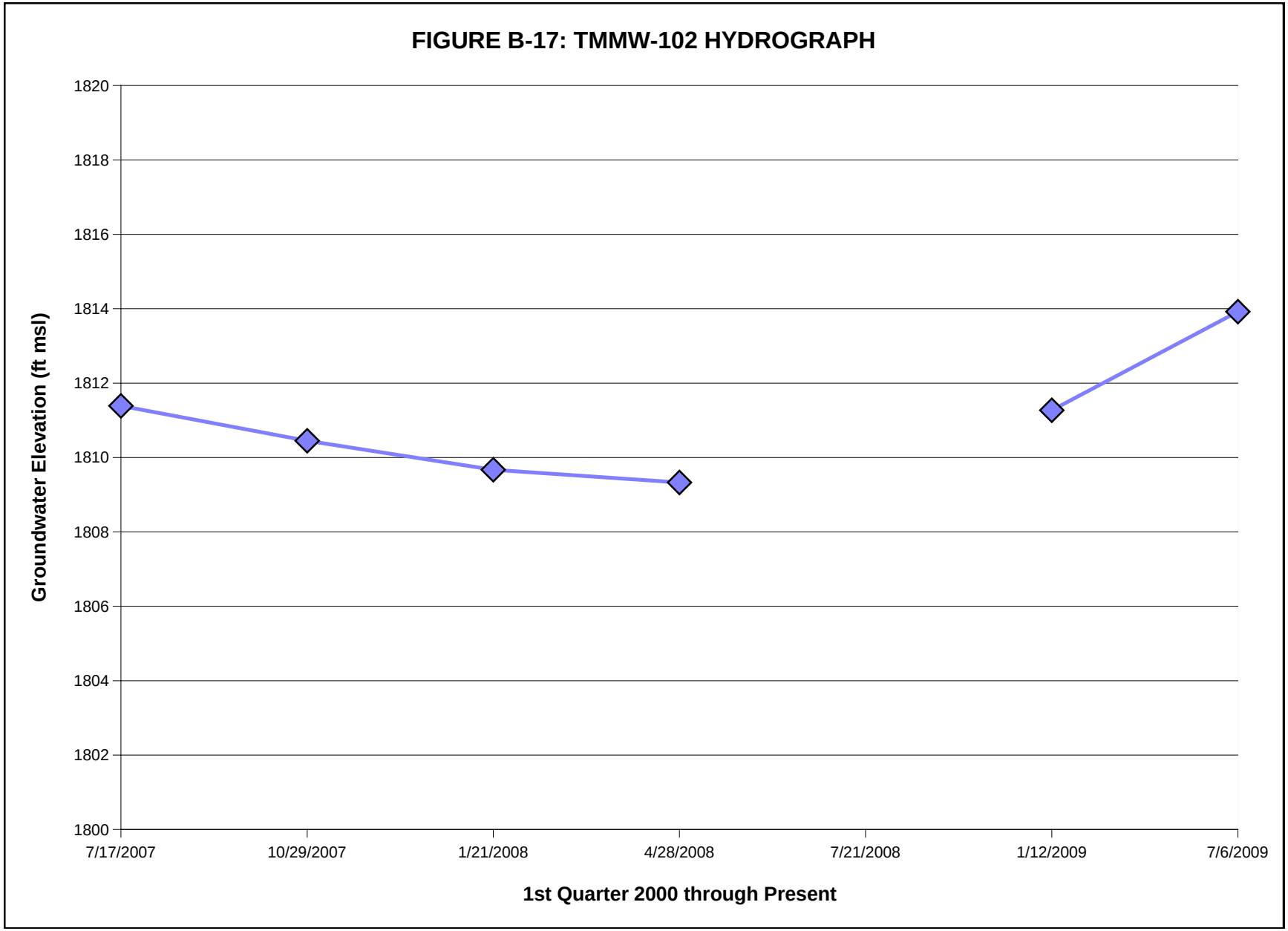


FIGURE B-17: TMMW-102 HYDROGRAPH
Groundwater Elevation (ft msl)
1820
1818
1816
1814
1812
1810
1808
1806
1804
1802
1800
7/17/2007
10/29/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

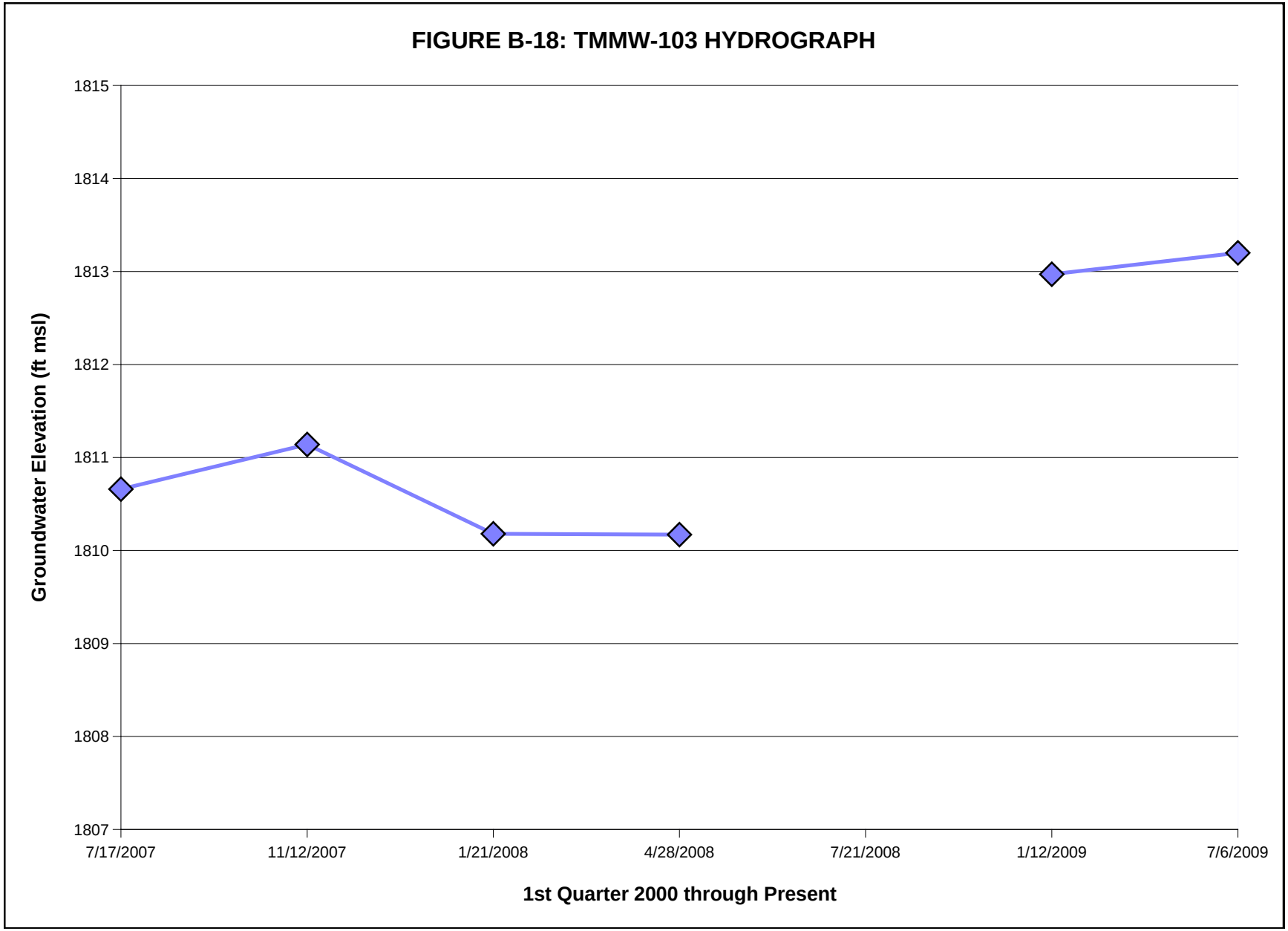


FIGURE B-18: TMMW-103 HYDROGRAPH
Groundwater Elevation (ft msl)
1815
1814
1813
1812
1811
1810
1809
1808
1807
7/17/2007
11/12/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

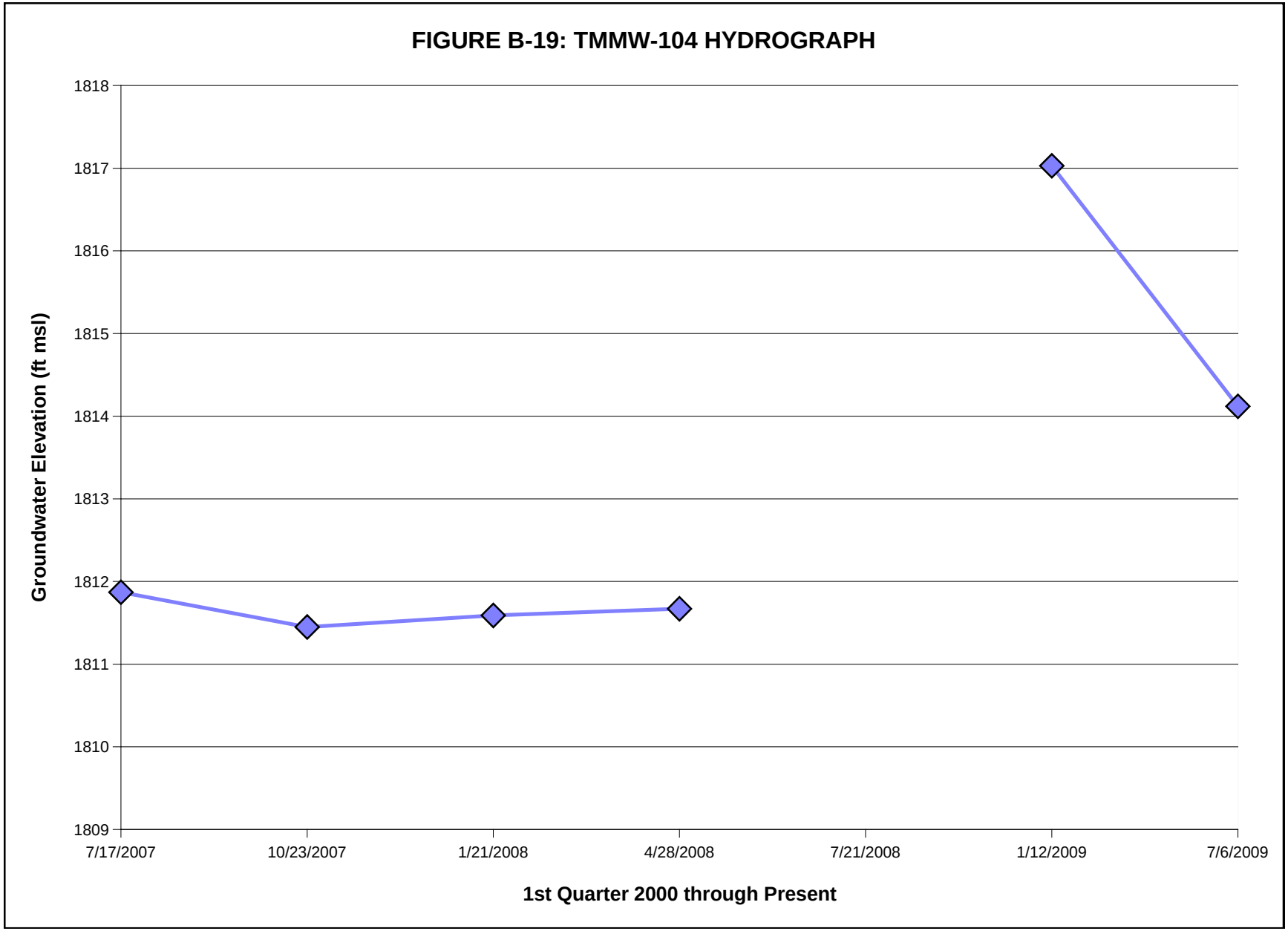


FIGURE B-19: TMMW-104 HYDROGRAPH
Groundwater Elevation (ft msl)
1818
1817
1816
1815
1814
1813
1812
1811
1810
1809
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

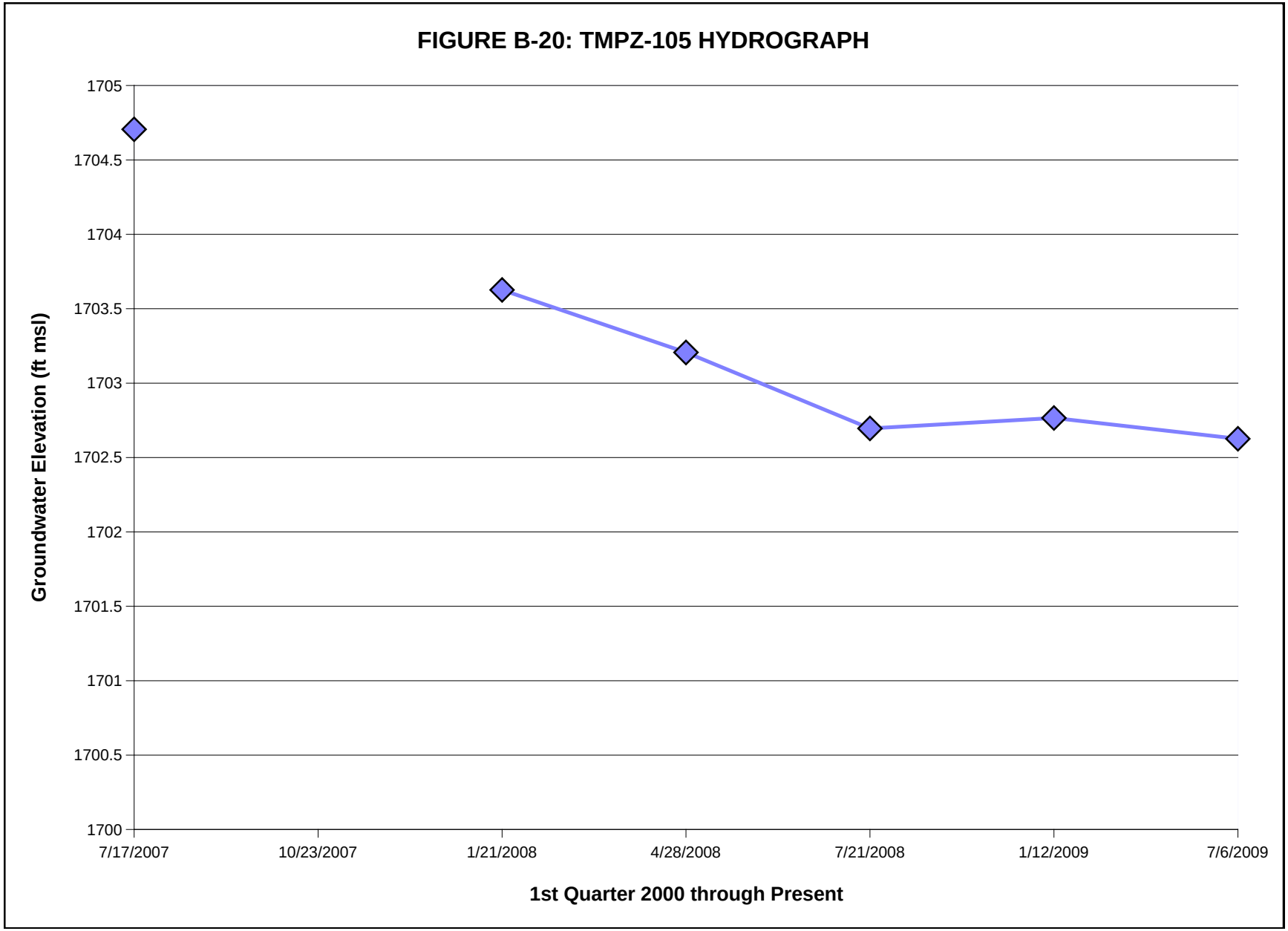


FIGURE B-20: TMPZ-105 HYDROGRAPH
Groundwater Elevation (ft msl)
1705
1704.5
1704
1703.5
1703
1702.5
1702
1701.5
1701
1700.5
1700
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

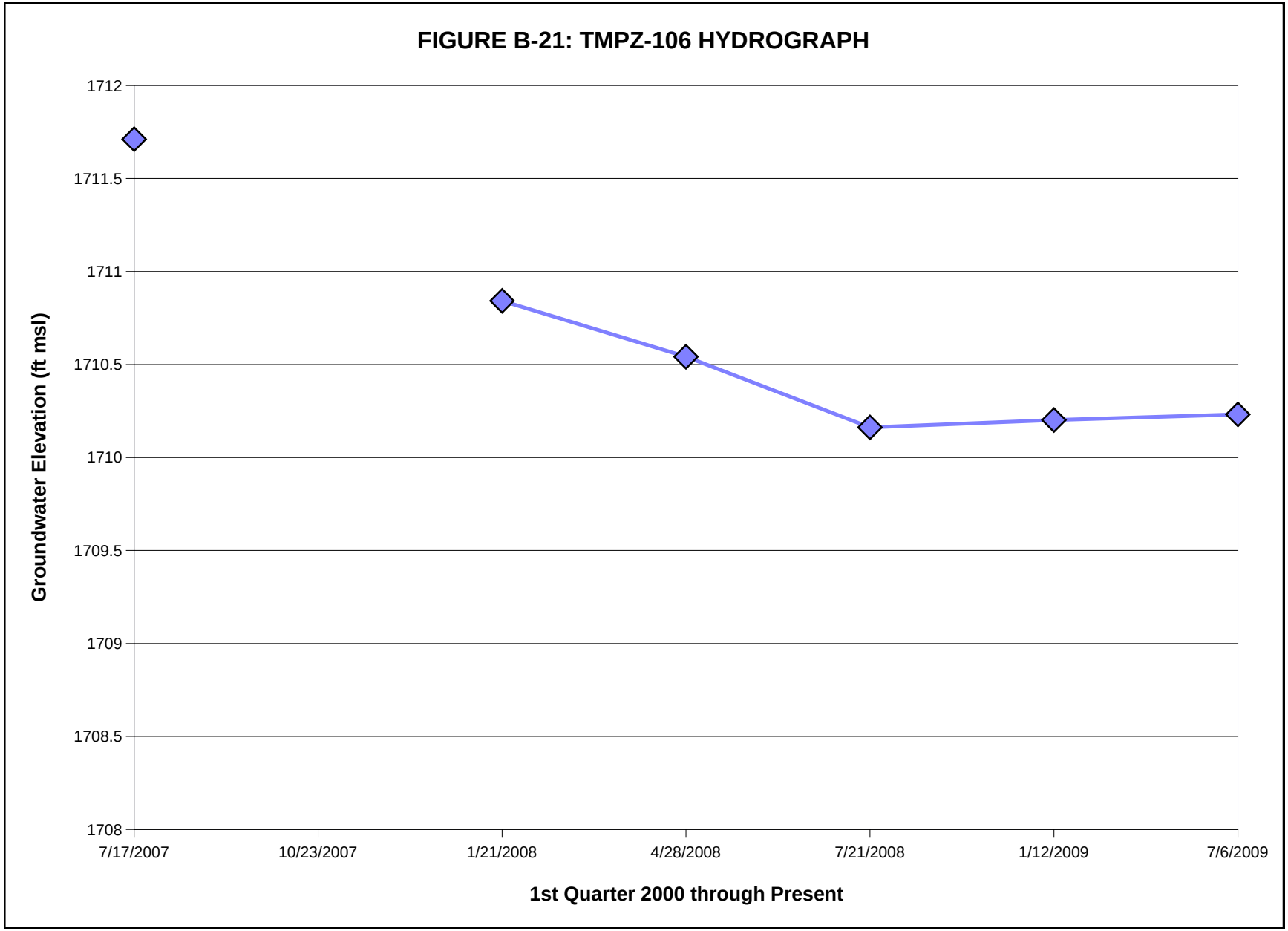


FIGURE B-21: TMPZ-106 HYDROGRAPH
Groundwater Elevation (ft msl)
1712
1711.5
1711
1710.5
1710
1709.5
1709
1708.5
1708
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

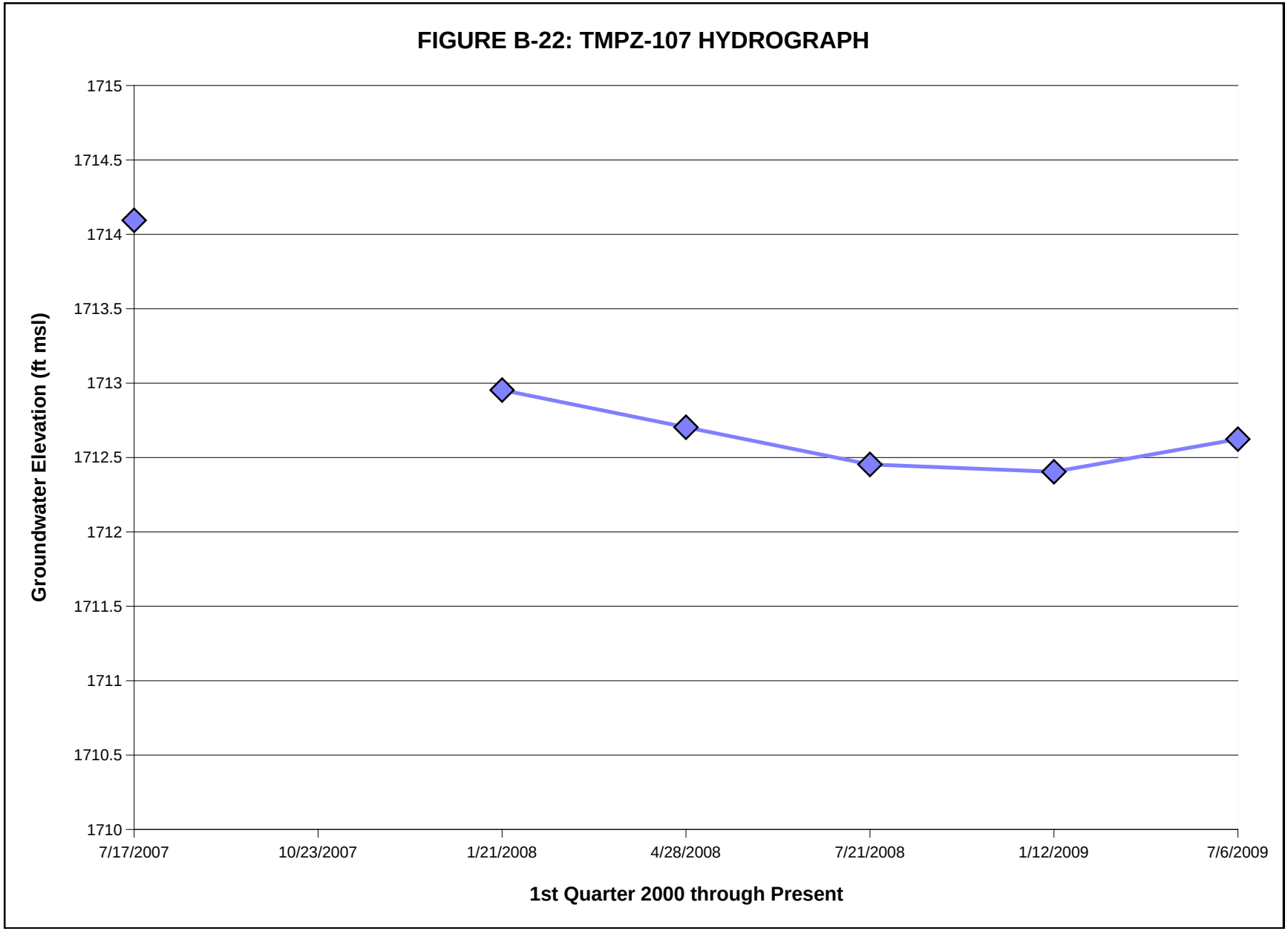


FIGURE B-22: TMPZ-107 HYDROGRAPH
Groundwater Elevation (ft msl)
1715
1714.5
1714
1713.5
1713
1712.5
1712
1711.5
1711
1710.5
1710
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

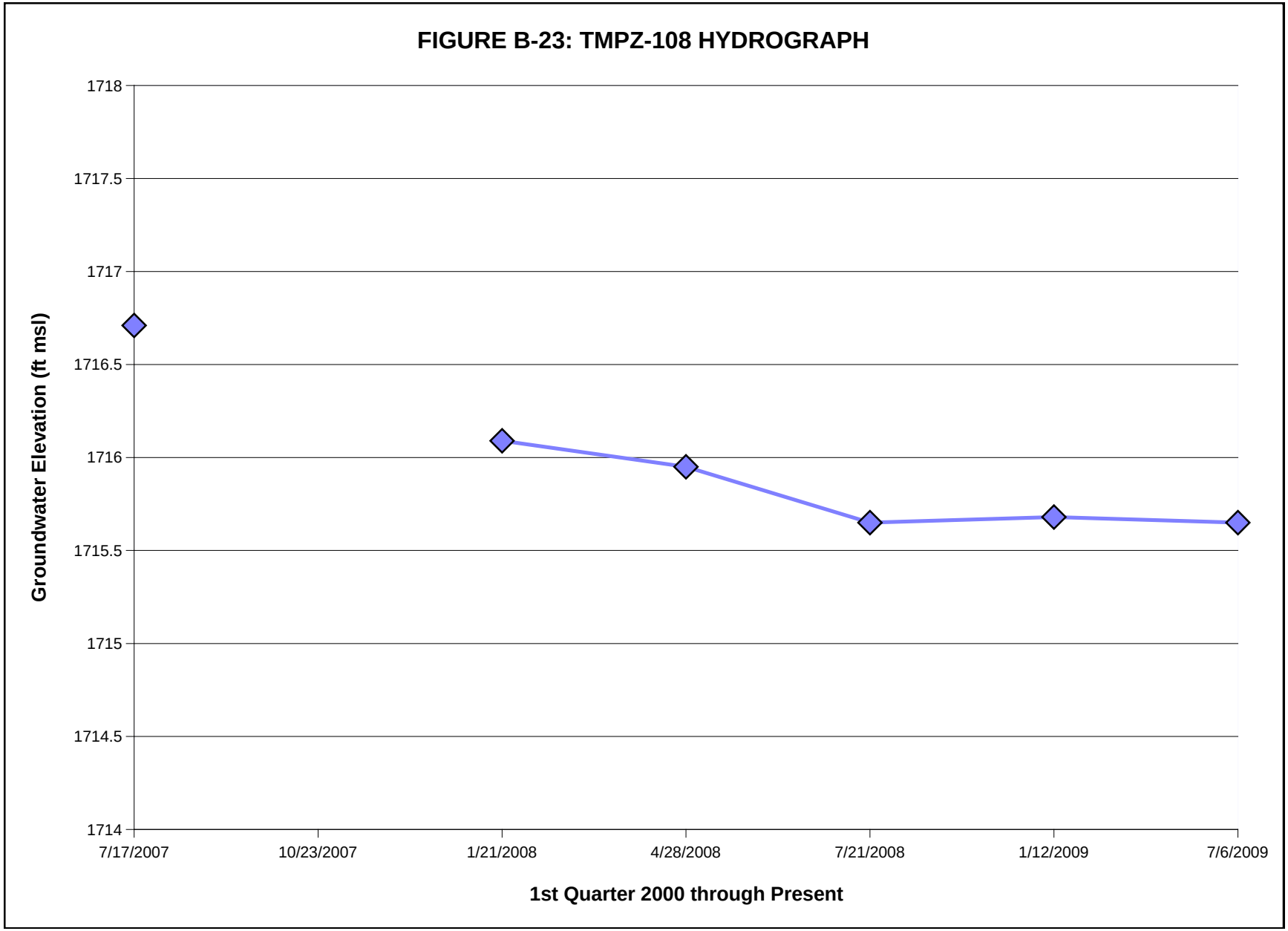


FIGURE B-23: TMPZ-108 HYDROGRAPH
Groundwater Elevation (ft msl)
1718
1717.5
1717
1716.5
1716
1715.5
1715
1714.5
1714
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

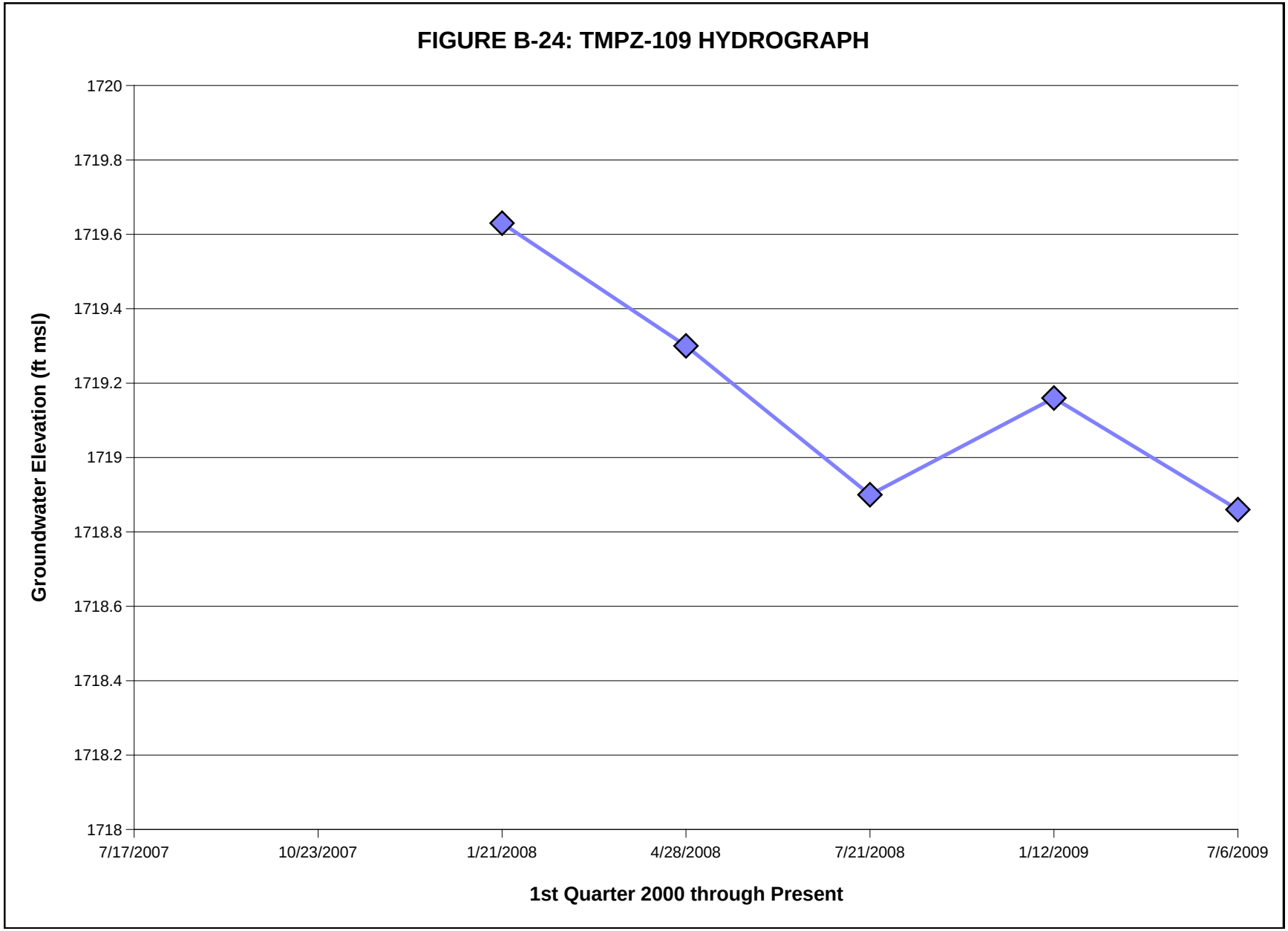


FIGURE B-24: TMPZ-109 HYDROGRAPH
Groundwater Elevation (ft msl)
1720
1719.8
1719.6
1719.4
1719.2
1719
1718.8
1718.6
1718.4
1718.2
1718
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

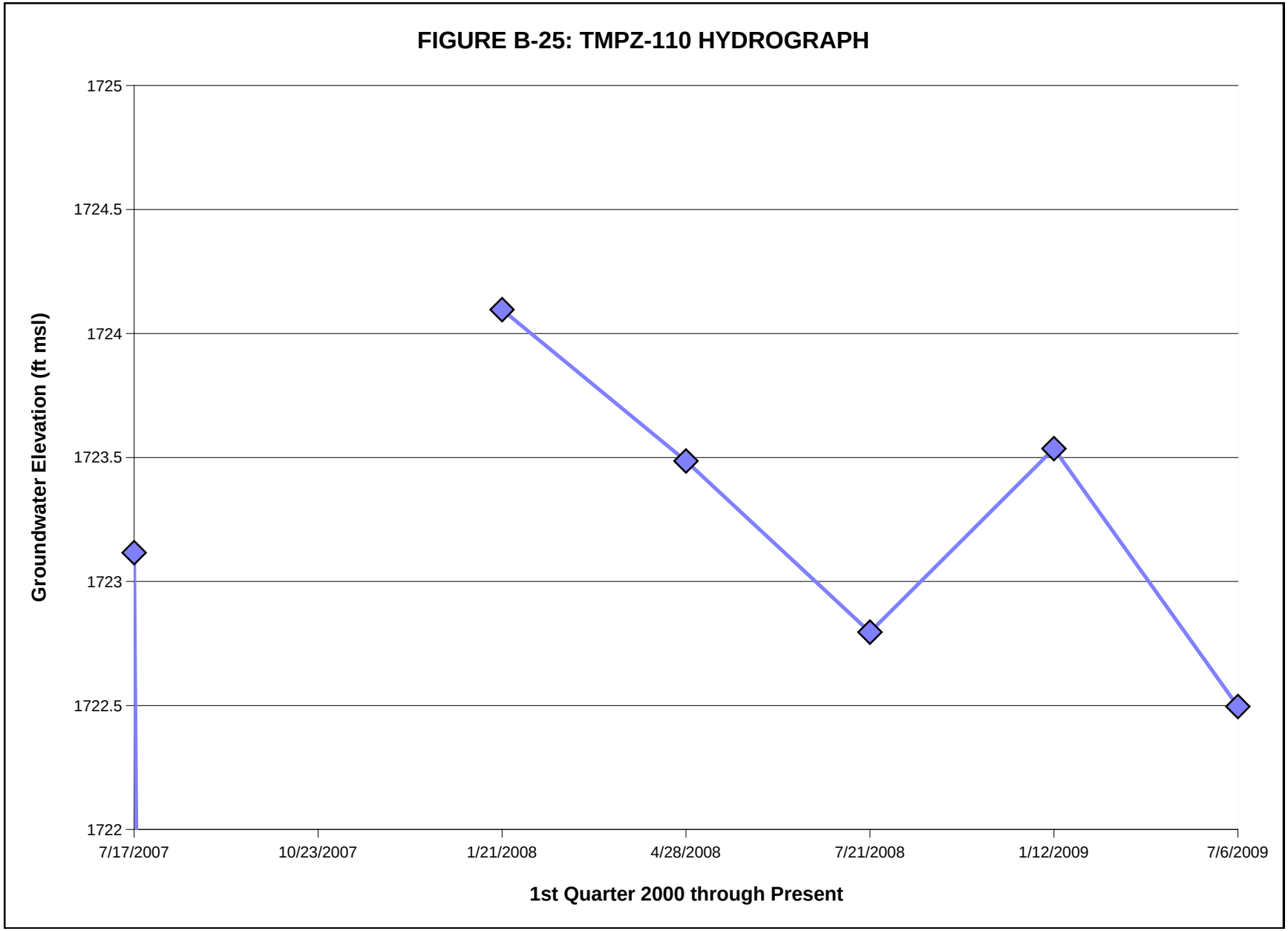


FIGURE B-25: TMPZ-110 HYDROGRAPH
Groundwater Elevation (ft msl)
1725
1724.5
1724
1723.5
1723
1722.5
1722
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

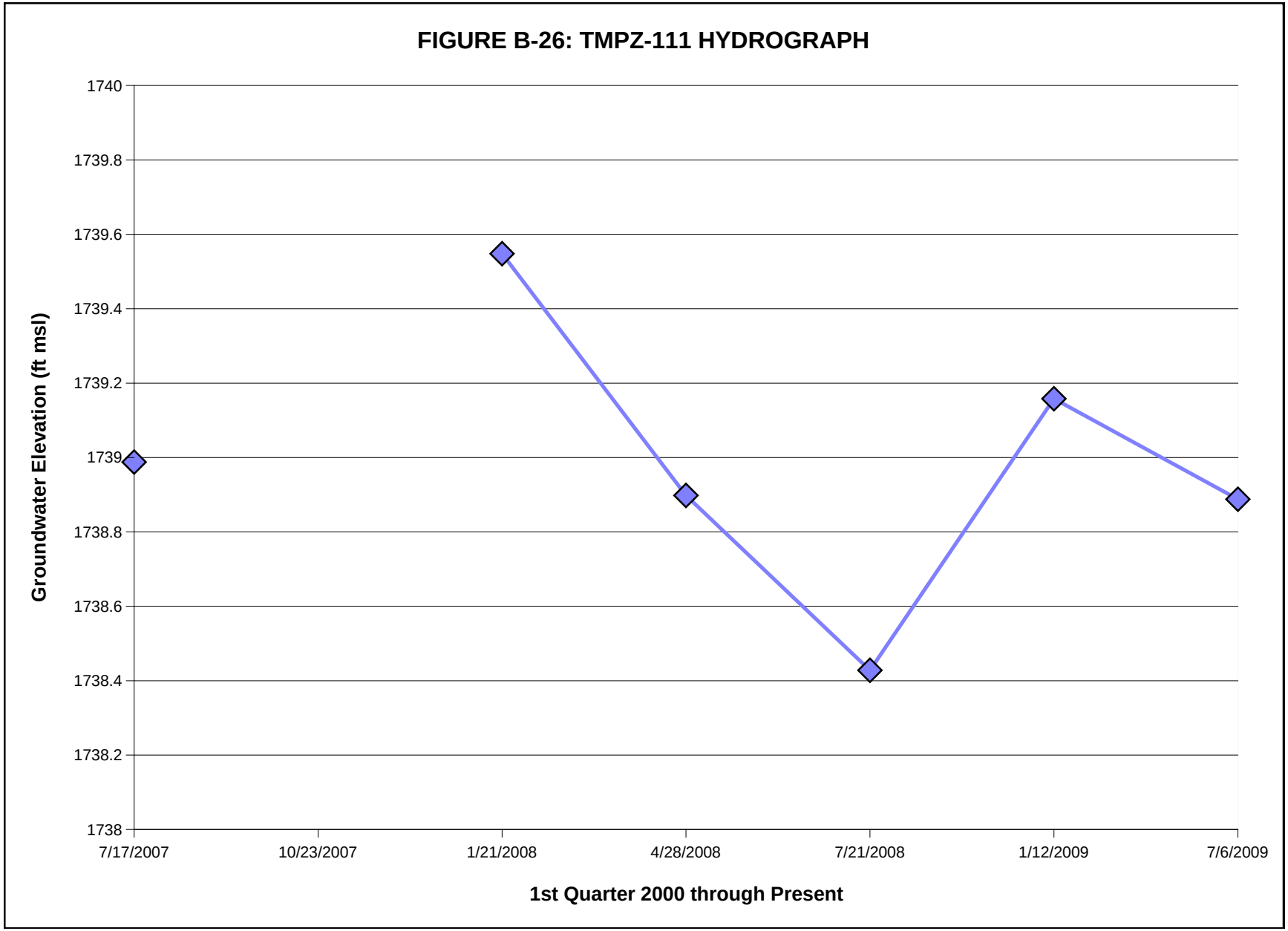


FIGURE B-26: TMPZ-111 HYDROGRAPH
Groundwater Elevation (ft msl)
1740
1739.8
1739.6
1739.4
1739.2
1739
1738.8
1738.6
1738.4
1738.2
1738
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

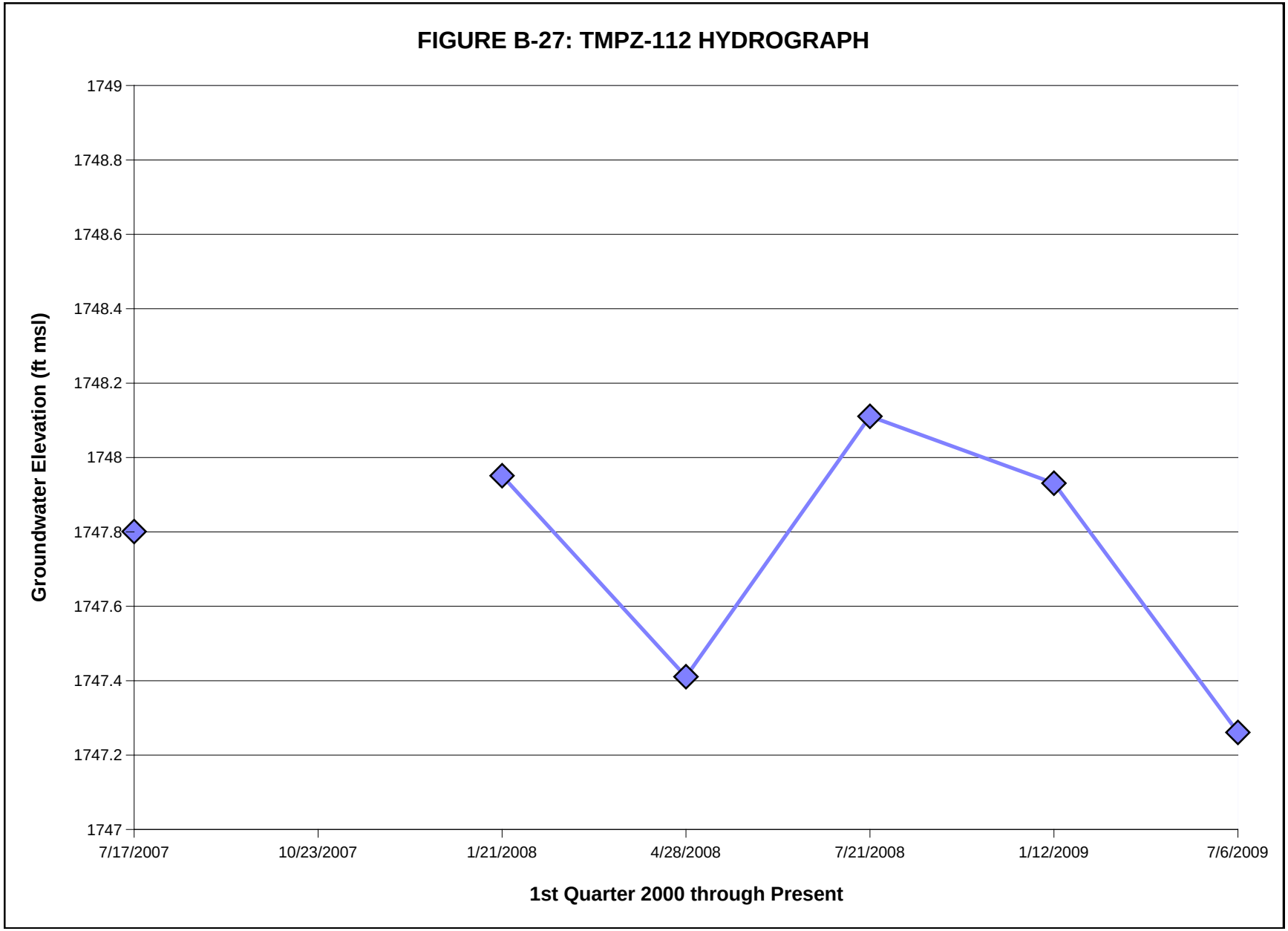


FIGURE B-27: TMPZ-112 HYDROGRAPH
Groundwater Elevation (ft msl)
1749
1748.8
1748.6
1748.4
1748.2
1748
1747.8
1747.6
1747.4
1747.2
1747
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

APPENDIX C

CONCENTRATION TREND GRAPHS

APPENDIX C

CONCENTRATION TREND GRAPHS

C-1 ARSENIC
C-2 BARIUM LOW
C-3 BARIUM HIGH
C-4 BICARBONATE
C-5 CALCIUM LOW
C-6 CALCIUM HIGH
C-7 CARBON TETRACHLORIDE LOW
C-8 CARBON TETRACHLORIDE HIGH
C-9 CHLORIDE LOW
C-10 CHLORIDE HIGH
C-11 CHLOROFORM
C-12 CHROMIUM LOW
C-13 CHROMIUM HIGH
C-14 1,1-DICHLOROETHENE
C-15 IRON LOW
C-16 IRON HIGH
C-17 LEAD
C-18 MAGNESIUM LOW
C-19 MAGNESIUM HIGH
C-20 MANGANESE
C-21 ADJUSTED GROSS ALPHA & GROSS BETA
C-22 NITRATE AS NITROGEN
C-23 RADON-222
C-24 COMBINED RADIUM-226 AND RADIUM-228
C-25 SELENIUM
C-26 SODIUM LOW
C-27 SODIUM HIGH
C-28 SULFATE LOW
C-29 SULFATE HIGH
C-30 TETRACHLOROETHENE LOW
C-31 TETRACHLOROETHENE HIGH
C-32 TOTAL DISSOLVED SOLIDS LOW
C-33 TOTAL DISSOLVED SOLIDS HIGH
C-34 TOTAL TRIHALOMETHANES LOW
C-35 TOTAL TRIHALOMETHANES HIGH
C-36 TOTAL URANIUM LOW
C-37 TOTAL URANIUM HIGH
C-38 TRICHLOROETHENE
C-39 VANADIUM LOW
C-40 VANADIUM HIGH

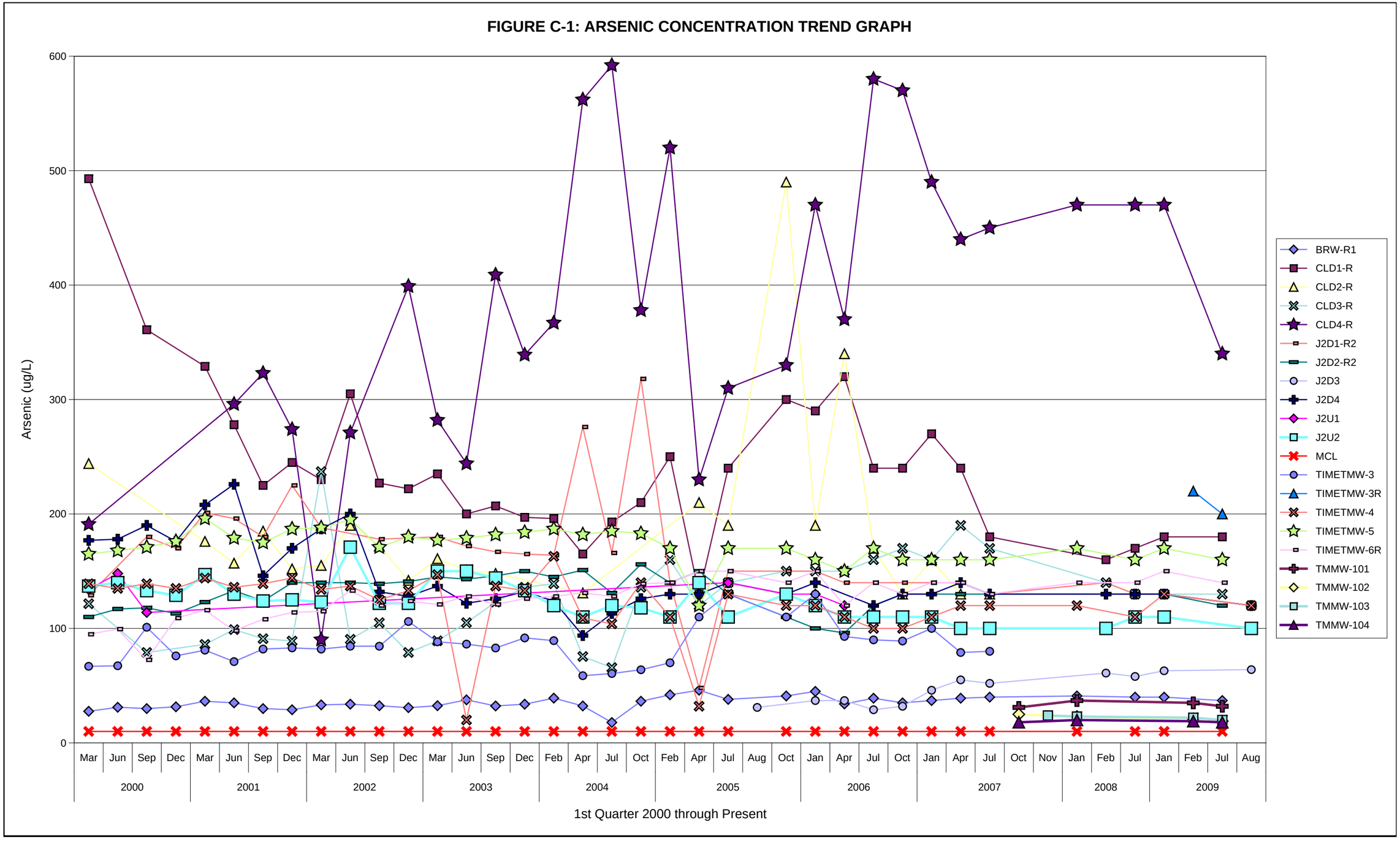


FIGURE C-1: ARSENIC CONCENTRATION TREND GRAPH
Arsenic (ug/L)
600
500
400
300
200
100
0
Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Feb Apr Jul Oct Feb Apr Jul Aug Oct Jan Apr Jul Oct Jan Apr Jul Oct Nov Jan Feb Jul Jan Feb Jul Aug
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009
1st Quarter 2000 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

FIGURE C-2: BARIUM (low range) CONCENTRATION TREND GRAPH

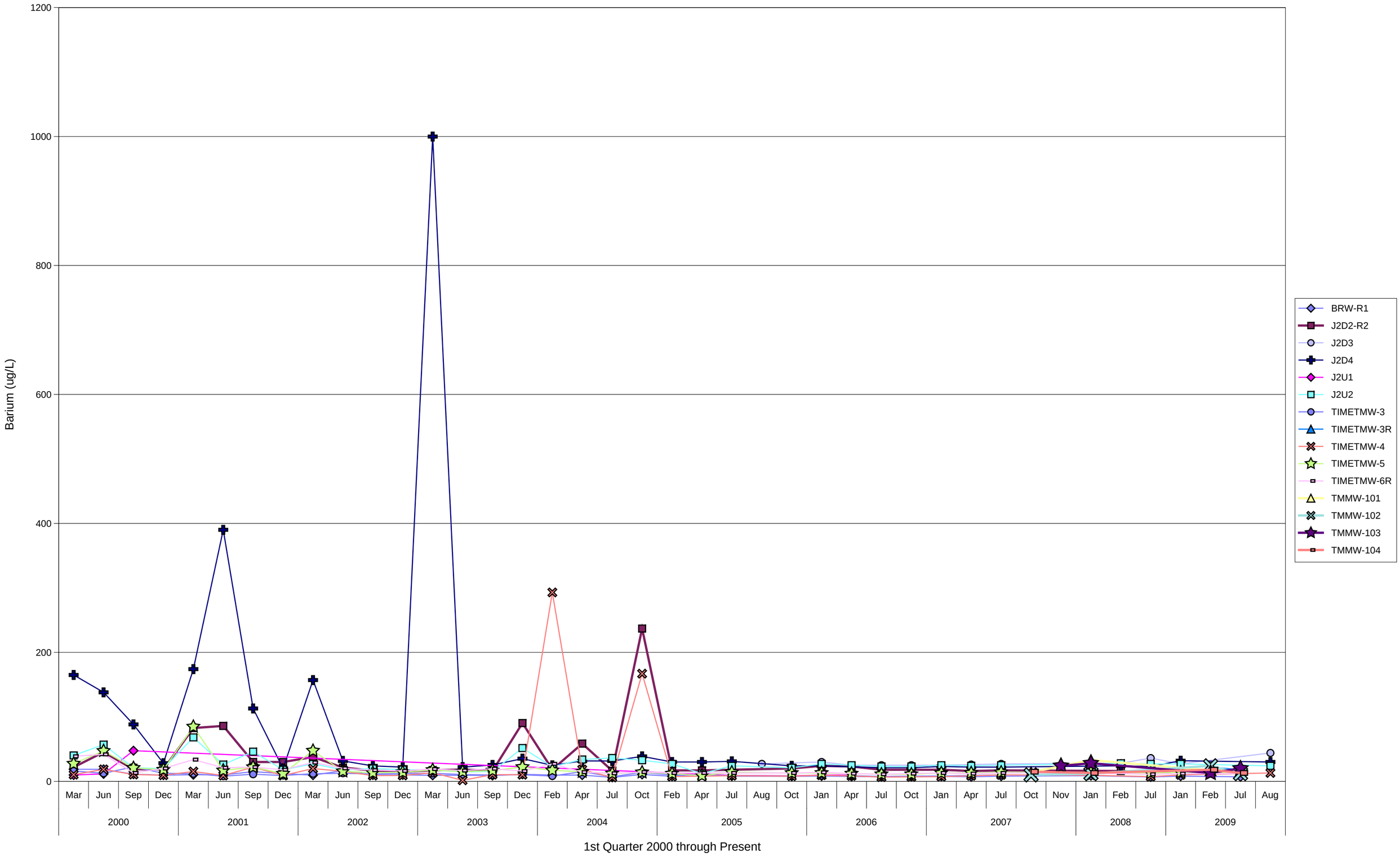


FIGURE C-3: BARIUM (high range) CONCENTRATION TREND GRAPH

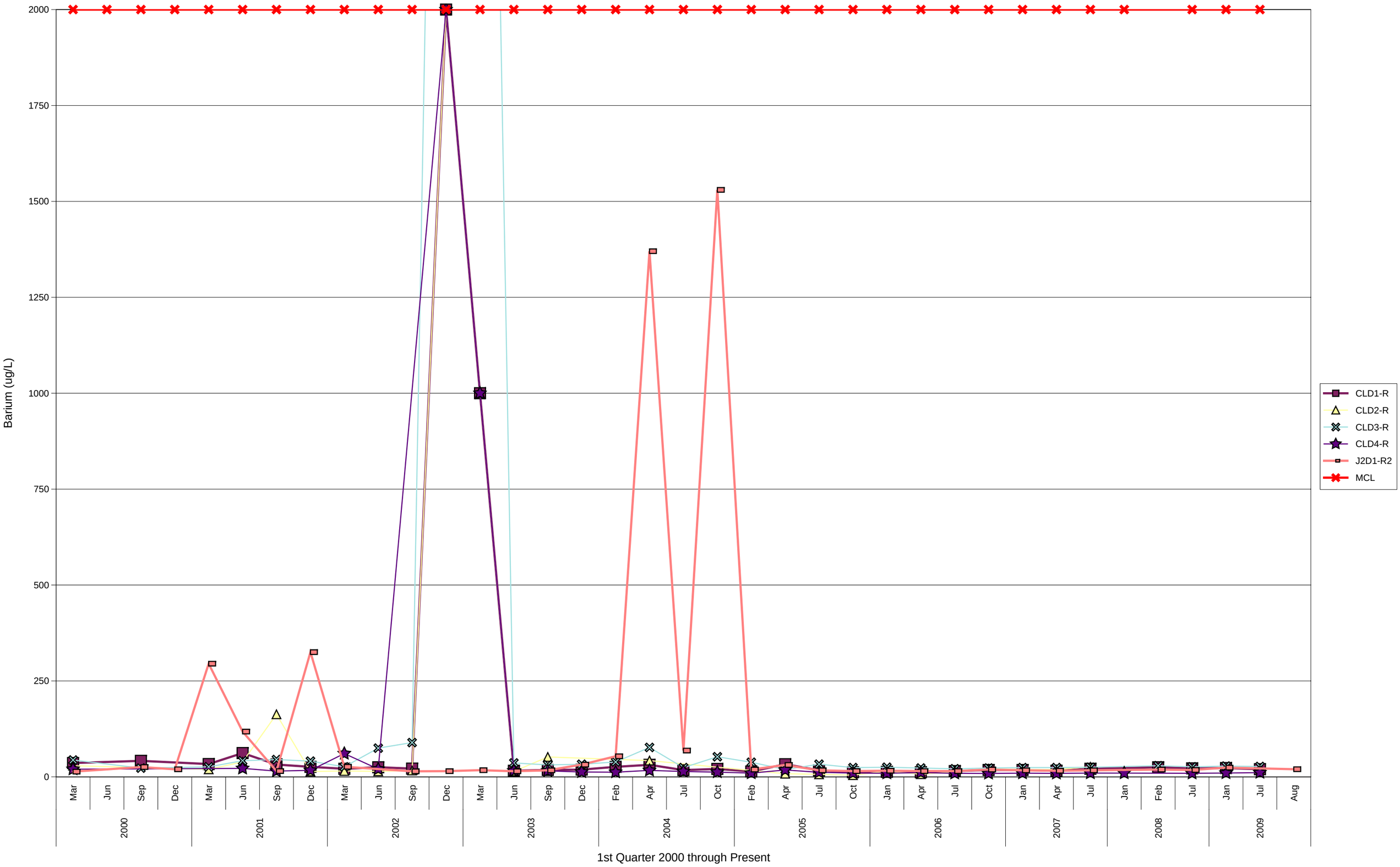


FIGURE C-4: BICARBONATE ALKALINITY CONCENTRATION TREND GRAPH

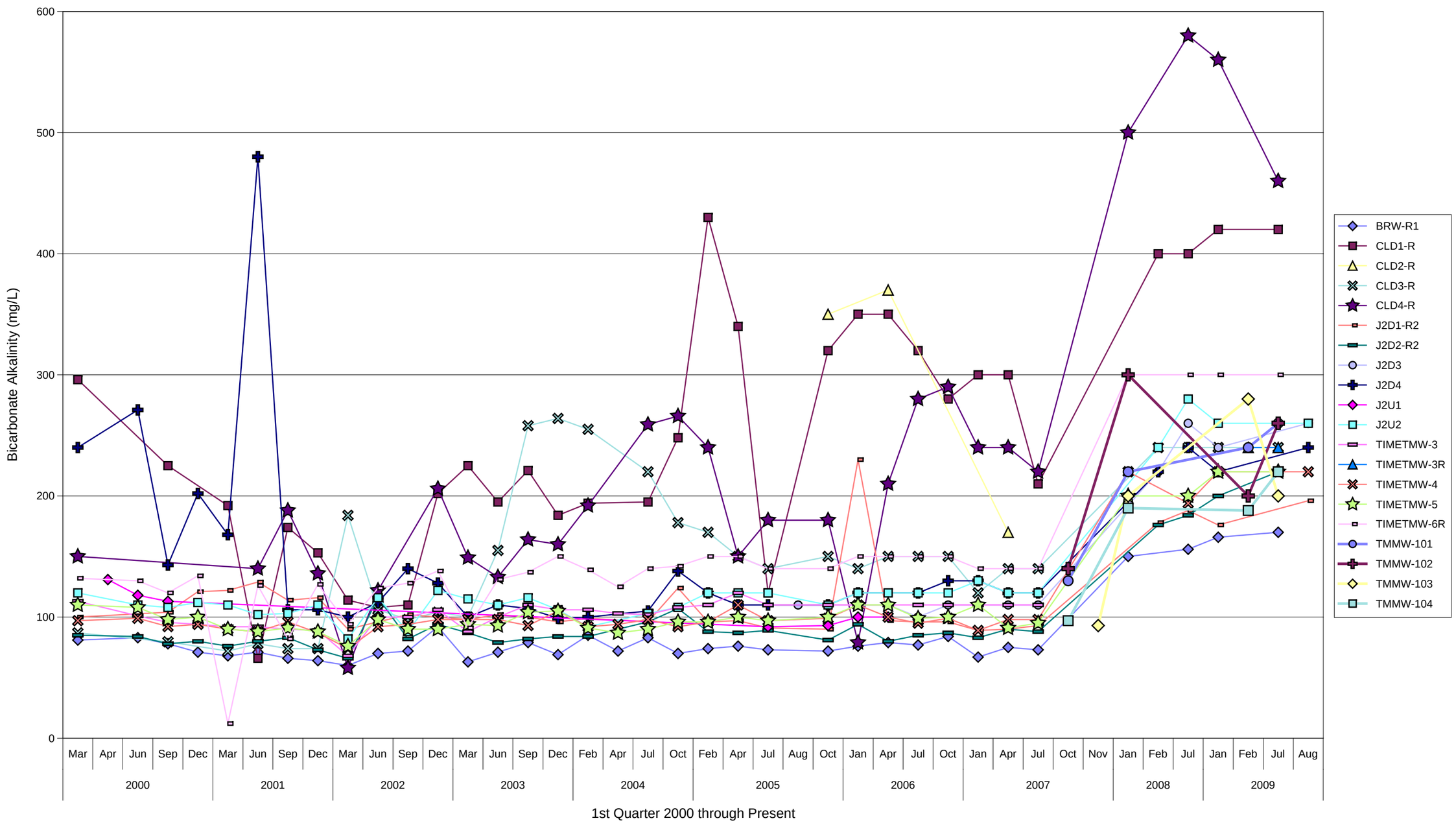


FIGURE C-5: CALCIUM (low range) CONCENTRATION TREND GRAPH

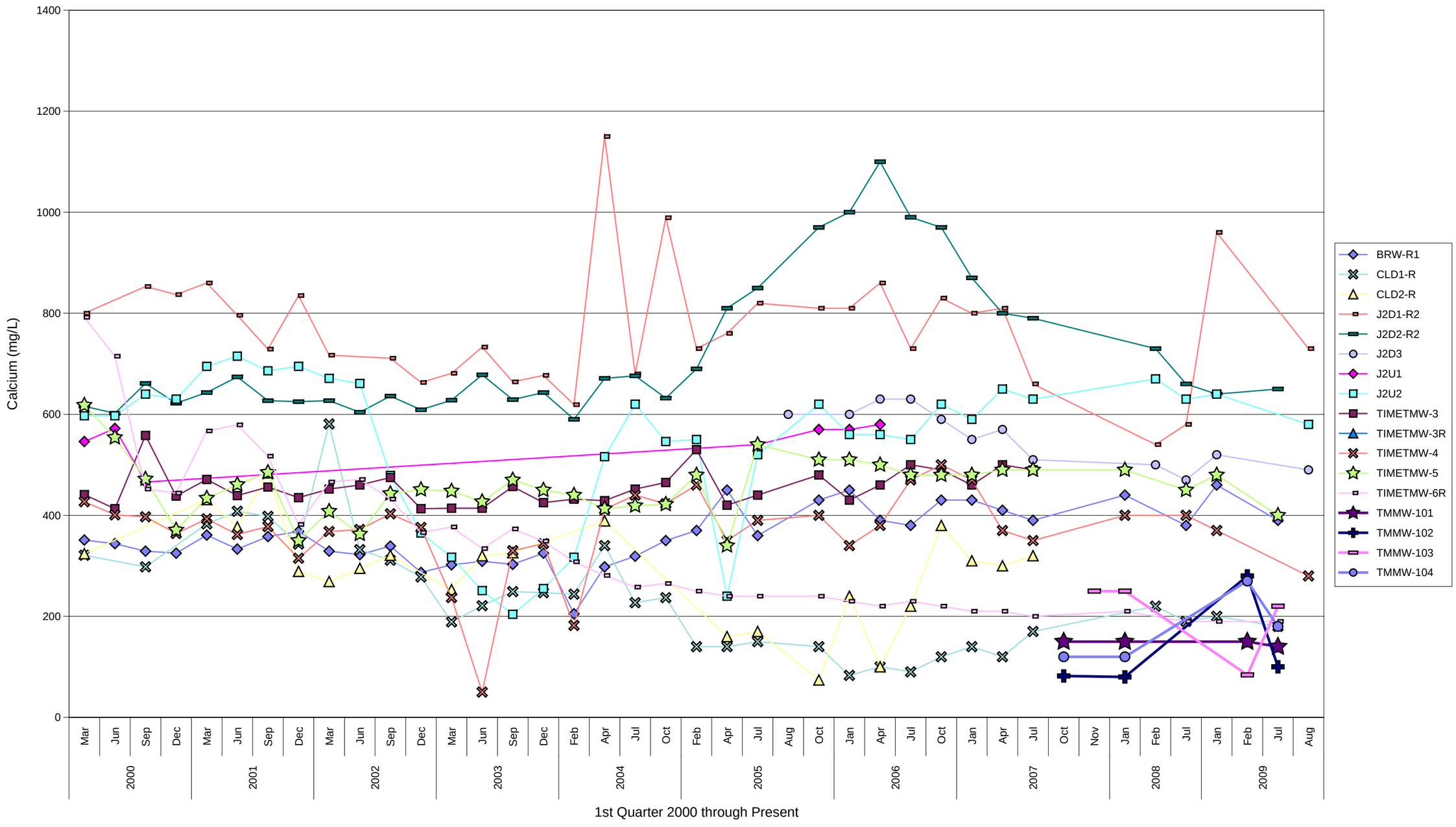
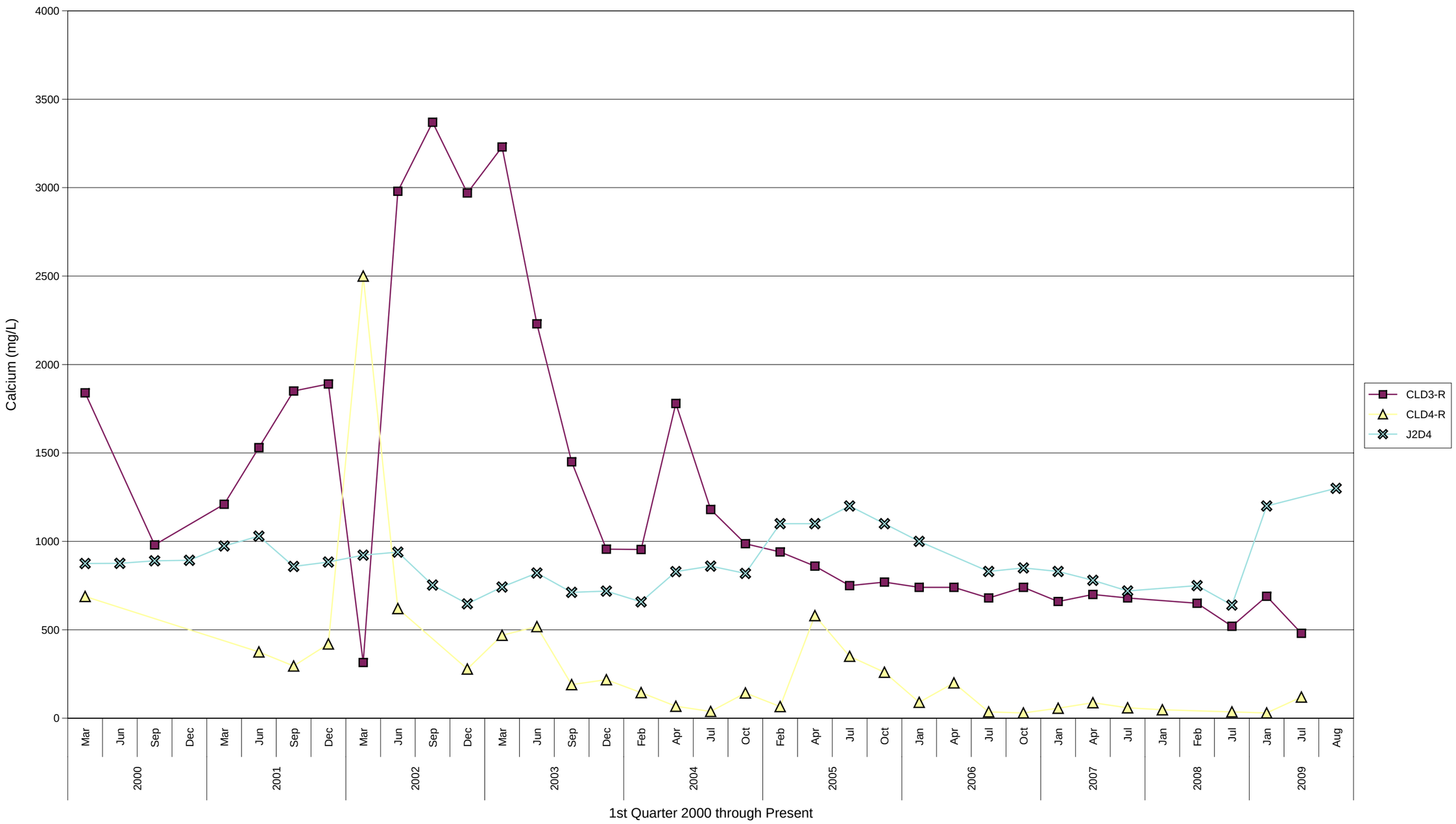


FIGURE C-6: CALCIUM (high range) CONCENTRATION TREND GRAPH



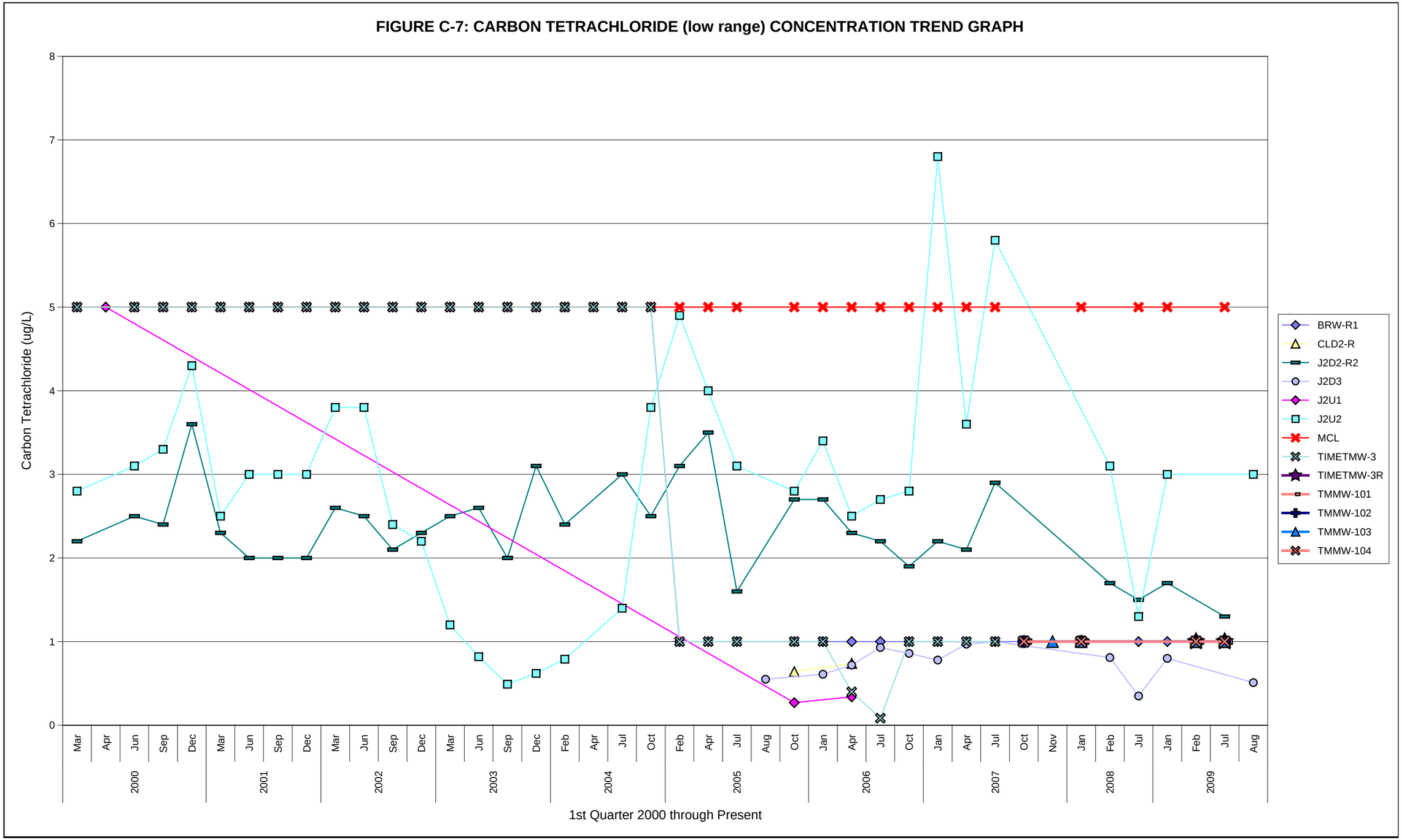


FIGURE C-7: CARBON TETRACHLORIDE (low range) CONCENTRATION TREND GRAPH
Carbon Tetrachloride (ug/L)
8
7
6
5
4
3
2
1
0
Mar
Apr
Jun
Sep
Dec
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
Feb
Jul
Aug
Oct
Jan
Nov
1st Quarter 2000 through Present
BRW-R1
CLD2-R
J2D2-R2
J2D3
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

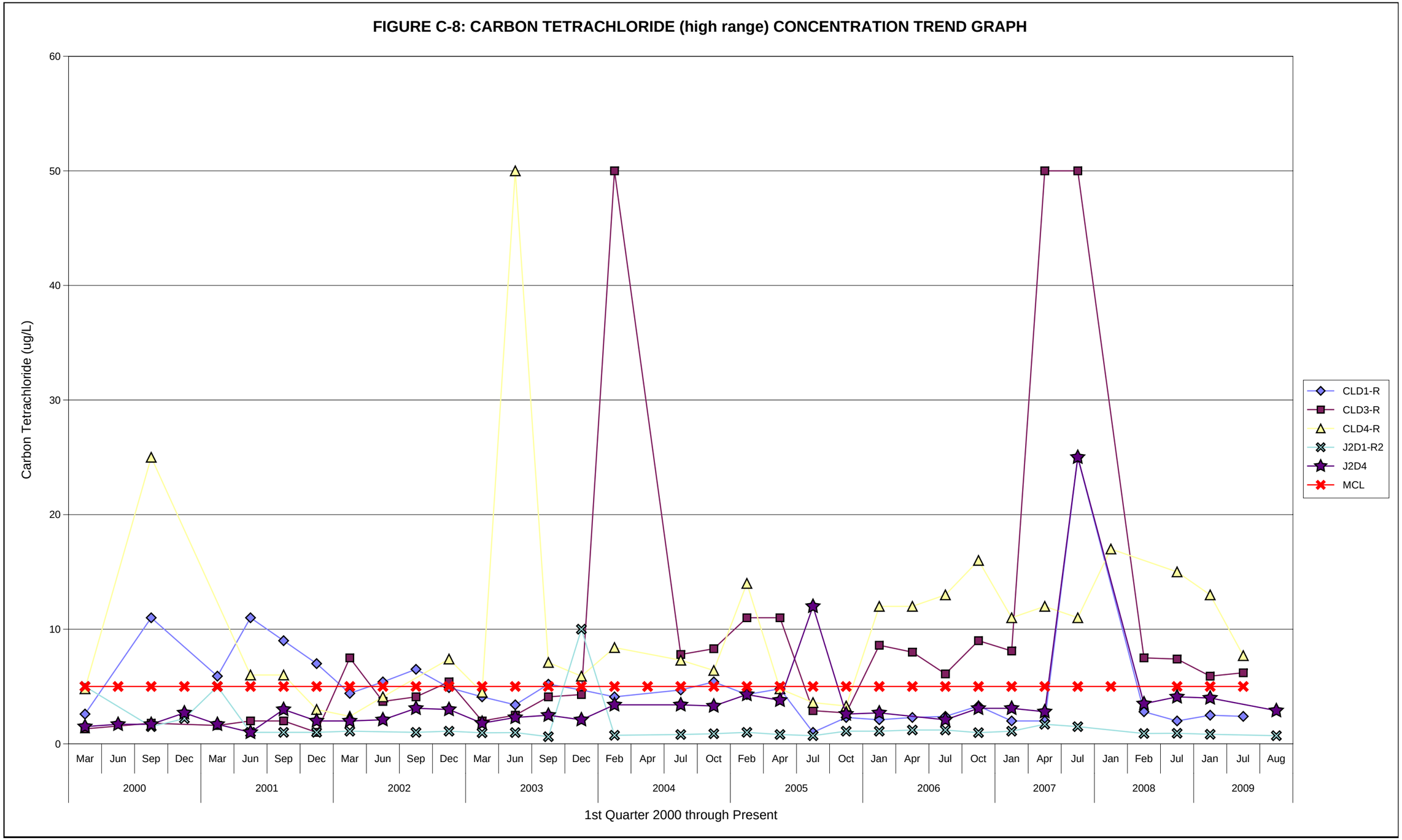
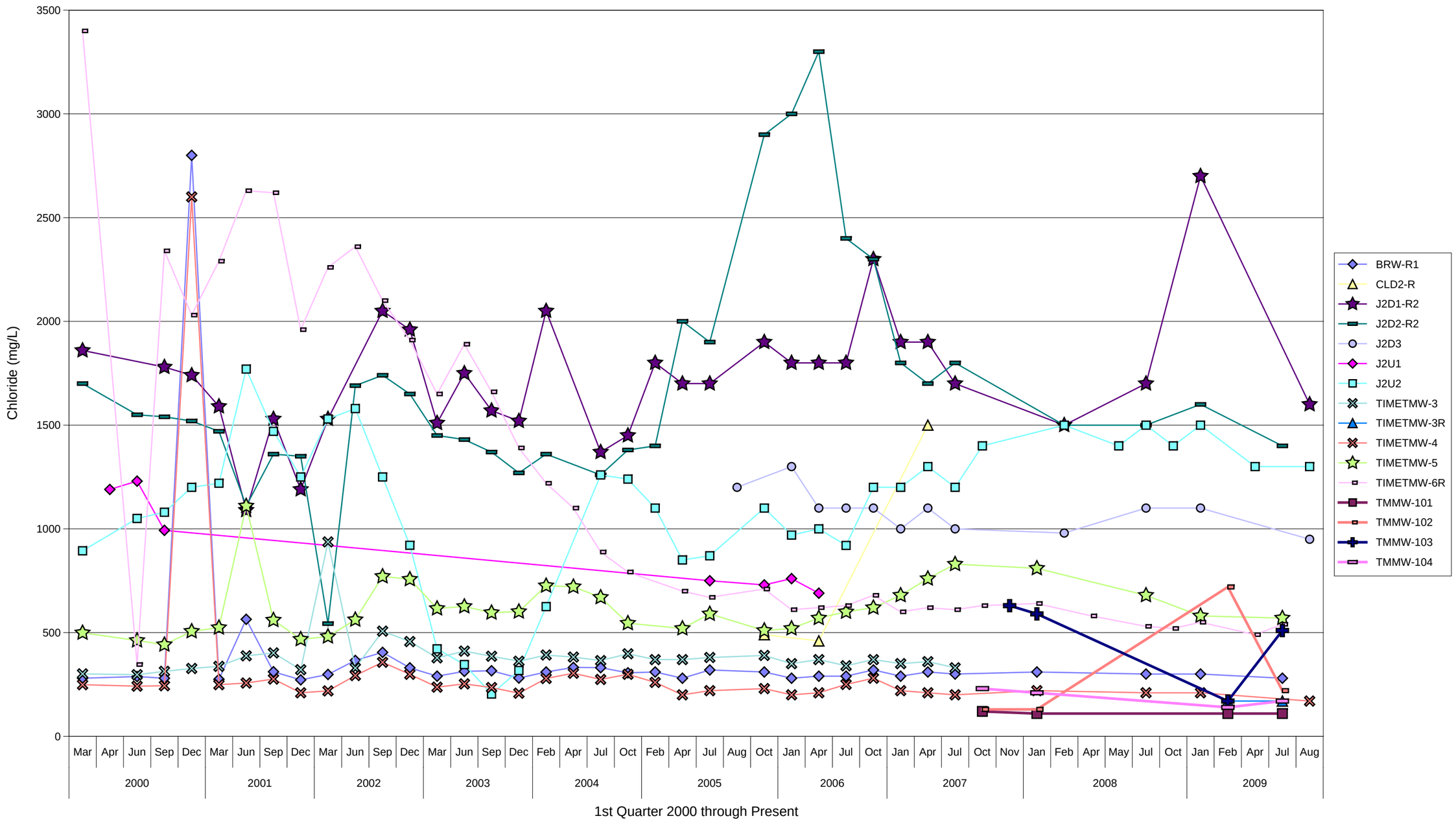


FIGURE C-8: CARBON TETRACHLORIDE (high range) CONCENTRATION TREND GRAPH
Carbon Tetrachloride (ug/L)
60
50
40
30
20
10
0
Mar
Jun
Sep
Dec
Feb
Apr
Jul
Oct
Jan
Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
CLD1-R
CLD3-R
CLD4-R
J2D1-R2
J2D4
MCL

FIGURE C-9: CHLORIDE (low range) CONCENTRATION TREND GRAPH



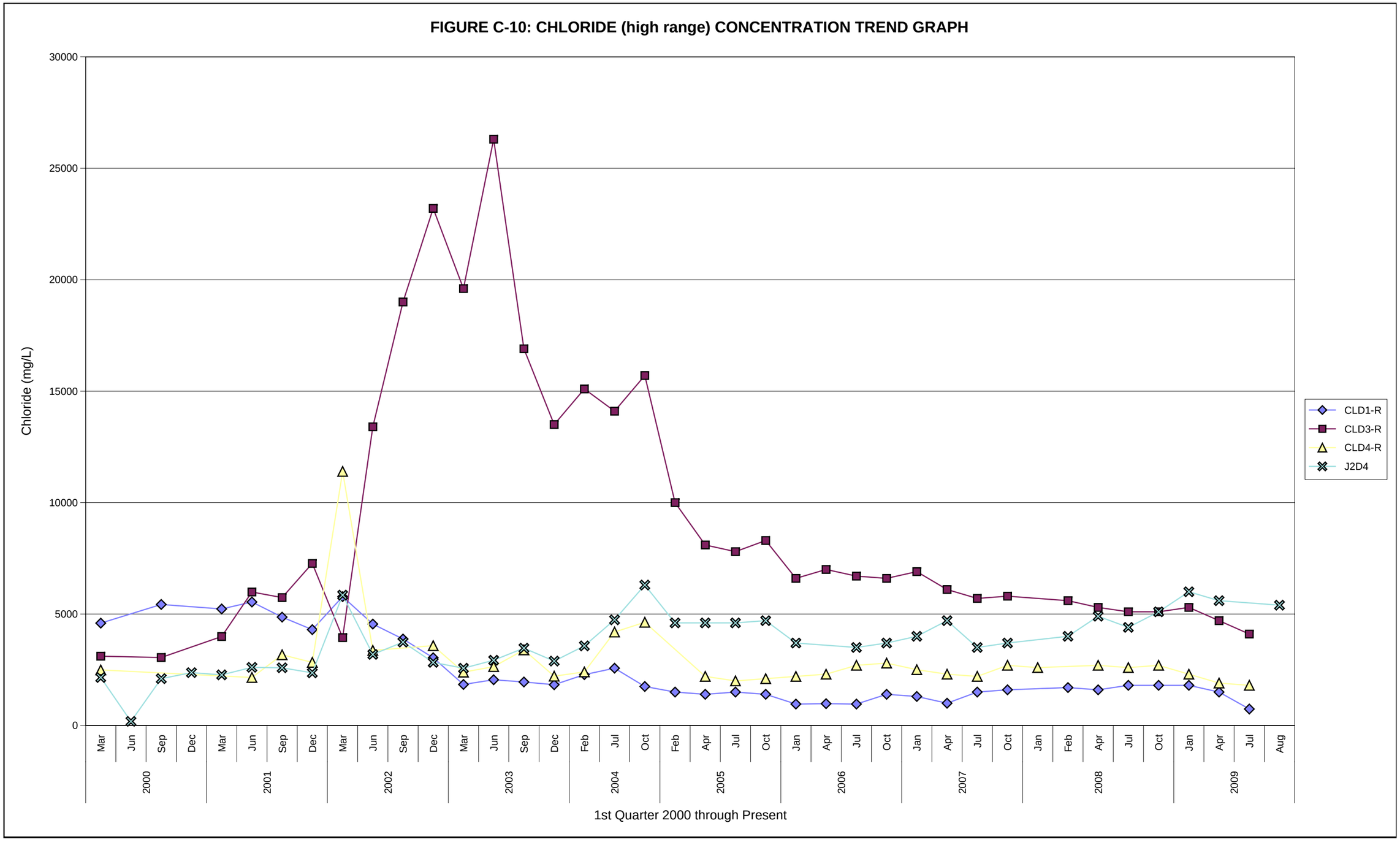


FIGURE C-10: CHLORIDE (high range) CONCENTRATION TREND GRAPH
Chloride (mg/L)
30000
25000
20000
15000
10000
5000
0
Mar
Jun
Sep
Dec
Feb
Jul
Oct
Jan
Apr
Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
CLD1-R
CLD3-R
CLD4-R
J2D4

FIGURE C-11: CHLOROFORM CONCENTRATION TREND GRAPH

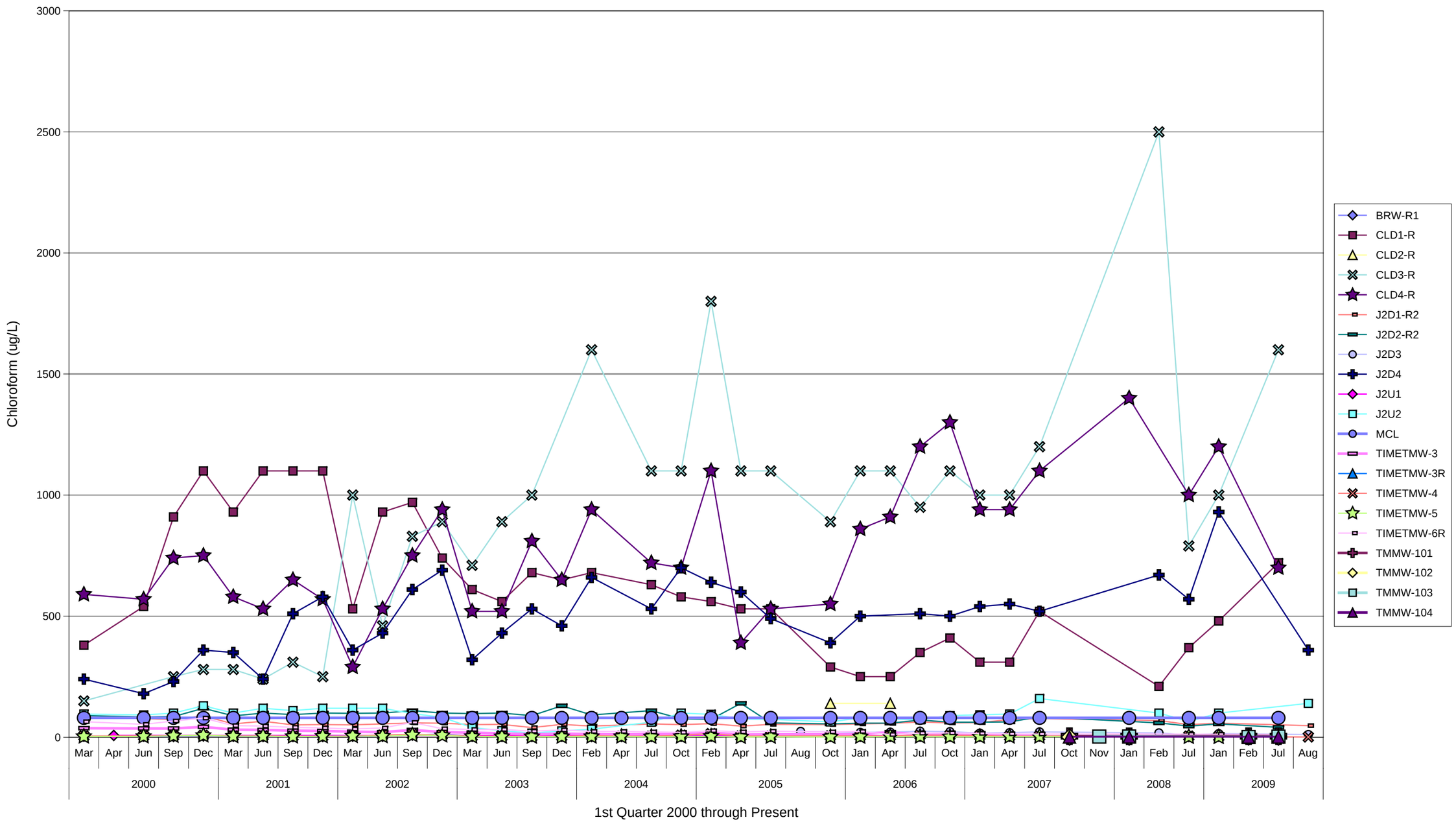
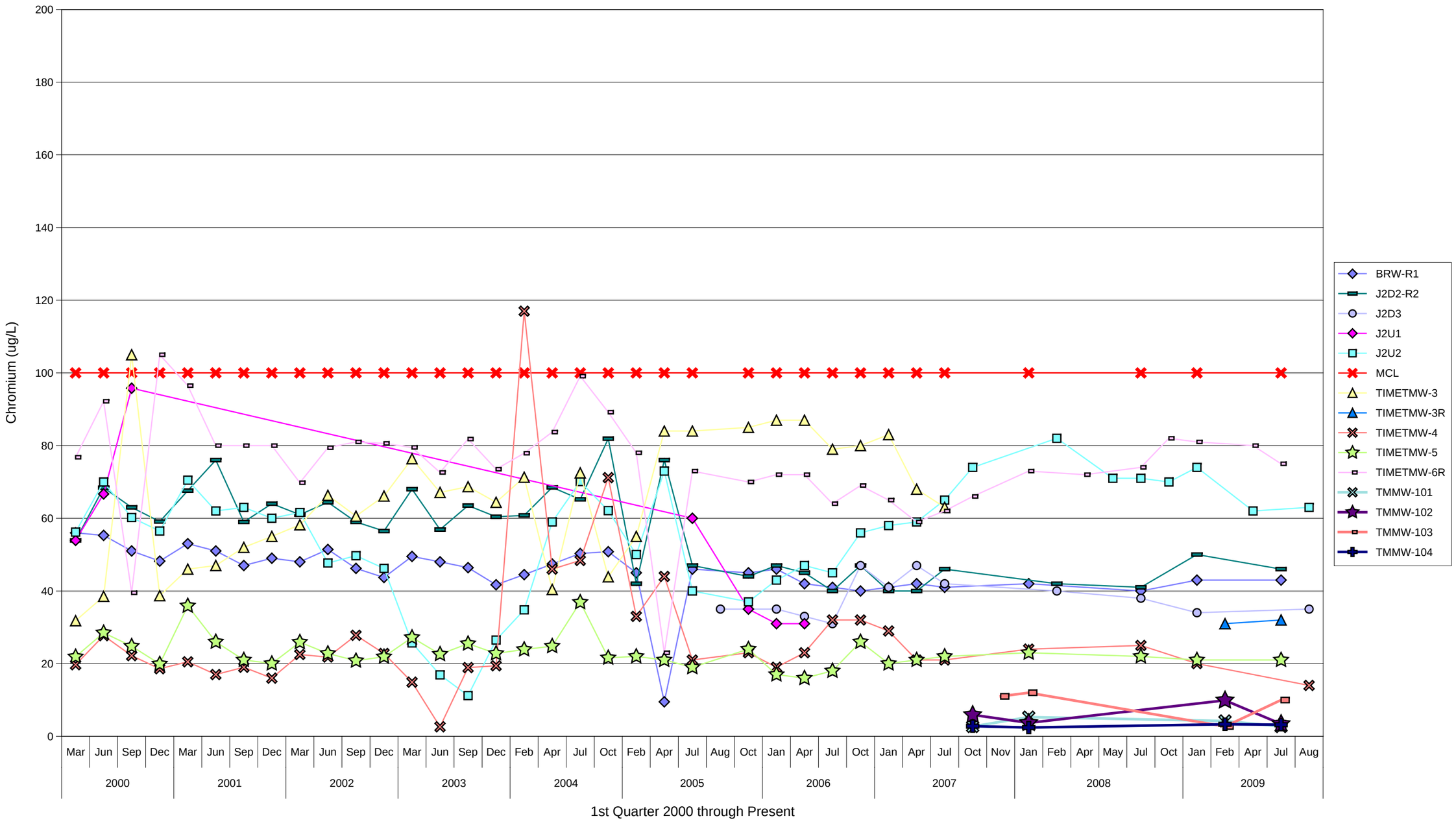


FIGURE C-12: CHROMIUM (low range) CONCENTRATION TREND GRAPH



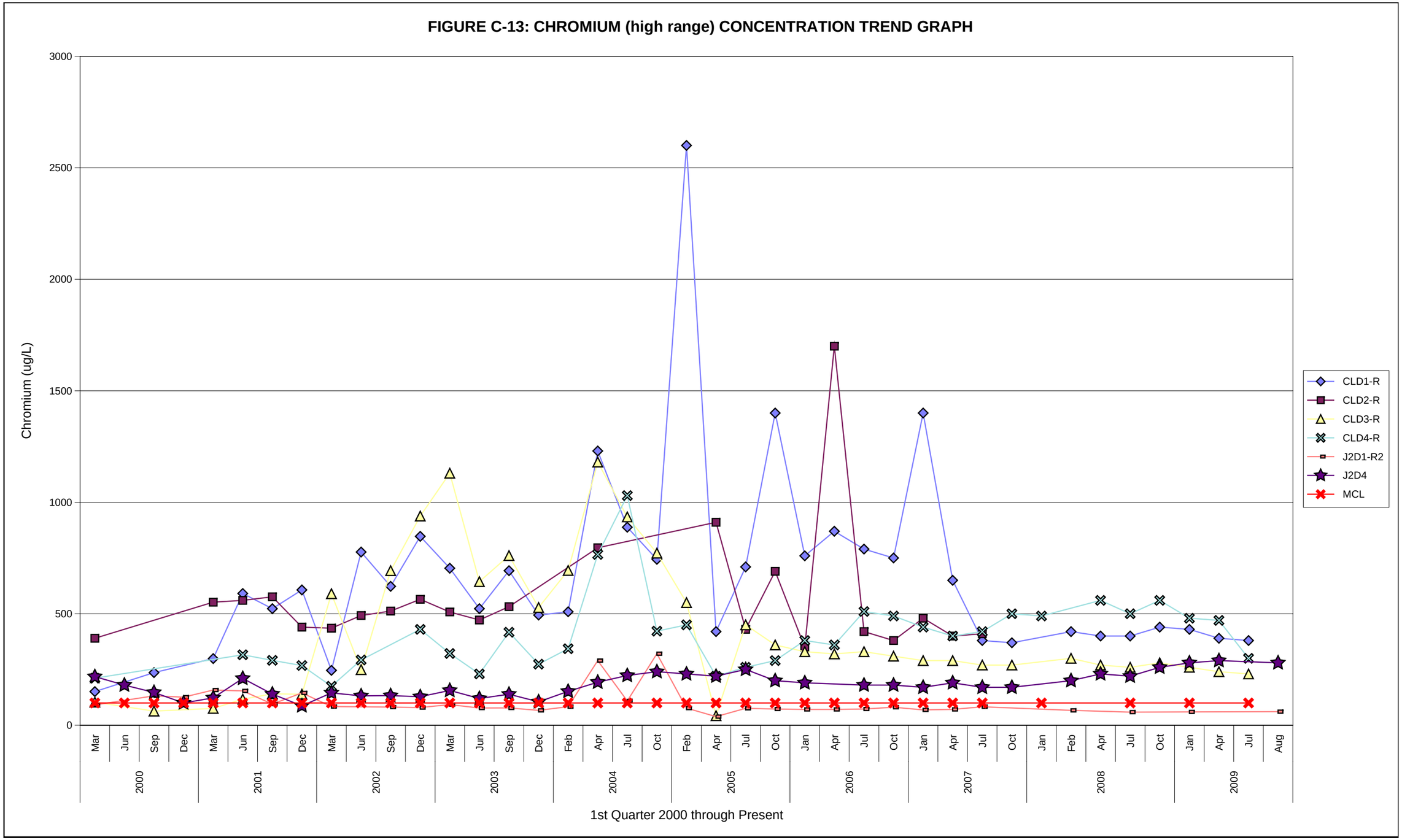
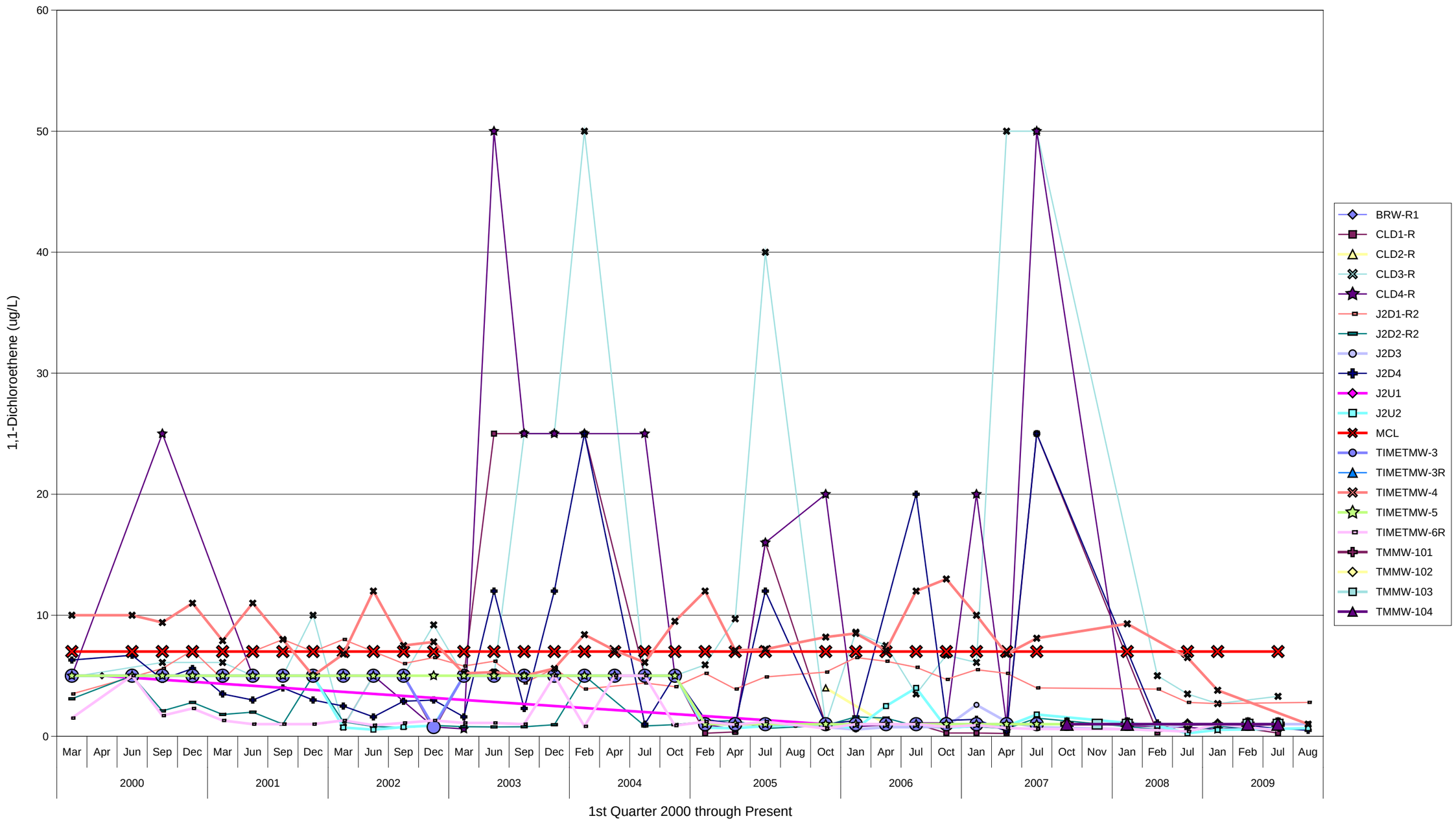


FIGURE C-13: CHROMIUM (high range) CONCENTRATION TREND GRAPH
Chromium (ug/L)
3000
2500
2000
1500
1000
500
0
Mar
Jun
Sep
Dec
Feb
Apr
Jul
Oct
Jan
Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D4
MCL

FIGURE C-14: 1,1-DICHLOROETHENE CONCENTRATION TREND GRAPH



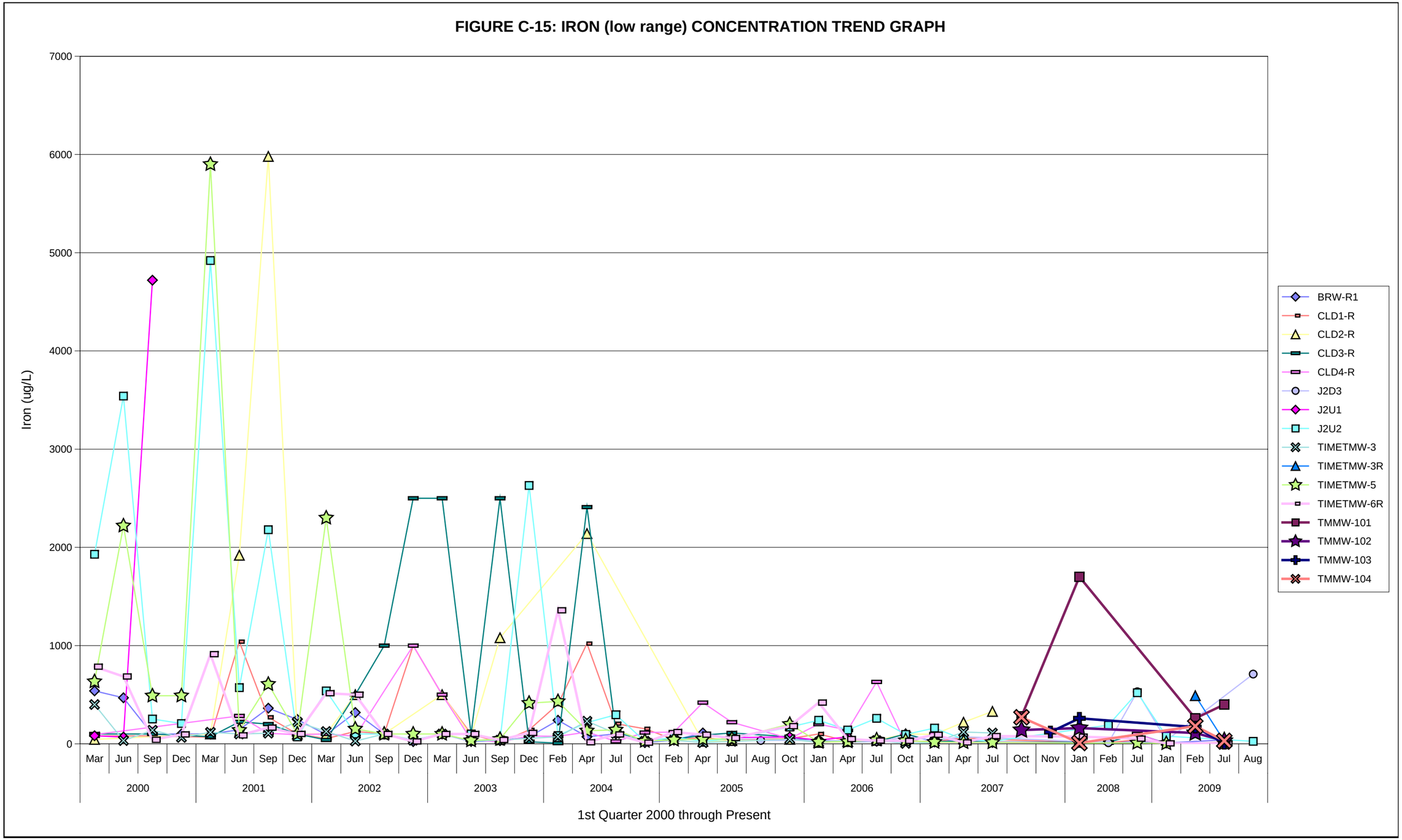


FIGURE C-15: IRON (low range) CONCENTRATION TREND GRAPH
Iron (ug/L)
7000
6000
5000
4000
3000
2000
1000
0
Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Feb Apr Jul Oct Feb Apr Jul Aug Oct Jan Apr Jul Oct Jan Apr Jul Oct Nov Jan Feb Jul Jan Feb Jul Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D3
J2U1
J2U2
TIMETMW-3
TIMETMW-3R
TIMETMW-5
TIMETMW-6R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

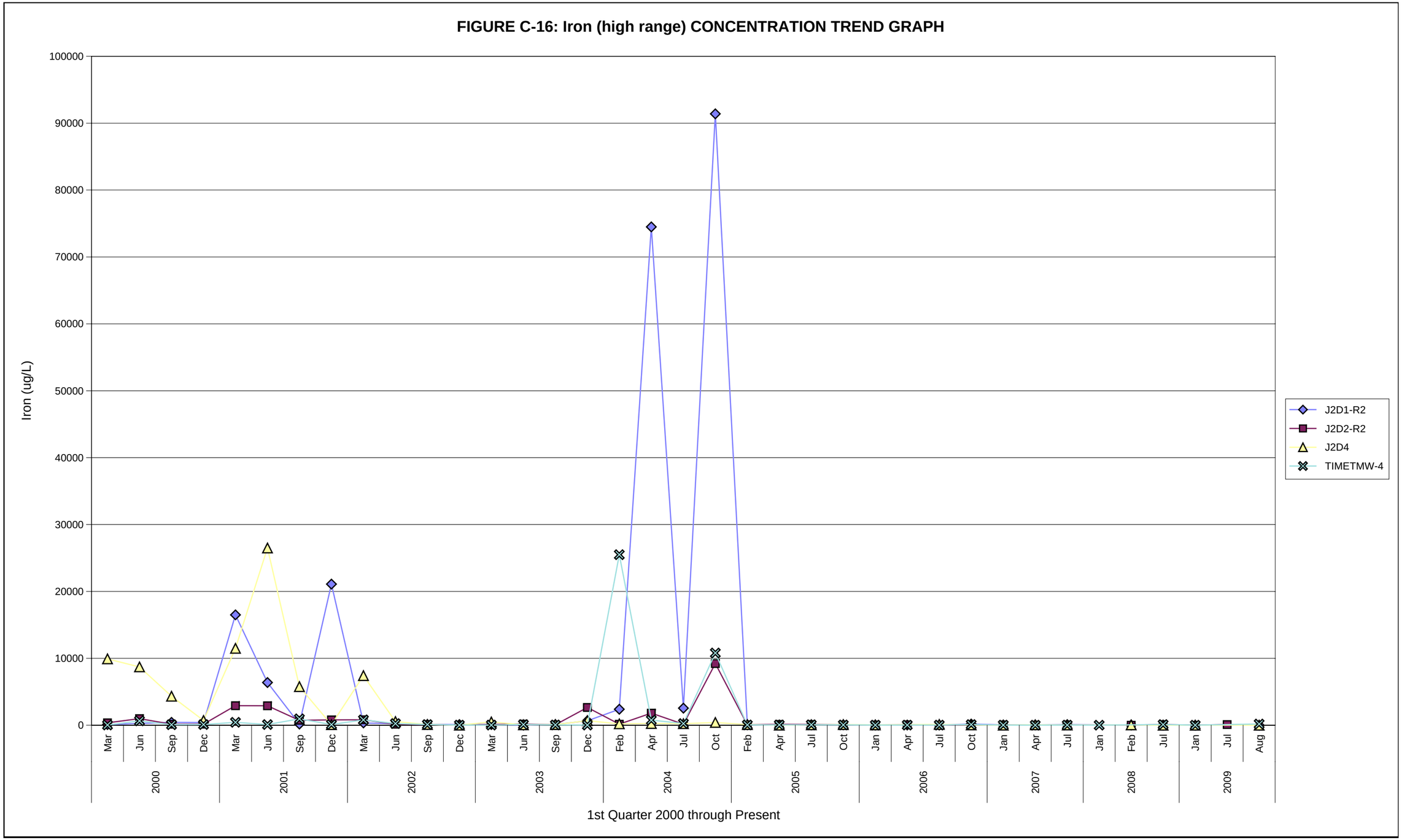


FIGURE C-16: Iron (high range) CONCENTRATION TREND GRAPH
Iron (ug/L)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
Mar
Jun
Sep
Dec
Mar
Jun
Sep
Dec
Mar
Jun
Sep
Dec
Mar
Jun
Sep
Dec
Feb
Apr
Jul
Oct
Feb
Apr
Jul
Oct
Jan
Apr
Jul
Oct
Jan
Apr
Jul
Jan
Feb
Jul
Jan
Jul
Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
J2D1-R2
J2D2-R2
J2D4
TIMETMW-4

FIGURE C-17: LEAD CONCENTRATION TREND GRAPH

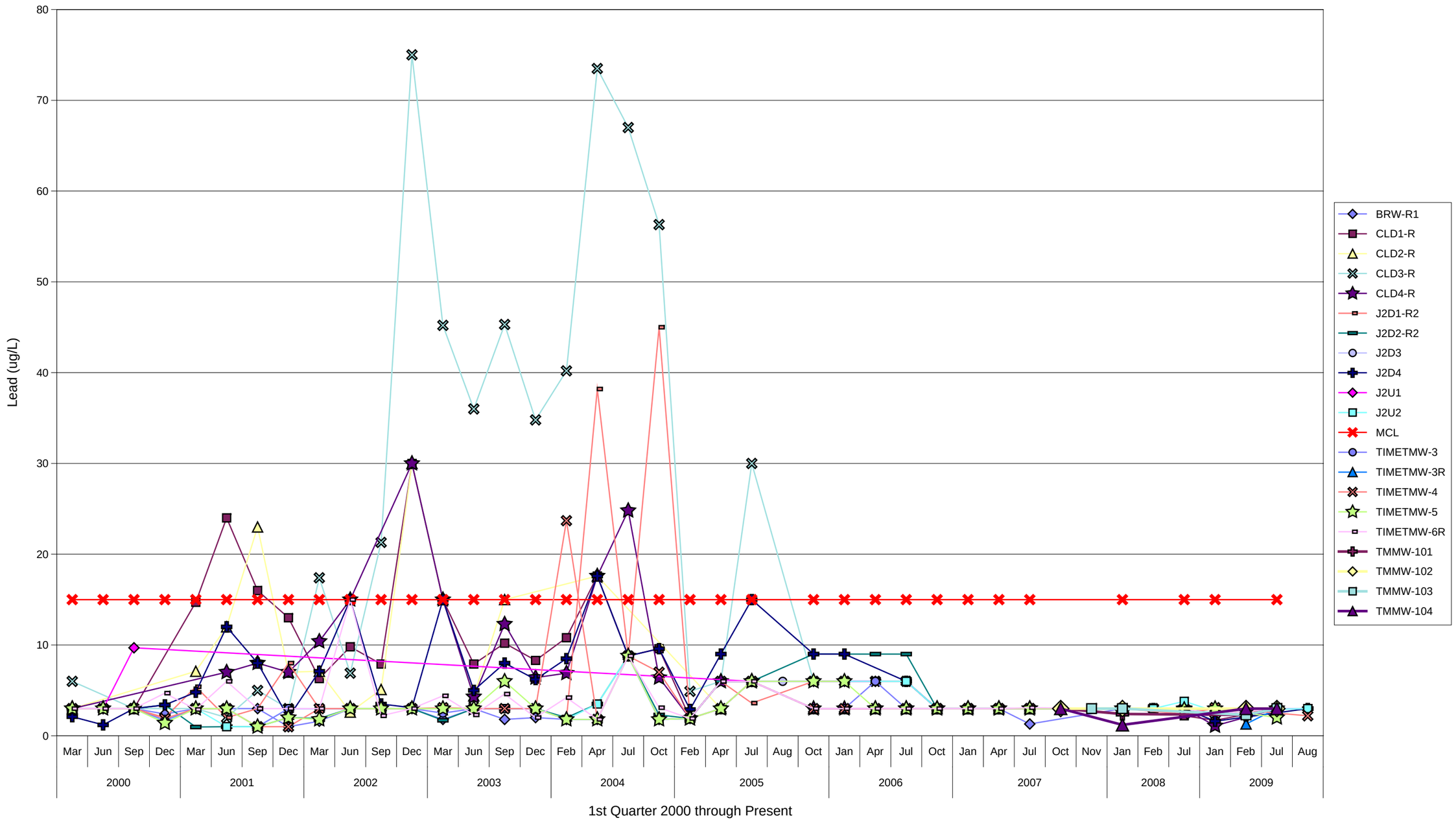


FIGURE C-18: MAGNESIUM (low range) CONCENTRATION TREND GRAPH

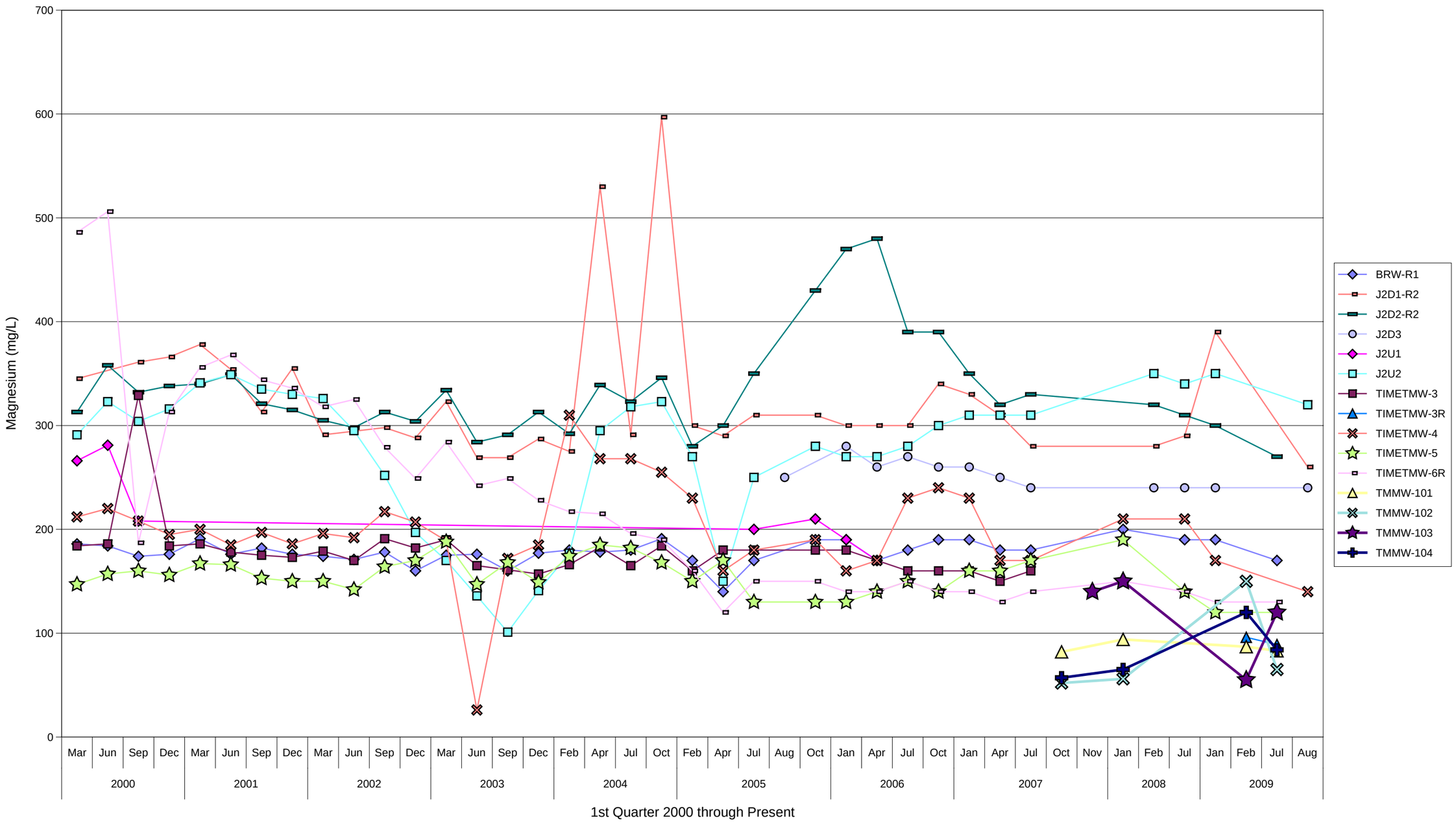


FIGURE C-19: MAGNESIUM (high range) CONCENTRATION TREND GRAPH

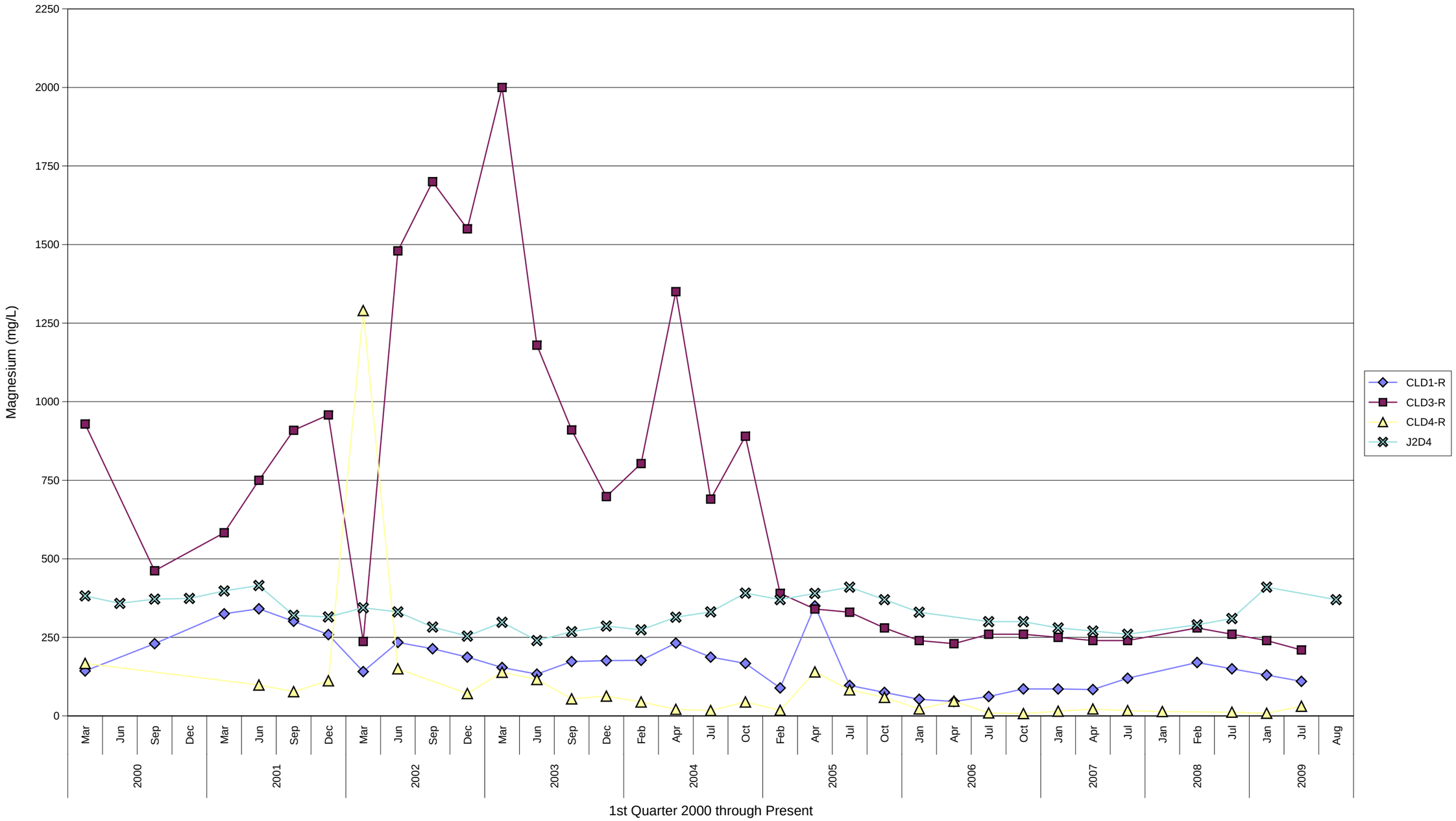


FIGURE C-20: MANGANESE CONCENTRATION TREND GRAPH

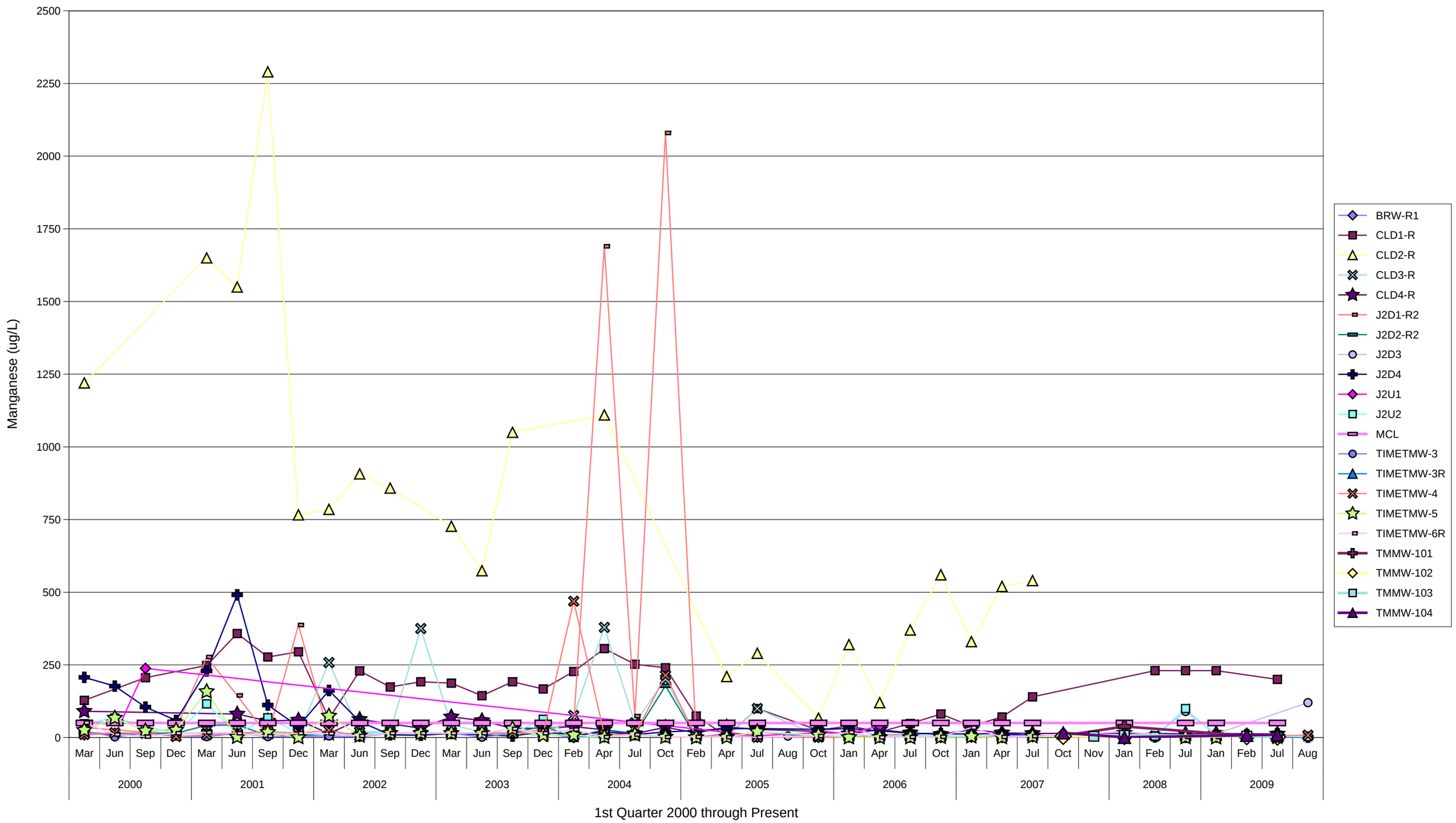


FIGURE C-21: ADJUSTED GROSS ALPHA PARTICLE ACTIVITY TREND GRAPH

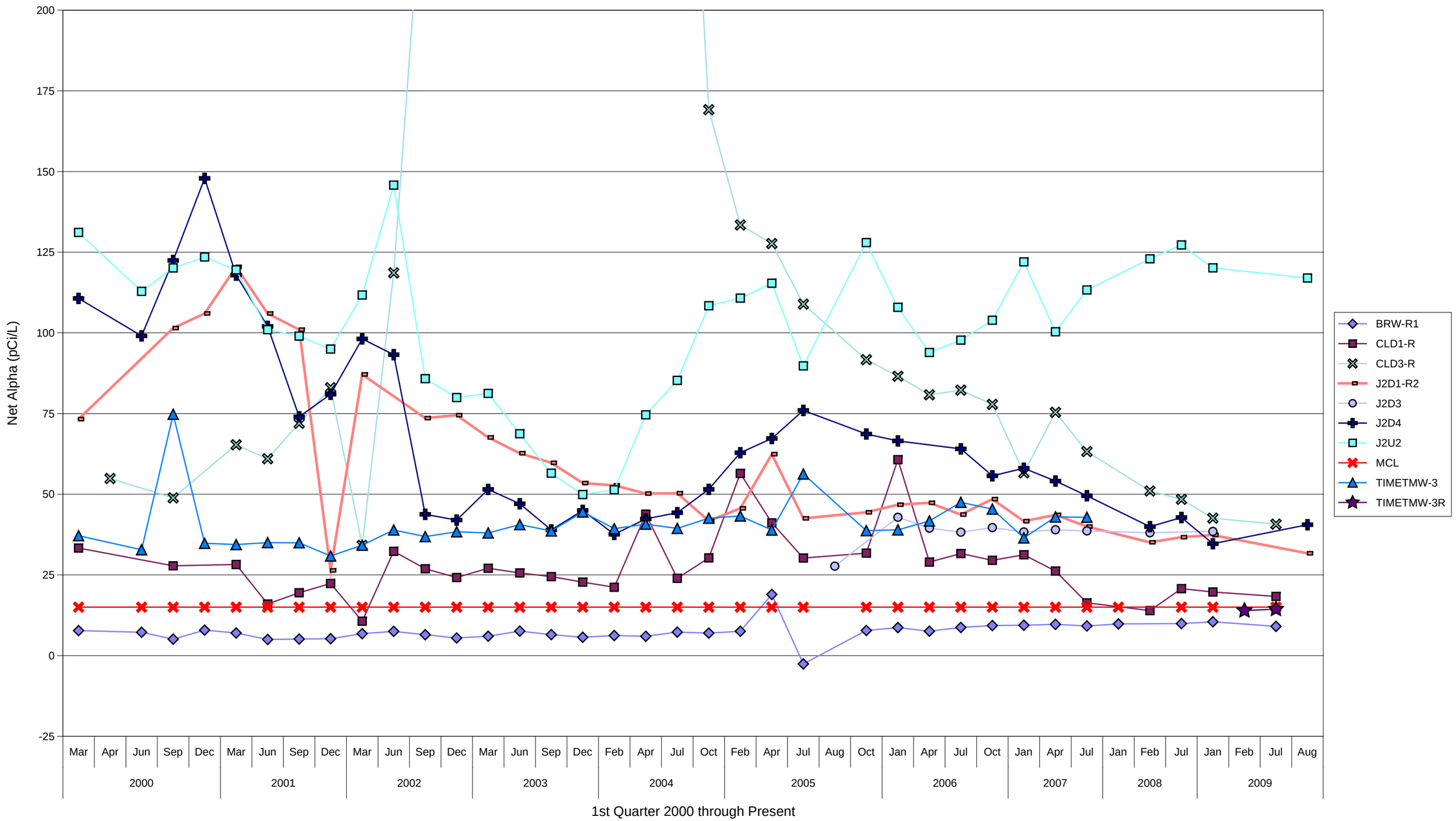


FIGURE C-22: NITRATE AS NITROGEN CONCENTRATION TREND GRAPH

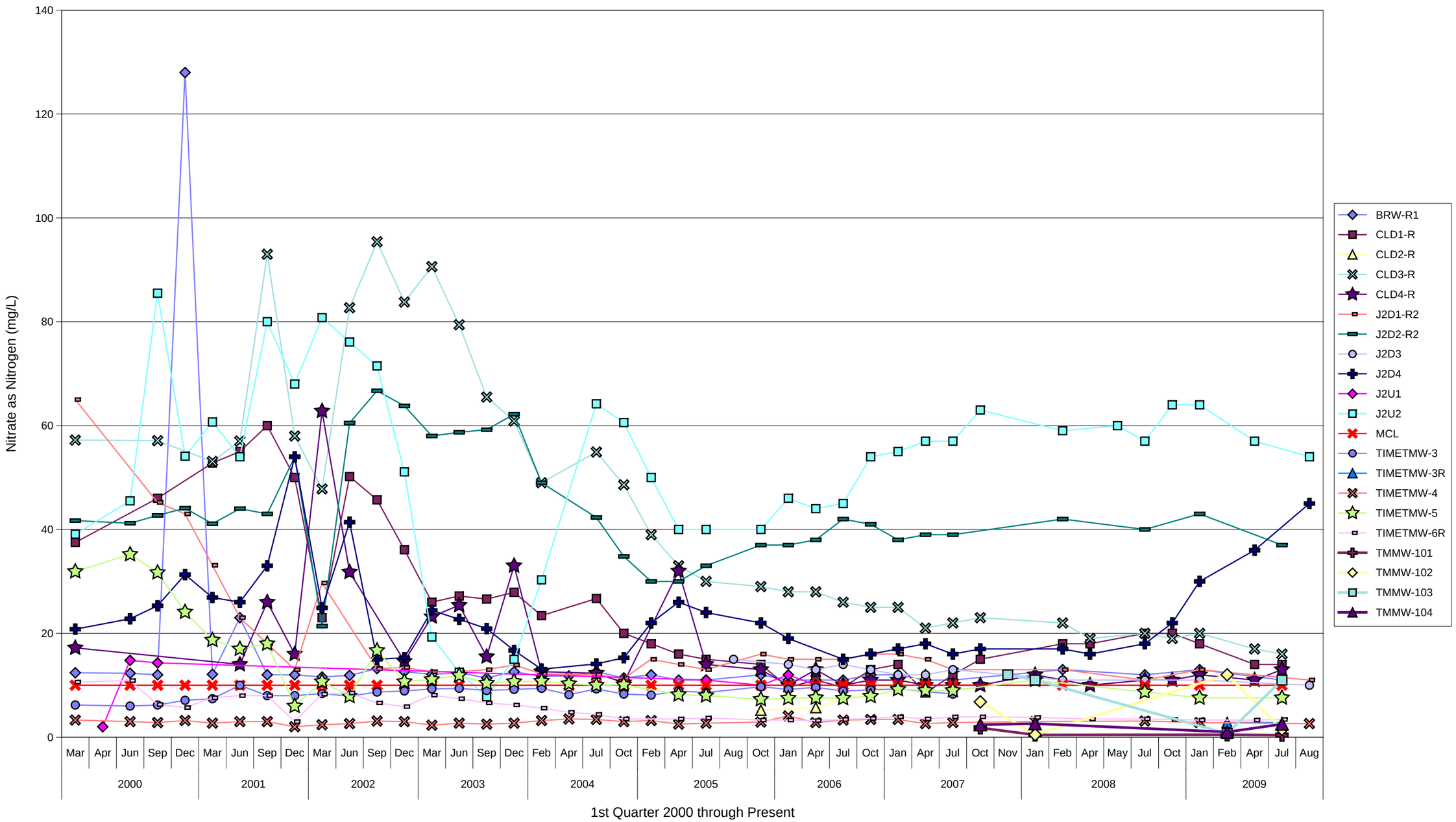


FIGURE C-23: RADON-222 CONCENTRATION TREND GRAPH

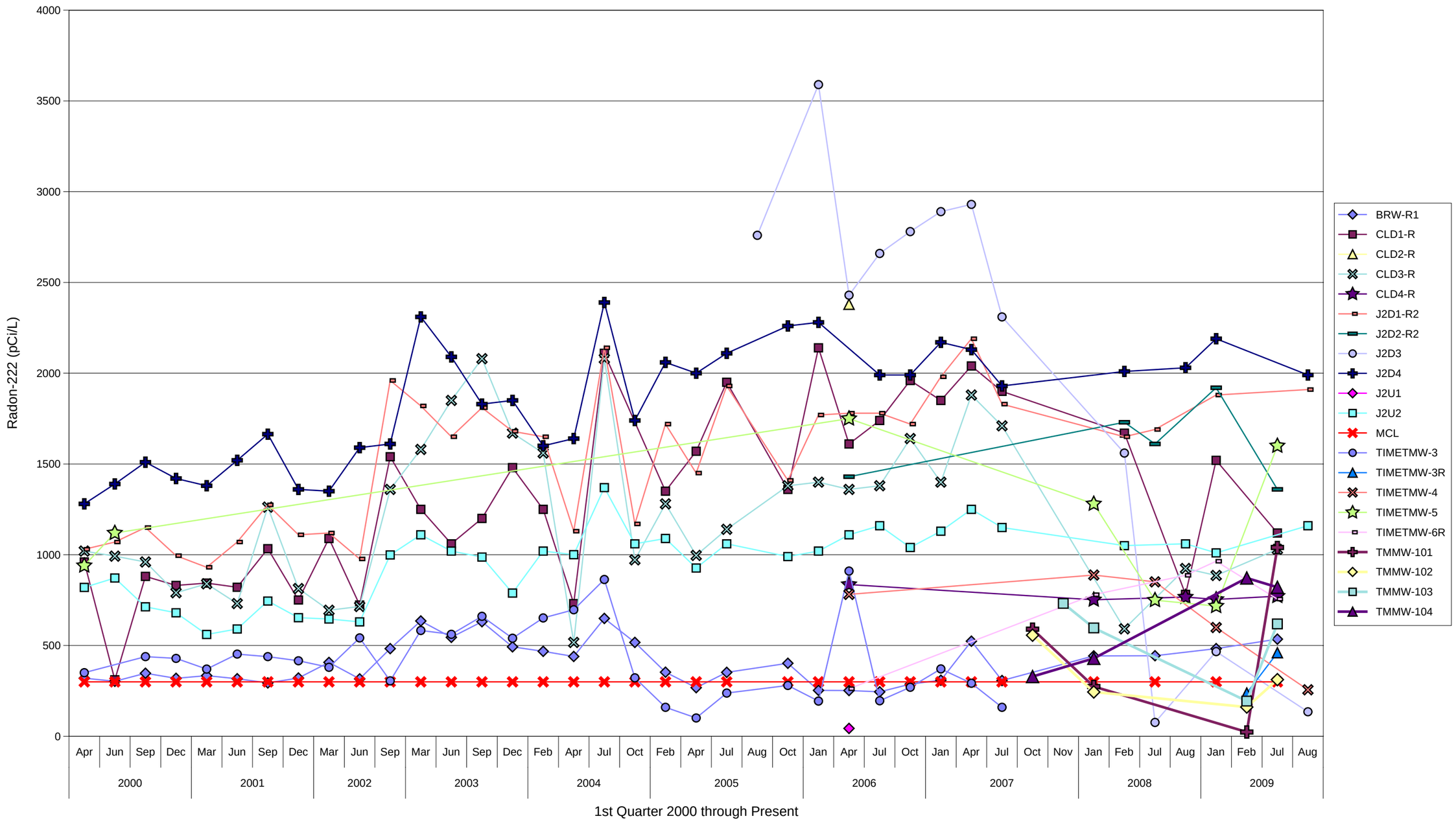


FIGURE C-24: COMBINED RADIUM-226 AND RADIUM-228 ACTIVITY TREND GRAPH

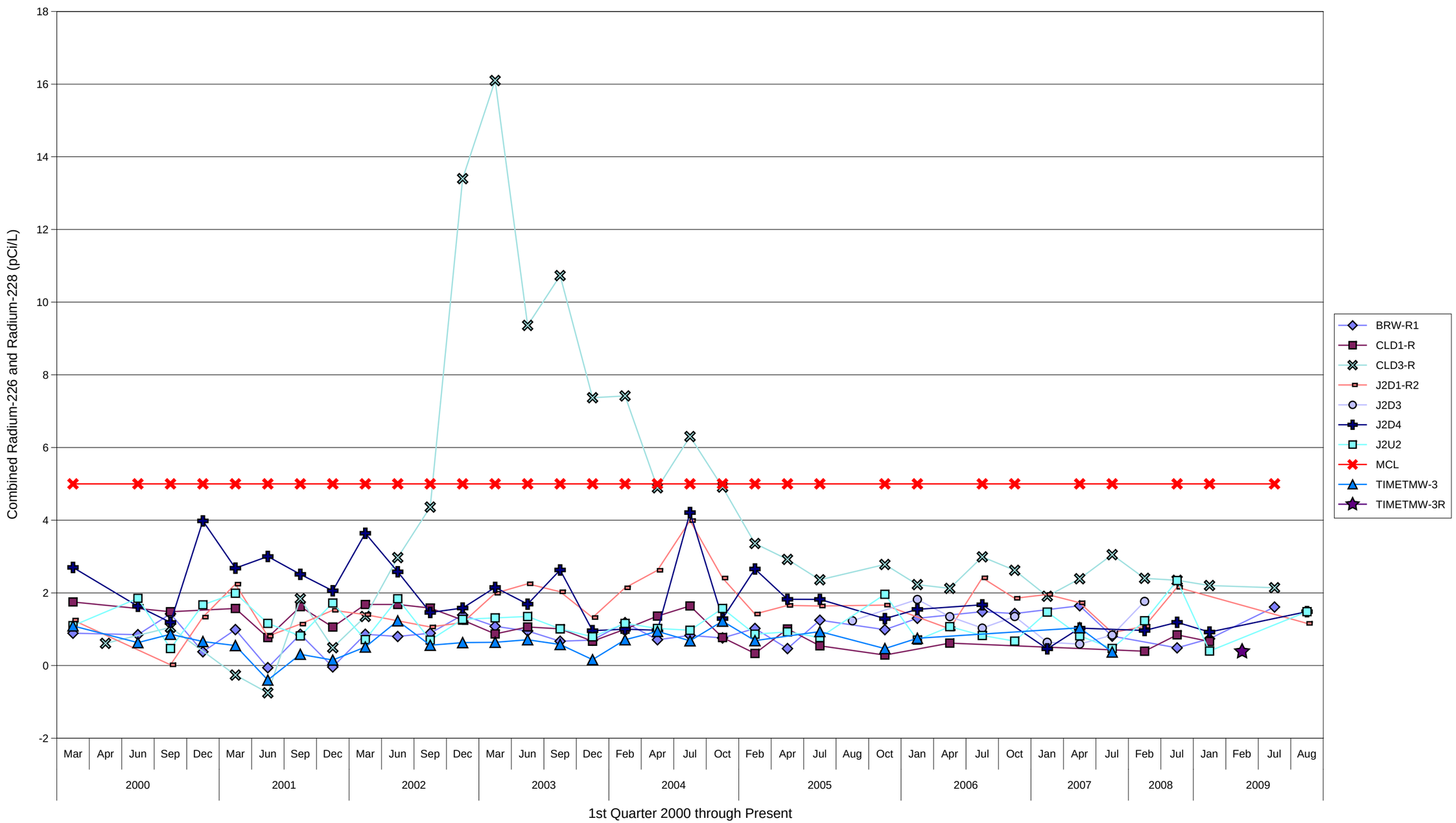
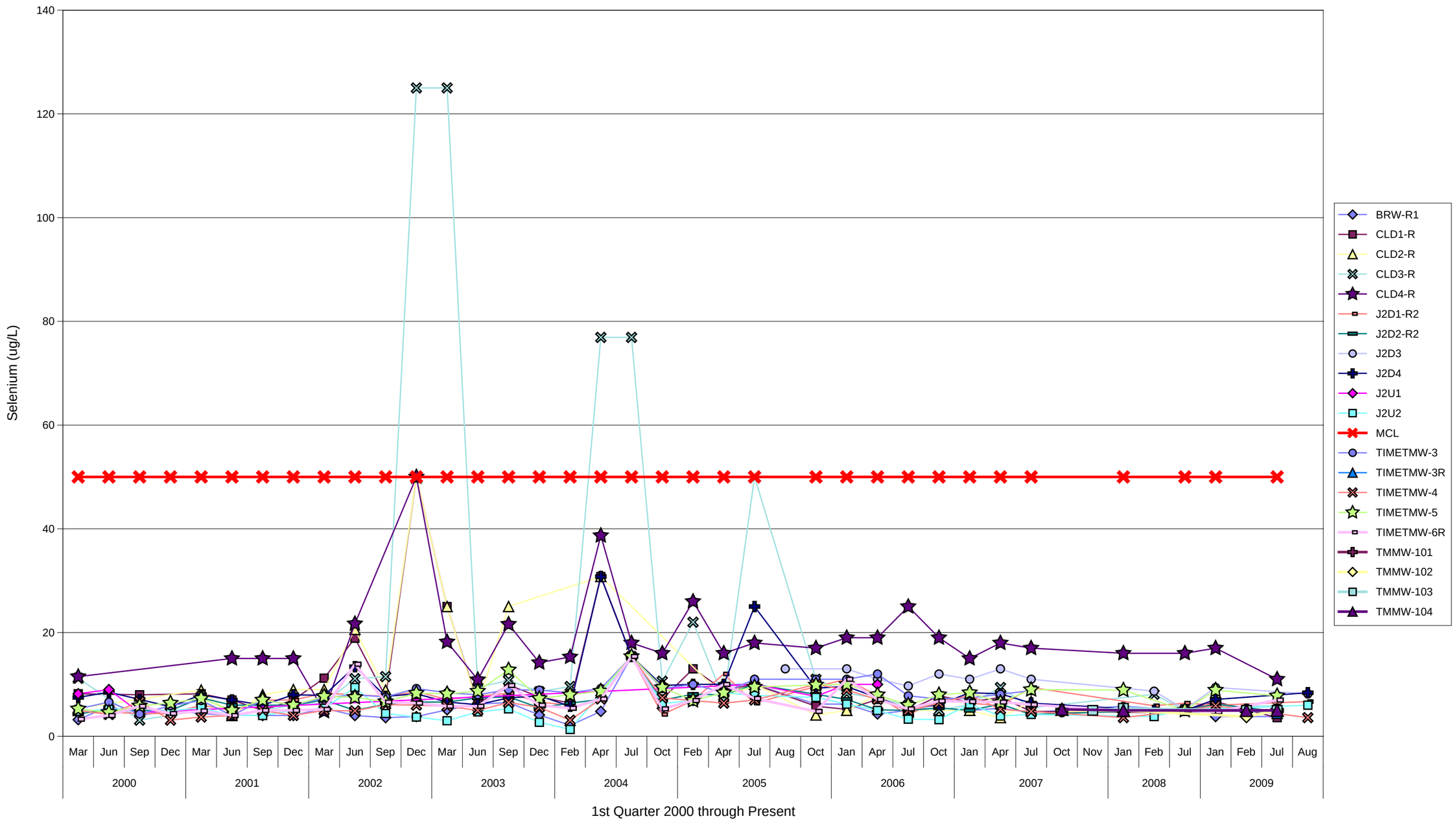


FIGURE C-25: SELENIUM CONCENTRATION TREND GRAPH



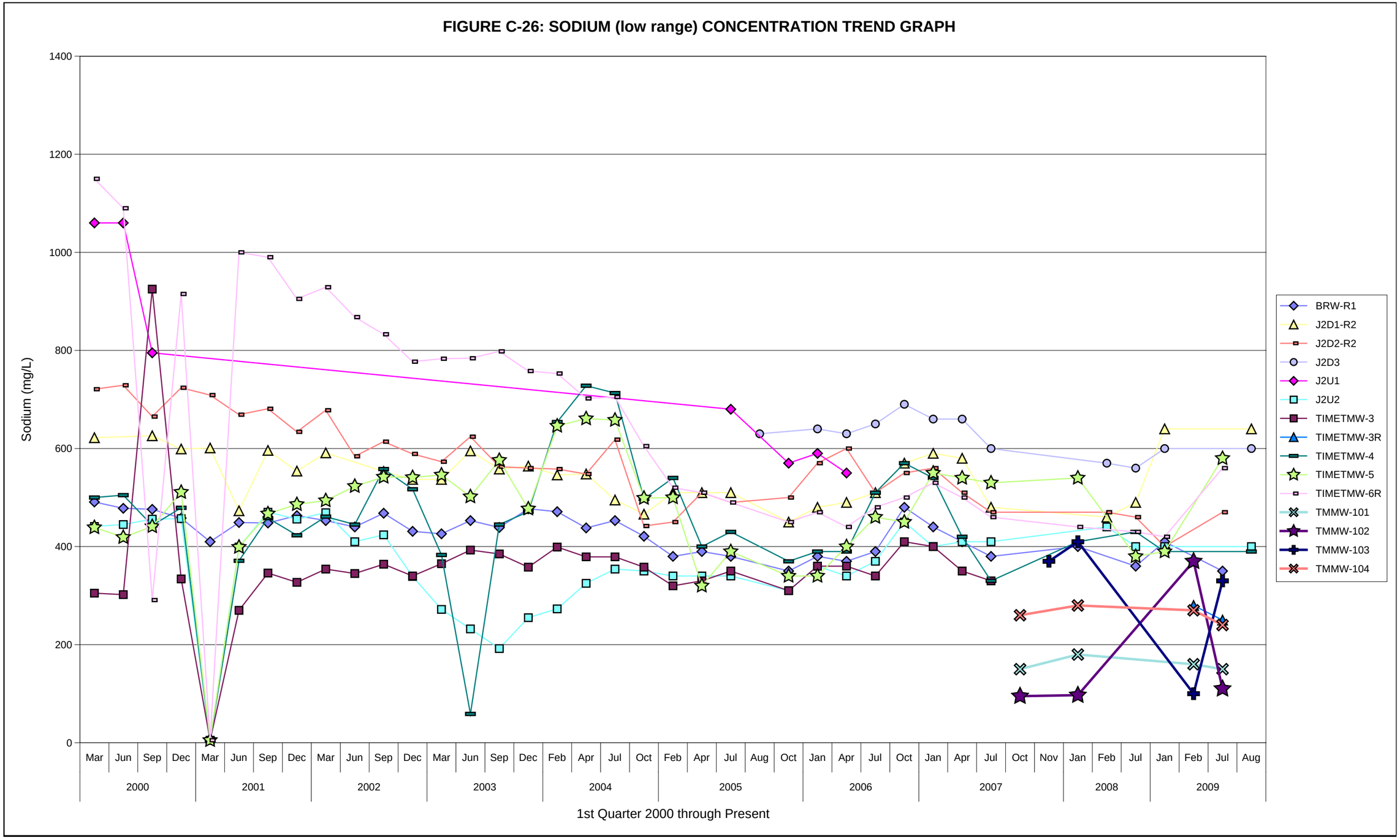


FIGURE C-26: SODIUM (low range) CONCENTRATION TREND GRAPH
Sodium (mg/L)
1400
1200
1000
800
600
400
200
0
Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Feb Apr Jul Oct Feb Apr Jul Aug Oct Jan Apr Jul Oct Jan Apr Jul Oct Nov Jan Feb Jul Jan Feb Jul Aug
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009
1st Quarter 2000 through Present
BRW-R1
J2D1-R2
J2D2-R2
J2D3
J2U1
J2U2
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

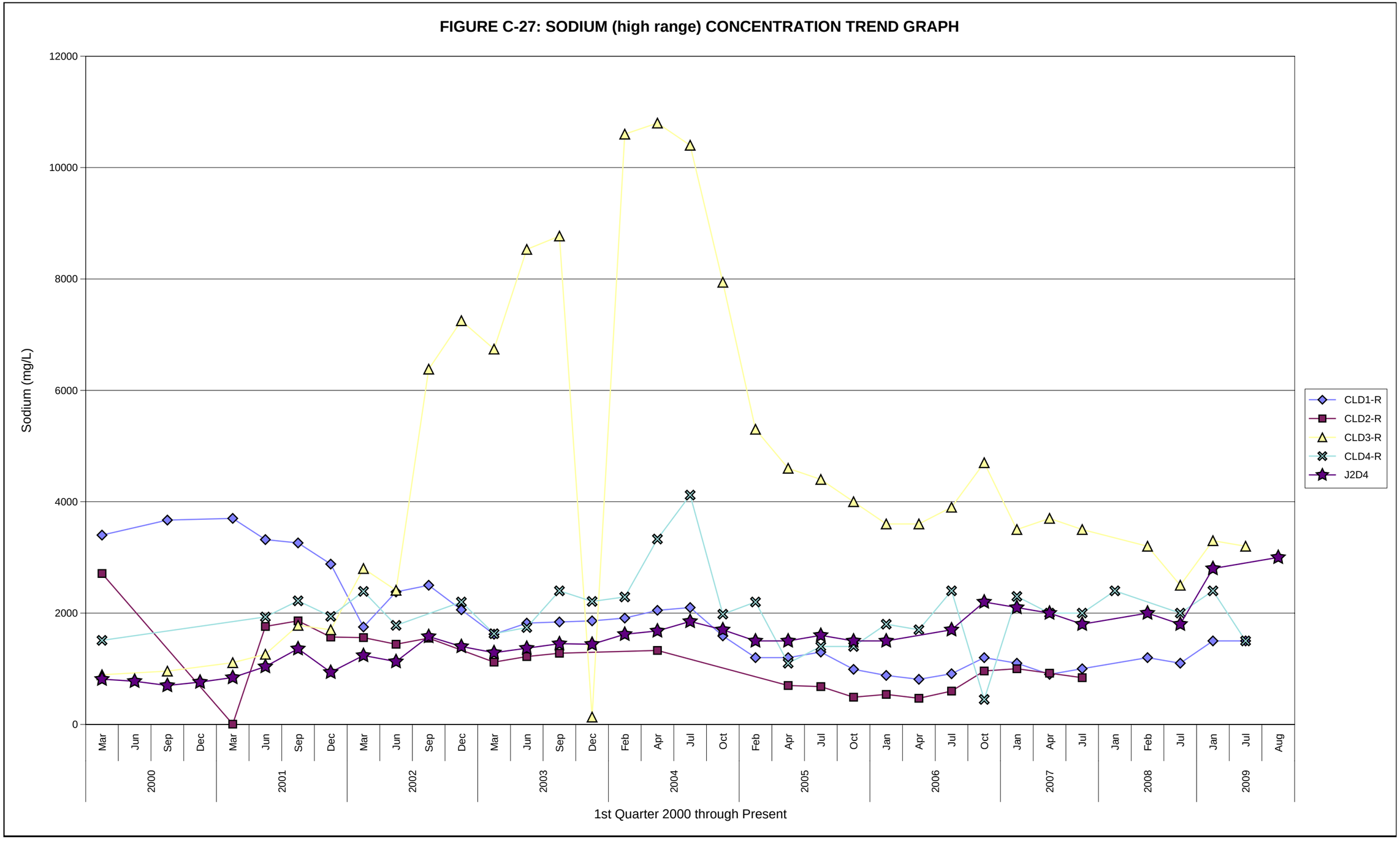


FIGURE C-27: SODIUM (high range) CONCENTRATION TREND GRAPH
Sodium (mg/L)
12000
10000
8000
6000
4000
2000
0
Mar
Jun
Sep
Dec
Feb
Apr
Jul
Oct
Jan
Aug
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
1st Quarter 2000 through Present
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D4

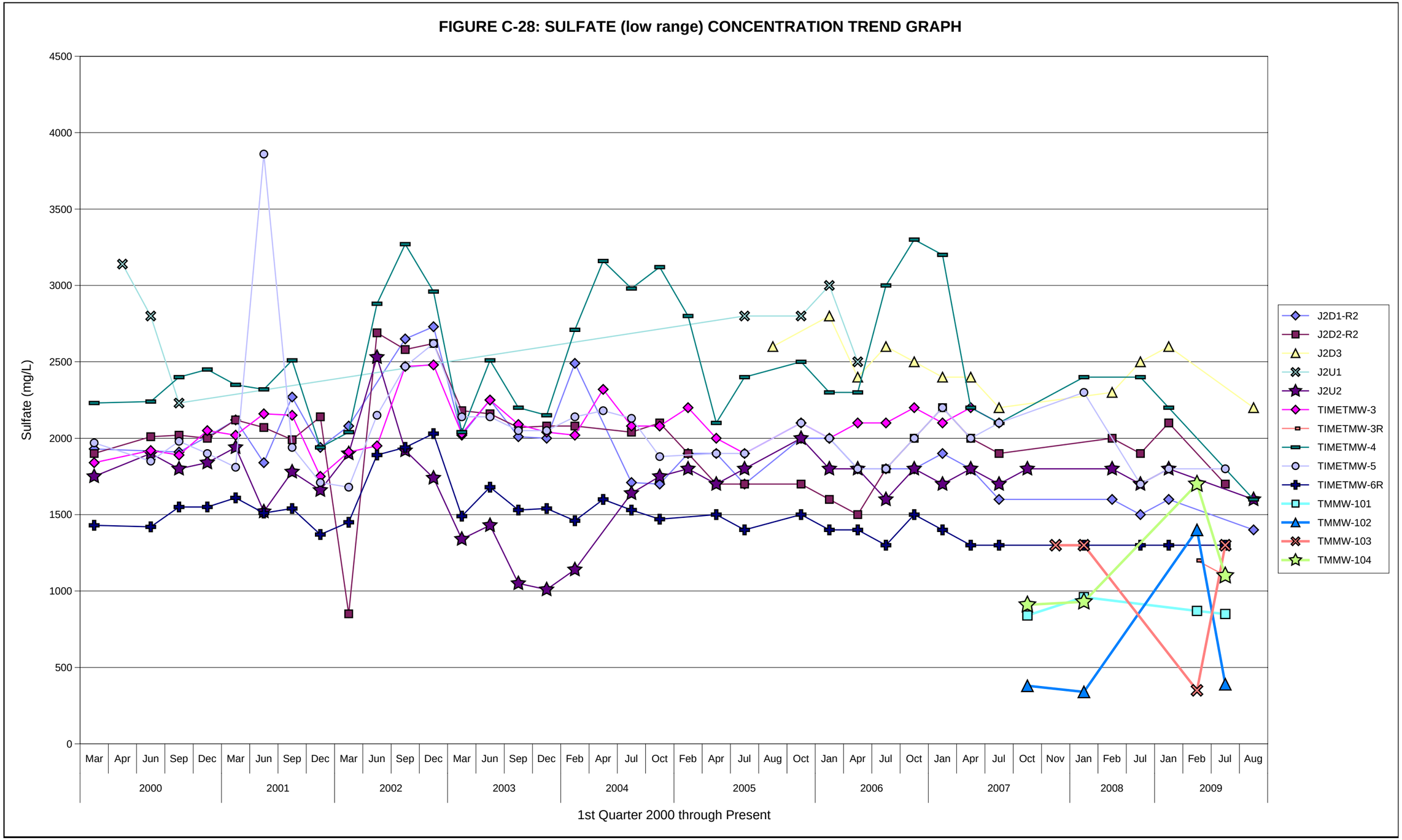
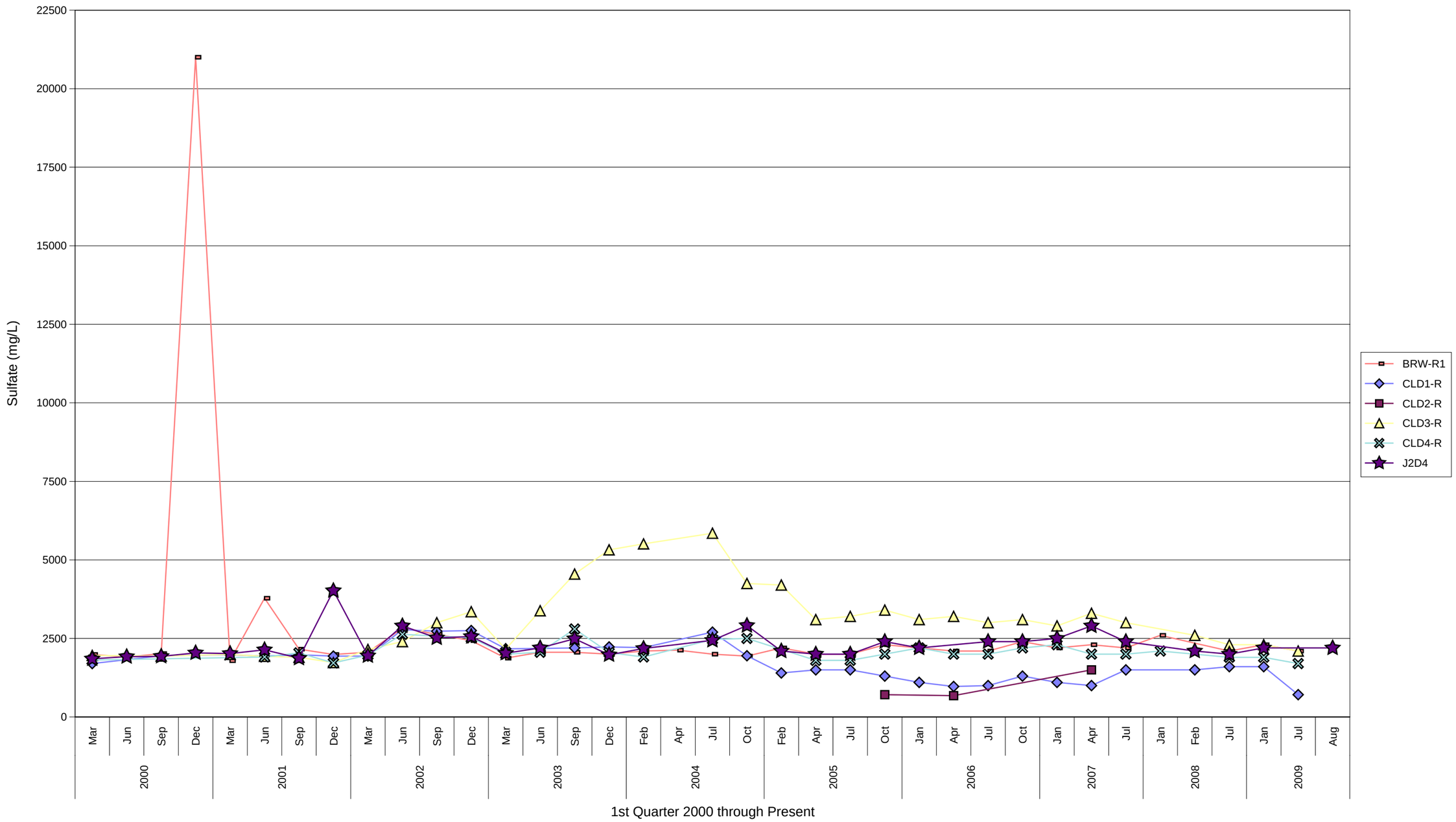


FIGURE C-28: SULFATE (low range) CONCENTRATION TREND GRAPH
Sulfate (mg/L)
4500
4000
3500
3000
2500
2000
1500
1000
500
0
Mar Apr Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Feb Apr Jul Oct Feb Apr Jul Aug Oct Jan Apr Jul Oct Jan Apr Jul Oct Nov Jan Feb Jul Jan Feb Jul Aug
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009
1st Quarter 2000 through Present
J2D1-R2
J2D2-R2
J2D3
J2U1
J2U2
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

FIGURE C-29: SULFATE (high range) CONCENTRATION TREND GRAPH



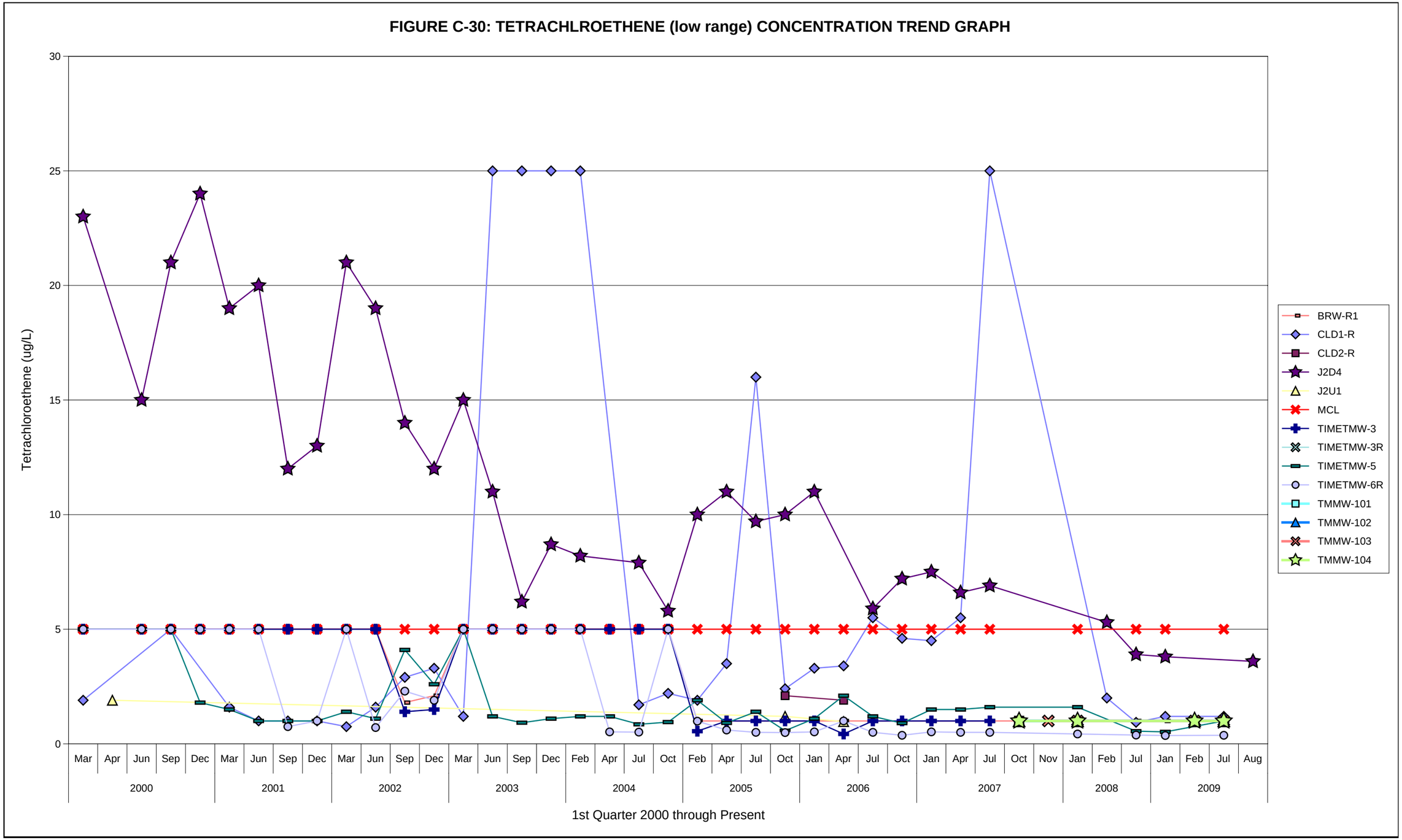


FIGURE C-30: TETRACHLROETHENE (low range) CONCENTRATION TREND GRAPH
Tetrachloroethene (ug/L)
30
25
20
15
10
5
0
Mar Apr Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Mar Jun Sep Dec Feb Apr Jul Oct Feb Apr Jul Oct Jan Apr Jul Oct Jan Apr Jul Oct Nov Jan Feb Jul Jan Feb Jul Aug
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009
1st Quarter 2000 through Present
BRW-R1
CLD1-R
CLD2-R
J2D4
J2U1
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-5
TIMETMW-6R
TMMW-101
TMMW-102
TMMW-103
TMMW-104

FIGURE C-31: TETRACHLROETHENE (high range) CONCENTRATION TREND GRAPH

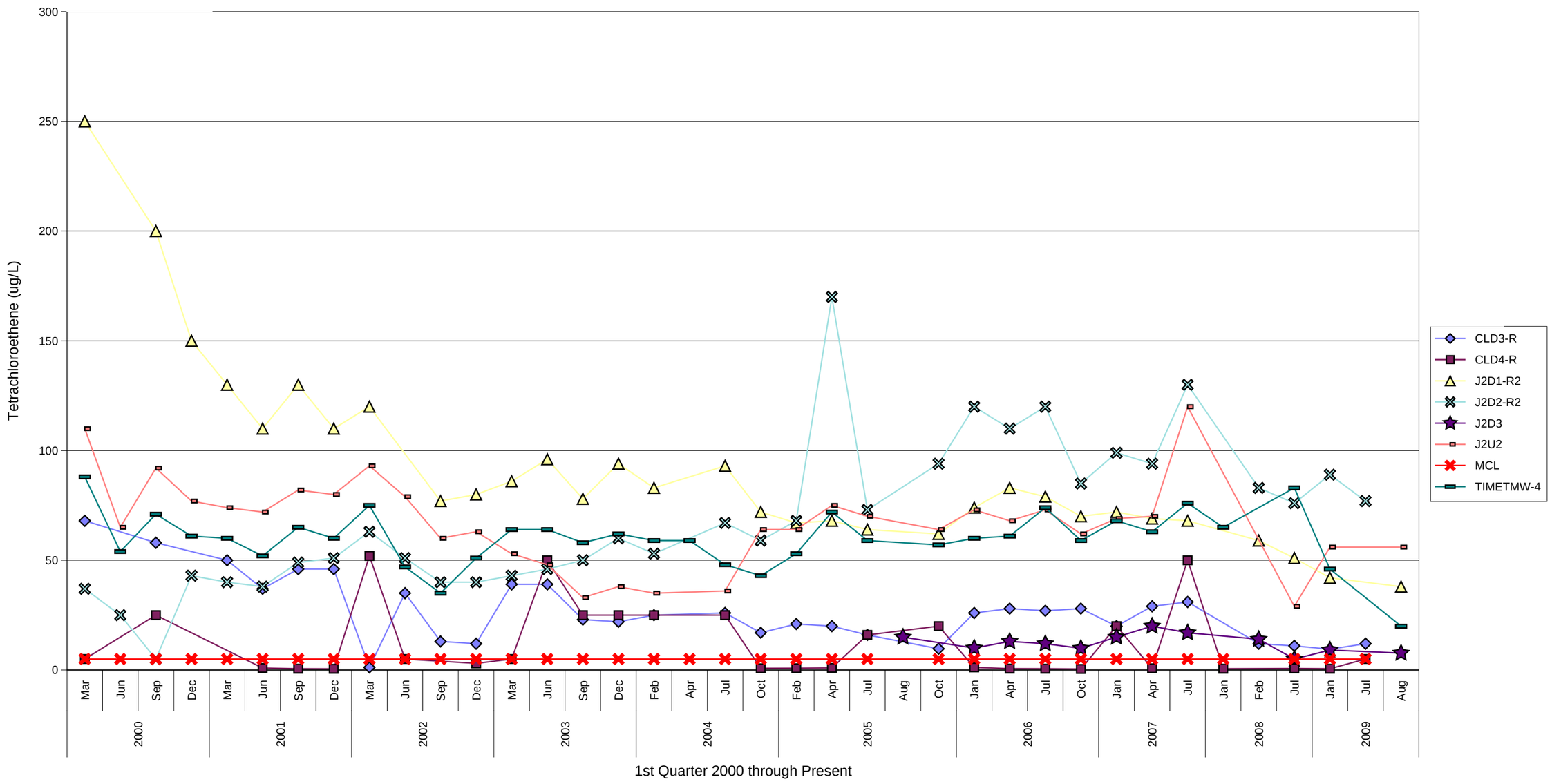


FIGURE C-32: TOTAL DISSOLVED SOLIDS (low range) CONCENTRATION TREND GRAPH

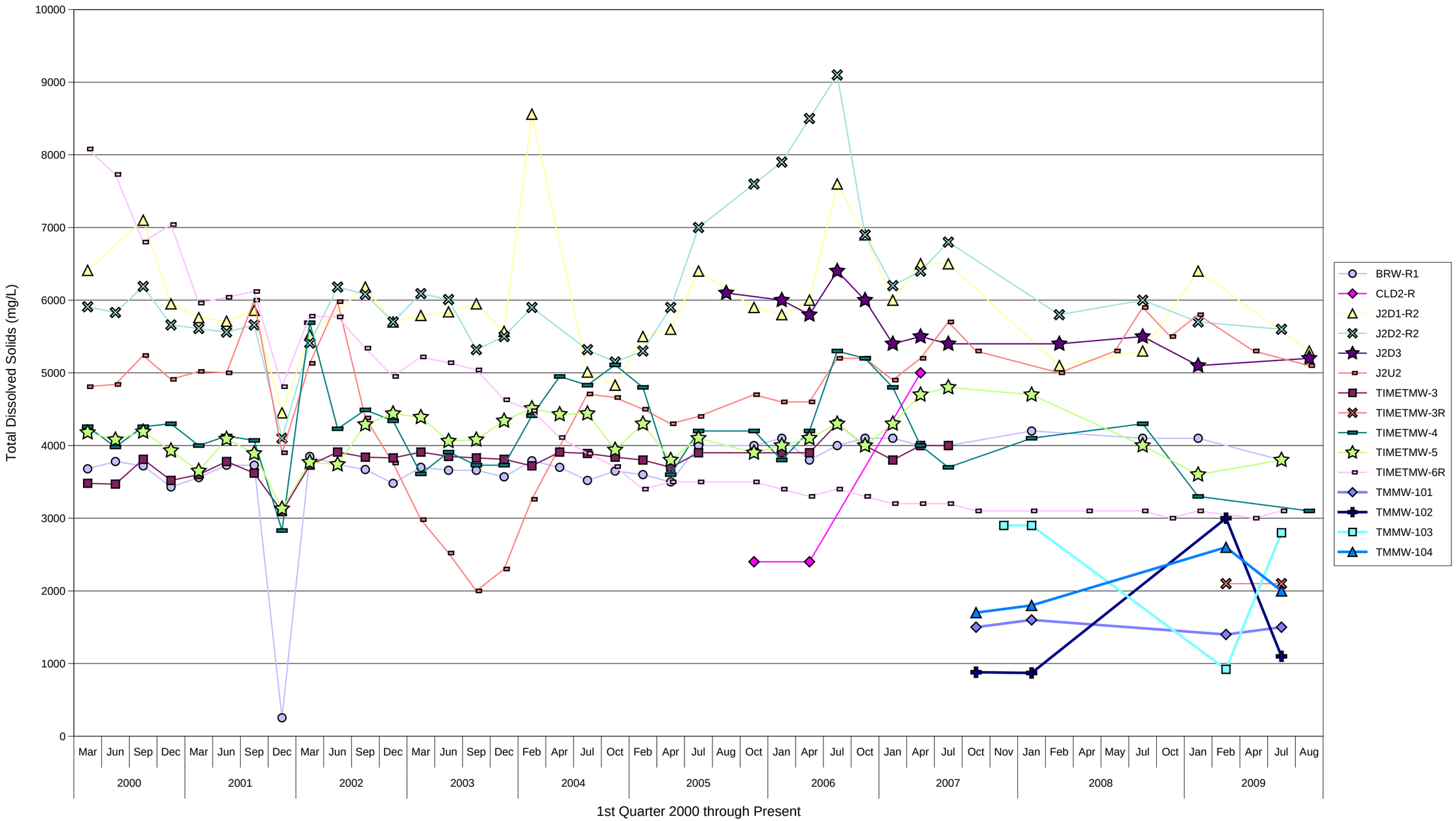


FIGURE C-33: TOTAL DISSOLVED SOLIDS (high range) CONCENTRATION TREND GRAPH

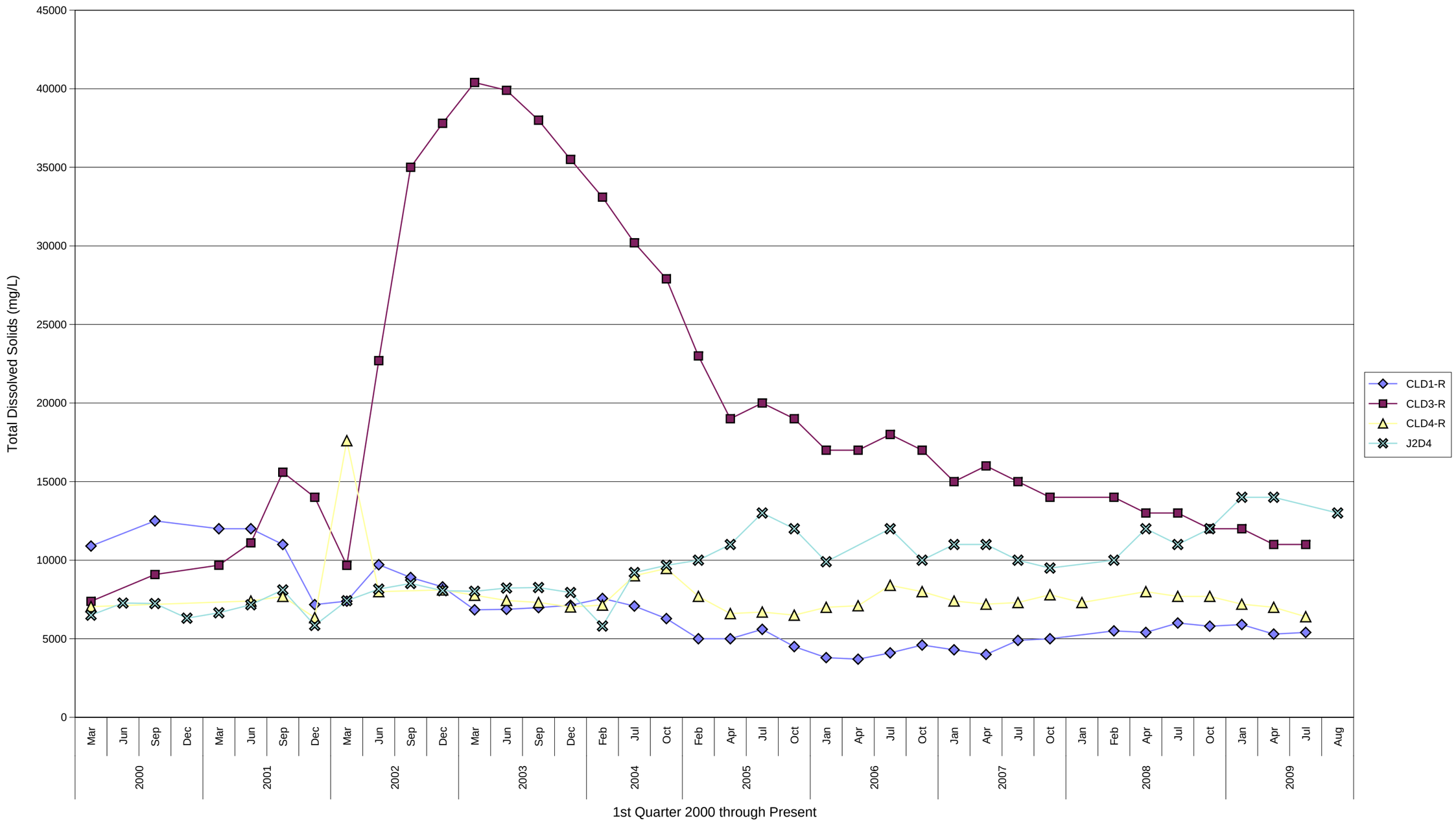


FIGURE C-34: TOTAL TRIHALOMETHANES (low range) CONCENTRATION TREND GRAPH

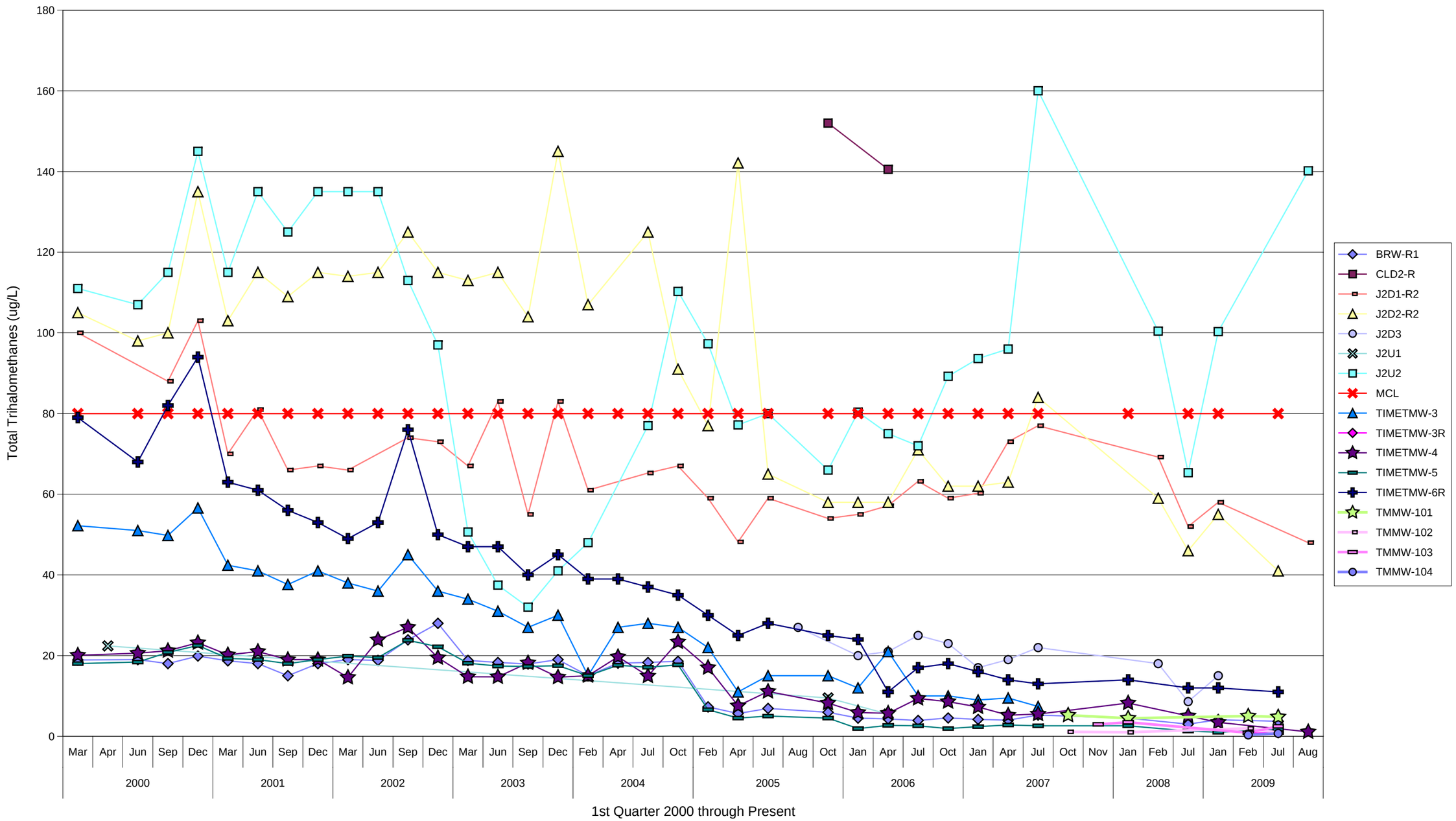


FIGURE C-35: TOTAL TRIHALOMETHANES (high range) CONCENTRATION TREND GRAPH

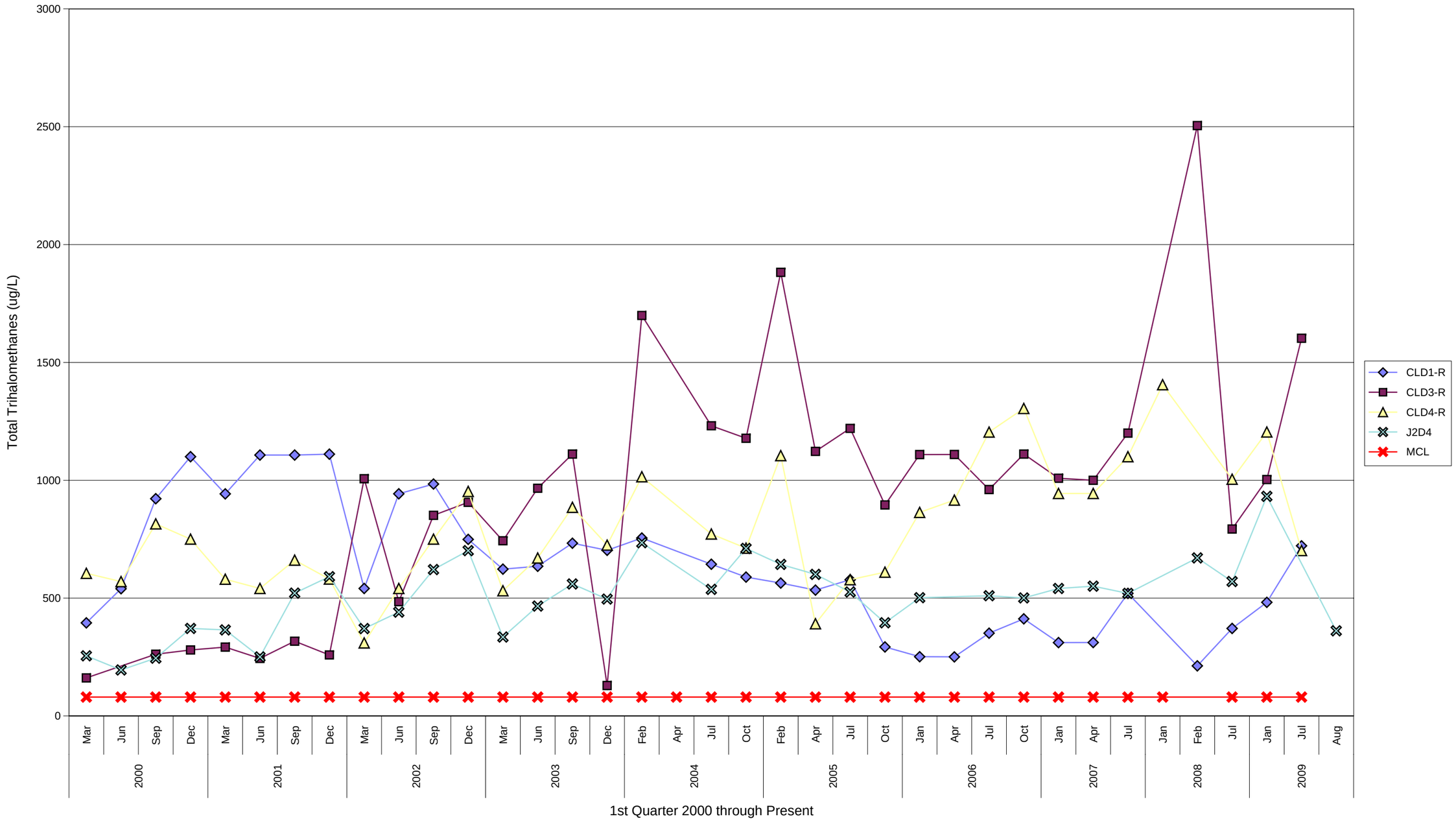
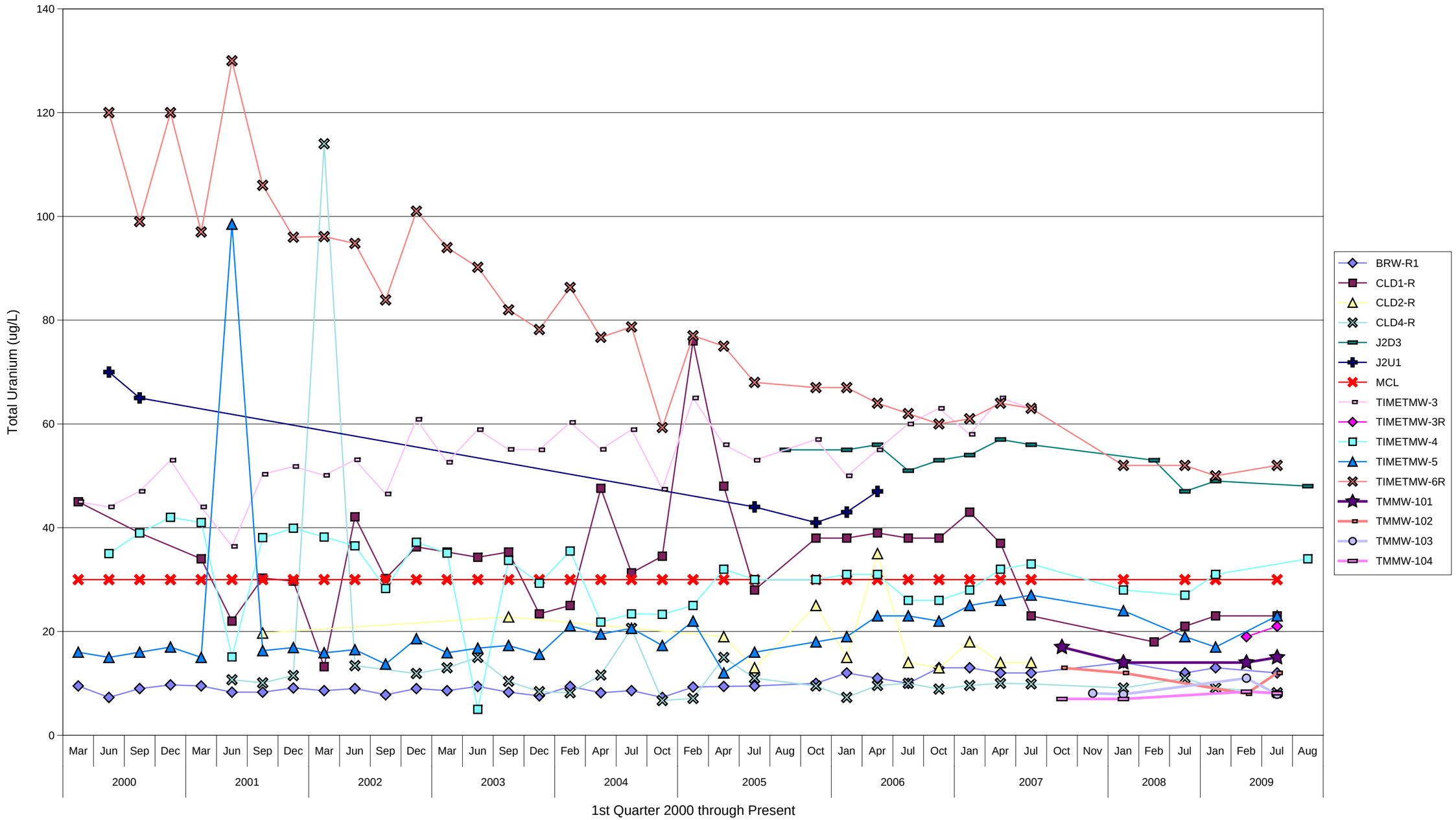


FIGURE C-36: TOTAL URANIUM (low range) CONCENTRATION TREND GRAPH



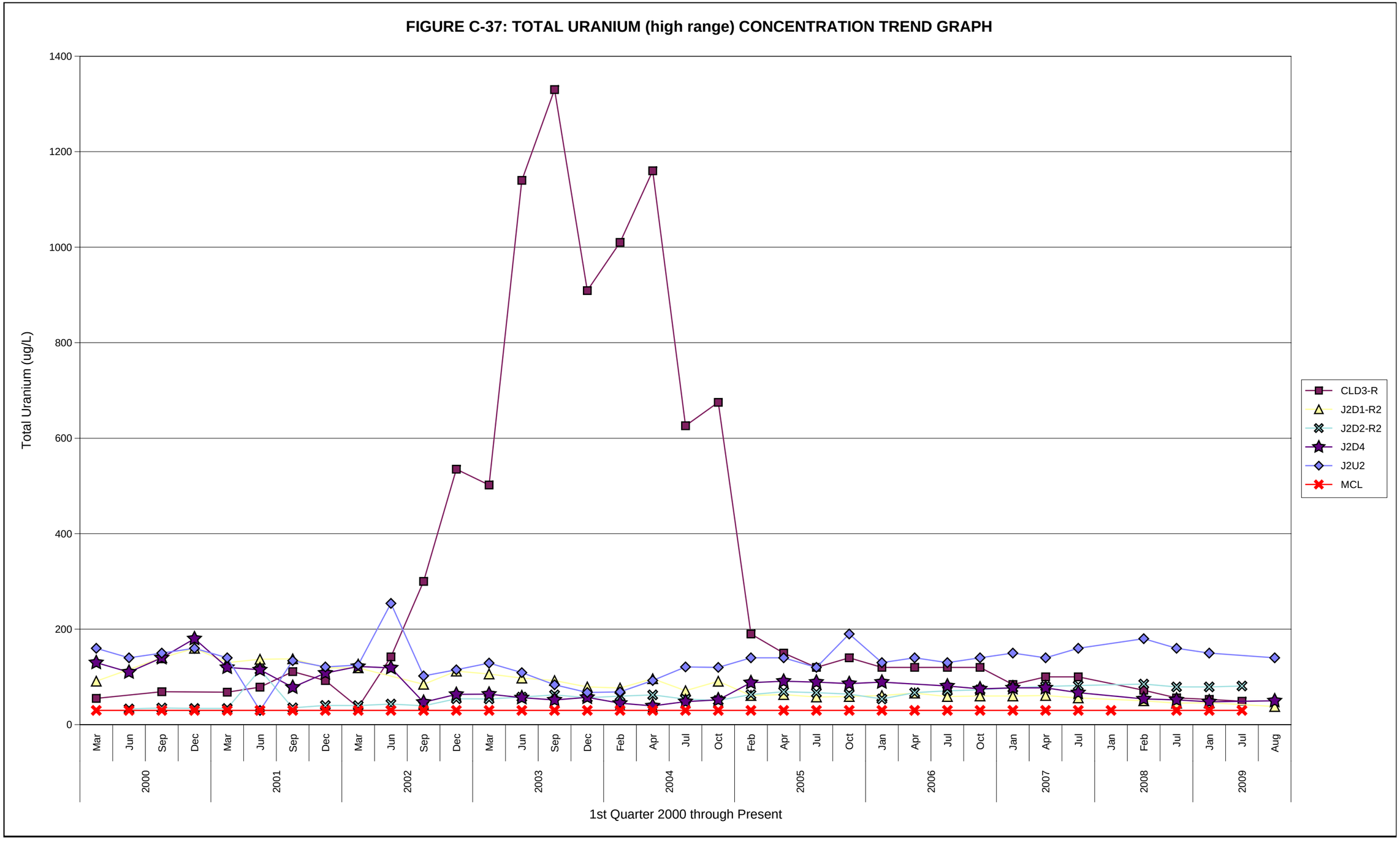


FIGURE C-37: TOTAL URANIUM (high range) CONCENTRATION TREND GRAPH
Total Uranium (ug/L)
1400
1200
1000
800
600
400
200
0
Mar
Jun
Sep
Dec
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
Feb
Apr
Jul
Oct
Jan
Aug
1st Quarter 2000 through Present
CLD3-R
J2D1-R2
J2D2-R2
J2D4
J2U2
MCL

FIGURE C-38: TRICHLROETHENE CONCENTRATION TREND GRAPH

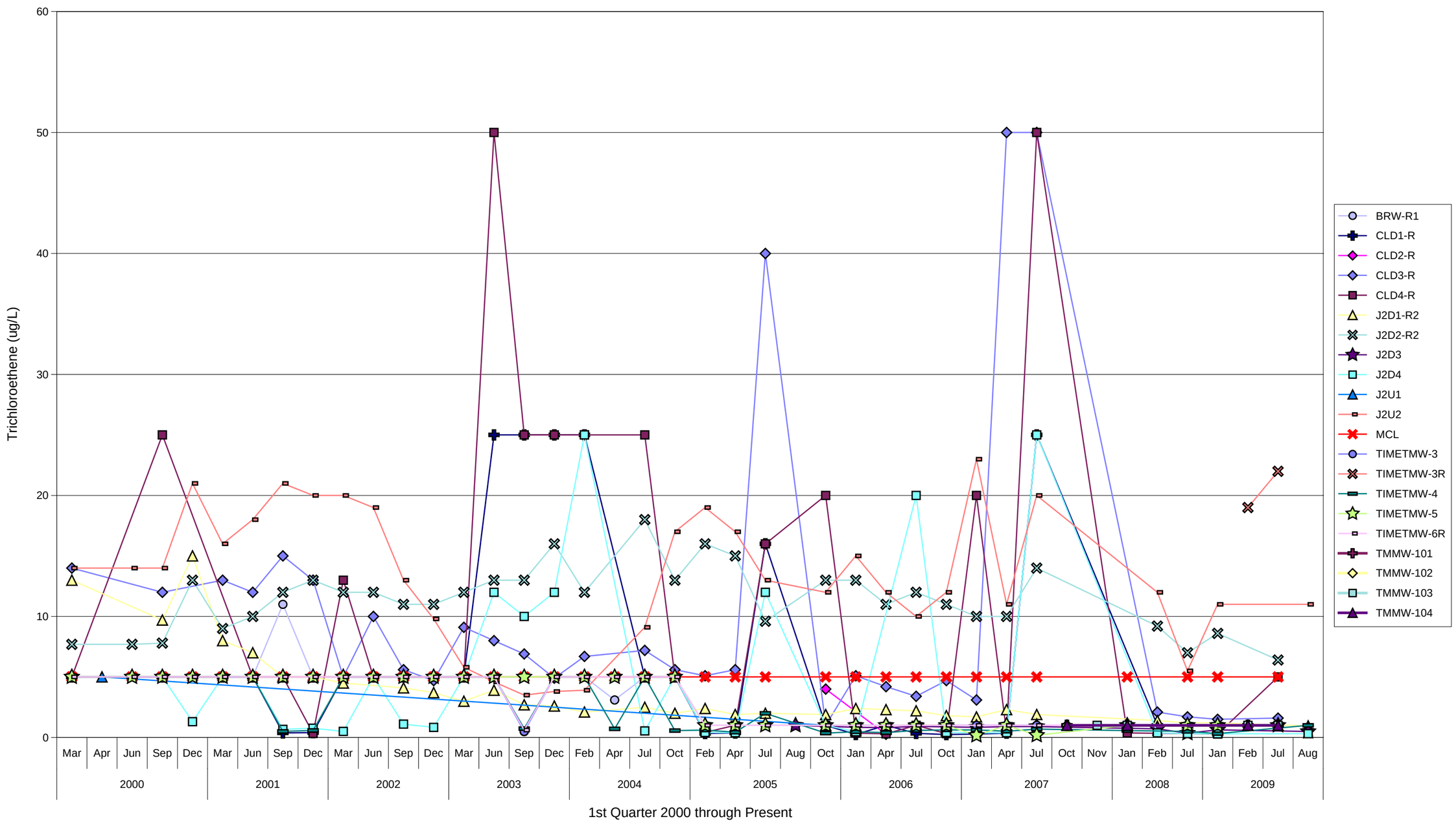
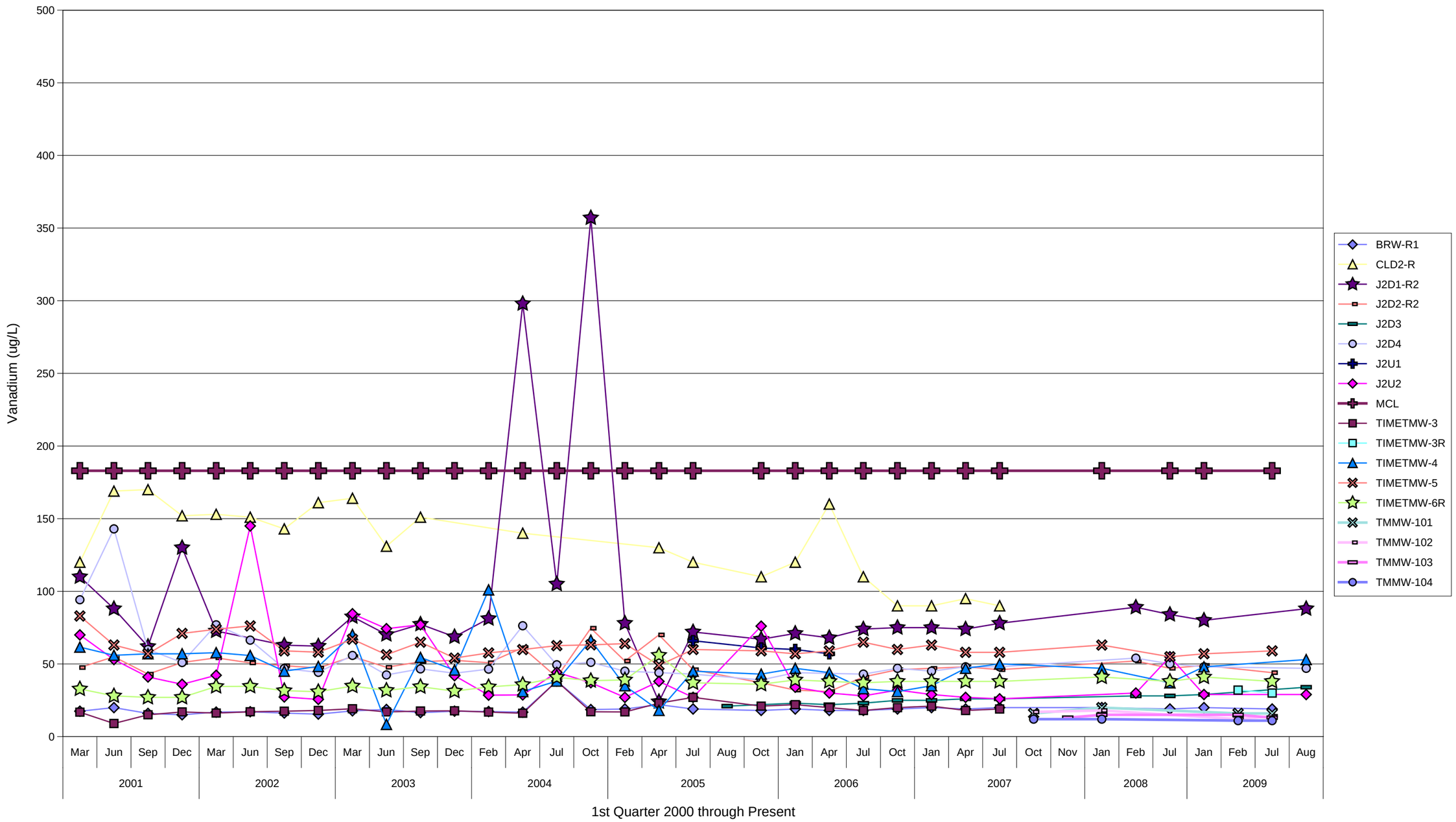


FIGURE C-39: VANADIUM (low range) CONCENTRATION TREND GRAPH



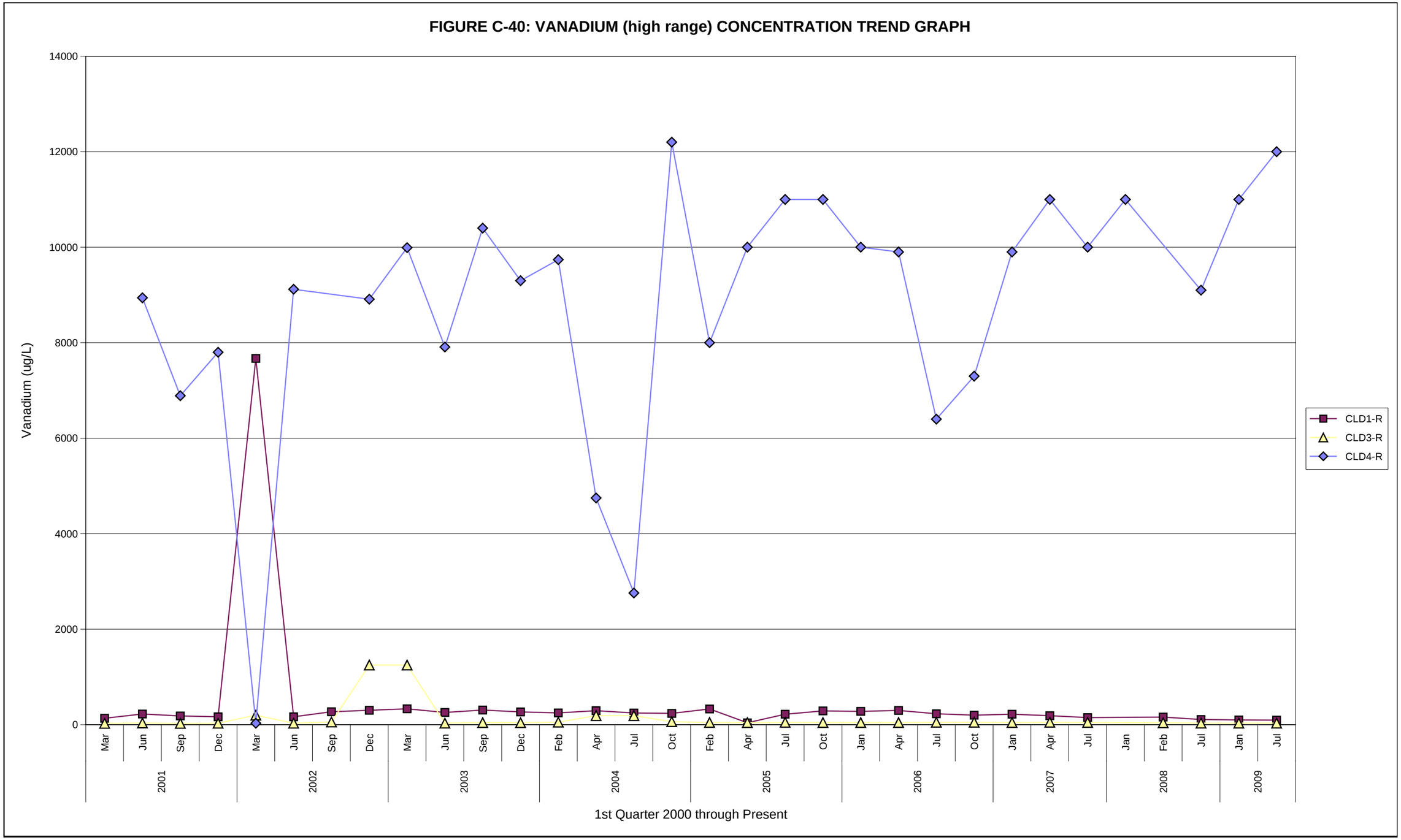


FIGURE C-40: VANADIUM (high range) CONCENTRATION TREND GRAPH
Vanadium (ug/L)
14000
12000
10000
8000
6000
4000
2000
0
Mar
Jun
Sep
Dec
2001
2002
2003
2004
2005
2006
2007
2008
2009
Feb
Apr
Jul
Oct
Jan
1st Quarter 2000 through Present
CLD1-R
CLD3-R
CLD4-R

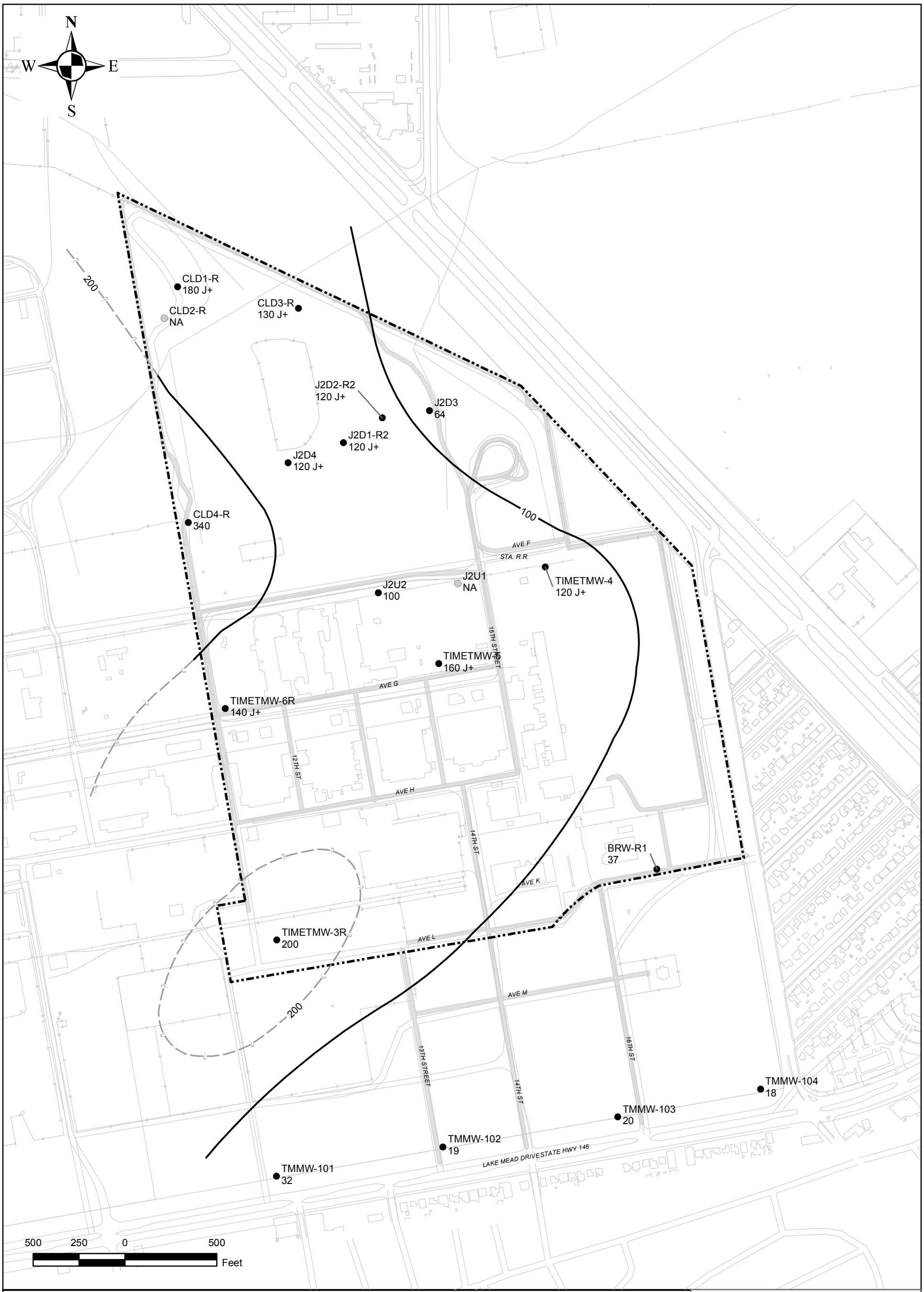
APPENDIX D

ISOCONCENTRATION MAPS

APPENDIX D

ISOCONCENTRATION MAPS

D-1 ARSENIC
D-2 CHROMIUM
D-3 HEXAVALENT CHROMIUM
D-4 MANGANESE
D-5 NITRATE AS NITROGEN
D-6 PERCHLORATE
D-7 COMBINED RADIUM-226 AND RADIUM-228
D-8 SULFATE
D-9 TETRACHLOROETHENE
D-10 TOTAL DISSOLVED SOLIDS
D-11 TOTAL TRIHALOMETHANES
D-12 TOTAL URANIUM



BRW-R1 37 ● MONITORING WELL WITH ARSENIC CONCENTRATION (µg/L)

J2U1 NA ◯ WELL NOT ANALYZED

100 ARSENIC CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

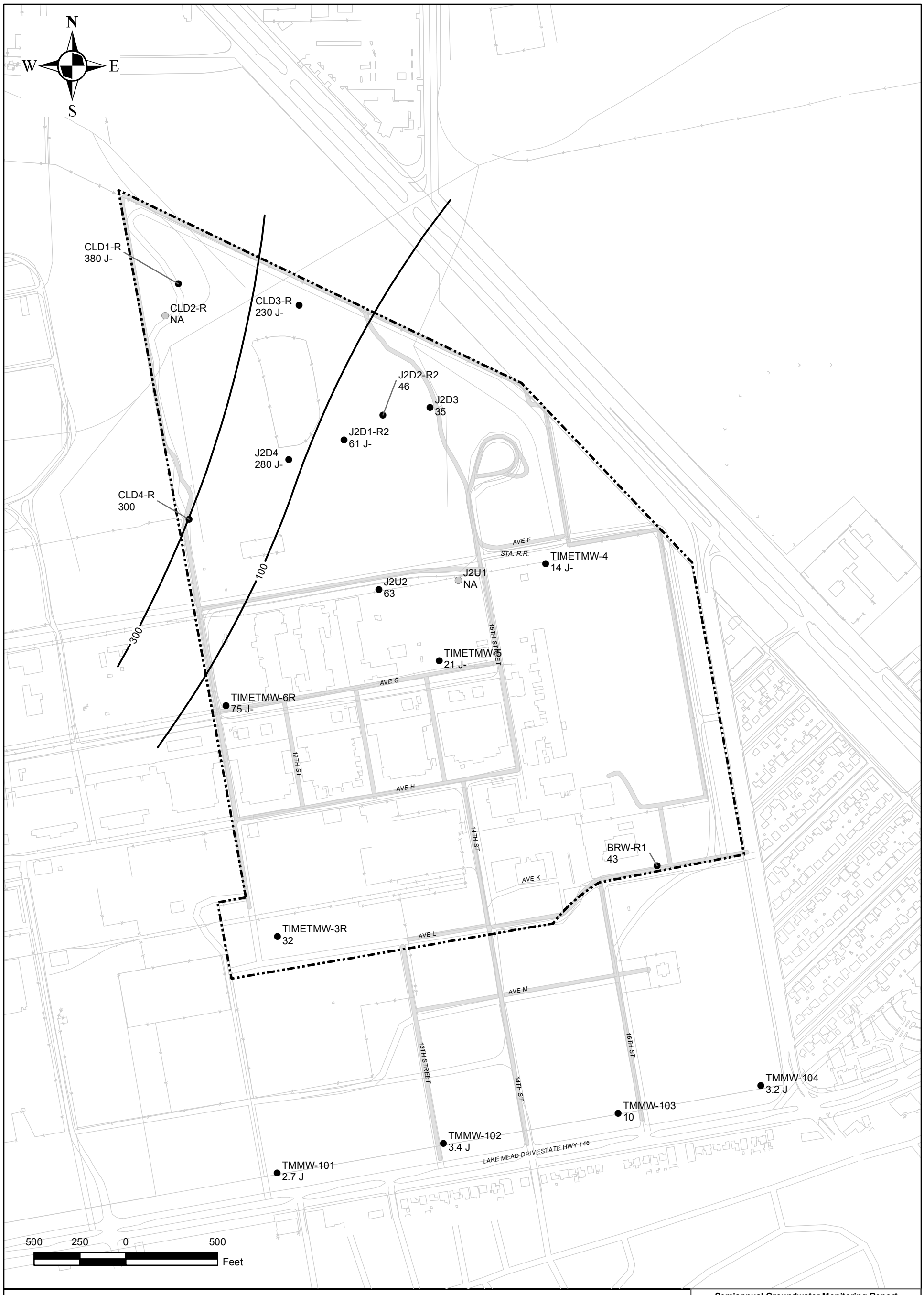
Note:
The screening level used for arsenic is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for arsenic is 10 µg/L.

Semiannual Groundwater Monitoring Report
2nd Semester 2009
Titanium Metals Corporation
Henderson, Nevada

FIGURE D-1
ARSENIC
ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteAS.mxd michelle.handley



BRW-R1 43 ● MONITORING WELL WITH CHROMIUM CONCENTRATION (µg/L)

J2U1 NA ◯ WELL NOT ANALYZED

100 CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for chromium is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for chromium is 100 µg/L.

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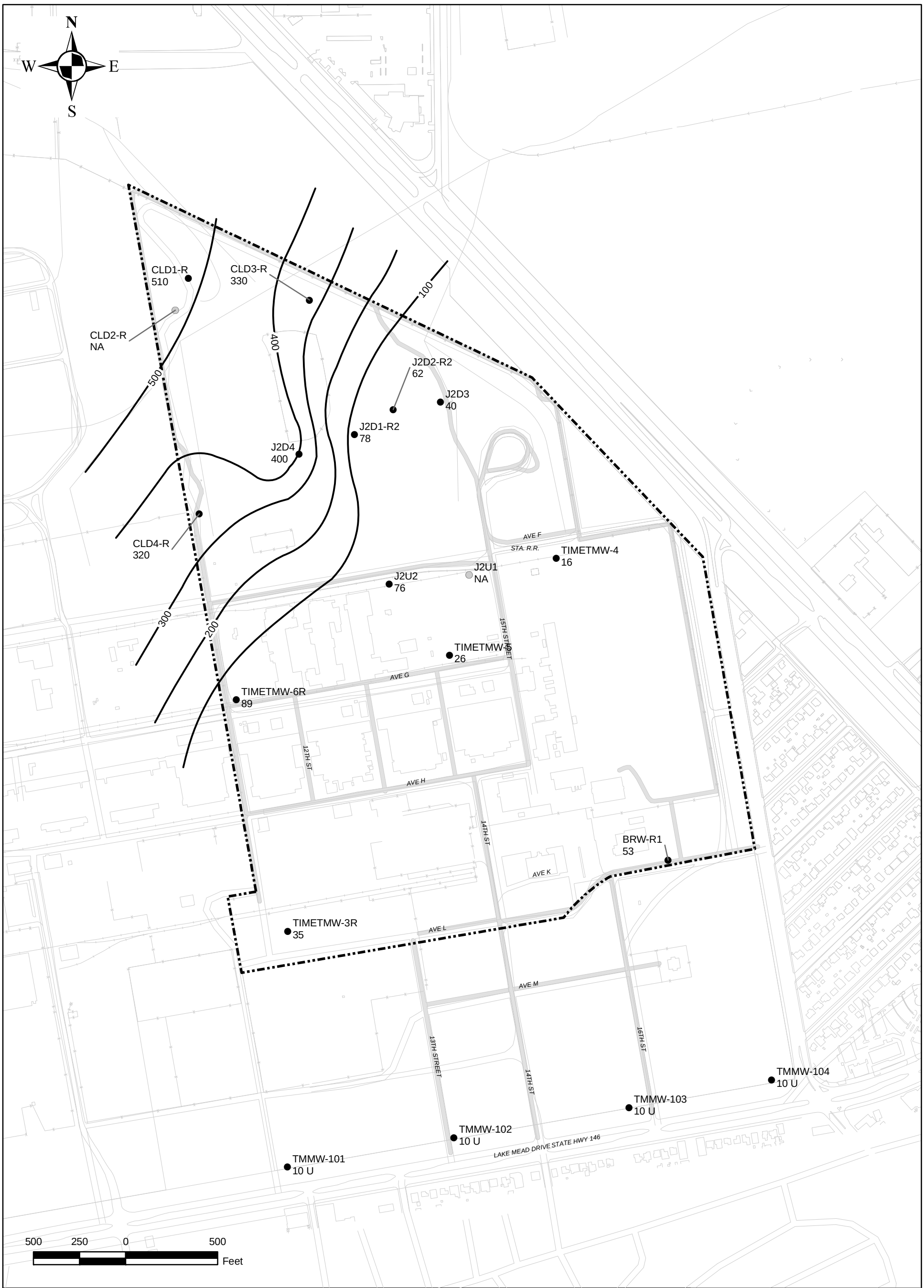
FIGURE D-2
CHROMIUM
ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteCR.mxd michelle.handley



BRW-R1 53 ● MONITORING WELL WITH HEXAVALENT CHROMIUM CONCENTRATION (µg/L)

J2U1 NA ● WELL NOT ANALYZED

100 HEXAVALENT CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for hexavalent chromium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for hexavalent chromium is 100 ug/L.

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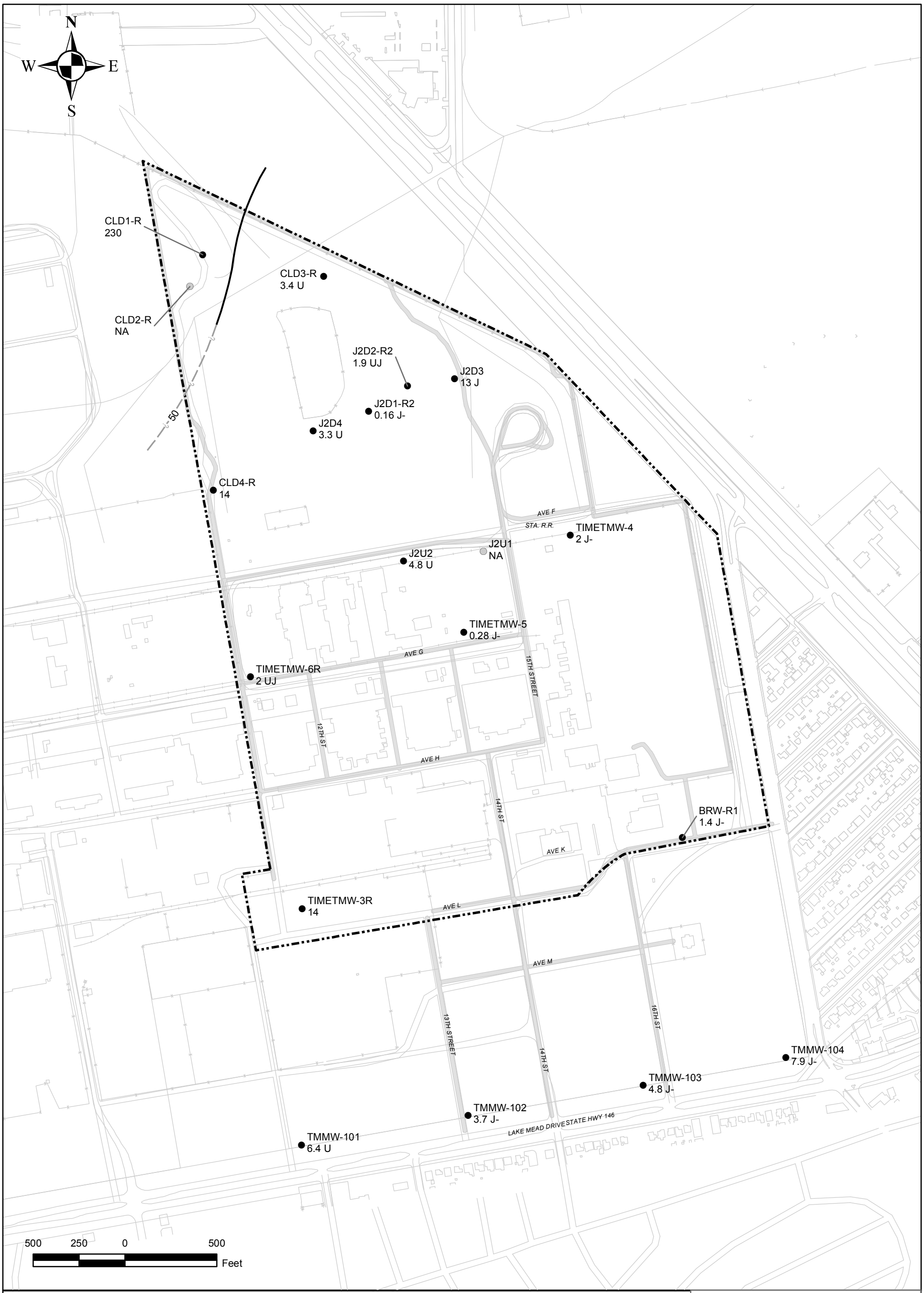
FIGURE D-3
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteHEXCR.mxd michelle.handley



BRW-R1 1.4 J- ● MONITORING WELL WITH MANGANESE CONCENTRATION (µg/L)

J2U1 NA ◉ WELL NOT ANALYZED

10 MANGANESE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for manganese is the EPA National Secondary Drinking Water Standard. The standard for manganese is 50 µg/L.

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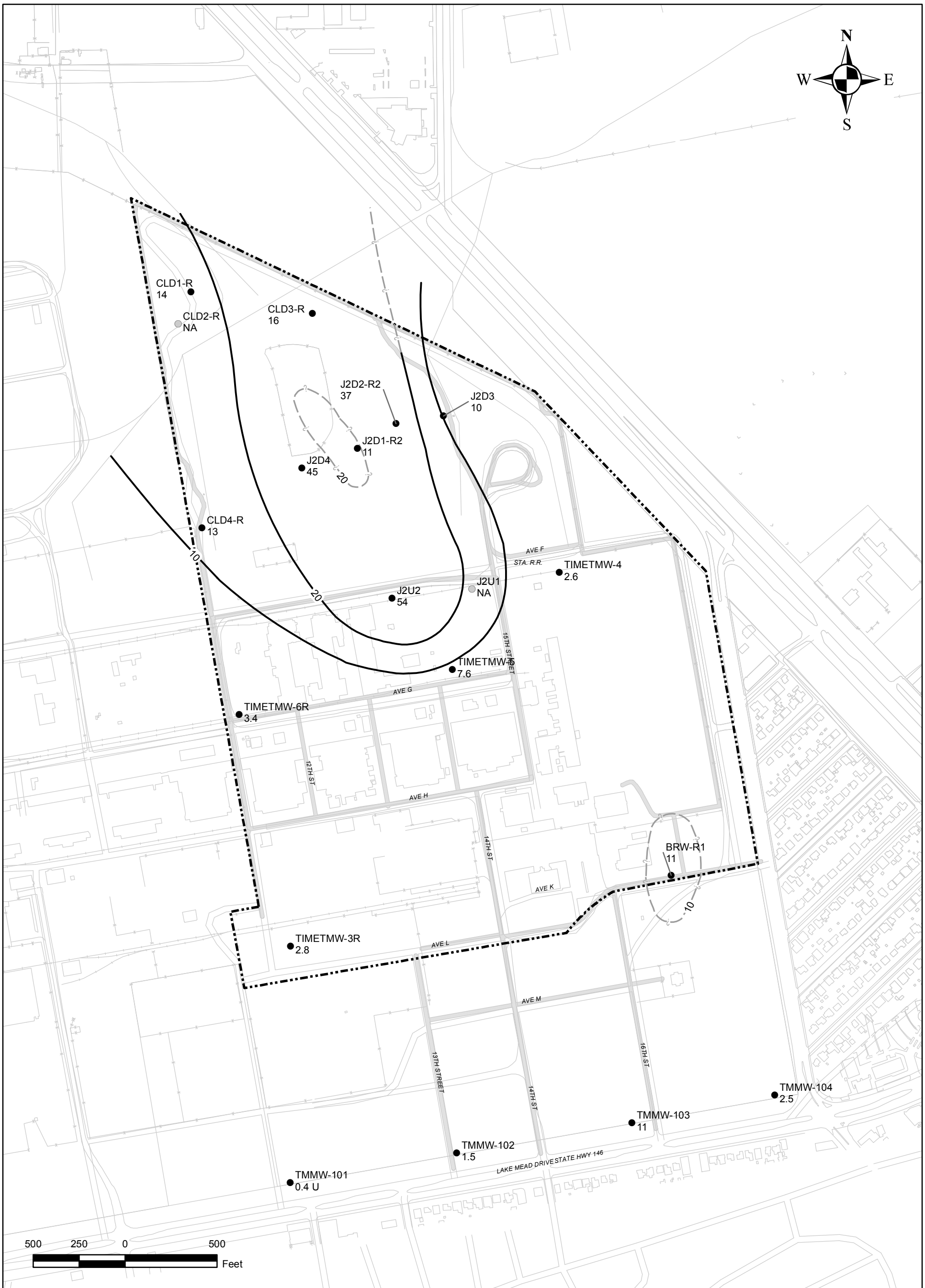
FIGURE D-4
MANGANESE
ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-4-27 C:\TIMET\1stSEM2009\mxd\TIMET_siteMN.mxd michelle.handley



BRW-R1 11 ● MONITORING WELL WITH NITRATE AS NITROGEN CONCENTRATION (mg/L)

J2U1 NA ◯ WELL NOT ANALYZED

10 NITRATE AS NITROGEN CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for nitrate is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for nitrate is 10 mg/L.

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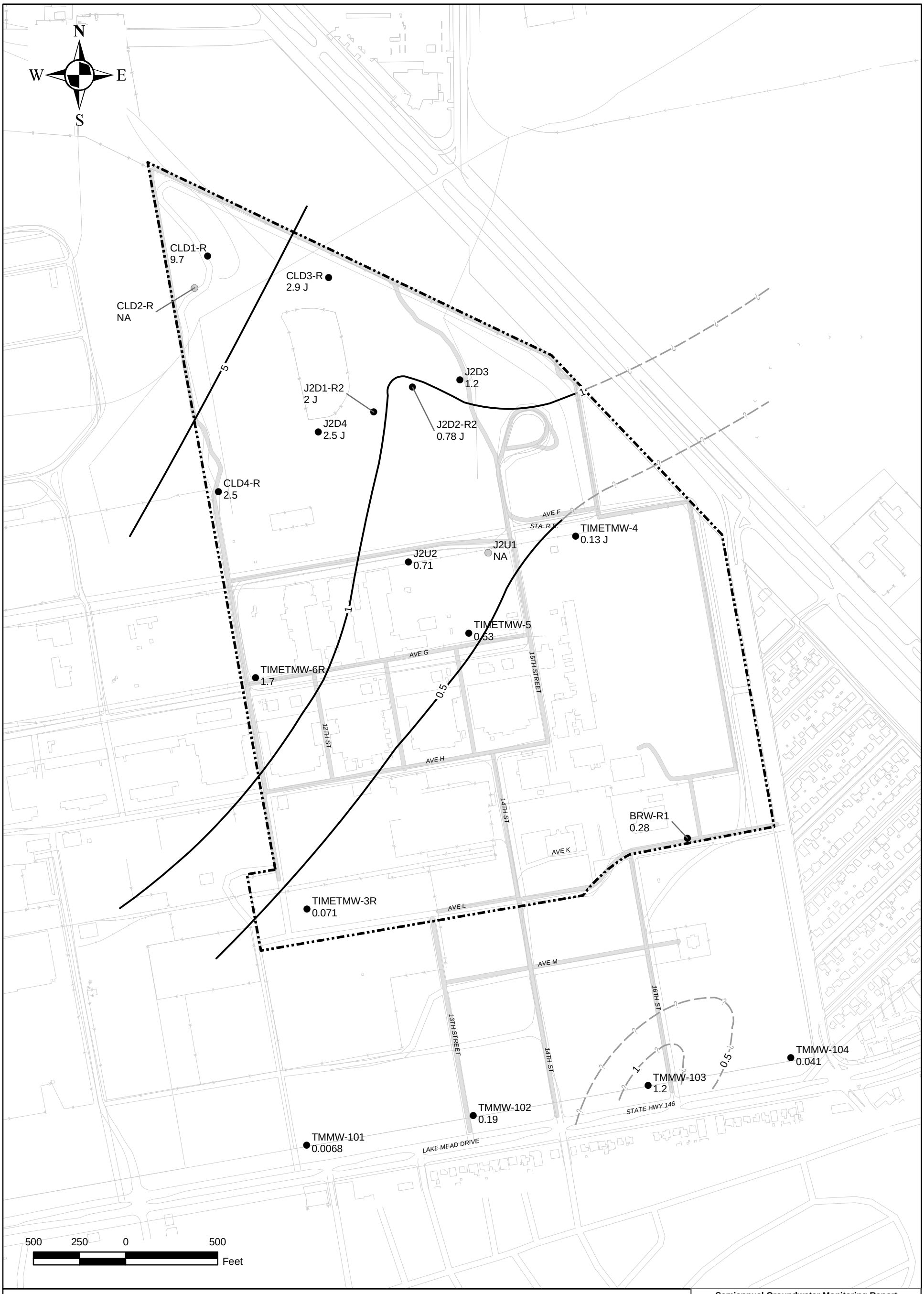
FIGURE D-5
NITRATE AS NITROGEN ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\mxd\TIMET_siteN.mxd michelle.handley



BRW-R1 0.28 — MONITORING WELL WITH PERCHLORATE CONCENTRATION (mg/L)

J2U1 NA — WELL NOT ANALYZED

100 — PERCHLORATE CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for perchlorate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for perchlorate is 0.018 mg/L.

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FIGURE D-6
PERCHLORATE
ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_sitePERCHLORATE.mxd michelle.handley

BRW-R1 1.61 — MONITORING WELL WITH COMBINED RADIUM-226 AND RADIUM-228 CONCENTRATION (pCi/L)

J2U1 NA — WELL NOT ANALYZED

1 — COMBINED RADIUM-226 AND RADIUM-228 CONTOUR (pCi/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

pCi/L PICOCURIE PER LITER

Note:
The screening level used for combined radium is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for combined radium is 5 pCi/L.

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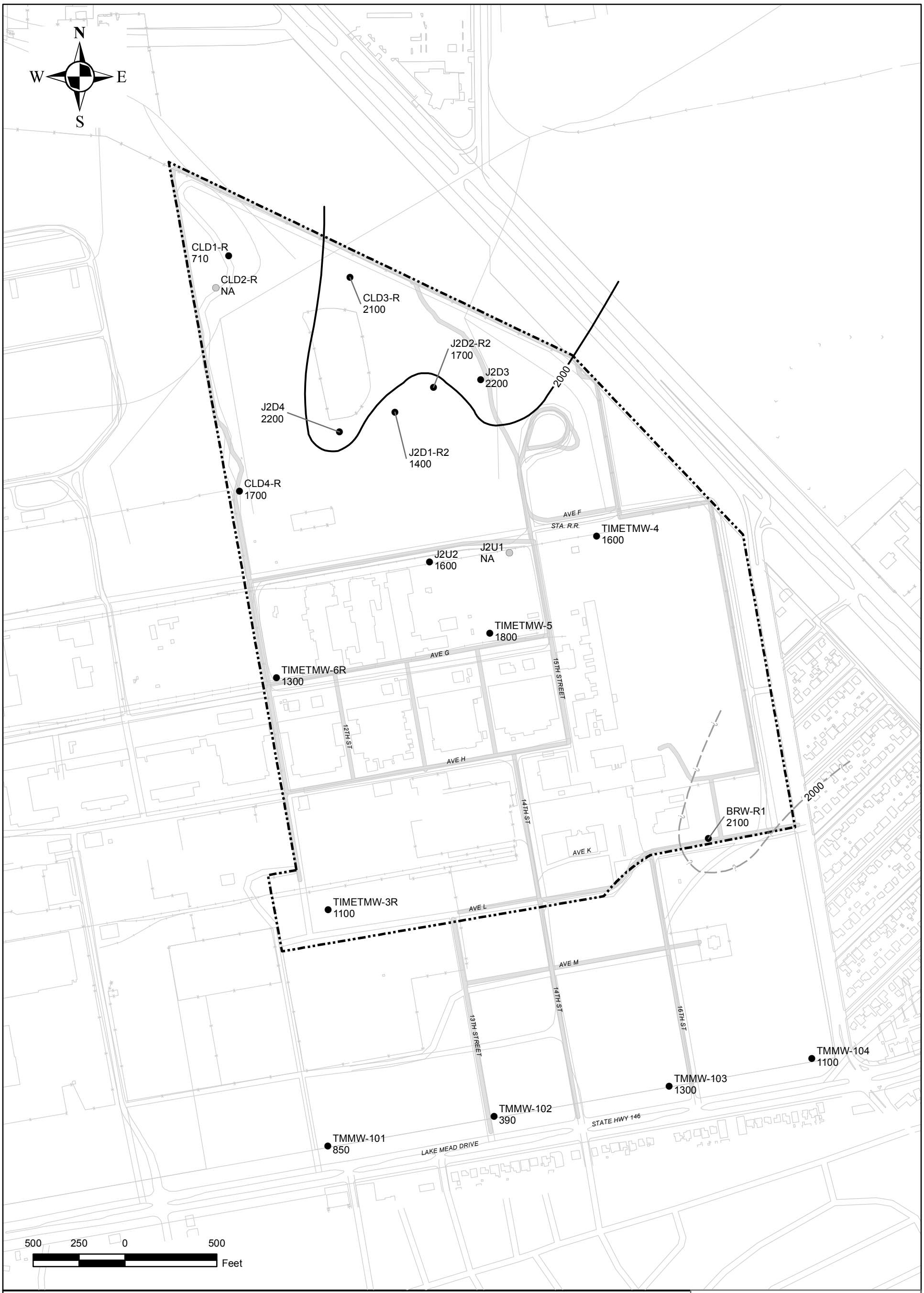
FIGURE D-7
COMBINED RADIUM-226 AND RADIUM-228 ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteRAD.mxd michelle.handley



BRW-R1 2100 ● MONITORING WELL WITH SULFATE CONCENTRATION (mg/L)

J2U1 NA ◯ WELL NOT ANALYZED

2500 SULFATE CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for sulfate is the EPA National Secondary Drinking Water Standard. The standard for sulfate is 250 mg/L.

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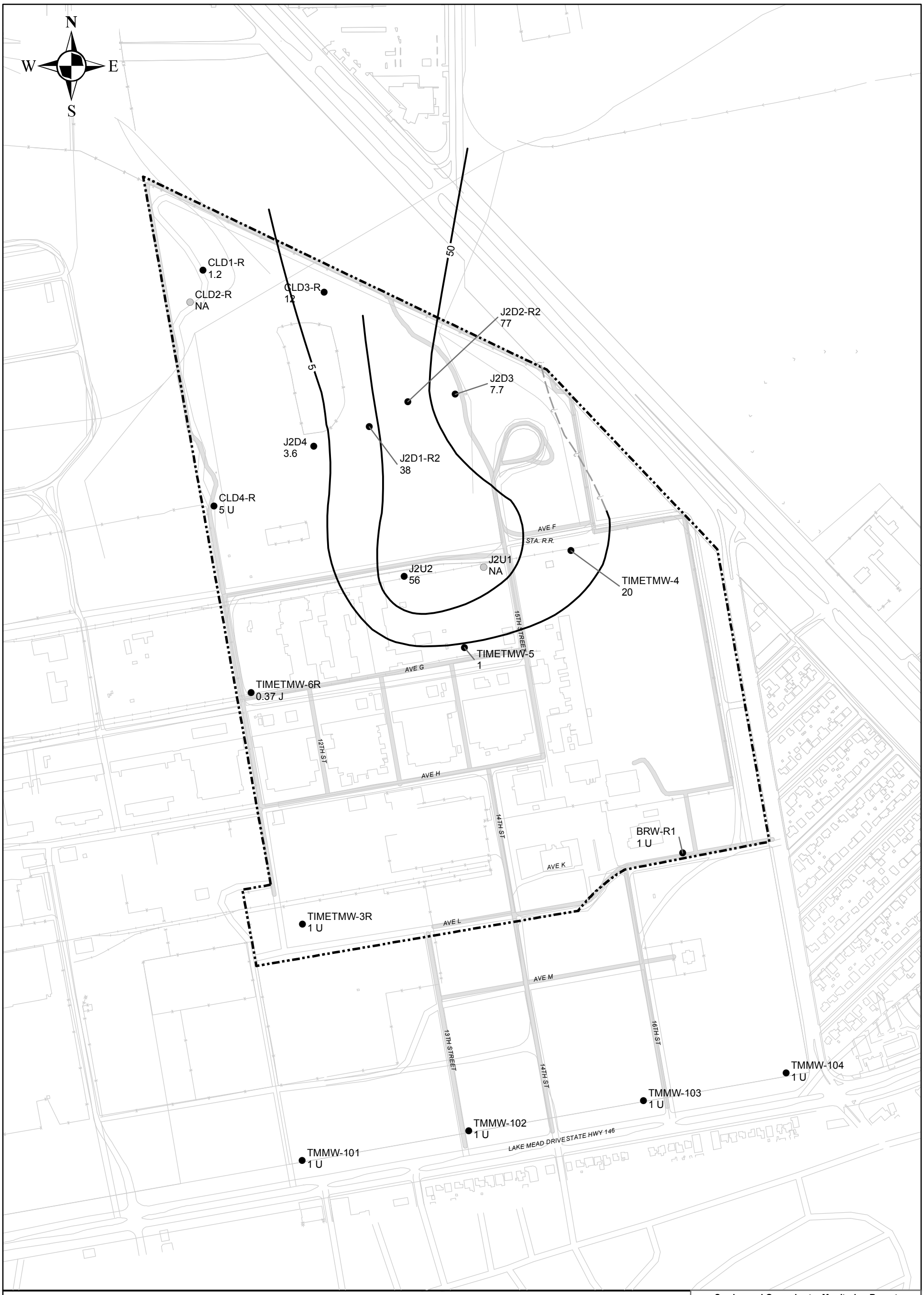
FIGURE D-8
SULFATE
ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_sites.mxd michelle.handley



BRW-R1 1 U — MONITORING WELL WITH TETRACHLOROETHENE CONCENTRATION (µg/L)

J2U1 NA — WELL NOT ANALYZED

50 — TETRACHLOROETHENE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for tetrachloroethene is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for tetrachloroethene is 5 µg/L.

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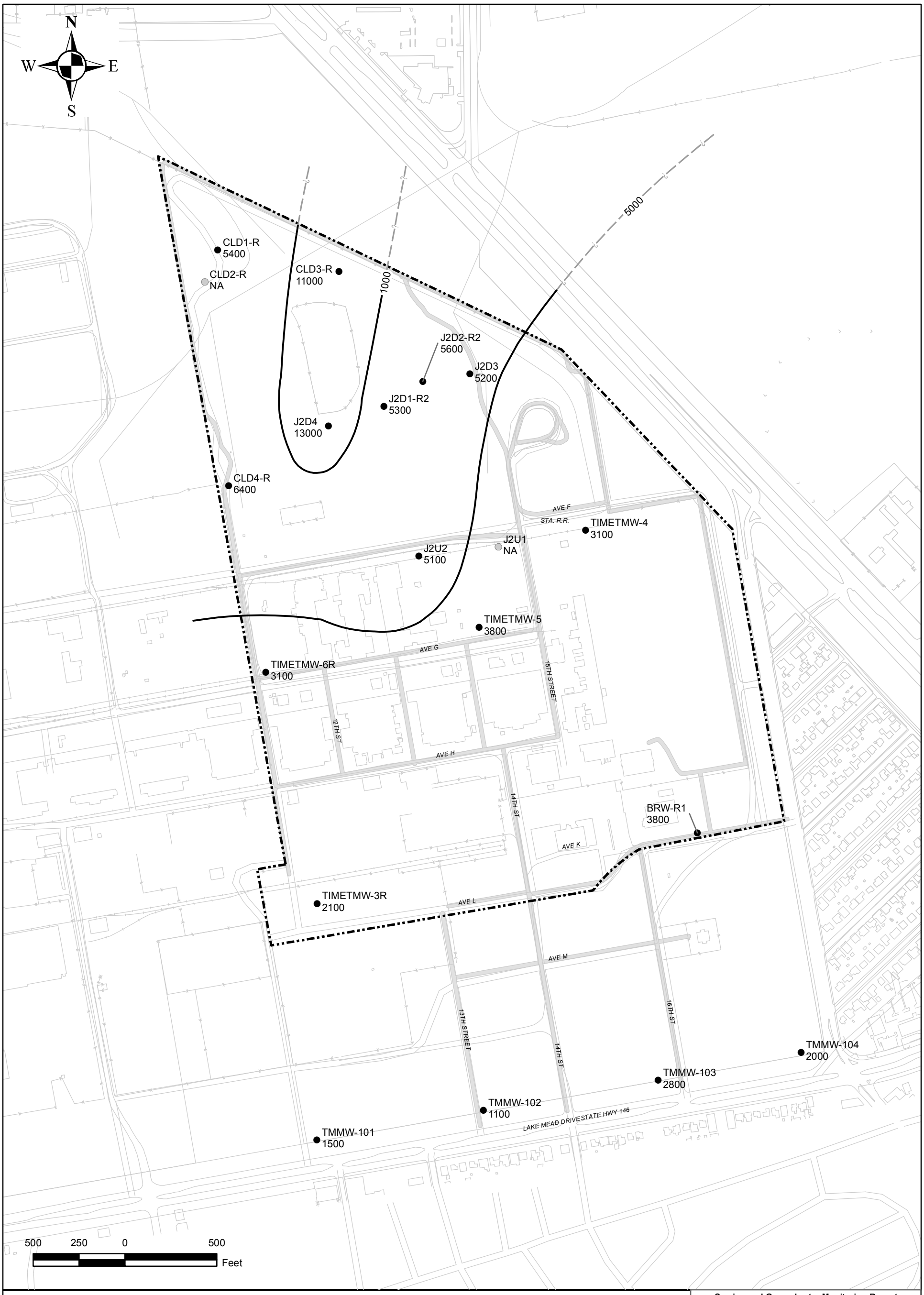
FIGURE D-9
TETRACHLOROETHENE ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_sitePCE.mxd michelle.handley



BRW-R1 3800 ● MONITORING WELL WITH TOTAL DISSOLVED SOLIDS CONCENTRATION (mg/L)

J2U1 NA ● WELL NOT ANALYZED

10000 TOTAL DISSOLVED SOLIDS CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for total dissolved solids is the EPA National Secondary Drinking Water Standard. The standard for total dissolved solids is 500 mg/L.

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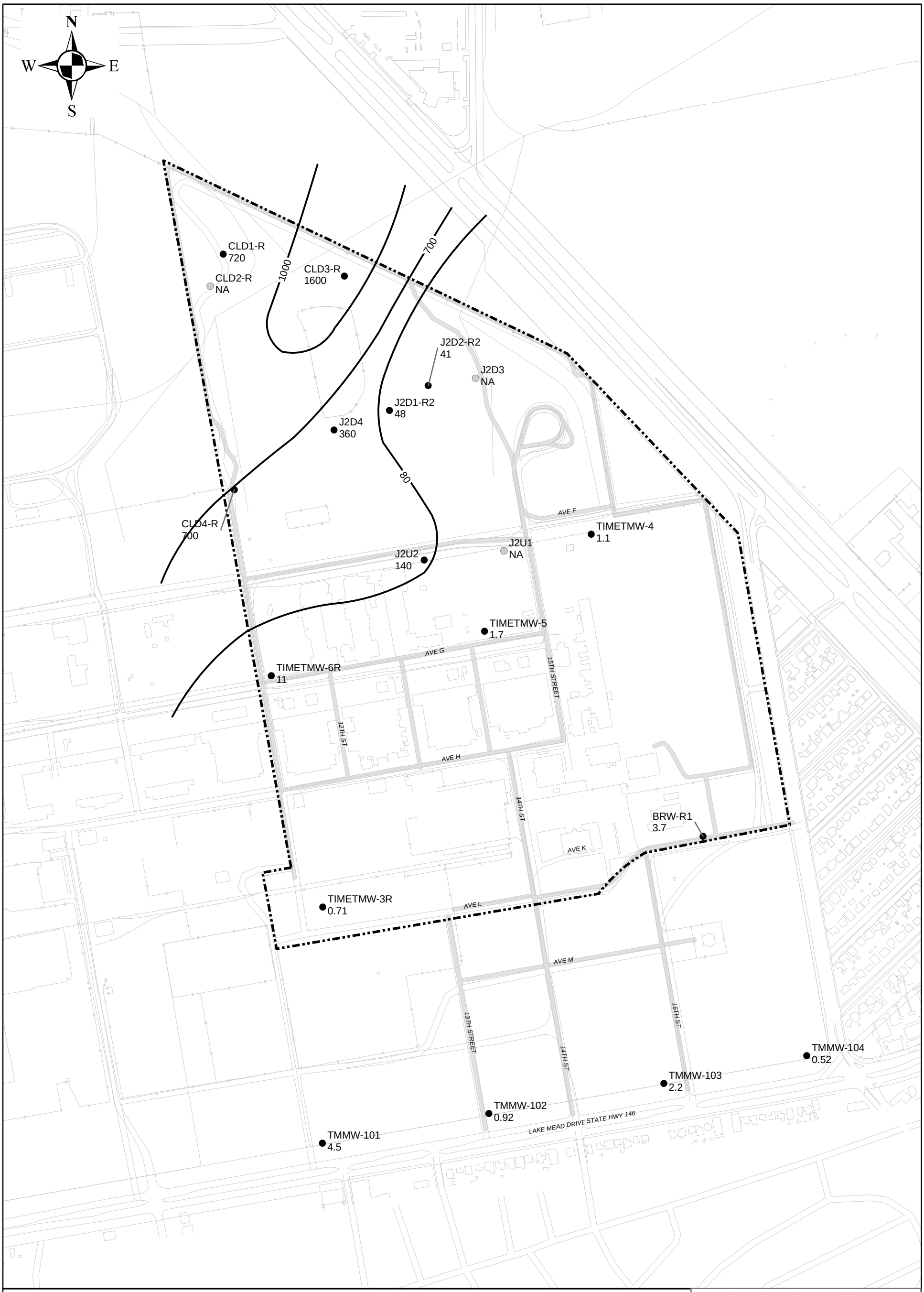
FIGURE D-10
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteTDS.mxd michelle.handley



BRW-R1 3.7 ● MONITORING WELL WITH TOTAL TRIHALOMETHANES CONCENTRATION (µg/L)

J2U1 NA ◯ WELL NOT ANALYZED

100 TOTAL TRIHALOMETHANES CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for total trihalomethanes is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL).
The MCL for total trihalomethanes is 80 µg/L.

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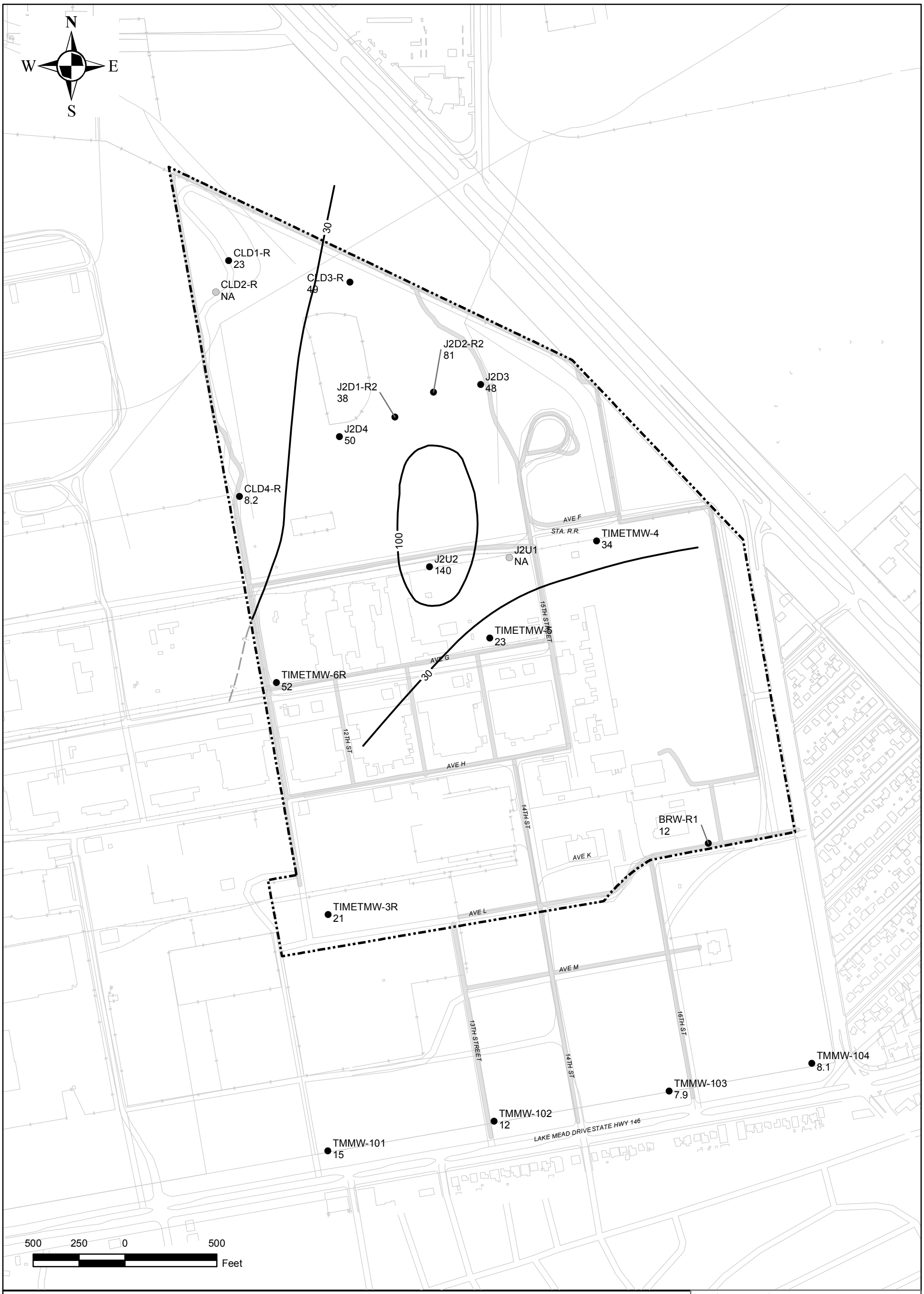
FIGURE D-11
TOTAL TRIHALOMETHANES ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteTHM.mxd michelle.handley



BRW-R1 12 ● MONITORING WELL WITH TOTAL URANIUM CONCENTRATION (µg/L)

J2U1 NA ○ WELL NOT ANALYZED

100 TOTAL URANIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for uranium is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL). The MCL for uranium is 30 µg/L.

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FIGURE D-12
TOTAL URANIUM ISOCONCENTRATION MAP
2ND SEMESTER 2009

TIMET

2009-11-27 C:\TIMET\2ndSEM2009\mxd\TIMET_siteU.mxd michelle.handley