

MEMORANDUM

To: Brian Rakvica (NDEP)
From: Ranajit Sahu (BRC)
cc: John J. Dodge, PG (DBS&A)
Stephen J. Cullen, Ph.D, PG (DBS&A)
Date: April 6, 2009
Subject: Response-to-Comments and Attachments, 5th Round Groundwater Monitoring Report, BMI Common Areas (Eastside)

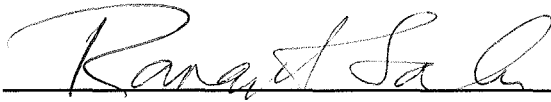
Introduction

Basic Remediation Company (BRC) submitted the draft fifth round groundwater monitoring report to the Nevada Division of Environmental Protection (NDEP) on December 23, 2008. The report is entitled, "Fifth Round Groundwater Monitoring Report (April-July 2008), BMI Common Areas (Eastside), Clark County, Nevada, prepared by MWH Americas, Inc., December 2008. The NDEP provided comments in their letter to BRC dated January 7, 2009. In addition, NDEP submitted additional comments while meeting with BRC on February 4, 2009, and in subsequent electronic mail correspondence (dated February 23, 2009).

BRC has prepared this response-to-comments (RTC) document to address the NDEP comments. The document consists of the following:

- Itemized response to NDEP's January 7, 2009 comment letter;
- Attachment A - Figures showing wells with selected groundwater analyte detections exceeding U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs) and Nevada Basic Comparison Levels (BCLs);
- Attachment B - A revised statistical table of selected analyte detections exceeding USEPA MCLs and Nevada BCLs by water-bearing zone (Shallow, Middle, Deep);
- Attachment C - Figure 3-1 for the draft report, entitled, "Potentiometric Surface Map of the Shallow Water-bearing Zone Wells, Fifth Round Groundwater Event, (April-July 2008)"; and
- Attachment D - Revised cation/anion balance table.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state and local statutes, regulations and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.



4/6/09

Dr. Ranajit Sahu, C.E.M. (No. EM-1699, Exp. 10/07/2009)

Date

BRC Project Manager

**Response to Nevada Division of Environmental Protection N(DEP) Comments to:
Fifth Round Groundwater Monitoring Report (April – July 2008)
dated December 2008 (received December 24, 2008)
NDEP Facility ID# H-000688**

1. General comment, NDEP acknowledges that several of the comments below are related to the overall site investigation of groundwater and not related to the monitoring per say. NDEP is providing these comments because the issues were discovered as a result of the review of the groundwater monitoring report.

Response: Comment noted. BRC appreciates NDEP's comments regarding the overall groundwater investigation project.

2. Section 2.1, page 8, well MCF-03A continues to have an excessive amount of sedimentation. BRC has not identified the root cause of this problem. It is requested that BRC identify the root cause of this problem at this time. The well should be repaired or replaced (as appropriate). Please provide a schedule to address this issue in the revised report.

Response: BRC will evaluate the condition of Deep Zone well MCF-03A (located at the southeast corner of the Eastside Area) right after the installation of the new wells in the Eastside (expected in late April 2009) and discuss the results with NDEP. BRC will make every attempt to redevelop and repair this well.

3. Sections 2.1 through 2.9, pages 7 through 18, much of the discussion in these sections is unnecessary and should default to the project standard operating procedures (SOPs) or the quality assurance project plan (QAPP). BRC should merely note that the items in these sections were done in compliance with the SOPs and QAPP and discuss any deviations (as appropriate).

Response: Comment noted. BRC will simplify the text of future submittals where SOPs and the QAPP will be referenced in place of a detailed discussion. As agreed with NDEP, BRC will not be resubmitting the 5th quarter groundwater monitoring report, but instead, will be addressing NDEP comments going forward within separate documents, discussed below, that are scheduled for completion in 2009. These documents have been identified in subsequent discussions with the NDEP and are noted in the response to Comment #5.b.i.

4. Section 3.2, page 21, BRC should additionally reference the Nevada Basic Comparison Levels (BCLs) as promulgated on December 18, 2008.

Response: BRC will reference and utilize the Basic Comparison Levels (BCLs) going forward in future documents. As requested by the NDEP in correspondence dated February 23, 2009, BRC has prepared a set of figures depicting Eastside wells in each water-bearing zone that have groundwater detections for selected analytes exceeding U.S. Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs) and Nevada Basic Comparison Levels (BCLs). The set of

figures is provided as Attachment A. Attachment B is a summary table of statistical data showing exceedances over MCLs and BCLs for the selected analytes.

5. Sections 3.0 through 3.2, pages 18 through 38, generally, these sections do provide a data “summary”, however, there is an overall lack of conclusions.
- a. It is requested that a new Section 4.0 (and corresponding sub-sections) be added which presents conclusions.

Response: As noted above in the response to Comment #3, BRC will be preparing an Eastside CSM report in 2009. The CSM report will include a summary and evaluation of the Eastside data, with conclusions, as requested by NDEP.

- b. In addition, a Section 5.0 should be added which discusses “Path Forward” and “Schedule”.

Response: The Eastside CSM discussed above in Comment #5a will also include sections discussing the “path forward” and the schedule for upcoming tasks.

- i. It is suggested that this Section discuss items such as the following:
1. The site-wide groundwater model (and a definitive schedule for completion).
 2. The development and submittal of the site-wide conceptual site model (and a definitive schedule for completion).
 3. BRC’s response to the NDEP’s comments on BRC’s *Vertical Delineation Response-to-Comments* (and a definitive schedule for completion).
 4. Additional planned intrusive investigations (see also comments below on apparent data gaps).

Response: An update to these tasks was presented to NDEP in the February 4, 2009 project meeting. As discussed in the meeting, the groundwater model is currently being revised per NDEP comments and the revised calibration report is anticipated to be completed in April 2009; the CSM report is scheduled to be completed approximately by August 2009; BRC’s current response to NDEP comments regarding vertical delineation (vertical gradients) is in preparation with an anticipated completion in April 2009; and a workplan (dated March 4, 2009) for supplemental well installation and soil sampling was recently submitted to the NDEP for review and comment. NDEP prepared comments, dated 3/5/09, to the workplan and BRC prepared a response-to-comments (RTC) document for NDEP dated 3/26/09 (the NDEP did not request a revised workplan submittal). Well installation field work commenced on 3/30/09.

- c. For example, the Tracer Analyses Summary presents the data but presents no interpretation of the data.

Response: This topic was also discussed in the February 4, 2009 meeting. A technical memorandum summarizing the isotope sampling and data analysis was prepared and submitted to the NDEP on March 26, 2009.

- d. The discussion of trends for each chemical class is inconsistent.

Response: The CSM report discussed above in Comment #3 will provide a consistent discussion of trends for each chemical class.

6. Section 3.2, pages 21 and 22, VOC Results Summary, examples of issues to discuss are as follows:
- Is the source of tetrachloroethylene (PCE) known? If so, identify it. If not, additional work should be planned to address this data gap.

Response: As noted above in the response to Comment #3, an Eastside CSM report is in preparation. The CSM report will discuss issues such as VOC sources in detail (the VOCs detected in groundwater along the southwest portion of the Eastside are interpreted to be due to offsite sources - this topic will be further addressed in the CSM report).

- Do the other VOCs behave in the same manner as the PCE and is the nature and extent the same? If so, this should be stated. If not, additional discussion should be provided and additional figures should be generated.

Response: Please see the response to Comment #6a above.

- c. Please note that these comments could be universally applied to the remainder of Section 3.2.

Response: Comment noted - these issues will be addressed in the Eastside CSM report.

7. Section 3.2, page 22, SVOC Results Summary, a representative sub-set of specific SVOCs should be discussed and figures should be generated.

Response: As discussed in the response to Comments #5a, #5d, and #6a above, the Eastside CSM will discuss issues such as data trends for each chemical class. The CSM report will also include supporting figures to illustrate the conclusions drawn from the data evaluation.

8. Section 3.2, page 23, Organochlorine Pesticide (OCP) Results Summary, a representative sub-set of specific OCPs should have figures generated.

Response: Please see the response to Comment #7 above.

9. Section 3.2, pages 24 through 25, Total Metal Results Summary, the NDEP has the following comments:

- It is not clear why the extremely elevated detection limits for arsenic are not discussed. In addition, please discuss if other metals suffered from the same analytical issues.

Response: BRC has prepared a technical memorandum discussing the detection limit issues. This was submitted to the NDEP for review on March 25, 2009. Specifically, for arsenic, BRC is evaluating the collision-cell analysis method and initial indications are that consistent and lower detection limits can be obtained by this technique.

- b. Arsenic, hexavalent chromium and methyl mercury are discussed. It is important to understand the geochemical behavior of the other metals and justify why no additional metals are discussed.

Response: As discussed above in the response to Comment #7 above, the Eastside CSM report will include a discussion of data trends for each chemical class - including metals.

- 10. Section 3.2, page 28, Aldehyde Results Summary, a representative sub-set of specific aldehydes should have figures generated.

Response: Please see the response to Comment #7 above.

- 11. Figure 3-1, this Figure was not provided with the report.

Response: A copy of Figure 3-1 (BMI Common Areas (Eastside) Potentiometric Surface Map of Shallow Water-Bearing Zone Wells – Fifth Round Event (April - July 2008)) is provided as Attachment C for reference.

- 12. Appendix B, in the text BRC acknowledges that many of the new wells appear to not have reached stability. Therefore, many of these hydrographs lack meaning. It is requested that BRC either install transducers in the wells or propose a more frequent water level measuring program. These issues should be addressed in the new Sections 4.0 (and related sub-sections) and 5.0 discussed above.

Response: Hydrographs showing water-level data that are not equilibrated will be noted as such in future submittals. BRC will collect additional water-level data after the upcoming supplemental well installation task. Once these data are available for review, BRC will further review water level equilibration and determine if a more frequent monitoring program is appropriate to characterize Deep Zone groundwater conditions. (As noted above in the response to Comment #3, NDEP has agreed that BRC will not be resubmitting the 5th round groundwater monitoring report, but will be addressing NDEP's comments going forward in future submittals.)

- 13. Appendix D, the NDEP has the following comments:

- a. General comment, based upon a review of the Figures for the Middle and Deep Zones it appears that BRC has not identified the source for several contaminants (see also NDEP suggestions for inclusion of conclusions as discussed above). It is requested that this issue be addressed in the new Sections 4.0 (and related sub-sections) and 5.0 discussed above.
- b. Examples are provided below:
 - i. Figure D-5, hexavalent chromium is elevated at locations BEC-6 and MCF-06B. Upgradient wells are all non-detect.

- ii. Figure D-6, hexavalent chromium is elevated at locations MCF-27 (upgradient) and MCF-21A (northeast property boundary).
- iii. Figure D-8, perchlorate is elevated at location MCF-06B but not in the upgradient wells.
- iv. Figure D-9, perchlorate is elevated at location MCF-10A. It is requested that BRC discuss this matter with AMPAC and present applicable AMPAC data in this area.
- v. Figure D-11, radium-226/228 is elevated at locations MCF-16B and MCF-06B.
- vi. Figure D-12, radium-226/228 is elevated across the Site, however, upgradient concentrations are low.
- vii. Figure D-14, total dissolved solids (TDS) concentrations are elevated at a number of locations, however, upgradient concentrations are generally low (except location MCF-03B).
- viii. Figure D-15, TDS concentrations are elevated at a number of locations, however, upgradient concentrations are generally low (except location MCF-04, MCF-12A and MCF-22A).

Response: Please see the response to Comment #6a and #7 above.

- ix. Generally, certain locations appear to be consistently elevated and additional work should be proposed to identify the nature and extent of contamination.

Response: The upcoming CSM report will evaluate the sitewide detections and data trends, and as a result, the CSM will identify potential data gaps regarding the nature, extent, and sources of detected analytes. If data gaps are identified, BRC will discuss an appropriate response with NDEP before additional work is proposed.

14.

- a. Figures D-1 through D-3, BRC continues to collect data that is not usable. Detection limits are extremely elevated for no apparent reason. For example, wells with arsenic at 69.8 µg/L are adjacent wells with a detection limit of 500 µg/L. NDEP does not understand how this is possible. This issue has been in discussion with BRC for several years and has not been addressed. BRC needs to address this issue immediately with the analytical laboratories and field personnel. BRC should propose an additional round of groundwater monitoring for metals, polycyclic aromatic hydrocarbons (PAHs), semi-volatile organic compounds (SVOCs), and any other compounds that do not have meaningful detection limits. These issues should be addressed in the new Sections 4.0 (and related sub-sections) and 5.0 discussed above.

Response: Please see the response to Comment #9a. After the completion of the proposed new wells, BRC will resample those wells for analytes with previous detection limits that have been high.

- b. Figure D-7, it appears that better resolution is needed south of wells DBMW-12 and DBMW-14; and west of wells MW-04 and MW-13. There is an apparent pathway for contaminants to the Las Vegas Wash. This same trend was noticed on Figure D-13. This information is needed for quantification of the mass load of contaminants to the Las Vegas Wash. In addition, it is suggested that BRC obtain data from the C-1 channel to the Las Vegas Wash. This feature may

represent a pathway that is not yet accounted for. These issues should be addressed in the new Sections 4.0 (and related sub-sections) and 5.0 discussed above.

Response: As noted above in the response to Comment #5bi4, a workplan (dated March 4, 2009) for supplemental well installation and soil sampling is being implemented. BRC has also collected a sample from the C-1 channel and will send the data to the NDEP once it is analyzed.

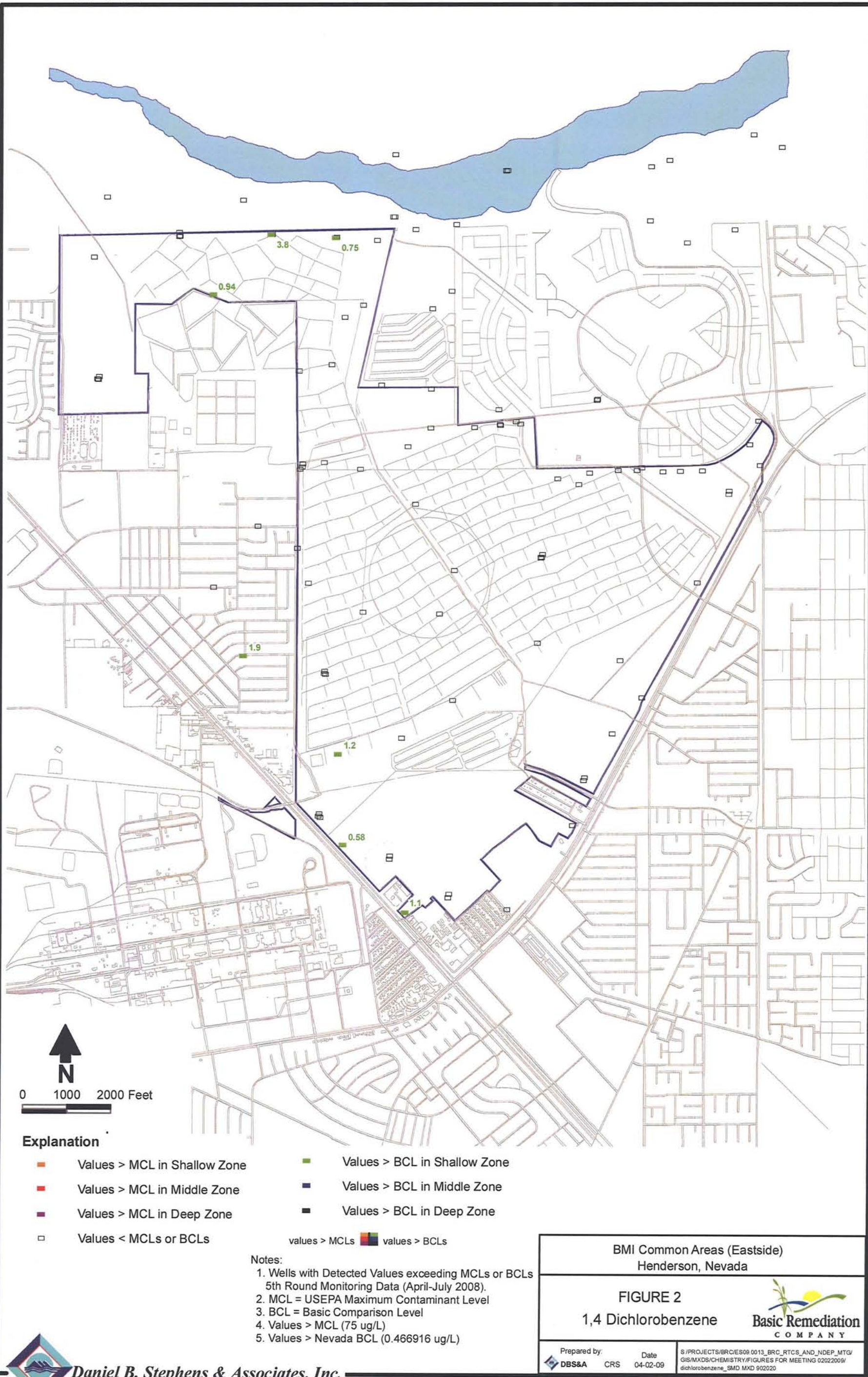
- c. Figure D-16, please revise this Figure to correct the concentration presented at well MW-13 or correct the erroneous contouring.

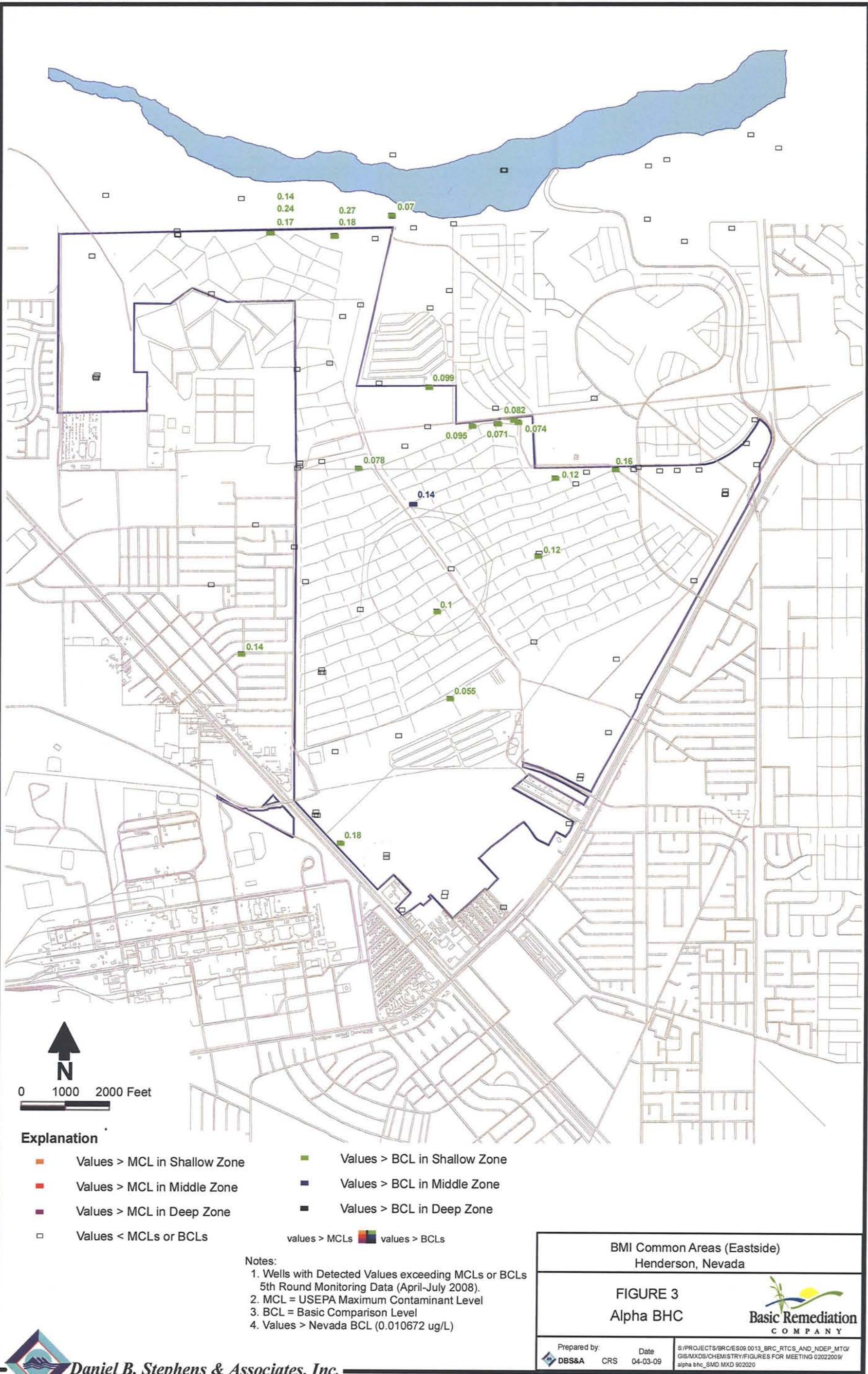
Response: This figure will be revised and updated, as appropriate, in the upcoming CSM report. (As noted above in the response to Comment #3, NDEP has agreed that BRC will not be resubmitting the 5th round groundwater monitoring report, but will be addressing NDEP's comments going forward in future submittals.)

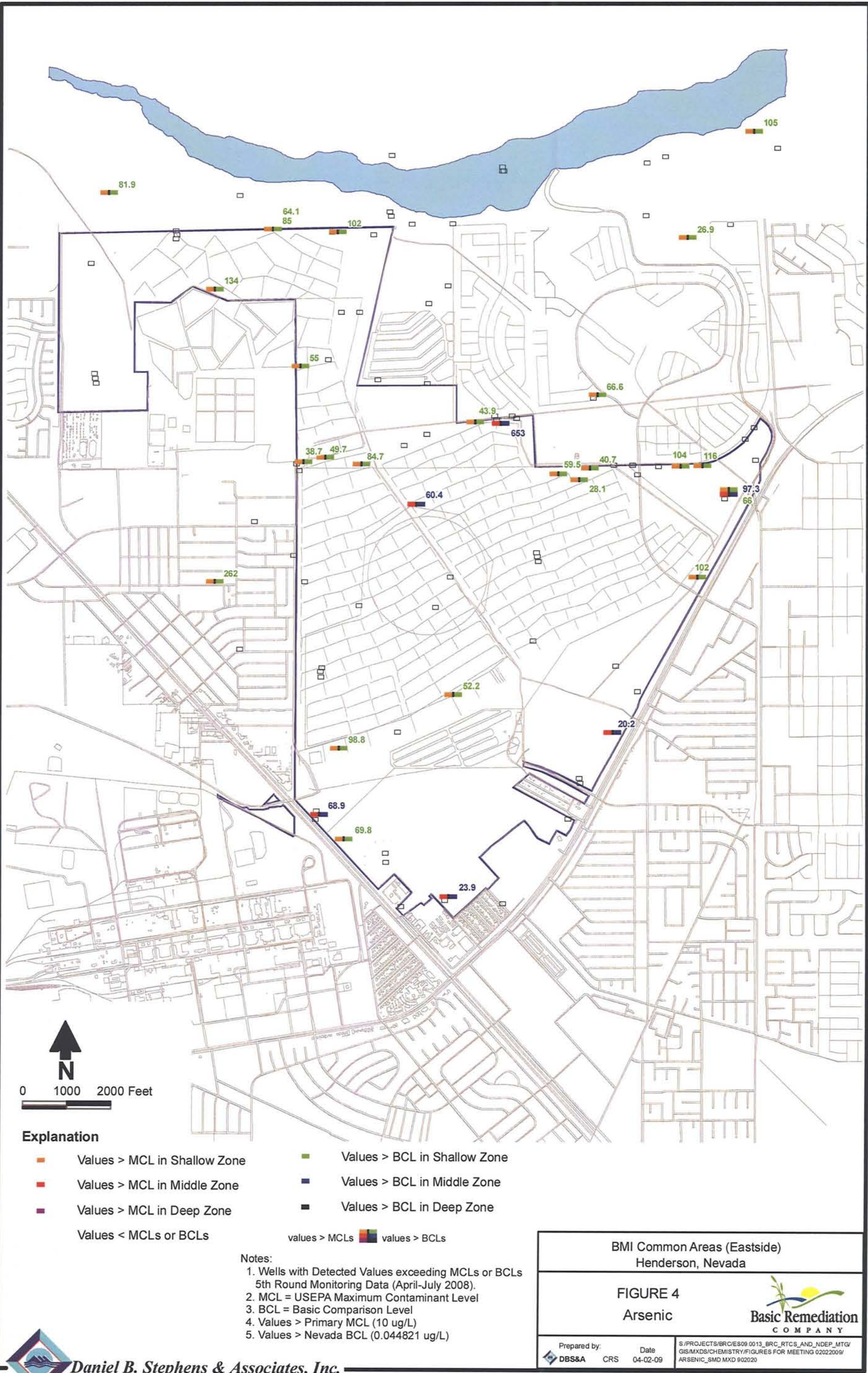
15. Appendix E, Table 5, perchlorate is reported in $\mu\text{g/L}$ on Table 3-11 and entered as mg/L without conversion on Table 5 CAB – Fifth Round Event. NDEP randomly checked several samples and with that conversion the CAB checked out. NDEP requests that BRC correct and re-submit Table 5; and then NDEP will complete a more thorough review.

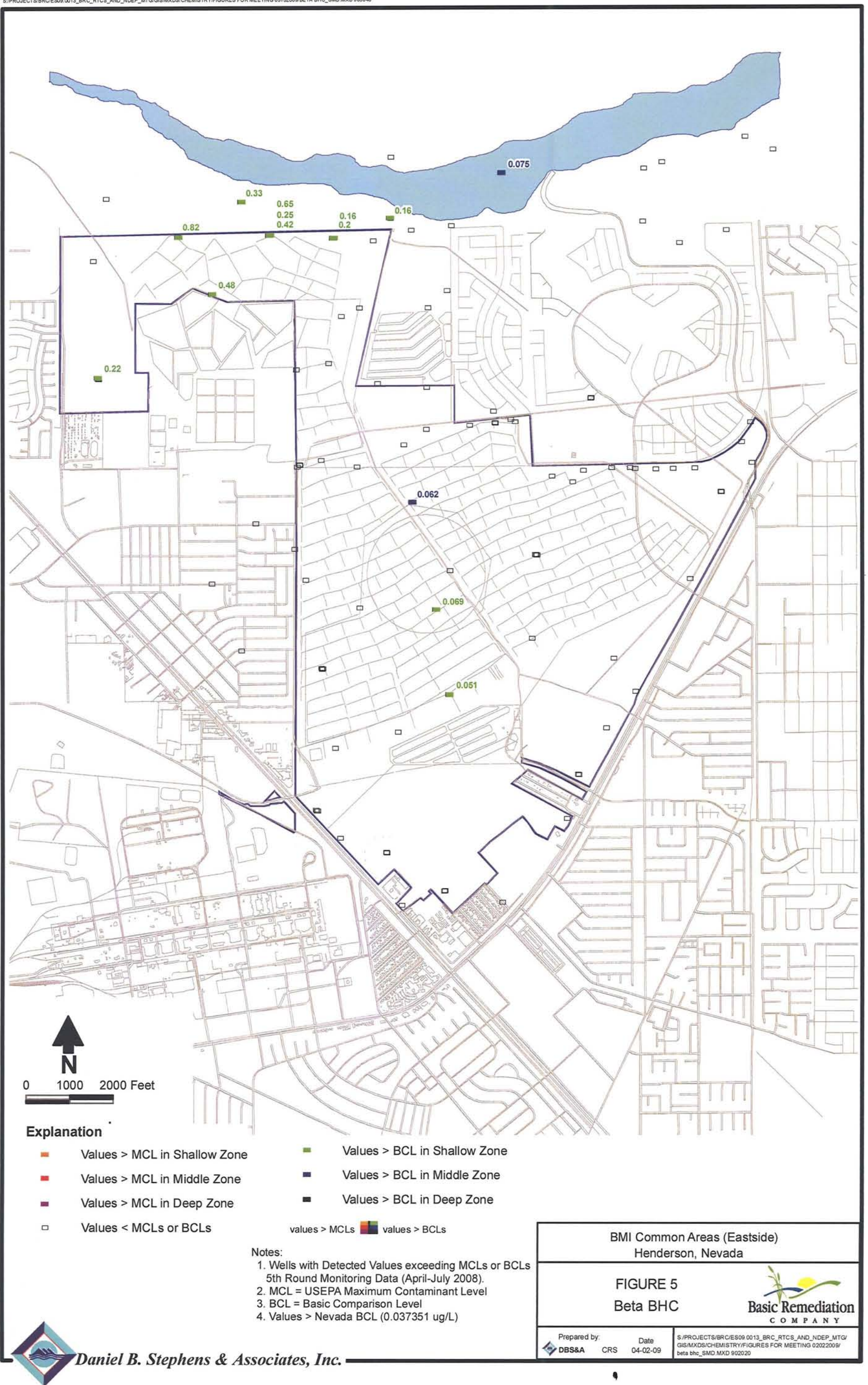
Response: The ion balance table (Attachment D) has been revised to correct the units as requested.

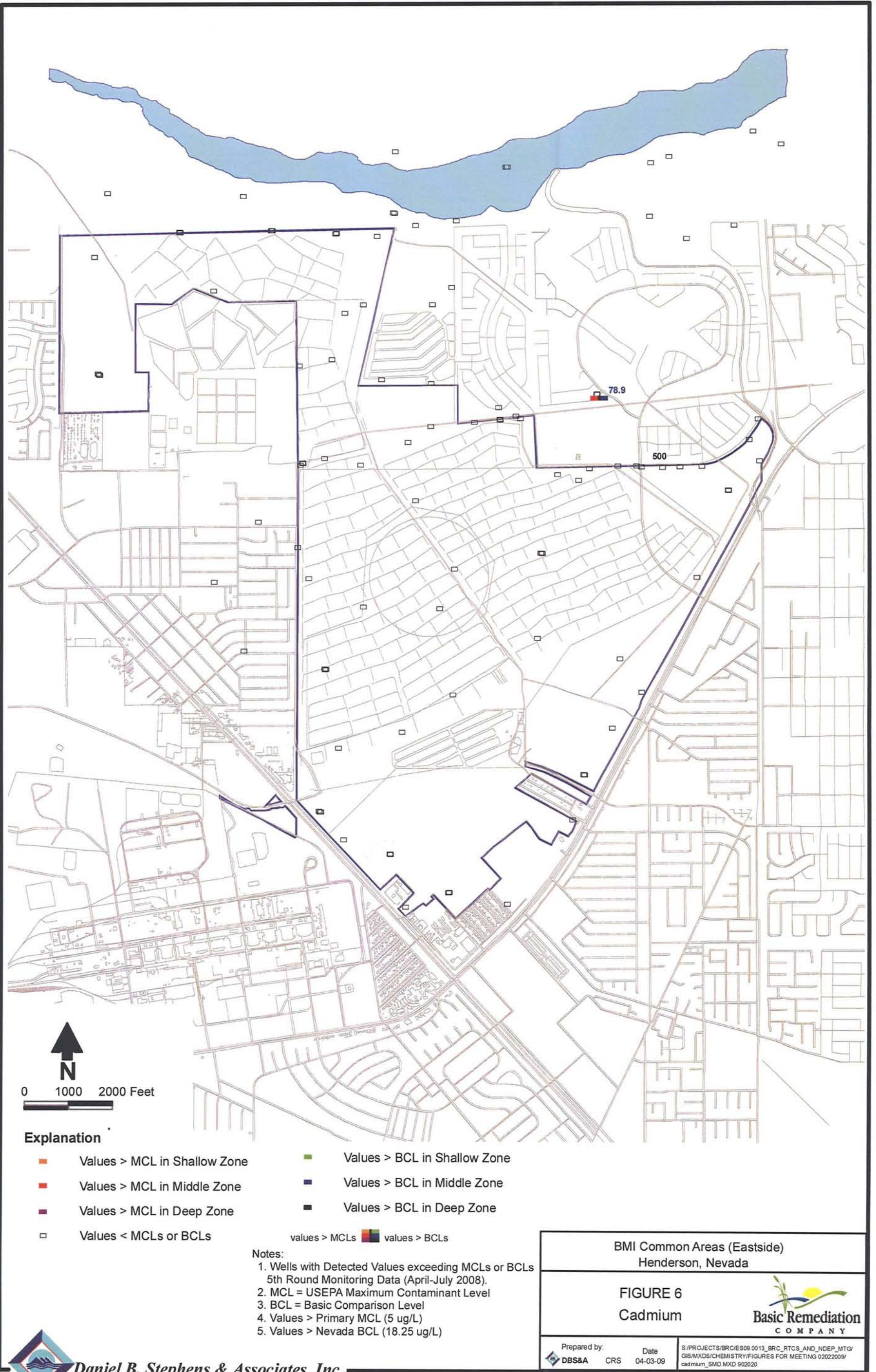
Attachment A

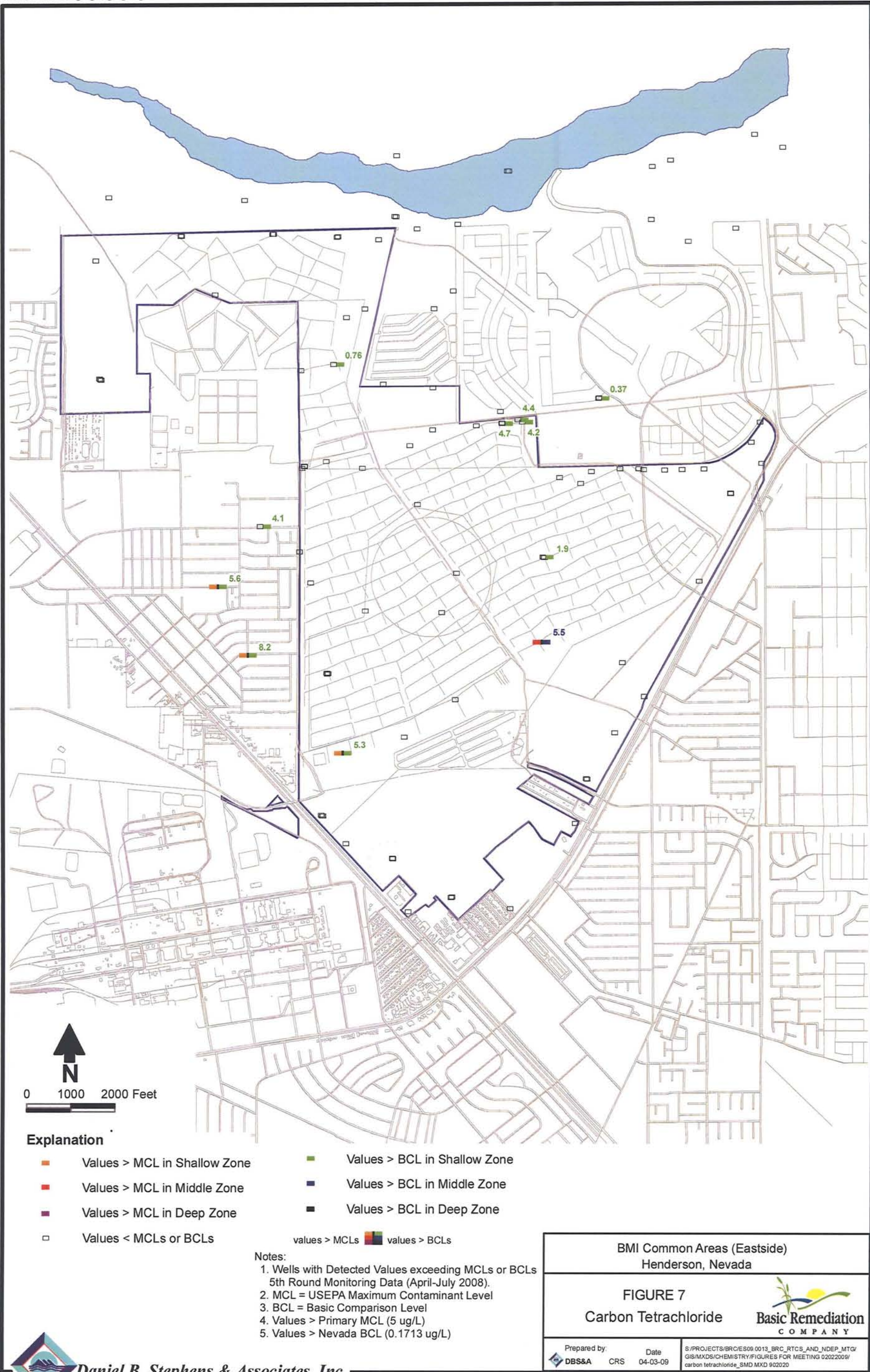


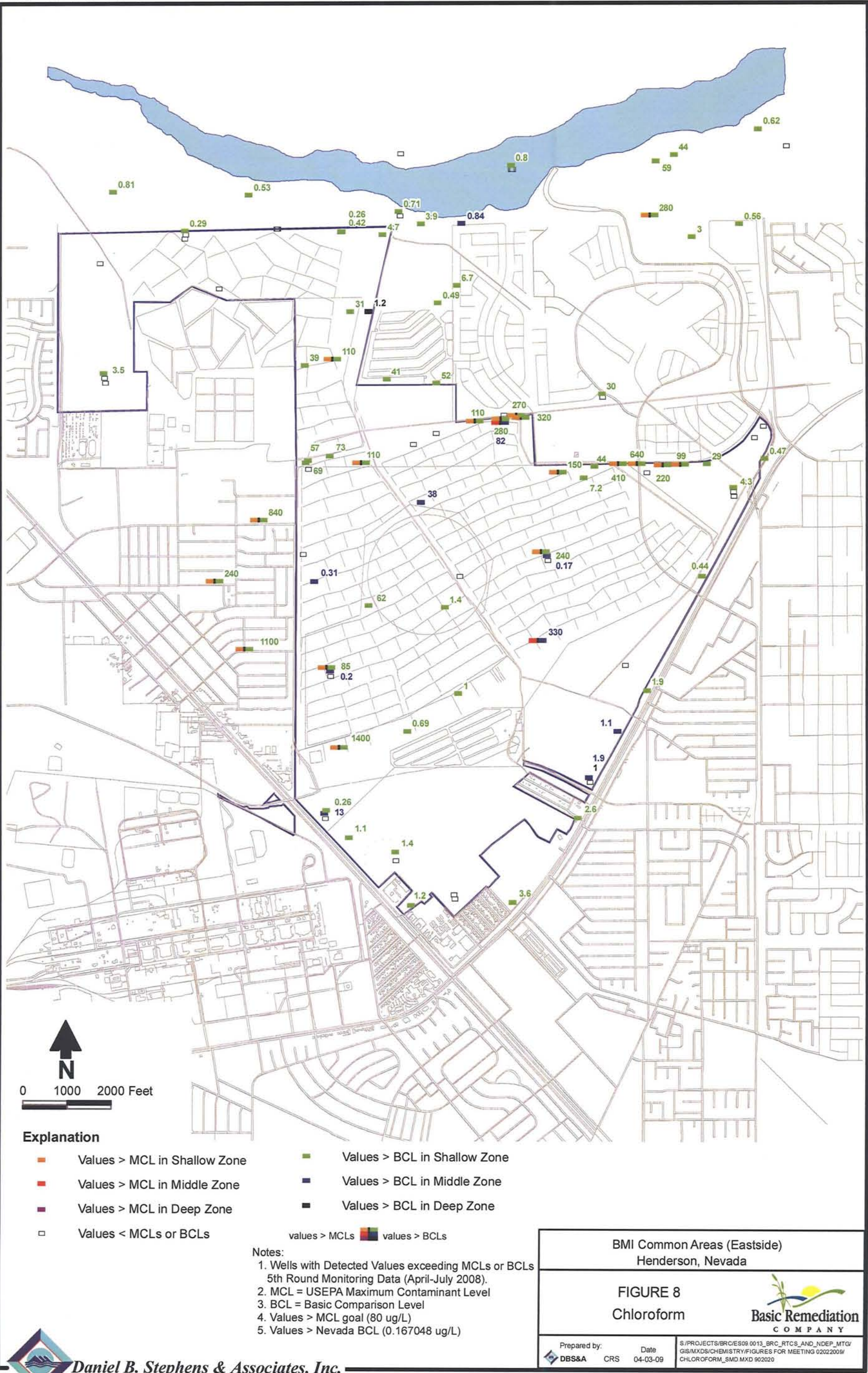


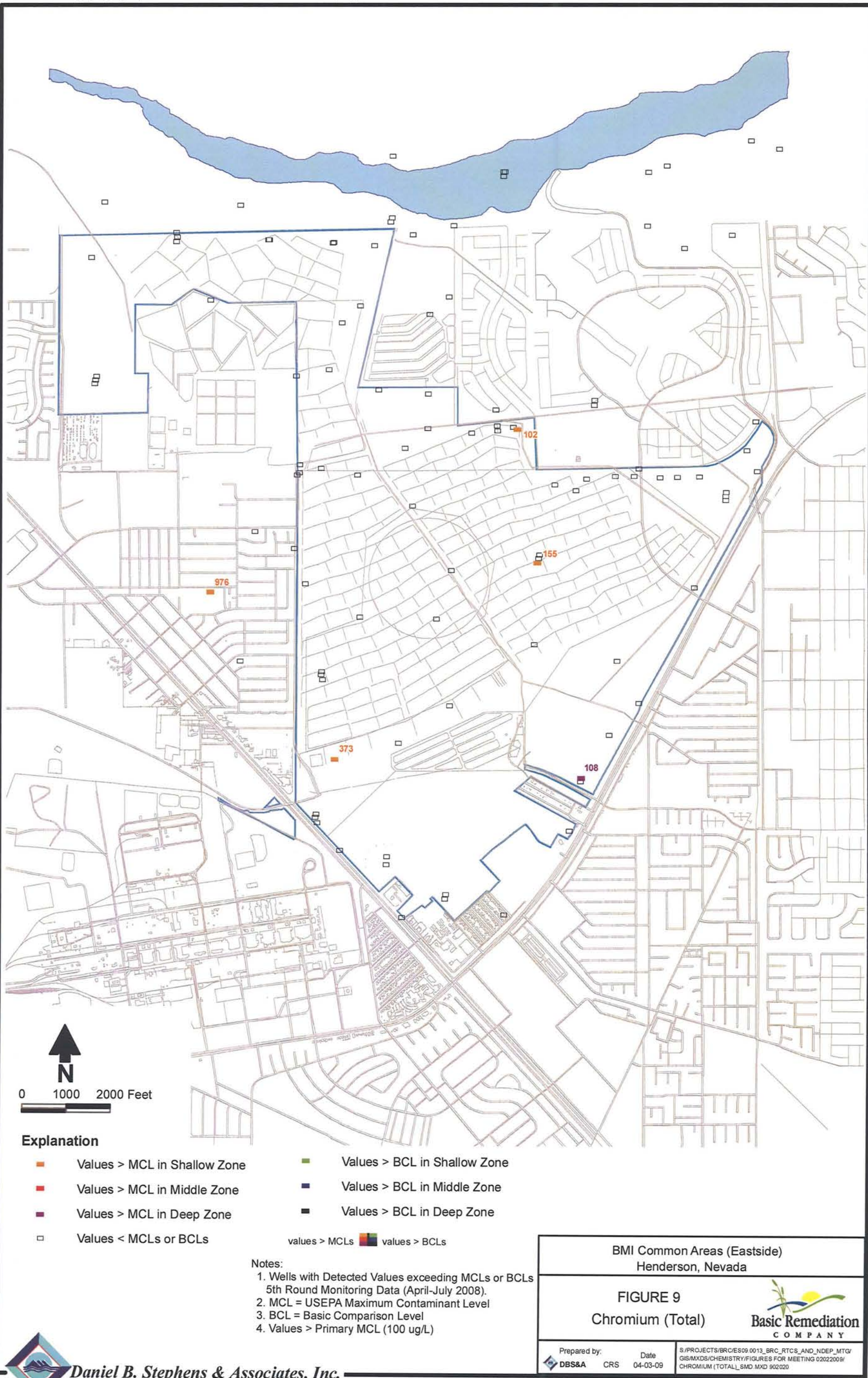


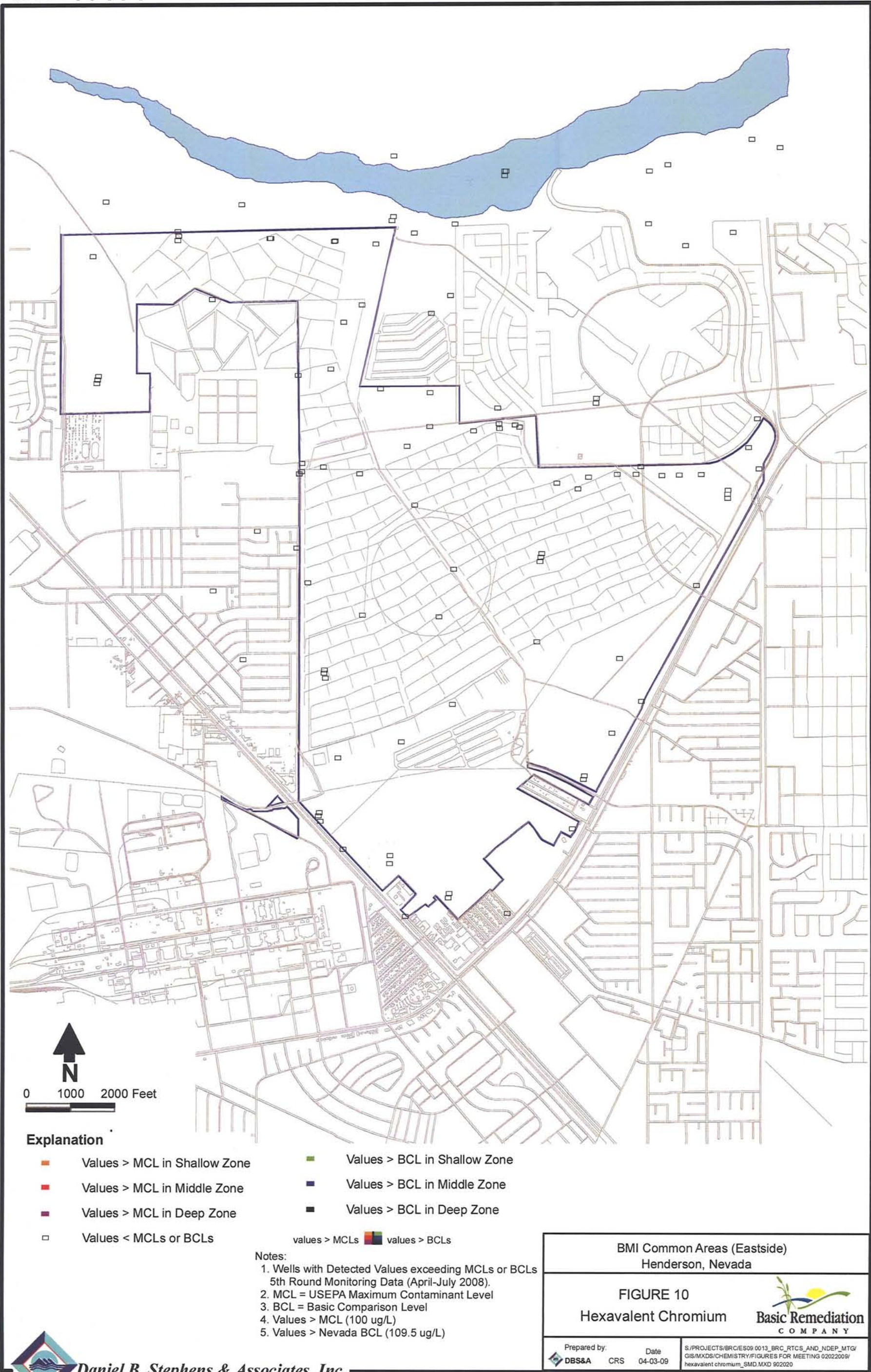


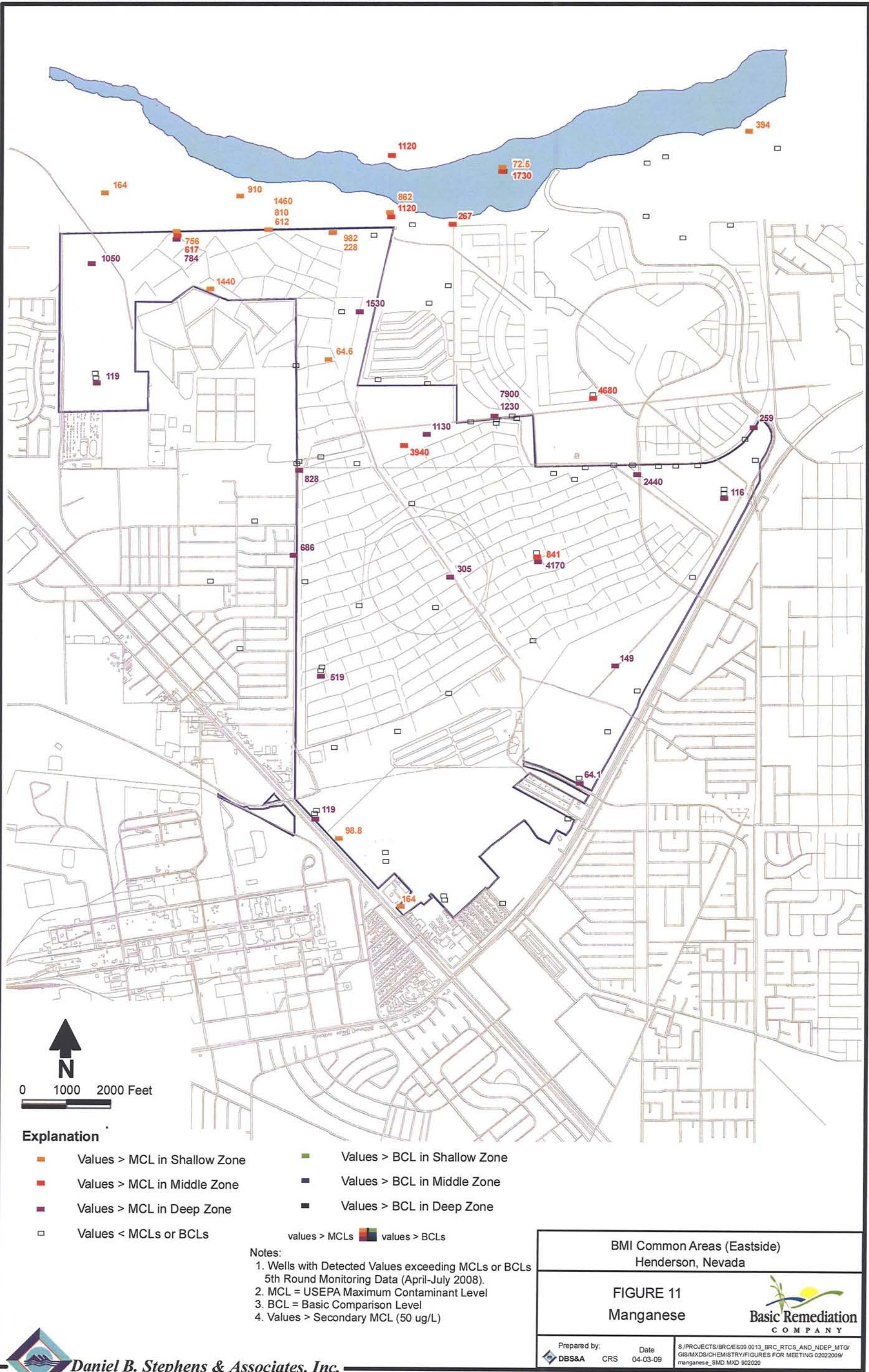


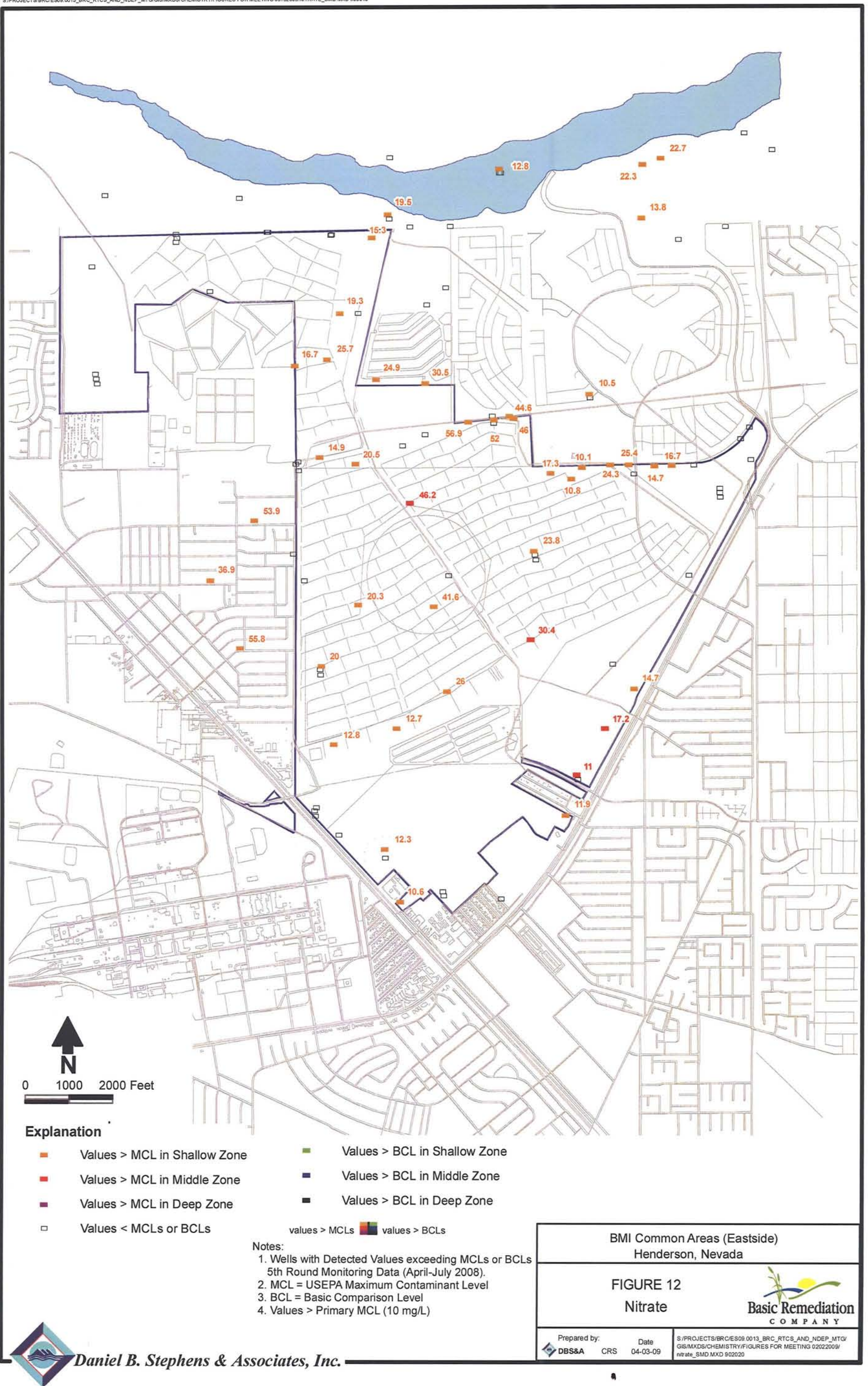


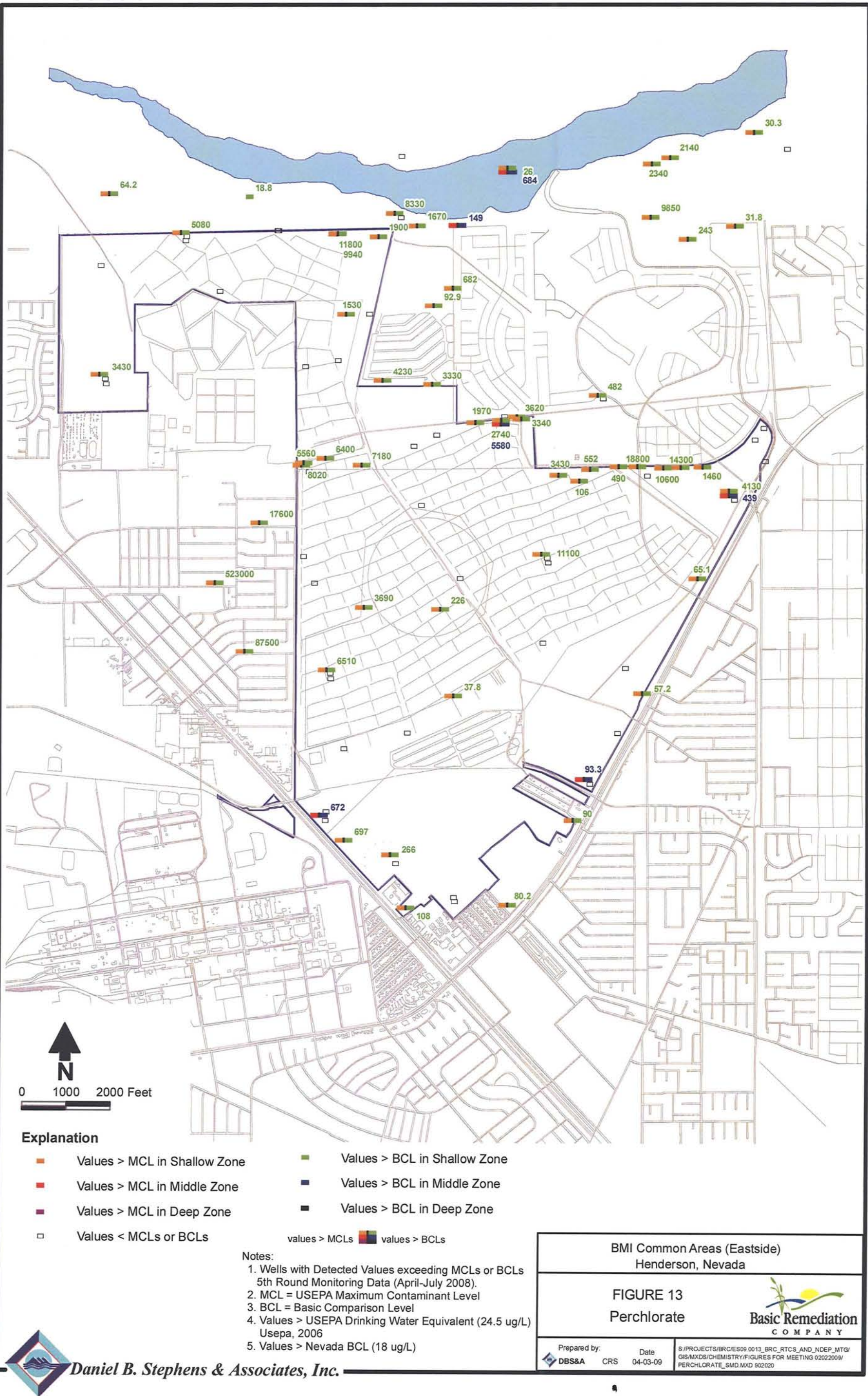


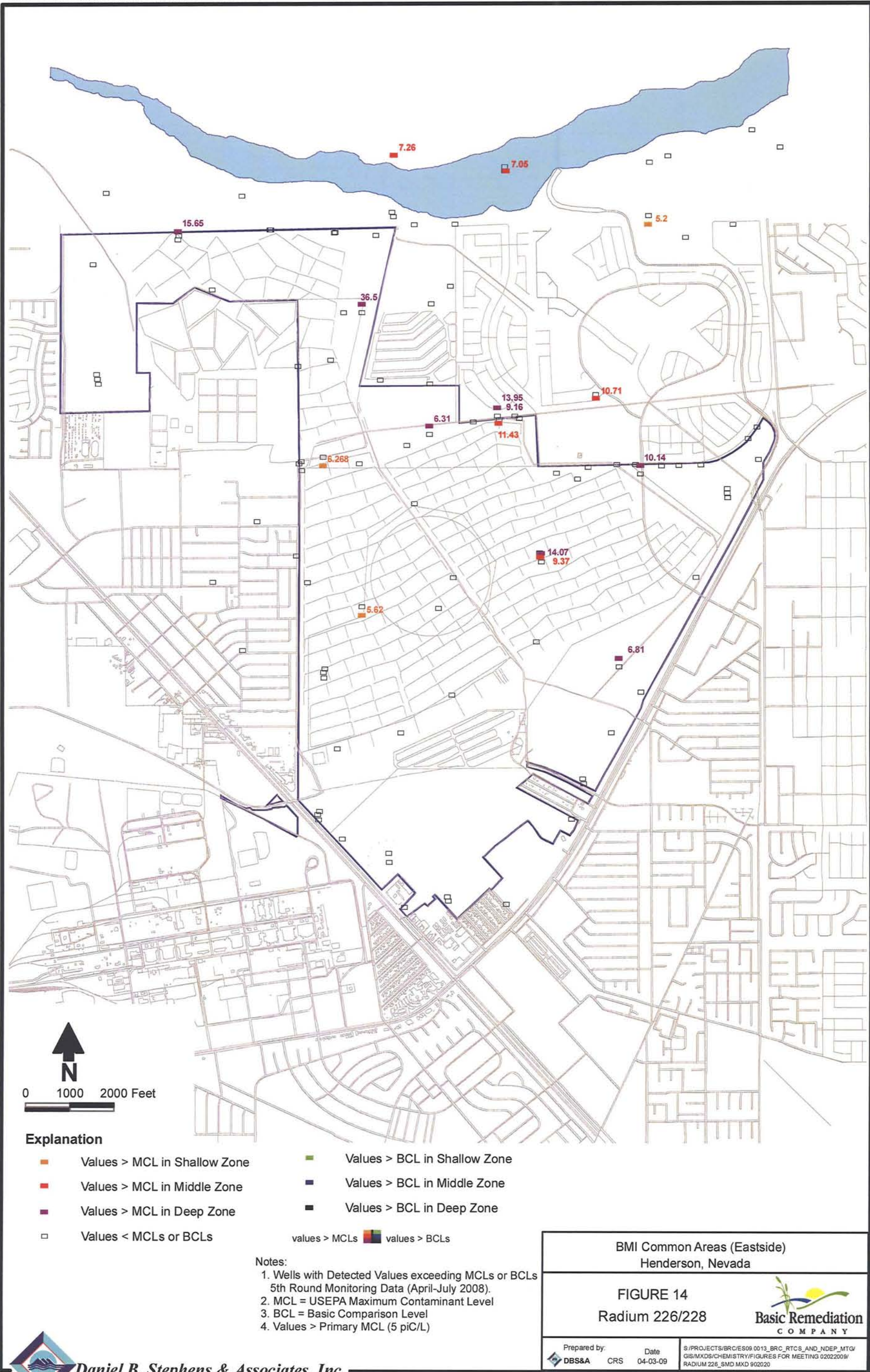


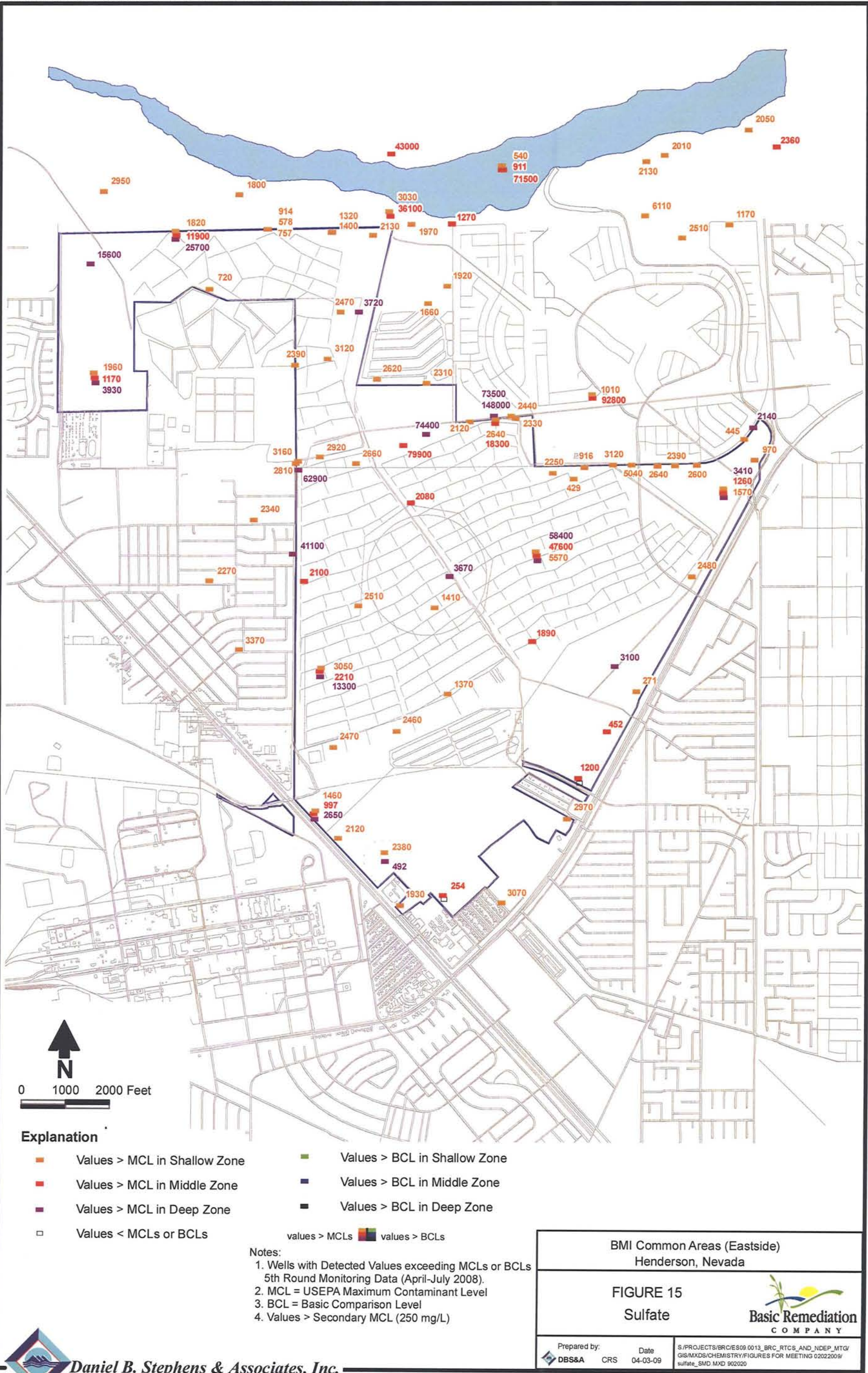


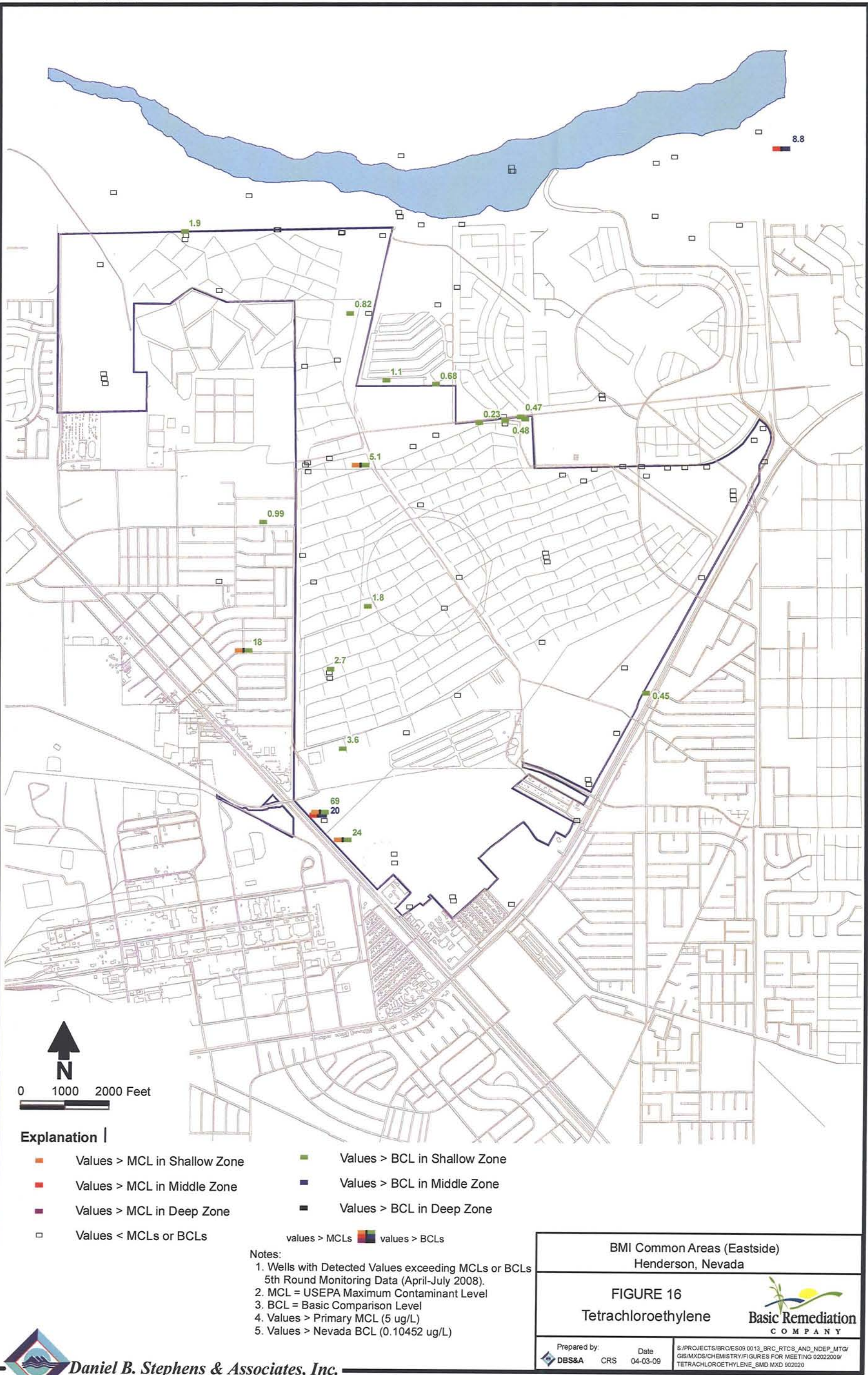


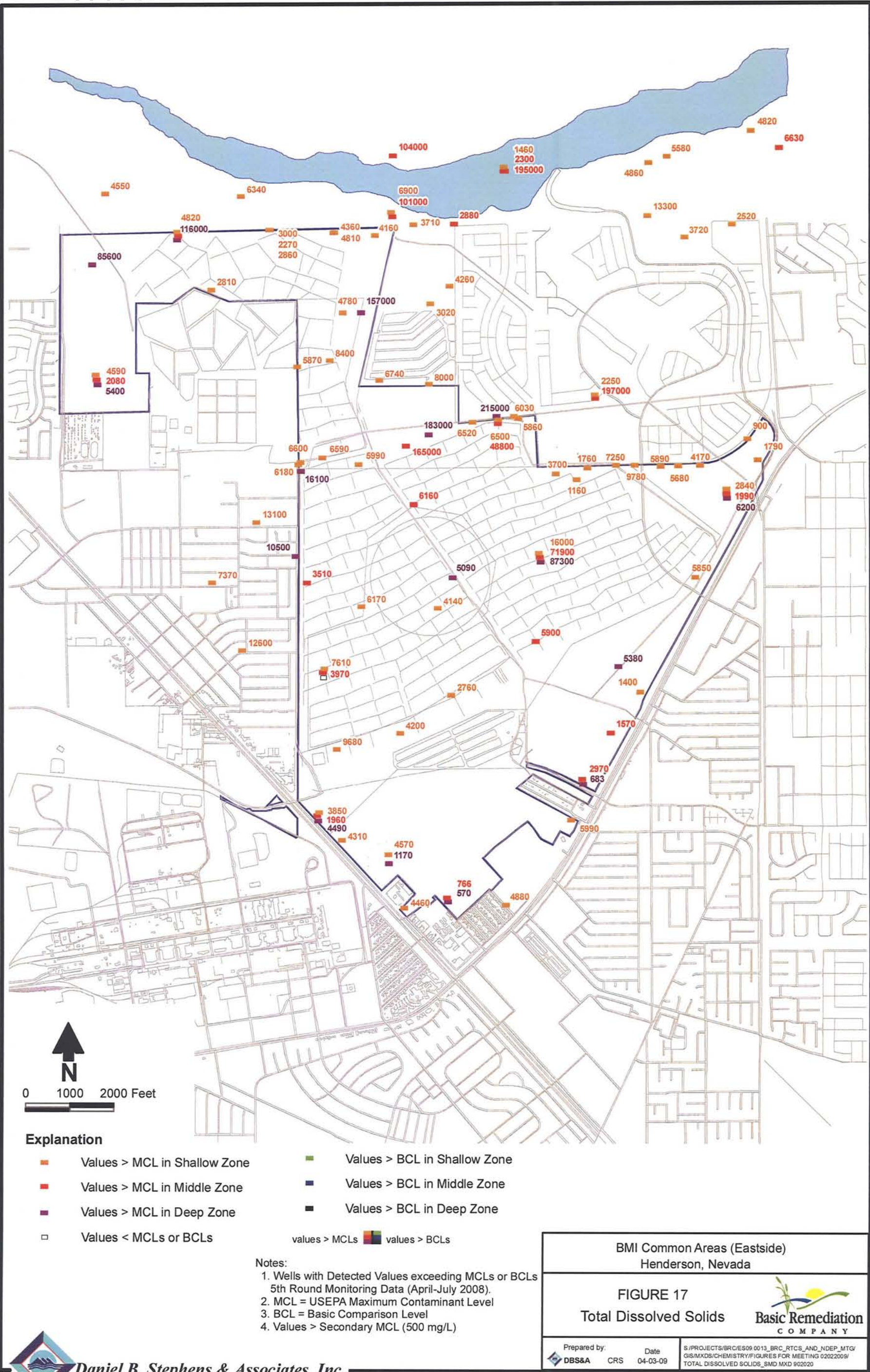












Explanation

- Values > MCL in Shallow Zone
- Values > MCL in Middle Zone
- Values > MCL in Deep Zone
- Values < MCLs or BCLs
- Values > BCL in Shallow Zone
- Values > BCL in Middle Zone
- Values > BCL in Deep Zone
- values > MCLs
- values > BCLs

Notes:

1. Wells with Detected Values exceeding MCLs or BCLs 5th Round Monitoring Data (April-July 2008).
2. MCL = USEPA Maximum Contaminant Level
3. BCL = Basic Comparison Level
4. Values > Secondary MCL (500 mg/L)

BMI Common Areas (Eastside)
Henderson, Nevada

FIGURE 17
Total Dissolved Solids



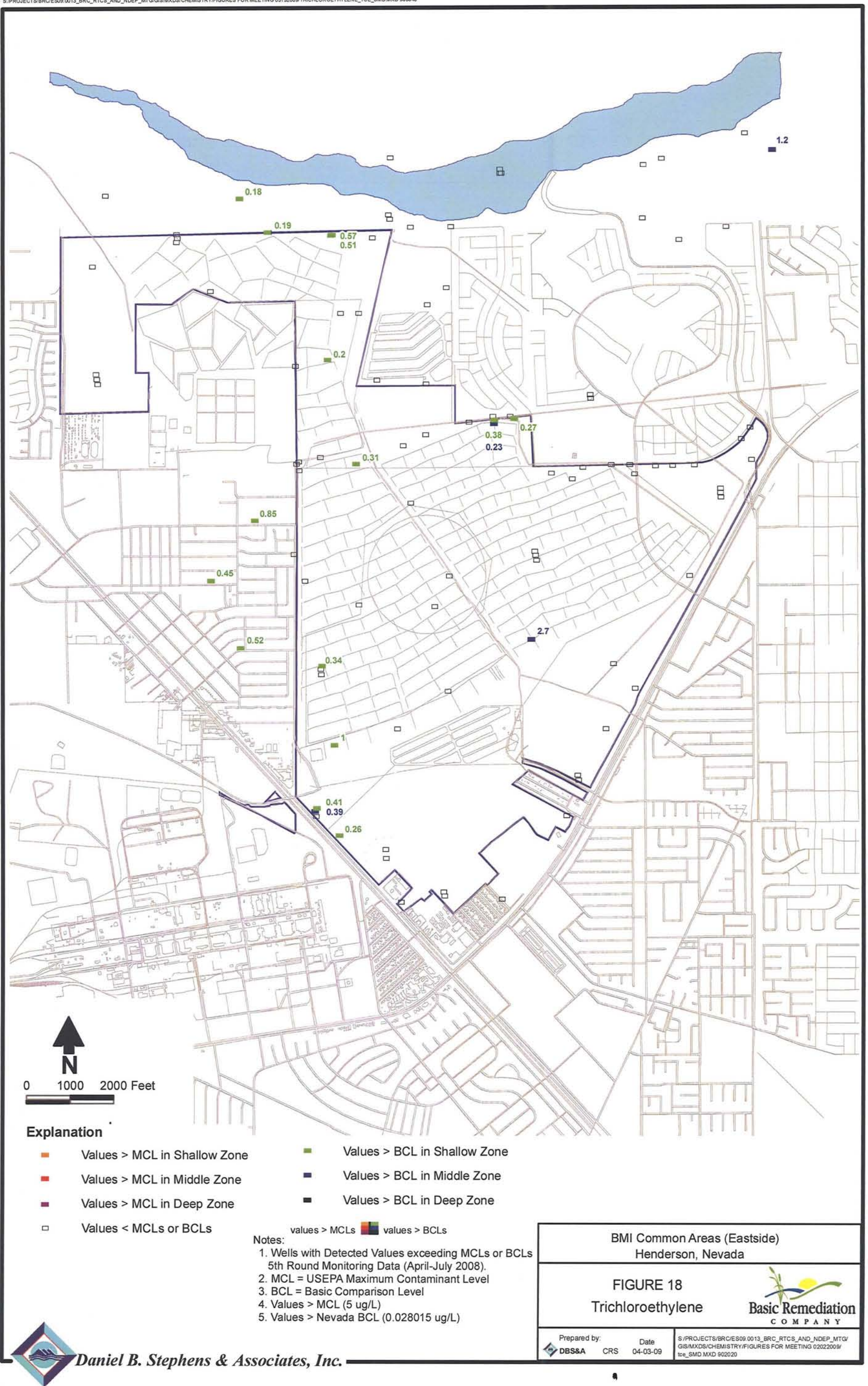
Prepared by:
DBS&A CRS

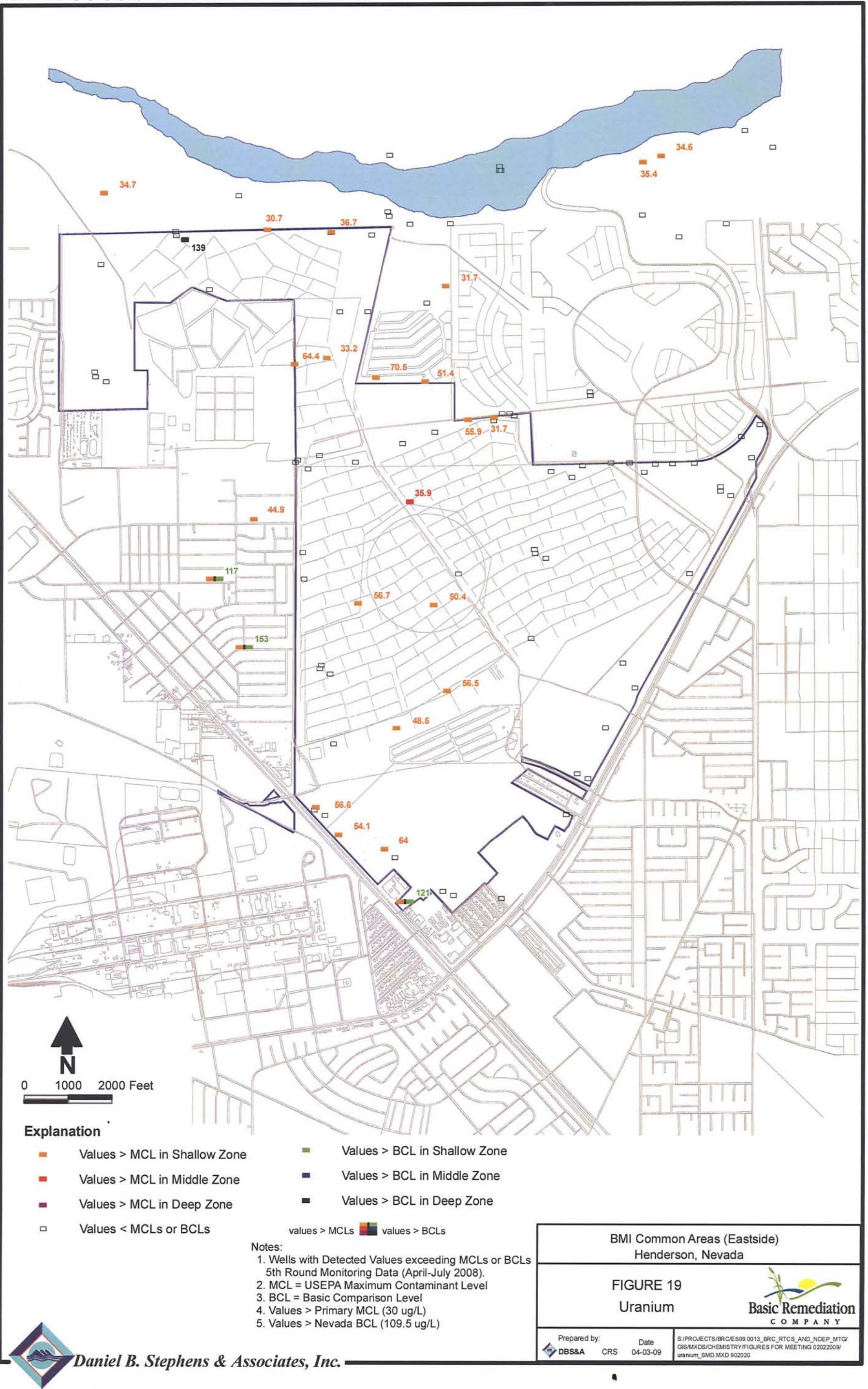
Date
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S:\PROJECTS\BRC\ES09 0013_BRC_RTCS_AND_NDEP_MTG\GIS\MXDS\CHEMISTRY\FIGURES FOR MEETING 02022009\TOTAL DISSOLVED SOLIDS_SMD MXD 902020



Daniel B. Stephens & Associates, Inc.





Attachment B

**Summary of Detected Analytes exceeding USEPA Maximum Contaminant Levels (MCLs)
and Basic Comparison Levels (BCLs), 5th Round Eastside Groundwater Monitoring Event (April-July 2008)**
Page 1 of 4

Chemical Name	Units	Shallow Zone Wells											
		Min. Detected Value	Max. Detected Value	MCL	Frequency of Detection >MCL	No. of Detects > MCL	Min. Detected Value > MCL	Max. Detected Value > MCL	BCL	Frequency of Detection >BCL	No. of Detects > BCL	Min. Detected Value > BCL	Max. Detected Value > BCL
1,4-Dichlorobenzene	ug/l	0.23	3.8	75	0.0%	0	-	-	0.466916371	10.61%	7	0.58	3.8
alpha-BHC	ug/l	0.055	0.27	-	0.0%	0	-	-	0.010671672	41.67%	20	0.055	0.27
Arsenic	ug/l	26.9	262	10	36.36%	24	26.9	262	0.044821023	36.36%	24	26.9	262
beta-BHC	ug/l	0.051	0.82	-	0.0%	0	-	-	0.037350852	25.0%	12	0.051	0.82
Cadmium	ug/l	-	-	5	0.0%	0	-	-	18.25	0.0%	0	-	-
Carbon tetrachloride	ug/l	0.37	8.2	5	4.55%	3	5.3	8.2	0.171299577	16.67%	11	0.37	8.2
Chloroform	ug/l	0.26	1400	80	40.0%	37	85	1400	0.167048055	94.74%	89	0.26	1400
Chromium (Total)	ug/l	22.4	976	100	6.06%	4	102	976	-	0.0%	0	-	-
Chromium (VI)	ug/l	0.023	1.3	100	0.0%	0	-	-	109.5	0.0%	0	-	-
Manganese	ug/l	13.7	1460	50	22.73%	15	64.6	1460	-	0.0%	0	-	-
Nitrate (as N)	mg/l	0.014	56.9	10	60.61%	40	10.1	56.9	-	0.0%	0	-	-
Perchlorate	ug/L	3.86	523000	24.5	90.0%	54	26	523000	18	91.67%	55	18.8	523000
Radium-226+228	pCi/L	5.2	6.268	5	100.0%	3	5.2	6.268	-	0.0%	0	-	-
Sulfate	mg/l	271	6110	250	100.0%	66	271	6110	-	0.0%	0	-	-
Tetrachloroethylene	ug/l	0.23	69	5	8.7%	6	5.1	69	0.104519839	28.99%	20	0.23	69
Total Dissolved Solids	mg/l	900	16000	500	100.0%	66	900	16000	-	0.0%	0	-	-
Trichloroethylene	ug/l	0.18	1	5	0.0%	0	-	-	0.028014982	22.73%	15	0.18	1
Uranium	ug/l	2.5	153	30	34.85%	23	30.7	153	109.5	4.55%	3	117	153

Min.- Minimum

Max. - Maximum

USEPA - U.S. Environmental Protection Agency

Note: Only detected values are included - all non-detects are excluded from the table.

**Summary of Detected Analytes exceeding USEPA Maximum Contaminant Levels (MCLs)
and Basic Comparison Levels (BCLs), 5th Round Eastside Groundwater Monitoring Event (April-July 2008)**
Page 2 of 4

Chemical Name	Units	Middle Zone Wells											
		Min. Detected Value	Max. Detected Value	MCL	Frequency of Detection >MCL	No. of Detects > MCL	Min. Detected Value > MCL	Max. Detected Value > MCL	BCL	Frequency of Detection >BCL	No. of Detects > BCL	Min. Detected Value > BCL	Max. Detected Value > BCL
1,4-Dichlorobenzene	ug/l	0.42	0.42	75	0.0%	0	-	-	0.466916371	0.0%	0	-	-
alpha-BHC	ug/l	0.14	0.14	-	0.0%	0	-	-	0.010671672	5.88%	1	0.14	0.14
Arsenic	ug/l	20.2	653	10	20.69%	6	20.2	653	0.044821023	20.69%	6	20.2	653
beta-BHC	ug/l	0.062	0.075	-	0.0%	0	-	-	0.037350852	11.76%	2	0.062	0.075
Cadmium	ug/l	53.4	78.9	5	6.9%	2	53.4	78.9	18.25	6.9%	2	53.4	78.9
Carbon tetrachloride	ug/l	5.5	5.5	5	3.33%	1	5.5	5.5	0.171299577	3.33%	1	5.5	5.5
Chloroform	ug/l	0.15	330	80	20.0%	7	82	330	0.167048055	54.29%	19	0.17	330
Chromium (Total)	ug/l	-	-	100	0.0%	0	-	-	-	0.0%	0	-	-
Chromium (VI)	ug/l	0.012	0.221	100	0.0%	0	-	-	109.5	0.0%	0	-	-
Manganese	ug/l	33.9	4680	50	44.83%	13	267	4680	-	0.0%	0	-	-
Nitrate (as N)	mg/l	0.018	46.2	10	13.79%	4	11	46.2	-	0.0%	0	-	-
Perchlorate	ug/L	93.3	5580	24.5	37.5%	9	93.3	5580	18	37.5%	9	93.3	5580
Radium-226+228	pCi/L	5.51	11.43	5	100.0%	16	5.51	11.43	-	0.0%	0	-	-
Sulfate	mg/l	254	92800	250	100.0%	29	254	92800	-	0.0%	0	-	-
Tetrachloroethylene	ug/l	8.8	20	5	6.67%	2	8.8	20	0.104519839	6.67%	2	8.8	20
Total Dissolved Solids	mg/l	766	197000	500	100.0%	30	766	197000	-	0.0%	0	-	-
Trichloroethylene	ug/l	0.21	2.7	5	0.0%	0	-	-	0.028014982	16.67%	5	0.21	2.7
Uranium	ug/l	4.5	35.9	30	3.45%	1	35.9	35.9	109.5	0.0%	0	-	-

Min. - Minimum

Max. - Maximum

USEPA - U.S. Environmental Protection Agency

Note: Only detected values are included - all non-detects are excluded from the table.

**Summary of Detected Analytes exceeding USEPA Maximum Contaminant Levels (MCLs)
and Basic Comparison Levels (BCLs), 5th Round Eastside Groundwater Monitoring Event (April-July 2008)**
Page 3 of 4

Chemical Name	Units	Deep Zone Wells											
		Min. Detected Value	Max. Detected Value	MCL	Frequency of Detection >MCL	No. of Detects > MCL	Min. Detected Value > MCL	Max. Detected Value > MCL	BCL	Frequency of Detection >BCL	No. of Detects > BCL	Min. Detected Value > BCL	Max. Detected Value > BCL
1,4-Dichlorobenzene	ug/l	-	-	75	0.0%	0	-	-	0.466916371	0.0%	0	-	-
alpha-BHC	ug/l	-	-	-	0.0%	0	-	-	0.010671672	0.0%	0	-	-
Arsenic	ug/l	-	-	-	0.0%	0	-	-	0.044821023	0.0%	0	-	-
beta-BHC	ug/l	-	-	-	0.0%	0	-	-	0.037350852	0.0%	0	-	-
Cadmium	ug/l	0.92	4.3	5	0.0%	0	-	-	18.25	0.0%	0	-	-
Carbon tetrachloride	ug/l	-	-	-	0.0%	0	-	-	0.171299577	0.0%	0	-	-
Chloroform	ug/l	0.16	1.2	-	0.0%	0	-	-	0.167048055	3.57%	1	1.2	1.2
Chromium (Total)	ug/l	79.4	108	100	3.57%	1	108	108	-	0.0%	0	-	-
Chromium (VI)	ug/l	0.014	0.044	100	0.0%	0	-	-	109.5	0.0%	0	-	-
Manganese	ug/l	49.1	7900	50	85.71%	24	64.1	7900	-	0.0%	0	-	-
Nitrate (as N)	mg/l	0.014	2.3	-	0.0%	0	-	-	-	0.0%	0	-	-
Perchlorate	ug/L	2.38	7.38	24.5	0.0%	0	-	-	18	0.0%	0	-	-
Radium-226+228	pCi/L	5.07	36.5	5	100.0%	17	5.07	36.5	-	0.0%	0	-	-
Sulfate	mg/l	193	148000	250	92.86%	26	492	148000	-	0.0%	0	-	-
Tetrachloroethylene	ug/l	-	-	-	0.0%	0	-	-	0.104519839	0.0%	0	-	-
Total Dissolved Solids	mg/l	570	215000	500	100.0%	28	570	215000	-	0.0%	0	-	-
Trichloroethylene	ug/l	-	-	5	0.0%	0	-	-	0.028014982	0.0%	0	-	-
Uranium	ug/l	1.7	139	-	0.0%	0	-	-	109.5	3.57%	1	139	139

Min. - Minimum

Max. - Maximum

USEPA - U.S. Environmental Protection Agency

Note: Only detected values are included - all non-detects are excluded from the table.

**Summary of Detected Analytes exceeding USEPA Maximum Contaminant Levels (MCLs)
and Basic Comparison Levels (BCLs), 5th Round Eastside Groundwater Monitoring Event (April-July 2008)**

Page 4 of 4

Chemical Name	Units	All Zones - All Wells											
		Min. Detected Value	Max. Detected Value	MCL	Average Frequency of Detection >MCL	No. of Detects > MCL	Min. Detected Value > MCL	Max. Detected Value > MCL	BCL	Average Frequency of Detection >BCL	No. of Detects > BCL	Min. Detected Value > BCL	Max. Detected Value > BCL
1,4-Dichlorobenzene	ug/l	0.23	3.8	75	0.0%	0	-	-	0.466916371	3.54%	7	0.58	3.8
alpha-BHC	ug/l	0.055	0.27	-	0.0%	0	-	-	0.010671672	15.85%	21	0.055	0.27
Arsenic	ug/l	20.2	653	10	19.02%	30	20.2	653	0.044821023	19.02%	30	20.2	653
beta-BHC	ug/l	0.051	0.82	-	0.0%	0	-	-	0.037350852	12.25%	14	0.051	0.82
Cadmium	ug/l	0.92	78.9	5	2.3%	2	53.4	78.9	18.25	2.3%	2	53.4	78.9
Carbon tetrachloride	ug/l	0.37	8.2	5	2.63%	4	5.3	8.2	0.171299577	6.67%	12	0.37	8.2
Chloroform	ug/l	0.15	1400	80	20.0%	44	82	1400	0.167048055	50.86%	109	0.17	1400
Chromium (Total)	ug/l	22.4	976	100	3.21%	5	102	976	-	0.0%	0	-	-
Chromium (VI)	ug/l	0.012	1.3	100	0.0%	0	-	-	109.5	0.0%	0	-	-
Manganese	ug/l	13.7	7900	50	51.09%	52	64.1	7900	-	0.0%	0	-	-
Nitrate (as N)	mg/l	0.014	56.9	10	24.8%	44	10.1	56.9	-	0.0%	0	-	-
Perchlorate	ug/L	2.38	523000	24.5	42.5%	63	26	523000	18	43.06%	64	18.8	523000
Radium-226+228	pCi/L	5.07	36.5	5	100.0%	36	5.07	36.5	-	0.0%	0	-	-
Sulfate	mg/l	193	148000	250	97.62%	121	254	148000	-	0.0%	0	-	-
Tetrachloroethylene	ug/l	0.23	69	5	5.12%	8	5.1	69	0.104519839	11.88%	22	0.23	69
Total Dissolved Solids	mg/l	570	215000	500	100.0%	124	570	215000	-	0.0%	0	-	-
Trichloroethylene	ug/l	0.18	2.7	5	0.0%	0	-	-	0.028014982	13.13%	20	0.18	2.7
Uranium	ug/l	1.7	153	30	12.77%	24	30.7	153	109.5	2.71%	4	117	153

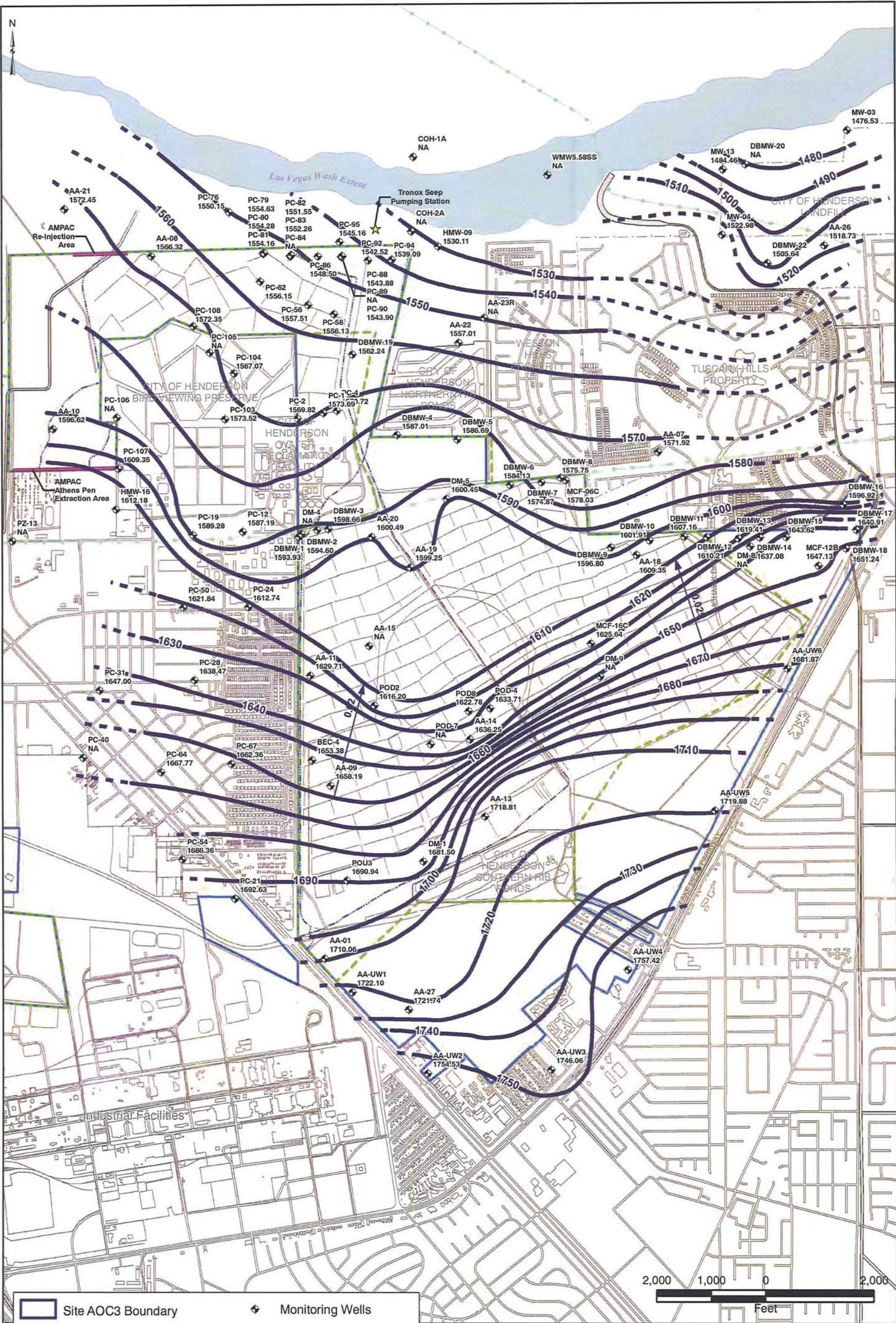
Min. - Minimum

Max. - Maximum

USEPA - U.S. Environmental Protection Agency

Note: Only detected values are included - all non-detects are excluded from the table.

Attachment C



FIFTH ROUND
GROUNDWATER EVENT
(APRIL-JULY 2008)

Notes:
NA - Not available.
Measurements are in feet
above mean sea level (ft msl).

BMI Common Areas (Eastside)
Clark County, Nevada

FIGURE 3-1

POTENTIOMETRIC SURFACE
MAP OF THE SHALLOW WATER-
BEARING ZONE WELLS



Attachment D

Ion Balance Summary
BRC Eastside Groundwater Monitoring Data
First Round Event

Description	Zone	pH	Major Ion Chemistry Data Input													meq/l Calculations										Cation-Anion Balance Tests					TDS Checks				TDS and EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Sum Cations	Sum Anions	Cat/An Ratio	(Cat-An)/ (Cat+An)	Balance Variance >5%?	TDS Sum	TDS Lab	Lab/Sum Ratio	Acceptable Ratio 1.0 - 1.2	EC	Lab TDS / EC Ratio	Acceptable Range 0.55 - 0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
			(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(umhos/cm)	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Sample Name			Calcium	Magnesium	Sodium	Potassium	Bicarbonate alkalinity	Carbonate alkalinity	Alkalinity	Sulfate	Chloride	Fluoride	Nitrate (as N)	Chlorate	Perchlorate																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Ion Balance Summary
BRC Eastside Groundwater Monitoring Data
Second Round Event

Description	Zone	pH	Major Ion Chemistry Data Input													meq/l Calculations										Cation-Anion Balance Tests					TDS Checks				TDS and EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Sum Cations	Sum Anions	Cat/An Ratio	(Cat-An)/ (Cat+An)	Balance Variance >5%?	TDS Sum	TDS Lab	Lab/Sum Ratio	Acceptable Ratio	EC	Lab TDS / EC Ratio	Acceptable Range																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(umhos/cm)	-	0.55 - 0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Sample Name			Calcium	Magnesium	Sodium	Potassium	Bicarbonate alkalinity	Carbonate alkalinity	Alkalinity	Sulfate	Chloride	Fluoride	Nitrate (as N)	Chlorate	Perchlorate																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

Ion Balance Summary
 BRC Eastside Groundwater Monitoring Data
 Third Round Event

Description	Zone	pH	Major Ion Chemistry Data Input														meq/l Calculations										Cation-Anion Balance Tests					TDS Checks				TDS and EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
			Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Sum Cations	Sum Anions	Cat/An Ratio	(Cat-/An-)/ (Cat+/An-)	Balance Variance >5%?	TDS Sum	TDS Lab	Lab/Sum Ratio	Acceptable Ratio 1.0 - 1.2	EC (umhos/cm)	Lab TDS / EC Ratio	Acceptable Range 0.55 - 0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)

Ion Balance Summary
BRC Eastside Groundwater Monitoring Data
Fourth Round Event

Description	Zone	pH	Major Ion Chemistry Data Input												meq/l Calculations										Cation-Anion Balance Tests					TDS Checks				TDS and EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₂	ClO ₄	Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₂	ClO ₄	Sum Cations	Sum Anions	Cat/An Ratio	(Cat-An)/ (Cat+An)	Balance Variance >5%?	TDS Sum	TDS Lab	Lab/Sum Ratio	Acceptable Ratio 1.0 - 1.2	EC	Lab TDS / EC Ratio	Acceptable Range 0.55 - 0.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(umhos/cm)	-	-																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Calcium	Magnesium	Sodium	Potassium	Bicarbonate alkalinity	Carbonate alkalinity	Alkalinity	Sulfate	Chloride	Fluoride	Nitrate (as N)	Chlorate	Perchlorate	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			20.04	12.16	22.99	39.1	81.02	30.01	17	48.03	35.5	19	61.91	83.4	99.5	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)	(mg/meq)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sample Name			Calcium	Magnesium	Sodium	Potassium	Bicarbonate alkalinity	Carbonate alkalinity	Alkalinity	Sulfate	Chloride	Fluoride	Nitrate (as N)	Chlorate	Perchlorate	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l)	(meq/l

The reporting limit (RL) was multiplied by 0.5 in the calculations for non-detect results
 8.6 - pH at or above 8.2.
 mg/L - Milligrams per Liter
 Cat - Cation
 An - Anion
 Blank cells for minor constituents (F, NO3, ClO3, ClO4) indicate sample not collected or below detection limit
 Sampled cells with red text indicate that the sample result was non-detect, and 1/2 the detection limit is used here

Ion Balance Summary
BRC Eastside Groundwater Monitoring Data
Fifth Round Event

Description	Zone	pH	Major Ion Chemistry Data Input														meq/L Calculations														Cation-Anion Balance Tests					TDS Checks			TDS and EC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Ca	Mg	Na	K	HCO ₃	CO ₃	OH	SO ₄	Cl	F	NO ₃	ClO ₃	ClO ₄	Sum Cations	Sum Anions	Cat/An Ratio	Acceptable Variance	TDS Sum	TDS Lab	Lab/Sum Ratio	Acceptable Range	EC	Lab TDS / EC Ratio	Acceptable Range																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)