

**Cooper and Commerce Water Quality Assurance Revolving Fund (WQARF) Site
Community Advisory Board (CAB) Meeting**

**Monday, October 16, 2013 at 6 p.m.
McQueen Park Activity Center
510 N. Horne St., Gilbert, Arizona**

FINAL MINUTES

RPU #14-306

CAB members present: Pacer Udall, Carrie Lewis, Mike Evans, Bruce Friedrich, Nyangenya (Joe) Maniga

ADEQ Staff in attendance: Scott Goodwin, Project Manager; Wendy Flood, Community Involvement Coordinator

Members of the public present: Patricia Jordan, Town of Gilbert

The following matters were discussed, considered, or decided at the meeting:

1. Call to Order/ Introductions

Mrs. Wendy Flood greeted all attendees and introductions were conducted. The meeting was then turned over to the Co-chair, Mr. Pacer Udall.

2. Acceptance and/or changes to February 25, 2013 minutes -
CAB members tabled till next meeting

3. Discussion and Voting Regarding a letter to the Town of Gilbert Environmental Committee - CAB Co-Chair

The CAB members discussed content of the letter inviting the members of the Committee to the CAB meetings and thank them for the opportunity to speak at one of their meetings. Co-chair Mr. Udall confirmed that he will draft the letter on behalf of the Board to the Environmental and Energy Conservation Board. Ms. Carrie Lewis moved and it was seconded by Mr. Mike Evans; motion passed.

4. Presentation and Discussion of the current status and activities at the Cooper and Commerce WQARF Site.

Mr. Goodwin shared information since last meeting regarding the soil vapor extraction and the pump and treat systems, plume boundaries variations and concentration and water levels trends. Mr. Goodwin stated that groundwater is moving off to the northwest. There are some slight indications that there are other pumping sources near the site.

The CAB discussed the upcoming remedial investigation (RI) report and notification of such as well as upcoming meeting and comments periods.

See Presentation Below

5. Call to the Public -

None

6. Future Meeting and Agenda Discussion

The next CAB meeting will be approximately April 2014. If the RI is ready around summer there will be another meeting as part of the comment period. Mr. Goodwin will present updated data results for fourth quarter of fiscal year 2013; the letter to the conservation on board and WQARF process. Ms. Flood asked for members to review the community involvement plan for the next meeting to update the outreach efforts for the upcoming RI comment period as well as have a CAB outreach report on members outreach efforts.

7. Adjournment

Meeting adjournment



Cooper and Commerce Water Quality Assurance Revolving Fund (WQARF) Site

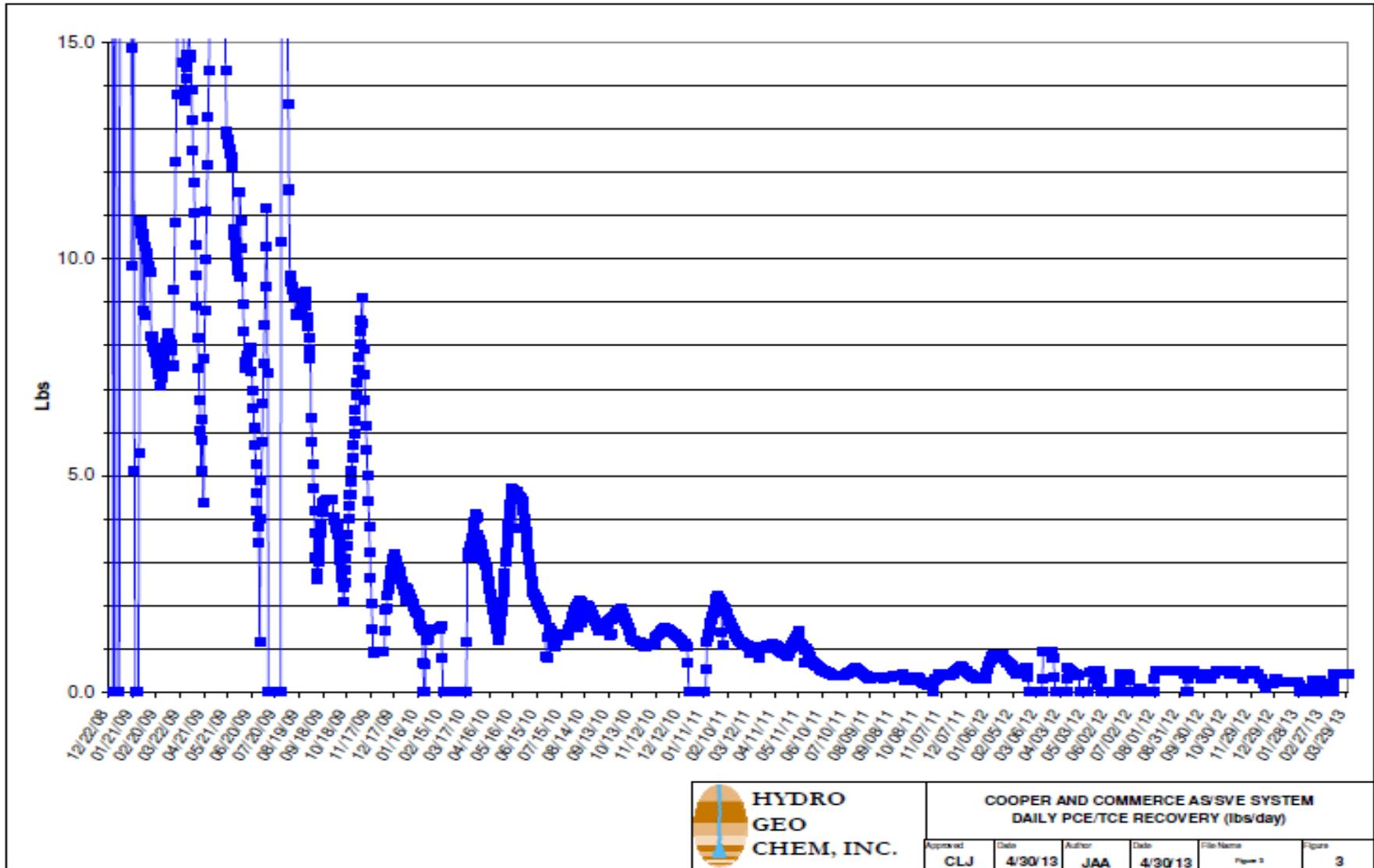
CAB Meeting

October 16, 2013

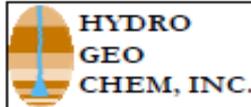
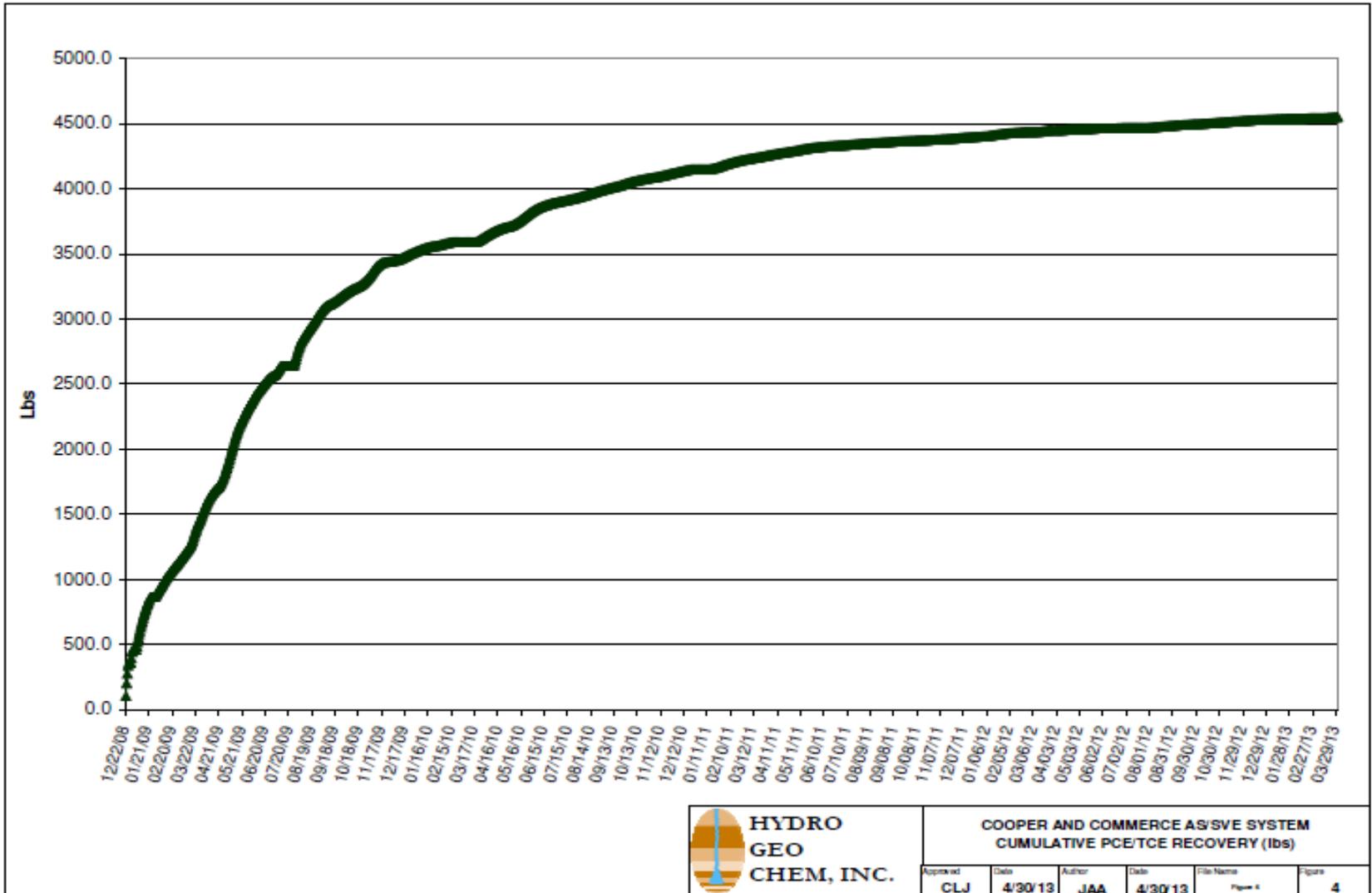
Soil vapor extraction/ air sparge system

- The soil vapor extraction, air sparge (SVE/AS) system continues to operate normally at the site.
- During the first quarter of 2013, the system ran continuously withdrawing from SVE-106, SVE-104 and SVE/AS-101.
- The SVE/AS system removed an average of 0.2 pounds of tetrachloroethene (PCE) per day.
- To date, the system has removed approximately 4,552 pounds of PCE or approximately 337 gallons since operations began in December 2008.

Soil vapor extraction/ air sparge system



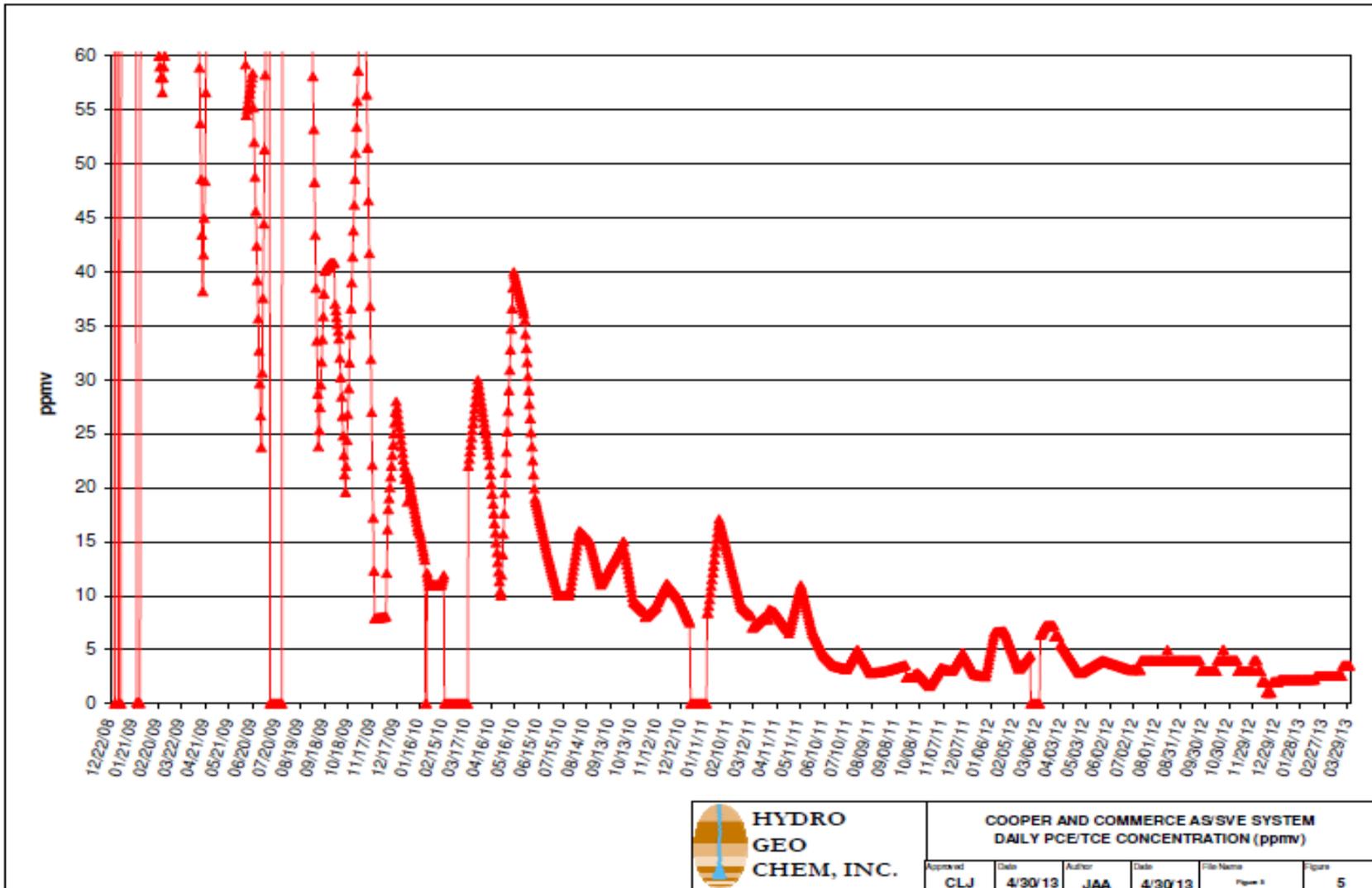
Soil vapor extraction/ air sparge system



**COOPER AND COMMERCE AS/SVE SYSTEM
CUMULATIVE PCE/TCE RECOVERY (lbs)**

Approved	Date	Author	Date	File Name	Figure
CLJ	4/30/13	JAA	4/30/13	Figure 4	4

Soil vapor extraction/ air sparge system



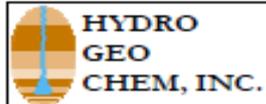
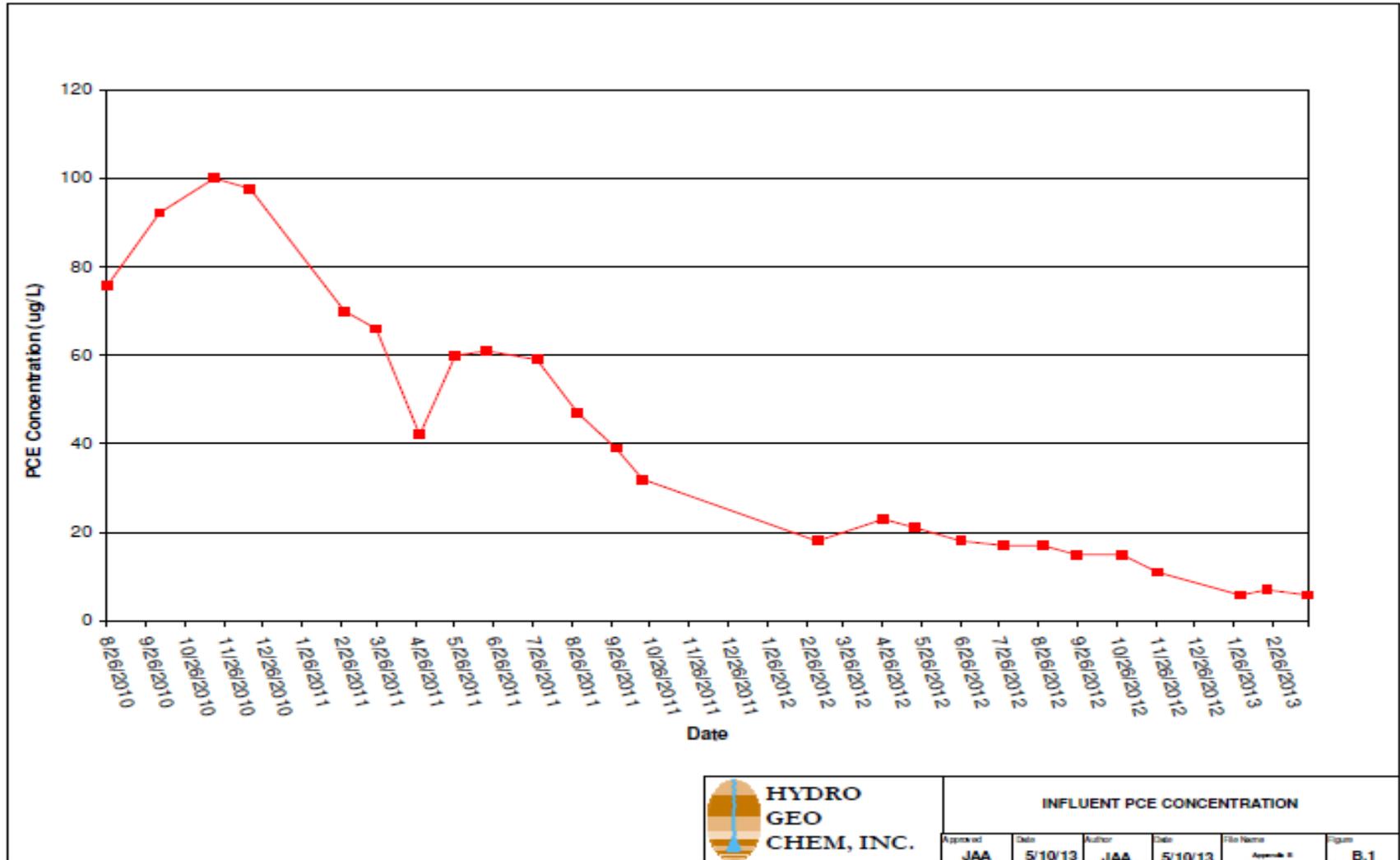
During the first quarter of 2013:

- The groundwater pump and treat (P&T) system operated at 120 gallons per minute (gpm).
- 11,259,049 gallons treated during the quarter.
- PCE influent concentrations from the extraction well averaged 6 parts per billion (ppb) over the quarter. The Aquifer Water Quality Standard (AWQS) for PCE is 5 ppb.

During the first quarter of 2013:

- The P&T system recovered approximately 0.7 pounds of PCE
- Since operations began in August 2010, the P&T system has recovered approximately 37.4 pounds of PCE.

Pump and treat system

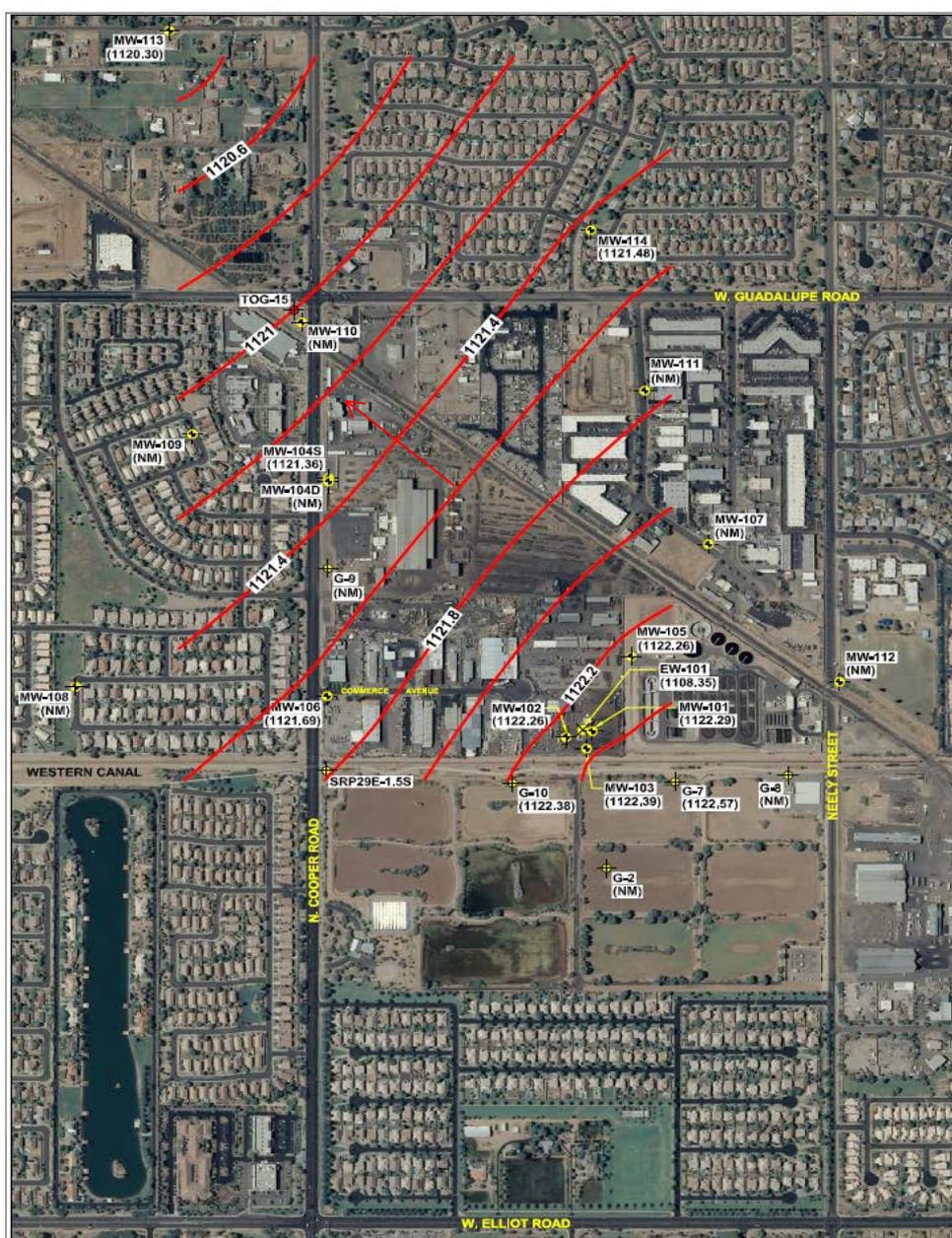


INFLUENT PCE CONCENTRATION					
Approval	Date	Author	Date	File Name	Figure
JAA	5/10/13	JAA	5/10/13	Appendix B	B.1

- During January 2013, ADEQ conducted a partial round of groundwater sampling from the monitoring well network.
- PCE concentrations in the on-site wells remained similar to fourth quarter 2012 concentrations. PCE concentrations in on-site monitor wells continue to decline and range from 2 to 14 ppb.
- The concentration of PCE in G-10 during the first quarter of 2013 was 5.4 ppb, continuing to decline. MW -105 showed a significant increase from 4 to 43 ppb. PCE concentrations in other wells remained stable.

1st Quarter 2013 Groundwater Sampling

- 1st quarter continues to indicate flow in a northwesterly direction.
- Water levels have declined approximately 5 feet since 1st quarter 2012.



Legend

- MW-102 (1122.26) Monitor Well and Groundwater Elevation (ft amsl)
- G-7 Well With Dedicated Pump (Not Currently Pumping)
- TOG-15 Well With Dedicated Pump (Currently Pumping)
- EW-101 Extraction Well
- (NM) Well Pump Operating at Time of Measurement
- Groundwater Contour (ft amsl)
- (NM) Not Measured

Note: Wells EW-101 and G-10 not used for contouring.
Contour Interval: 0.2 Foot
Well measurements taken March 28, 2013.

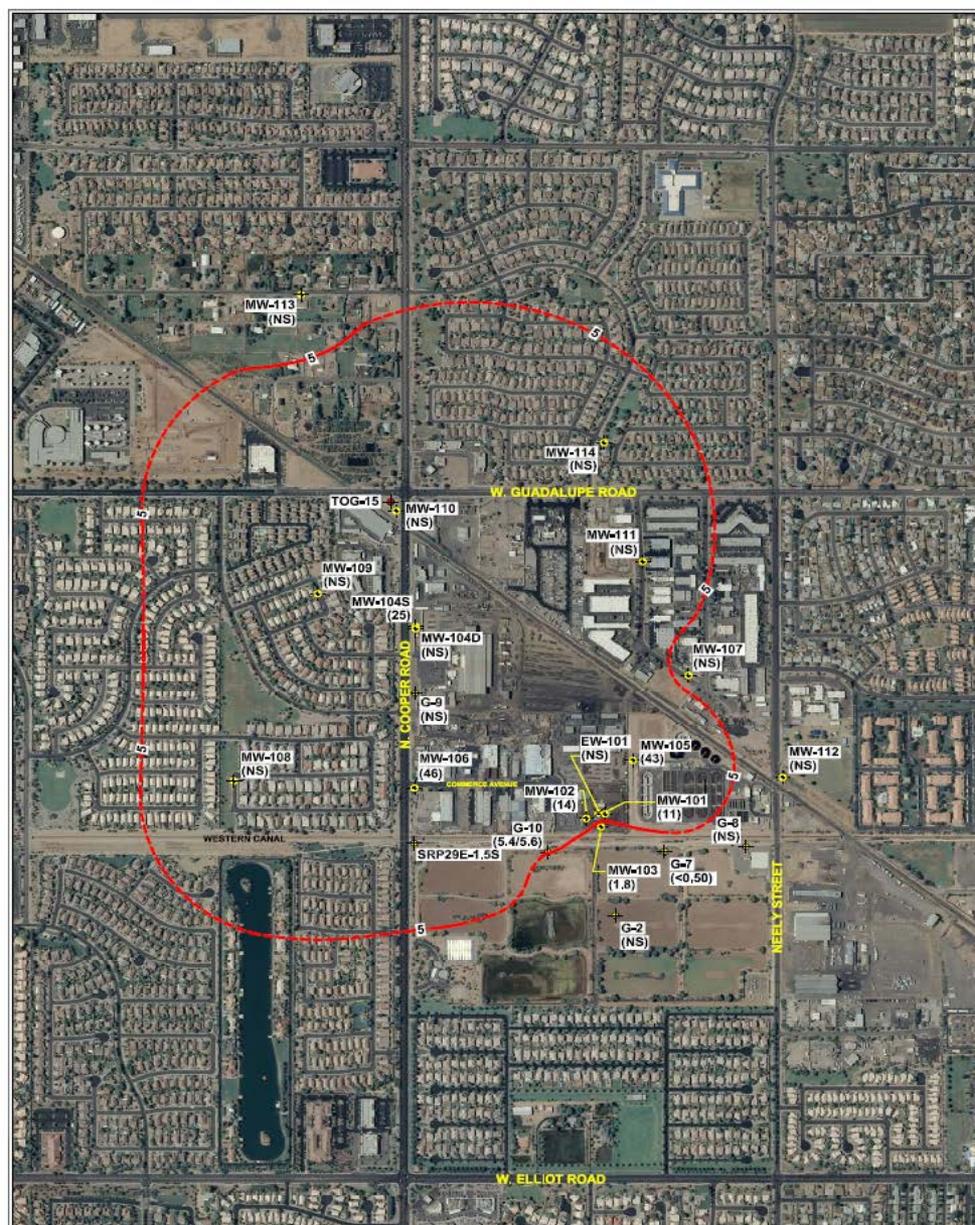
**GROUNDWATER ELEVATIONS
MARCH 2013
COOPER AND COMMERCE WQARF SITE**

Approval	Date	Author	Date	Proj Name	Sheet
CLJ	4/1/13	JAA	4/1/13	2010002054A	5

HYDRO GEO CHEM, INC.

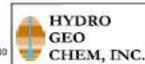
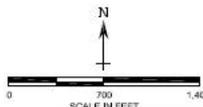
SCALE IN FEET: 0, 500, 1,000

1st Quarter 2013 Groundwater Sampling

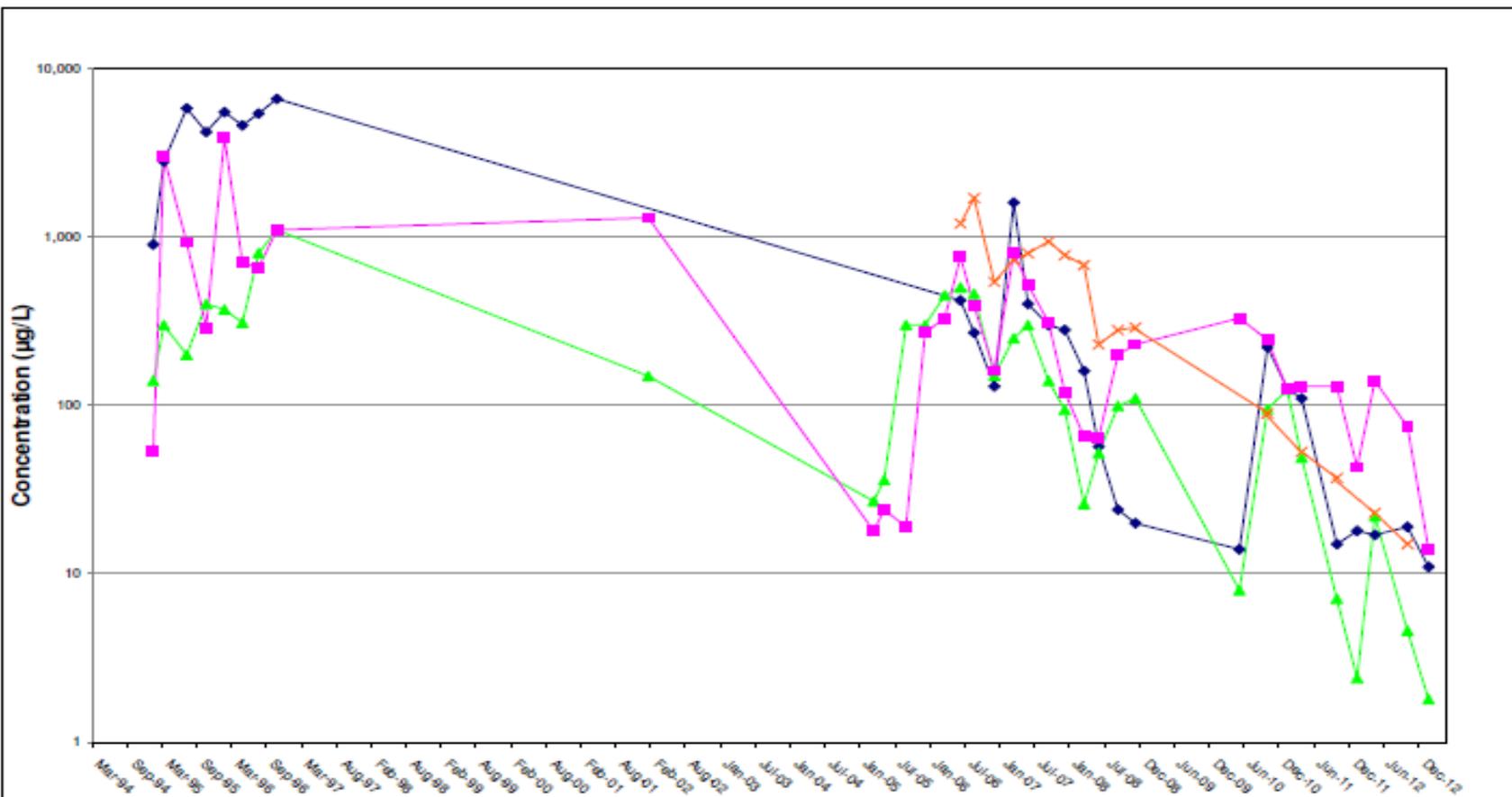


Legend

	Monitor Well and PCE Conc. Levels (µg/l)
	Well With Dedicated Pump (Not Currently Pumping)
	Well With Dedicated Pump (Currently Pumping)
	Extraction Well
(NS)	Not Sampled
	PCE Conc. Contour In (µg/L) (shaded line where Intersect)
	<0.50 - Below Detected Limits



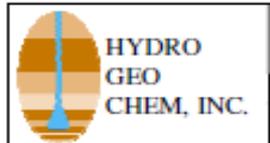
PCE CONCENTRATIONS IN GROUNDWATER BASED ON JANUARY 2013 EVENT TEST RESULTS COOPER AND COMMERCE WQARF SITE					
Approval	Date	Revised	Date	File Name	Page
CLJ	2/15/13	JAA	7/10/13	20100220SOA	2



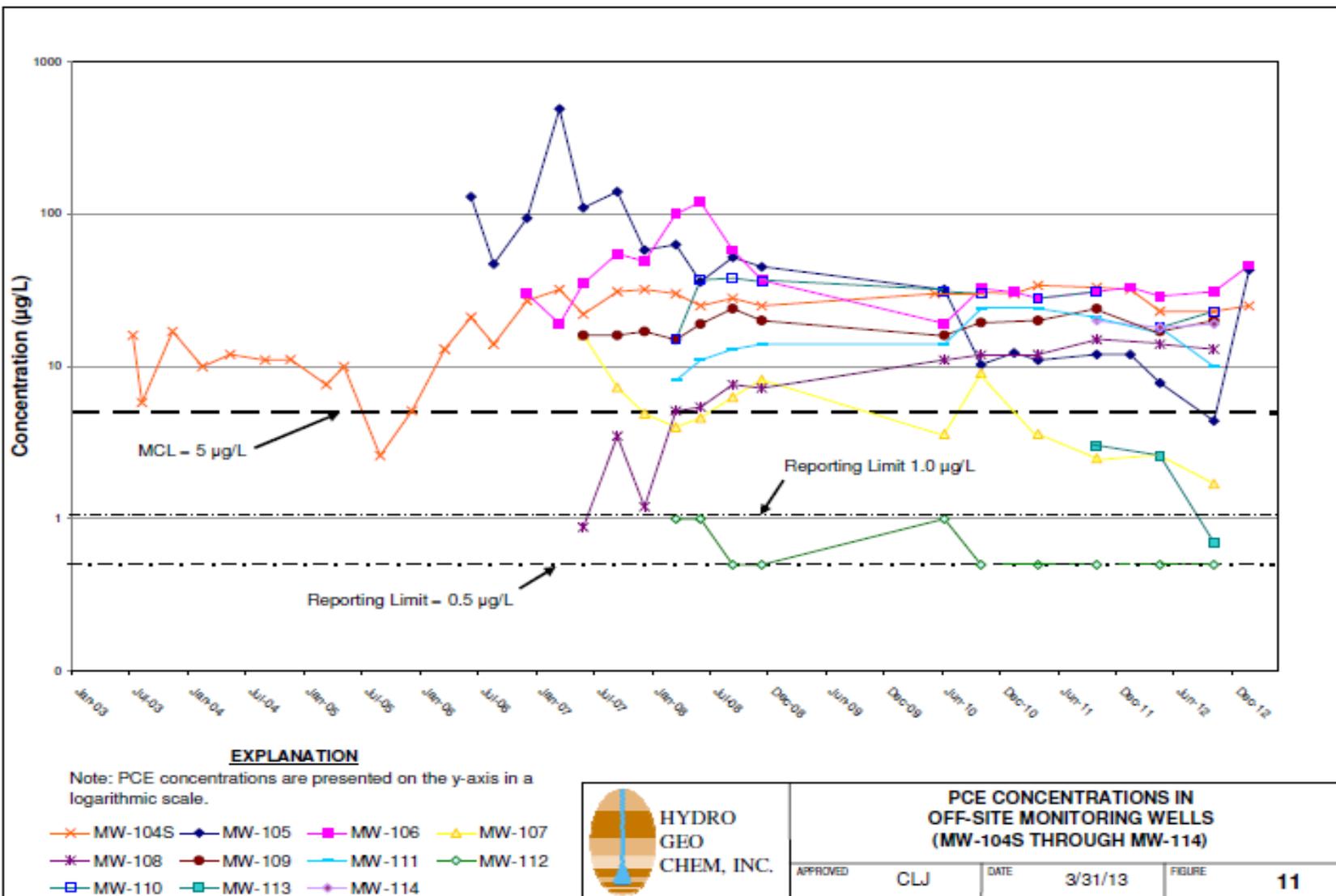
EXPLANATION

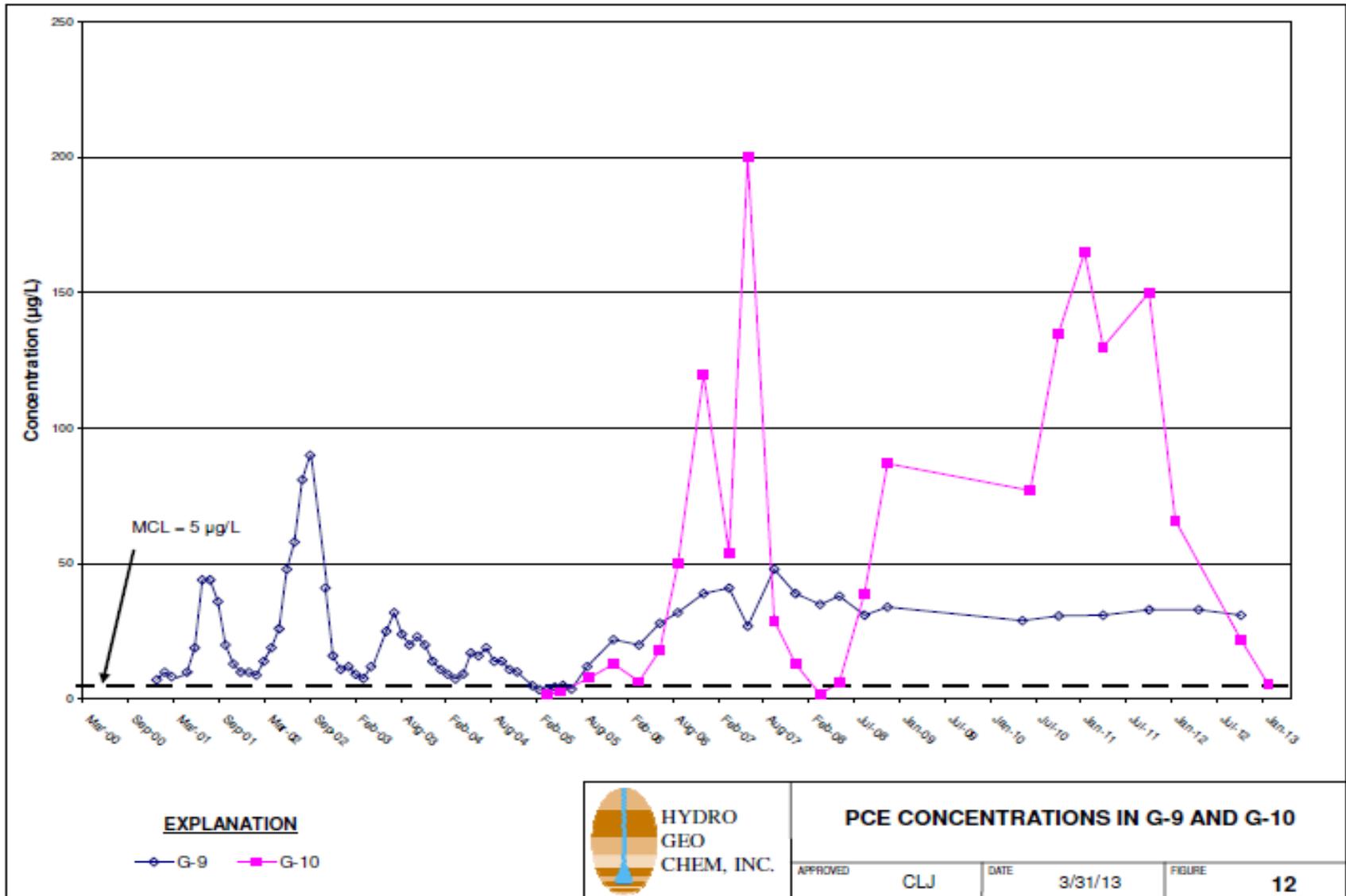
Note: Due to range of PCE concentrations detailed, y-axis is in a logarithmic scale.

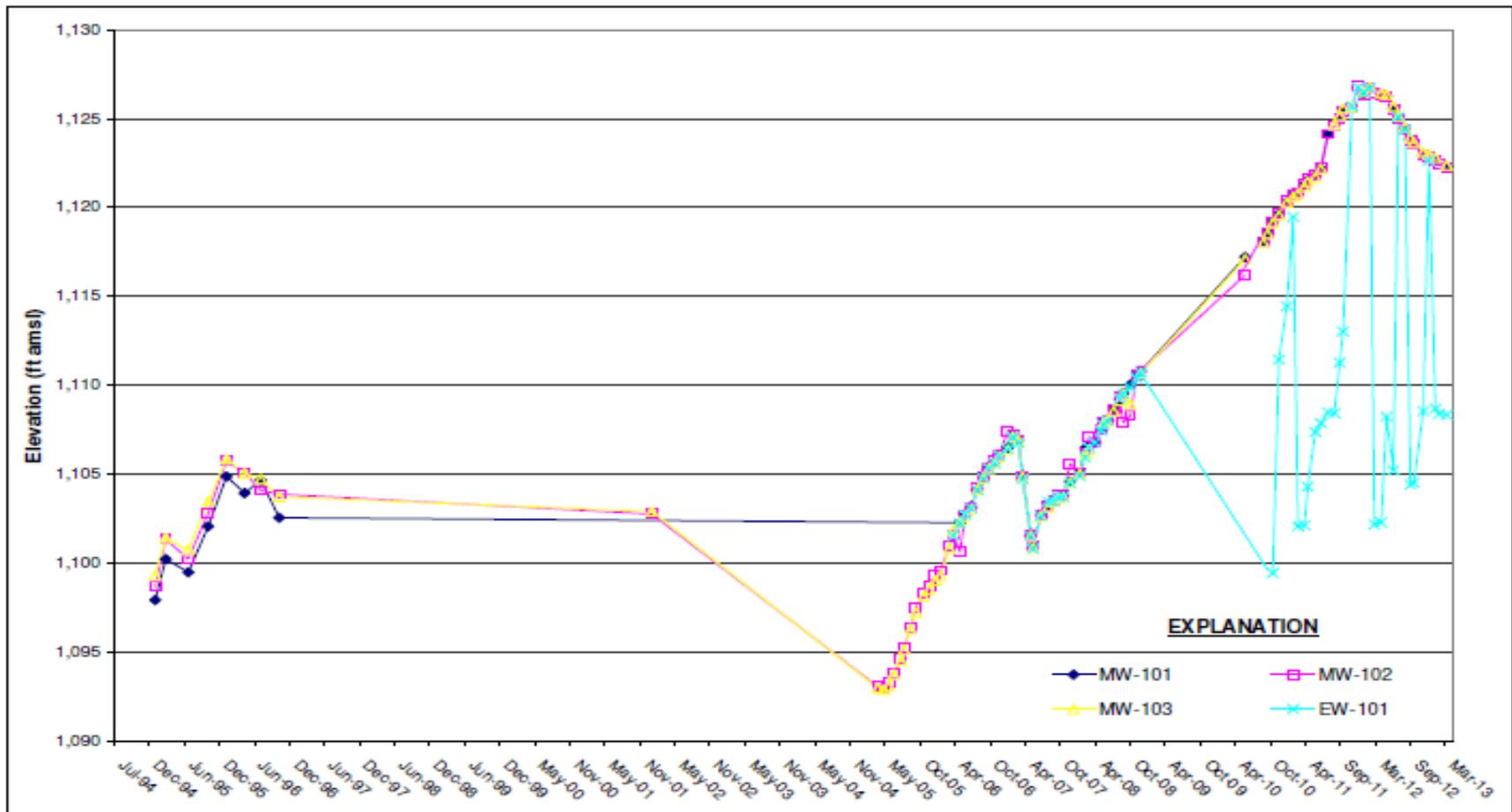
- ◆ MW-101
- ▲ MW-103
- × EW-101
- MW-102



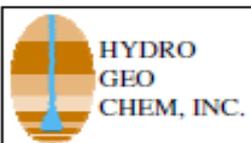
PCE CONCENTRATIONS IN ON-SITE MONITORING WELLS (MW-101 THROUGH MW-103 & EW-101)			
APPROVED	CLJ	DATE	3/31/13
		FIGURE	10



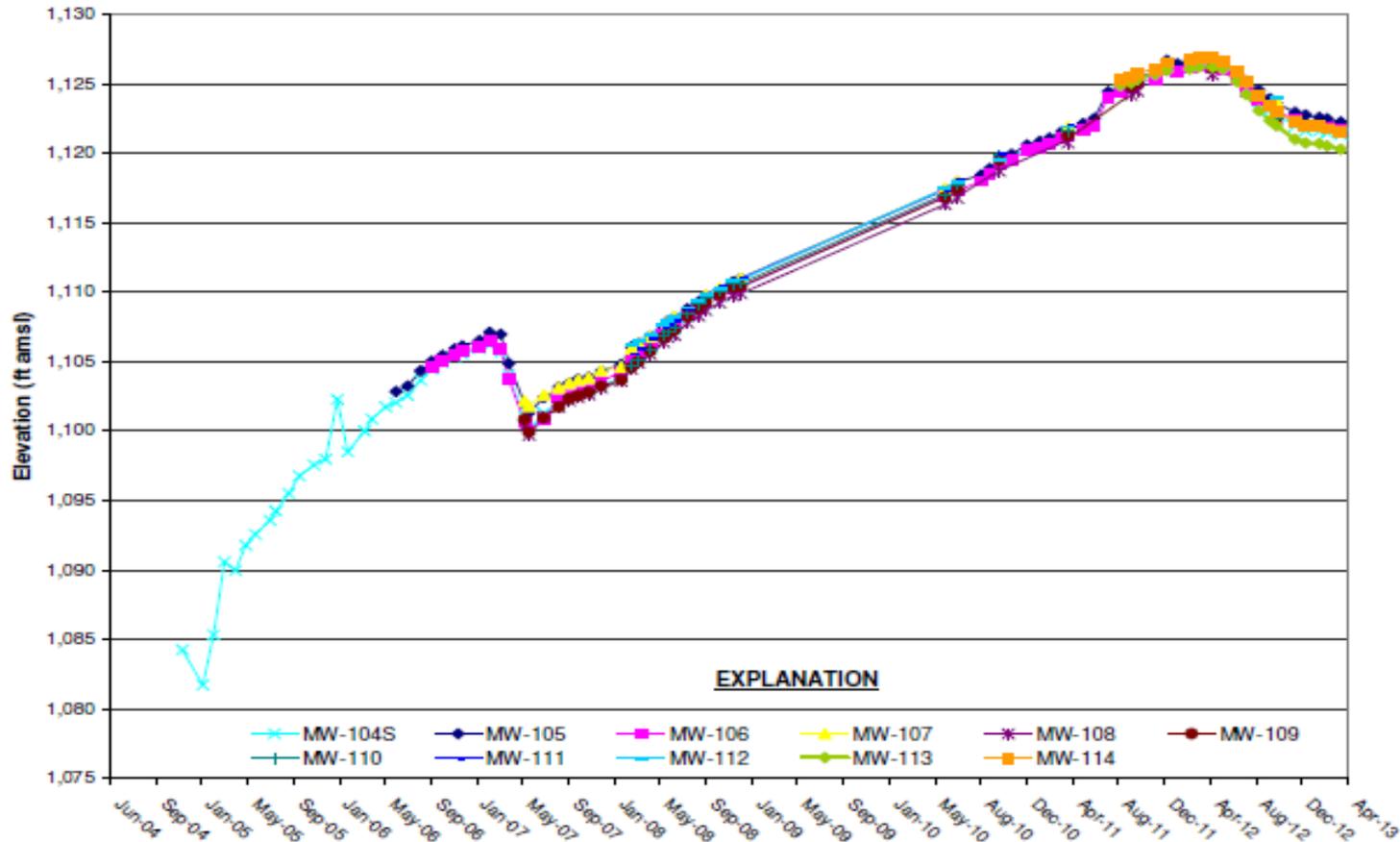




Notes:
 Wells re-surveyed July, 2011
 MW-101 Measuring Point Elevation Difference = +1.99 feet
 MW-102 Measuring Point Elevation Difference = +3.45 feet
 MW-103 Measuring Point Elevation Difference = +2.33 feet
 EW-101 Measuring Point Elevation Difference = +3.04 feet

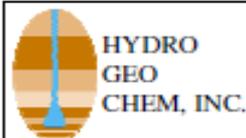


On-Site Monitoring Wells MW-101 Through MW-103 and EW-101 Hydrographs			
APPROVED	CLJ	DATE	3/31/13
		FIGURE	7



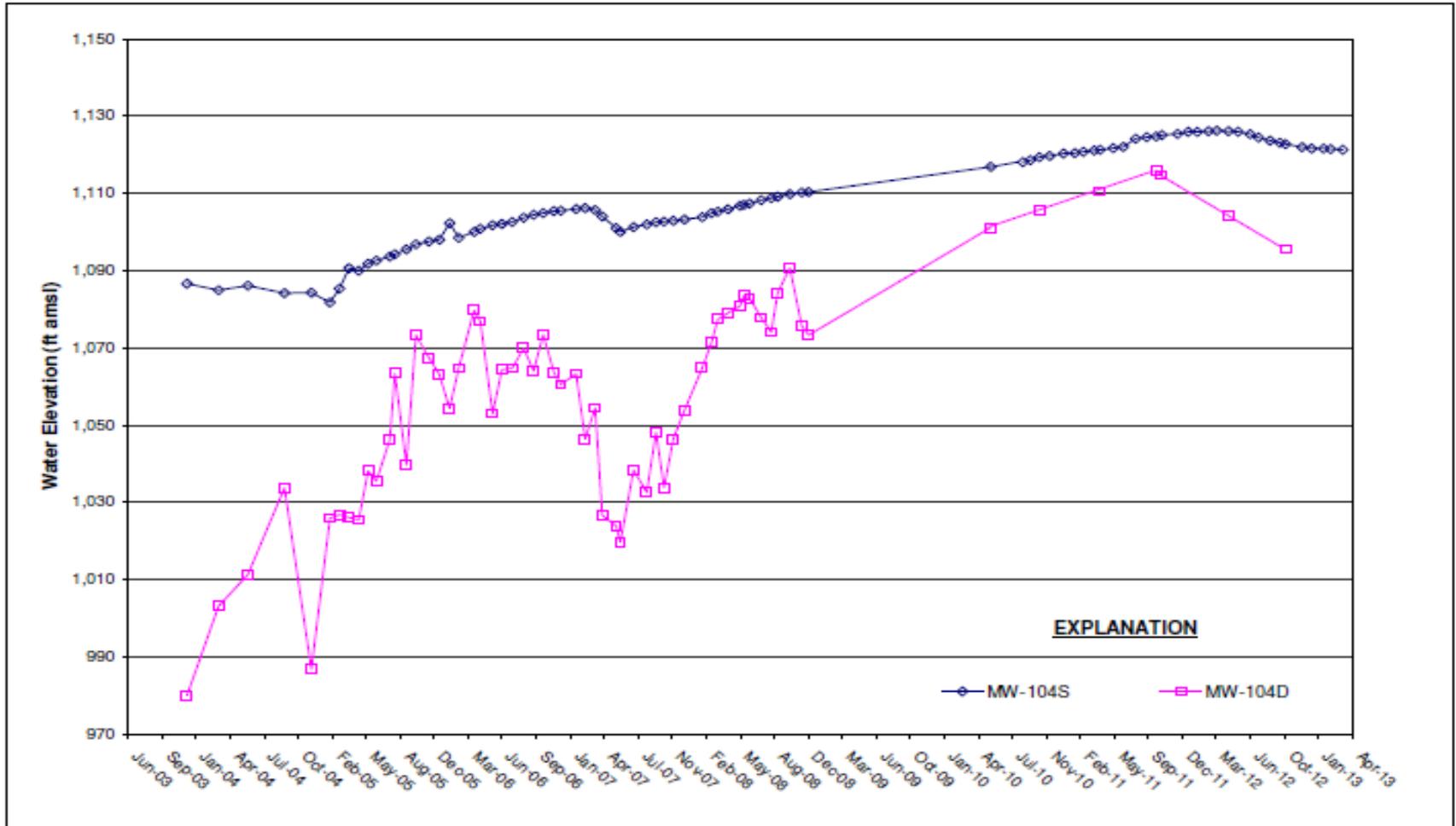
Notes:

Wells re-surveyed July, 2011
 Measuring Point Elevation Differences listed below:
 MW-104S = +1.88 feet MW-105 = +1.75 feet
 MW-106 = +1.80 feet MW-107 = +1.82 feet
 MW-108 = +1.84 feet MW-109 = +1.88 feet
 MW-110 = +1.80 feet MW-111 = +1.79 feet
 MW-112 = +1.81 feet MW-113 = NA
 MW-114 = NA

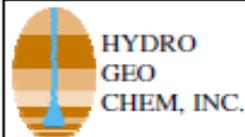


**Off-Site Monitoring Wells
 MW-104S Through MW-114
 Hydrographs**

APPROVED	CLJ	DATE	3/31/13	FIGURE	8
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Notes:
Wells re-surveyed July, 2011
MW-104S Measuring Point Elevation Difference = +1.88 feet
MW-104D Measuring Point Elevation Difference = +1.84 feet



MW-104S AND MW-104D HYDROGRAPHS

APPROVED

CLJ

DATE

3/31/13

FIGURE

6

FY 2013 Activities

- Normal operation of remediation systems.
- New wells installed to complete definition of plume.
- Draft RI report in progress.



Questions?

Contact Information

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