



*Practical Solutions
In Groundwater Science*

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Via Electronic Mail

May 9, 2016

Mr. Darryl Crossman, City Manager
City of Litchfield Park
214 W. Wigwam Boulevard
Litchfield Park, AZ 85340

Re: Monthly Update, PGA-North Superfund Site

Dear Mr. Crossman:

As requested, following is a brief update on activities at the Phoenix-Goodyear Airport (PGA) North Superfund Site for the period from March 2015 through early April 2016.

LITCHFIELD PARK WELL & TIERRA VERDE LAKE SAMPLING

Crane Co. sampled the City supply well on February 24th. The results were non-detect (<0.19 ug/L) for TCE and 1.1 ug/L for perchlorate, consistent with prior results. Clear Creek will sample the supply well in August to provide an additional data point for the year. The next sampling event of the City's well by Crane Co. is scheduled for February 2017.

RECENT MONITOR WELL RESULTS

The results from the March 2016 sampling event are generally consistent with prior results. Other than seasonal variations that are observed at the Site, plume conditions in the northern portion of the Site are relatively stable as a result of sustained operation of the groundwater remediation systems. As part of the long-term monitoring optimization effort, the number of wells sampled in March has been reduced. Notable findings or exceptions for the March results are summarized below.

- At EPA MW-63A, located on the west side of Litchfield Road, approximately 500 feet north of Van Buren, TCE concentrations were observed at 40.7 ug/L, consistent with the previous months' concentration. Prior to installation of new extraction well EA-10, the overall TCE concentration trend in the well was increasing. Since extraction well has been implemented, the TCE results have been variable and a new trend still has not clearly been established.

- At EPA MW-10A, located approximately 850 north of EPA MW-7A, TCE concentrations were 8.2 ug/L down from the prior month's result of 28 ug/L. Although seasonal variations related to regional pumping patterns are observed in this well, an overall decreasing trend is observed in this well from its peak concentration of 130 ug/L observed in December 2012.

CONDUIT WELL UPDATE

Concentrations in Subunit A have been below the aquifer water quality standard of 5 ug/L for several months. TCE concentrations in the deeper (Subunit C) port appear to have stabilized near to slightly below the aquifer water quality standard or 5 ug/L. The next sampling event is scheduled for May 2016.

SOURCE AREA INVESTIGATION & REMEDIATION

Crane Co submitted a set of Standard Operating Procedures (SOPs) for soil sampling, hydropunch sampling and well installation procedures for the source area treatability study was submitted in January and comments were provided by the agency team. Updated SOPs have been accepted by EPA.

Increased perchlorate concentrations have been observed in monitoring wells and extraction wells located on the former Unidynamics property since Crane Co has expanded the on-site infiltration galleries. The increase is attributed to the flushing of residual perchlorate salts from the unsaturated zone. Perchlorate concentrations currently appear to be stable in down gradient monitoring wells suggesting that the residual perchlorate is being captured by the on-site extraction wells.

GROUNDWATER INVESTIGATION

Well installation, development and testing activities of EPA MW-68A, located on Litchfield approximately 0.1-miles north of Yuma, were completed March 30, 2016. TCE results in EPA MW-68-A for March /April 2016 were 15.6 ug/L indicating that the plume boundary is encroaching upon the boundary with the PGA-South Site at Yuma Road and that the plume boundary is neither fully defined nor fully contained in the Southeastern portion of the Site. Crane Co. is planning additional soil borings to collect grab groundwater samples to the west of EPA MW-68A

PLUME CONTAINMENT

A water level contour map for March 2016 is included as Figure 1. Hydraulic containment in the north and northeast portions of the Site is being maintained by the combined operation of the groundwater extraction and reinjection systems. Approximately 5% of the water extracted from the EA-06/EA-07 treatment system was utilized by Goodyear for park irrigation; this is consistent with the usage seen last

year. Average flow rates in the injection wells for March were 222 gpm, 222 gpm, and 173 gpm in IA-11, IA-12 and IA-15, respectively, (Figure 2). The average reported flow rates for IA-07 and IA-08 for March were 152 and 162 gpm, respectively, which are generally consistent with the previous months' rates (Figure 2). Groundwater elevations in the vicinity of injection well IA-12 were similar to the previous month's monitoring event, with water level decreases noted in wells EPA MW-35A, EPA MW-39A, EPA MW-45A, and EPA MW-53A (Figure 3). Average flow rates, based on operational uptime, for the off-site extraction wells are shown on Figure 4. The operational uptime for the EA-06/EA-07 treatment system was consistent with the prior month. The average reported flow rates for EA-06, EA-07, and EA-08 for March were 398 gpm, 203 gpm, and 322 gpm, respectively, consistent with the previous months' flow rates. In March, the average reported flow rates for new on-site extraction wells EA-09 and EA-10 were 198 gpm and 226 gpm, respectively, consistent with the previous months' flow rates (Figure 4). Operation of new extraction well EA-10 has enhanced capture along Van Buren at the northern portion of the former Unidynamics property.

As noted above, the results from recently installed wells indicate that the plume boundary is neither fully defined nor fully contained in the Southeastern portion of the Site. As results of the groundwater investigation have become available. Crane Co. has re-directed treated water from the Main Treatment System, located on the former Unidynamics property, away from the southern injection wells and to surficial use in the vegetated plots and to the shallow infiltration gallery. The objective is to spread the injected water over a larger area and reduce the hydraulic gradient in the southeastern portion of the site in order to minimize spreading of the observed contamination.

* * * * *

Sincerely,
Clear Creek Associates, PLC



Thomas R. Suriano, R.G.
Principal Hydrogeologist

Attachments:

- Figure 1: Groundwater Elevation Contour Map, March 2016
- Figure 2: Average Injection Rates
- Figure 3: Groundwater Elevations in Monitor Wells near IA-12
- Figure 4: Average Extraction Rates

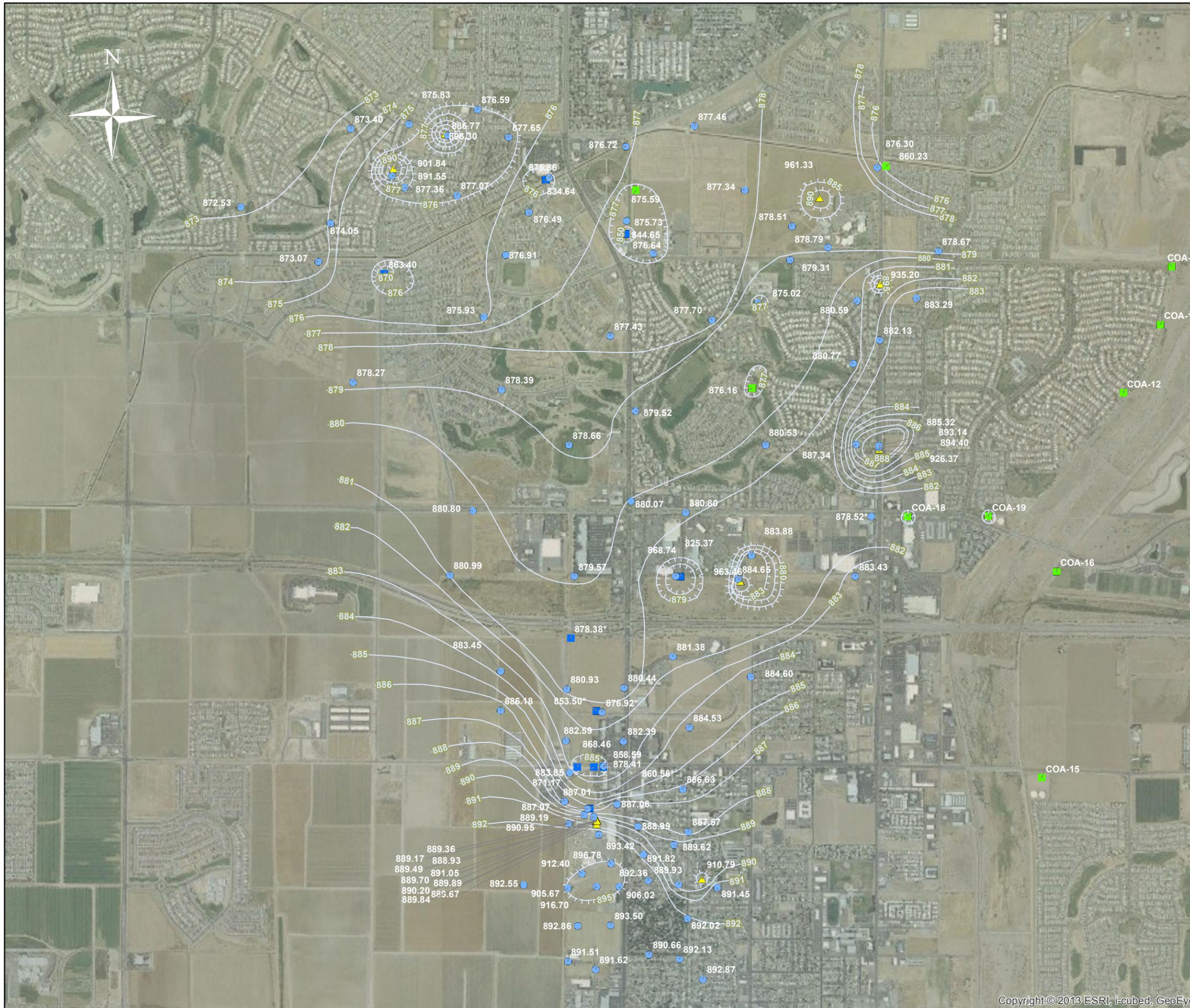
cc: (e-copies)
Sonny Culbreth – City of Litchfield Park
Carla Reece – City of Litchfield Park
Terri Roth – City of Litchfield Park
Susan Goodwin – City Attorney
Woody Scoutten – EPS Group

PGA North Superfund Site

Goodyear, Arizona

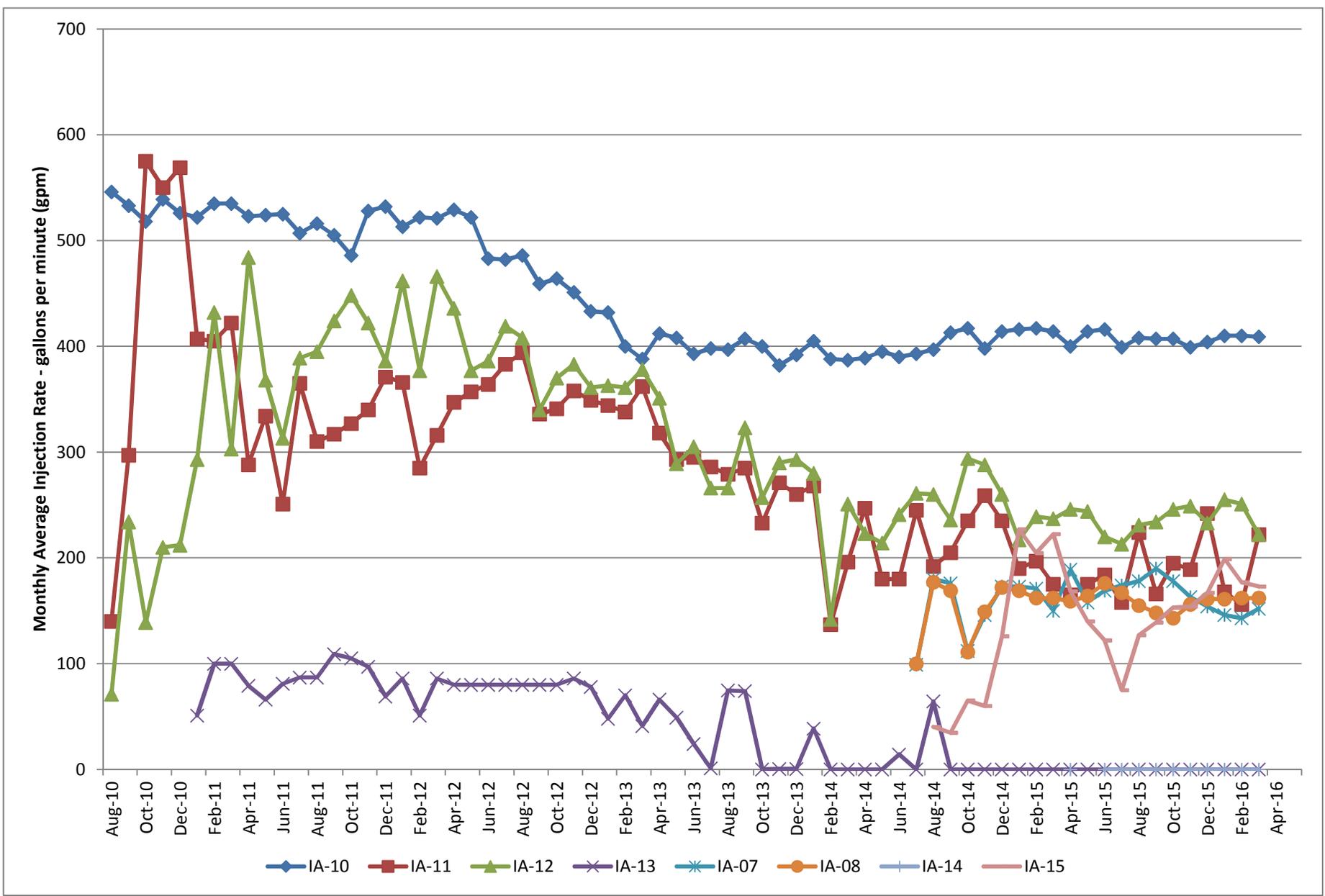
Legend

- Extraction Well
 - ▲ Injection Well
 - Monitor Well
 - Supply Well
 -  Groundwater Elevation Contours (feet above mean sea level) 1-foot Interval
- * indicates value not used for contouring

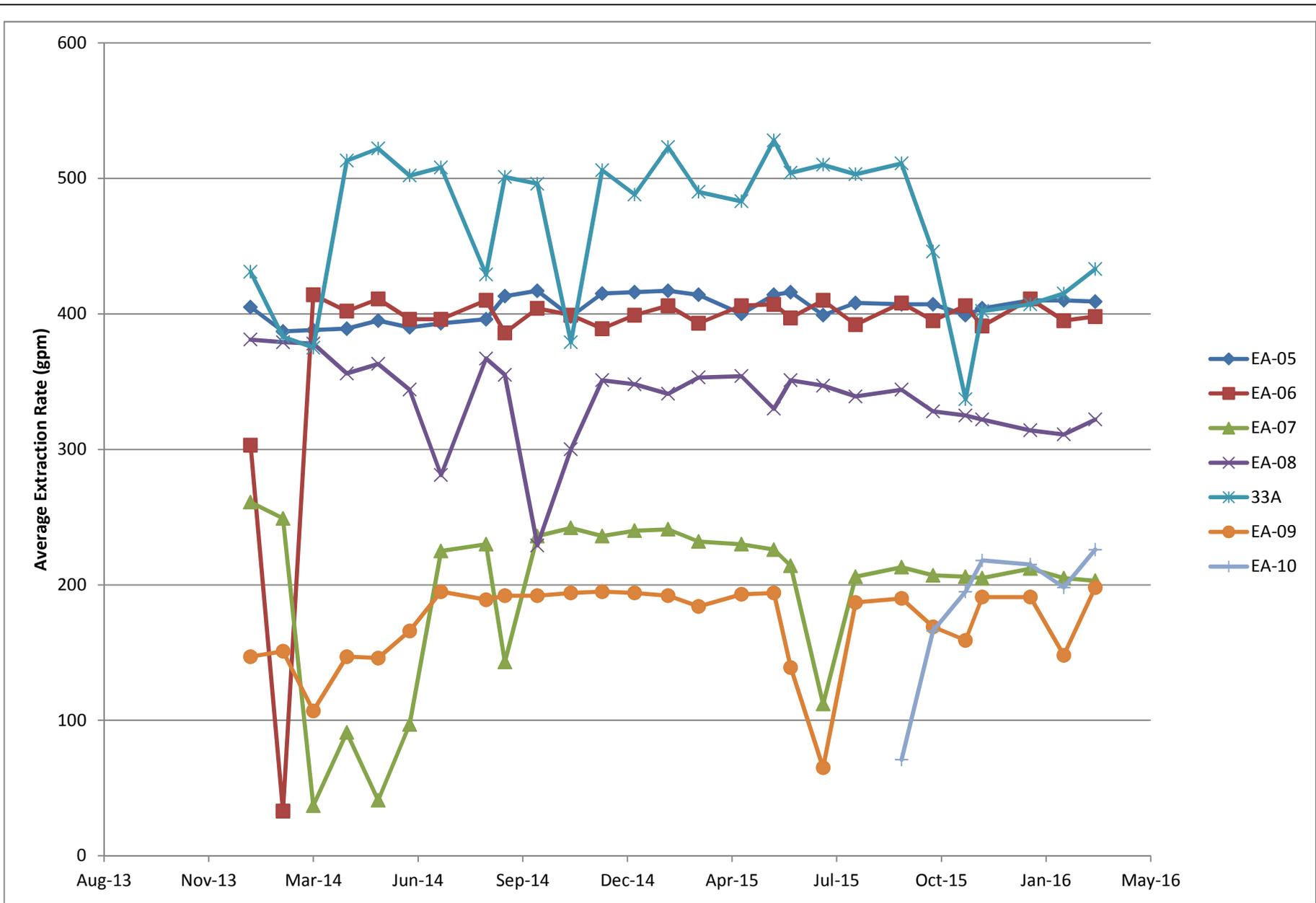


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Figure 1 Groundwater Elevation Contour Map March 2016

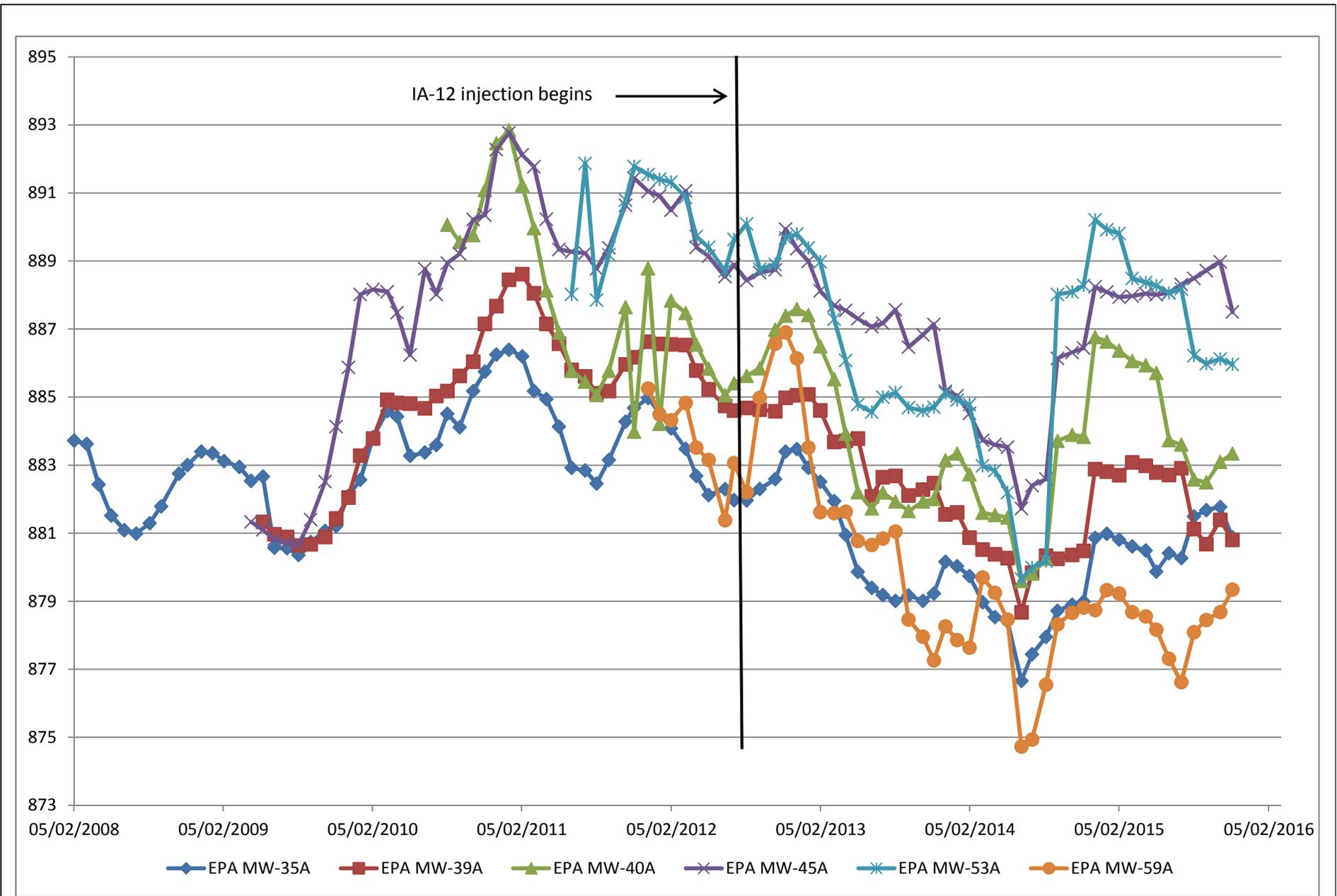


PGA-North Average Injection Rates					
Approved	Date	Author	Date	File Name	Figure
TRS		GJM	5/2/16	Injection Rates_2	2



PGA-North Average Extraction Rates

Approved TRS	Date	Author GJM	Date 5/2/16	File Name Injection Rates_2	Figure 4
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Groundwater Elevations in Monitor Wells Near IA-12

Approved	Date	Author	Date	File Name	Figure
TRS		GJM	5/2/16	Injection Rates_2	3

Dear Mayor Schoaf and Mr. Crossman,

In accordance with the agreement between the City of Litchfield Park and Crane Co., please find relevant portions of the March 2016 Groundwater Monthly Report and Remediation System Performance Summary as it pertains to the northeast and northwest portions of the Subunit A trichloroethene (TCE) plume associated with the Phoenix-Goodyear Airport-North (PGA-North) Superfund Site in Goodyear, Arizona.

As part of the Environmental protection Agency (EPA) approved Long Term Monitoring Optimization (LTMO) that evaluated concentration trends and plume stability using both quantitative and qualitative methods, the monitor wells in the Northeast and Northwest areas are sampled for TCE on a quarterly basis in February, May, August, and November. The LTMO process was a collaborative effort between the Matrix New World, EPA, Arizona Department of Environmental Quality, and PGA-North Stakeholders. Monthly groundwater level measurements will continue to be collected to ensure that hydraulic capture and plume containment is occurring.

The northeast area Subunit A TCE plume groundwater remediation systems consist of three groundwater extraction wells (EA-05, EA-06, and EA-07), and six groundwater injection wells (IA-10, IA-11, IA-12, IA-13, IA-14, and IA-15). These remediation systems were installed to remove TCE mass from groundwater, maintain an effective hydraulic barrier west of Dysart Road, protect the water supply wells in the area, reduce TCE concentrations in the area, and ultimately restore the Subunit A aquifer. The groundwater pumped from extraction well EA-05 is treated at the EA-05 groundwater treatment system (GTS) and re-injected into injection well IA-10. The groundwater pumped from extraction wells EA-06 and EA-07 is treated at the EA-06 GTS and currently re-injected into injection wells IA-11, IA-12, and IA-15. Injection wells IA-11 and IA-12 came online in August 2010, injection well IA-13 came online in January 2011. In August 2014, all flow from IA-13 was diverted to injection well IA-15. Injection well IA-14 is installed and connected to the system, but currently is not being used due to the effective hydraulic barrier that is currently being provided by the three injection wells IA-11, IA-12, and IA-15.

The northwest area Subunit A TCE plume groundwater remediation systems consist of two groundwater extraction wells (33A and EA-08) and two groundwater injection wells (IA-07 and IA-08). Extraction well 33A came online in 1997, and extraction well EA-08 came online in December 2011. The groundwater pumped from 33A is treated at the 33A GTS, and is used for irrigation by the Palm Valley Lakes Golf Course, or is discharged to the Roosevelt Irrigation District (RID) canal. The groundwater pumped from EA-08 is treated at the EA-08 GTS, and is conveyed to injection wells IA-07 and IA-08 to provide a hydraulic barrier in the northwest area, protect water supply wells, and reduce the size of the plume.

The average groundwater extraction and injection rates for the northeast and northwest area remediation system wells during March 2016 are summarized below:

Northeast Area

- EA-05 – 409 gallons per minute (gpm)
- EA-06 – 398 gpm
- EA-07 – 203 gpm
- IA-10 – 409 gpm
- IA-11 – 222 gpm
- IA-12 – 222 gpm
- IA-15 – 173 gpm

Northwest Area

- 33A – 433 gpm
- EA-08 – 322 gpm
- IA-07 – 152 gpm
- IA-08 – 162 gpm

A. Treatment Systems and TCE Mass Removal

EA-05 GTS

During this reporting period, approximately 20.6 million gallons (Mgals) of groundwater were extracted and treated at the EA-05 GTS; removing 7.8 pounds of TCE.

EA-06 GTS

During this reporting period, approximately 30.3 Mgals of groundwater were extracted from extraction wells EA-06 and EA-07, and treated at the EA-06 GTS; removing 9.5 pounds of TCE.

EA-08 GTS

During this reporting period, approximately 16.2 Mgals of groundwater were extracted and treated at the EA-08 GTS; removing 4.0 pounds of TCE.

33A GTS

During this reporting period, approximately 21.8 Mgals of groundwater were extracted and treated at the 33A GTS; removing approximately 5.6 pounds of TCE.

B. Northeast Area Subunit A Groundwater Quality and Plume Extent

The February 2016 analytical results indicate that the northeast portion of the Subunit A TCE plume continues to be delineated by monitor wells EPA MW-18A, EPA MW-30A, EPA MW-31A, EPA MW-34A, EPA MW-35A, EPA MW-36A, EPA MW-39A, EPA MW-40A, EPA MW-41A, EPA MW-43A, EPA MW-45A, EPA MW-52A, EPA MW-53A, EPA MW-54A, EPA MW-55A, EPA MW-59A, EPA MW-60A, EPA MW-61A, and IR-34B (Figure 1). Groundwater samples collected from these wells continue to exhibit TCE concentrations that are either below the laboratory detection limit or are less than the United States Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) of 5 micrograms per liter ($\mu\text{g/L}$).

In the Northeast Area, since injection of treated groundwater commenced, TCE concentration trends for key performance monitor wells continue to indicate that the Subunit A plume has been reduced in size. For example:

- Historically, TCE concentrations in EPA MW-35A, (Figure 2) typically peaked during the winter and spring months in response to rising groundwater levels related to the reduced pumping schedules from local irrigation and supply wells. In February 2010, TCE was reported at a concentration of 48 µg/L in EPA MW-35A. However, since the injection of treated water began into injection wells IA-12, IA-13, and most recently IA-15 (August 2014), TCE concentrations have been reduced by two orders of magnitude in this well, and continue to remain low; the most recent (February 2016) TCE concentration for this well was below the laboratory detection limit of 0.20 µg/L.
- In IR-34B, TCE was reported at a concentration of 180 µg/L in July 2009. However, since the initiation of injection of treated water into wells IA-11, IA-12, IA-13, and most recently IA-15, TCE concentrations have been reduced. The most recent (February 2016) TCE concentration for this well is 5.0 µg/L, which is equal to the MCL.
- In monitor wells EPA MW-39A, EPA MW-40A, EPA MW-45A, EPA MW-55A and EPA MW-59A the most recent (February 2016) TCE concentrations are below the laboratory detection limit of 0.20 µg/L (Figure 1).
- In monitor well EPA MW-30A (Figure 2), TCE concentrations have decreased from 29 µg/L in August 2010 to below the laboratory detection limit of 0.20 µg/L in February 2016;
- In monitor well EPA MW-43A (Figure 2), TCE concentrations have decreased from 6.3 µg/L in August 2010 to below the laboratory detection limit of 0.20 µg/L in February 2016.
- In monitor well EPA MW-54A (Figure 2), TCE concentrations have decreased from 28 µg/L in October 2010 to below the laboratory detection limit of 0.20 µg/L in February 2016.

The TCE concentration trends for northeast area wells continue to demonstrate that the plume in this area is defined and has continued to decrease in size as a result of the extraction operations at EA-05, EA-06, and EA-07 and the reinjection of treated groundwater into injection wells IA-10, IA-11, IA-12, and IA-15.

C. Northwest Area Subunit A Groundwater Quality and Plume Extent

The February/March 2016 analytical results indicate that the northwest portion of the Subunit A TCE plume is delineated by monitor wells MW-17, EPA MW-17A, EPA MW-20A, EPA MW-21A, EPA MW-32A, EPA MW-37A, and MW-24 (Figure 1). Groundwater samples collected from these wells exhibit TCE concentrations that are either below the laboratory detection limit or are less than the EPA MCL of 5 µg/L.

In the EA-08 GTS area, since the startup of extraction well EA-08 in December 2011, TCE concentrations in key performance monitor well (EPA MW-50A) continue to indicate TCE mass in the area has been reduced. For example:

- In sentinel monitor well EPA MW-50A, TCE concentrations have decreased from 19 µg/L in October 2010 to 4.4 µg/L in February 2016 (Figure 1).

In the 33A GTS area, northwest area sentinel wells continue to indicate that the plume is defined to concentrations less than the laboratory reporting limit, or less than the MCL.

- In monitor well EPA MW-51A, the TCE concentration was 4.9 µg/L in February 2016 (Figure 1). Based on concentration trend data, as the injection of treated water to injection wells IA-07 and IA-08 continue, TCE concentrations in this well may occasionally increase to levels slightly above the MCL, but over time concentrations are expected to be reduced.
- In interior monitor well MW-16, the February 2016 TCE concentration was 42.6 µg/L (Figure 1). Due to the interior location of the well, the aquifer dynamics in this area, and the historic high TCE mass in the area, TCE concentrations may remain above the MCL and may occasionally spike as shown in Figure 3.

D. Groundwater Elevations and Flow Directions

Northeast Area

The March 2016 groundwater elevations in key northeast area monitor wells (EPA MW-30A, EPA MW-34A, EPA MW-35A, EPA MW-39A, EPA MW-43A, EPA MW-45A, EPA MW-54A, and EPA MW-55A) continue to indicate an effective hydraulic barrier and groundwater mound west of Dysart Road that is maintained by the injection of treated groundwater into injection wells IA-11, IA-12, and IA-15 (Figure 4 and Figure 5). Additionally, groundwater elevations and the local potentiometric surface calculated for March 2016 continue to demonstrate that the operation of the extraction and injection wells in this area are maintaining groundwater flow directions away from the Litchfield Park and COA water supply wells in the area and toward extraction wells EA-06 and EA-07 (Figure 6).

Northwest Area

In the northwest area, the extraction operations at 33A, EA-08, and injection wells IA-07 and IA-08 are the dominant potentiometric features. Groundwater elevations in key monitor wells PZ-16, PZ-17, EPA MW-3A, EPA MW-20A, EPA MW-32A, and EPA MW-37A continue to indicate that an effective hydraulic barrier has been developed in the northwest area by the injection of treated water into IA-07 and IA-08 (Figure 7). The small gap in hydraulic capture that had previously existed between extraction wells 33A and EA-08 has been eliminated by the injection of treated water into these wells.

E. Activities Planned for May 2016

- Continued operation and maintenance of the existing groundwater treatment systems.
- Quarterly groundwater sampling and monthly water level measurements of key performance and plume delineation monitor wells north of I-10.
- Continue to evaluate water levels, TCE concentrations, and groundwater flow directions in the northeast area. Make flow rate adjustments to the injection wells as necessary to maintain hydraulic control and protect water supply wells.

- Monitor and evaluate the mounding from the injection of treated water from extraction well EA-08 to new injection wells IA-07 and IA-08.

Please feel free to contact me if you have any questions or if you need additional information.

Harry Brenton, RG

Director of Hydrogeological Services

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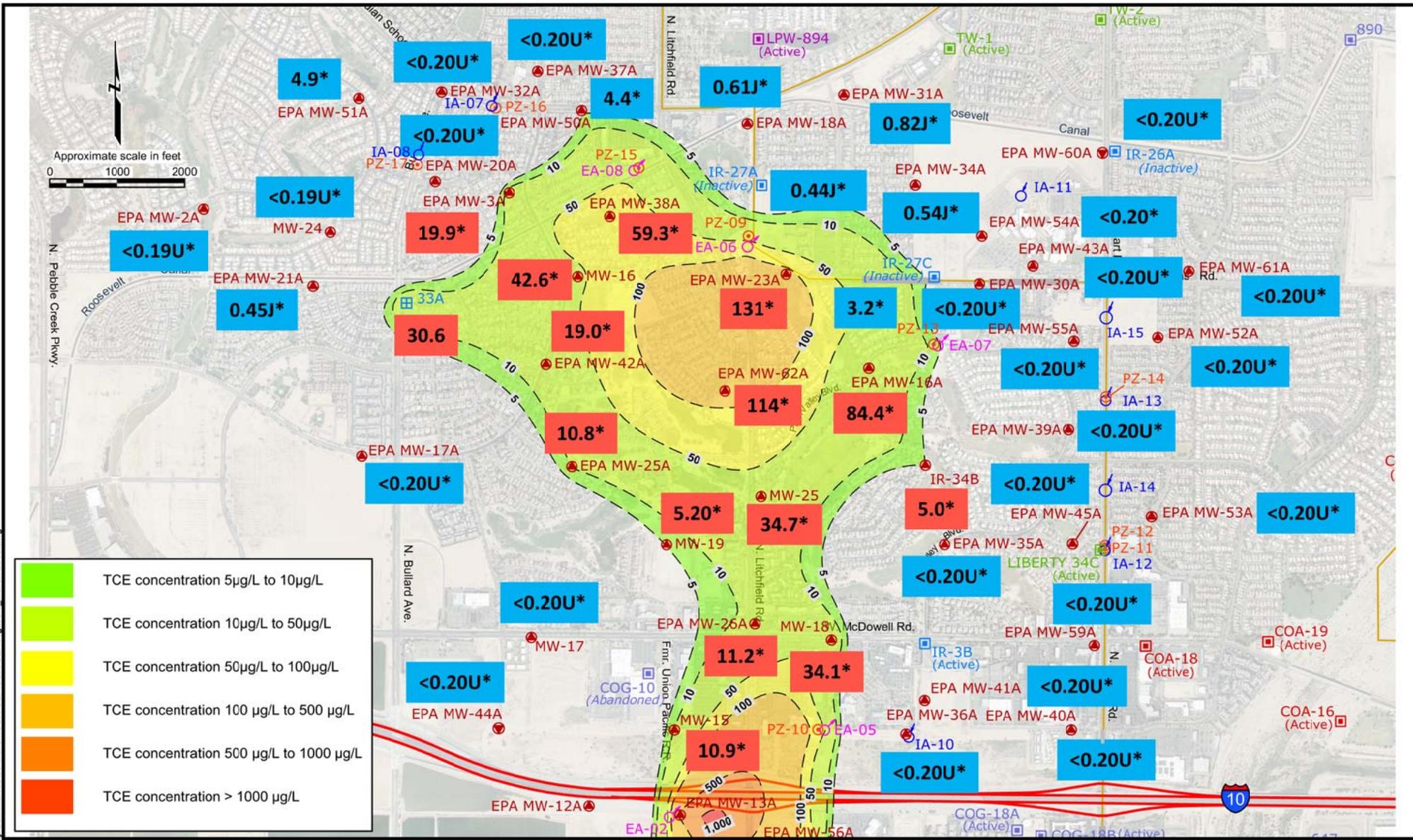
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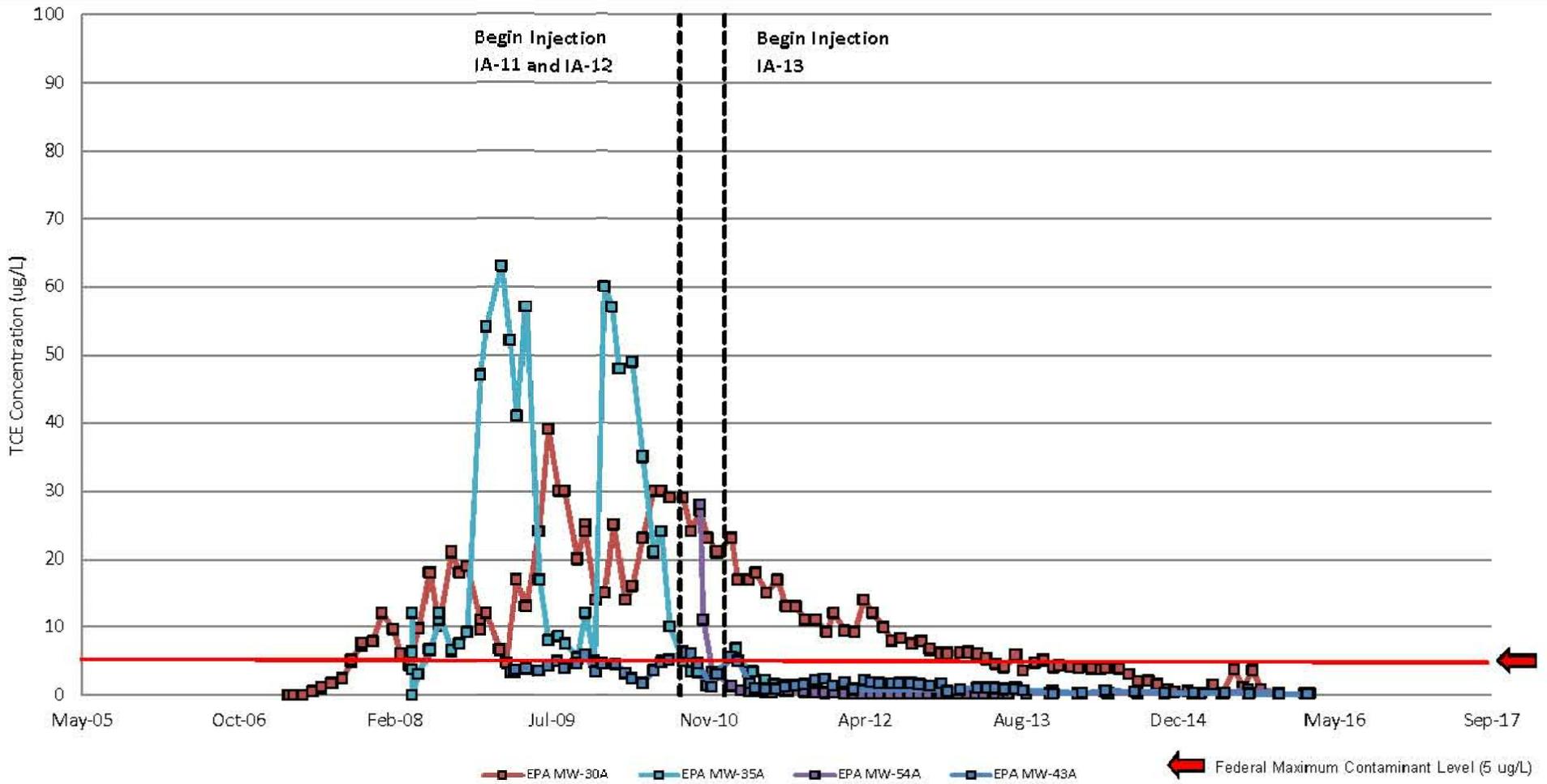
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SUBUNIT A TCE CONCENTRATIONS AND
GROUNDWATER CONTOURS NORTH OF I-10
February 2016

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 16-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: 1" = 2000'

FIGURE NUMBER:
1

**TCE Concentrations EPA MW-30A, EPA MW-35A, EPA MW-43A, and EPA MW-54A
Phoenix-Goodyear Airport-North
Goodyear, AZ**



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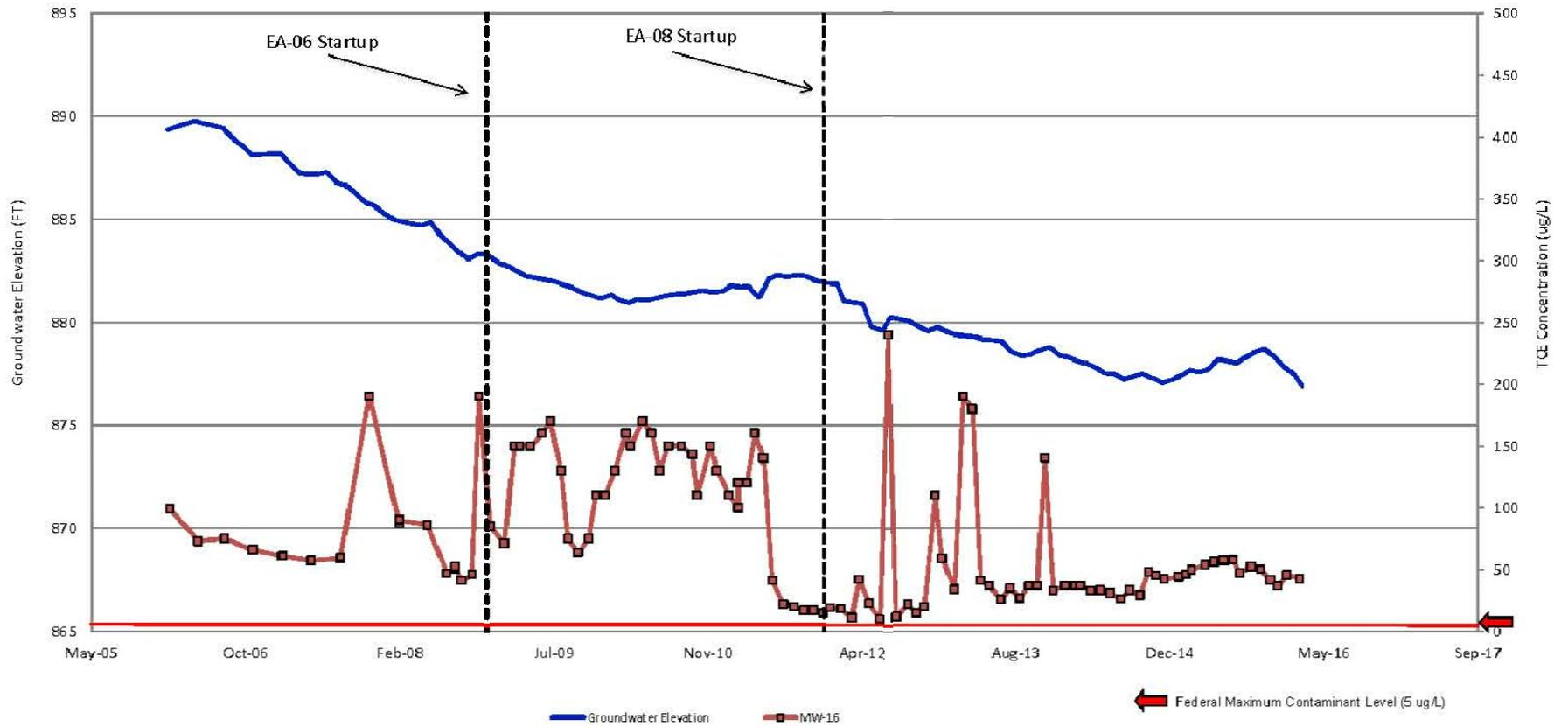
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**TCE TREND GRAPHS-PERFORMANCE
MONITOR WELLS - SUBUNIT A
NORTHEAST AREA**

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: NONE

FIGURE NUMBER:
2

MW-16 GROUNDWATER LEVELS and TCE CONCENTRATIONS (2006 - 2016)
Phoenix-Goodyear Airport-North
Goodyear, AZ



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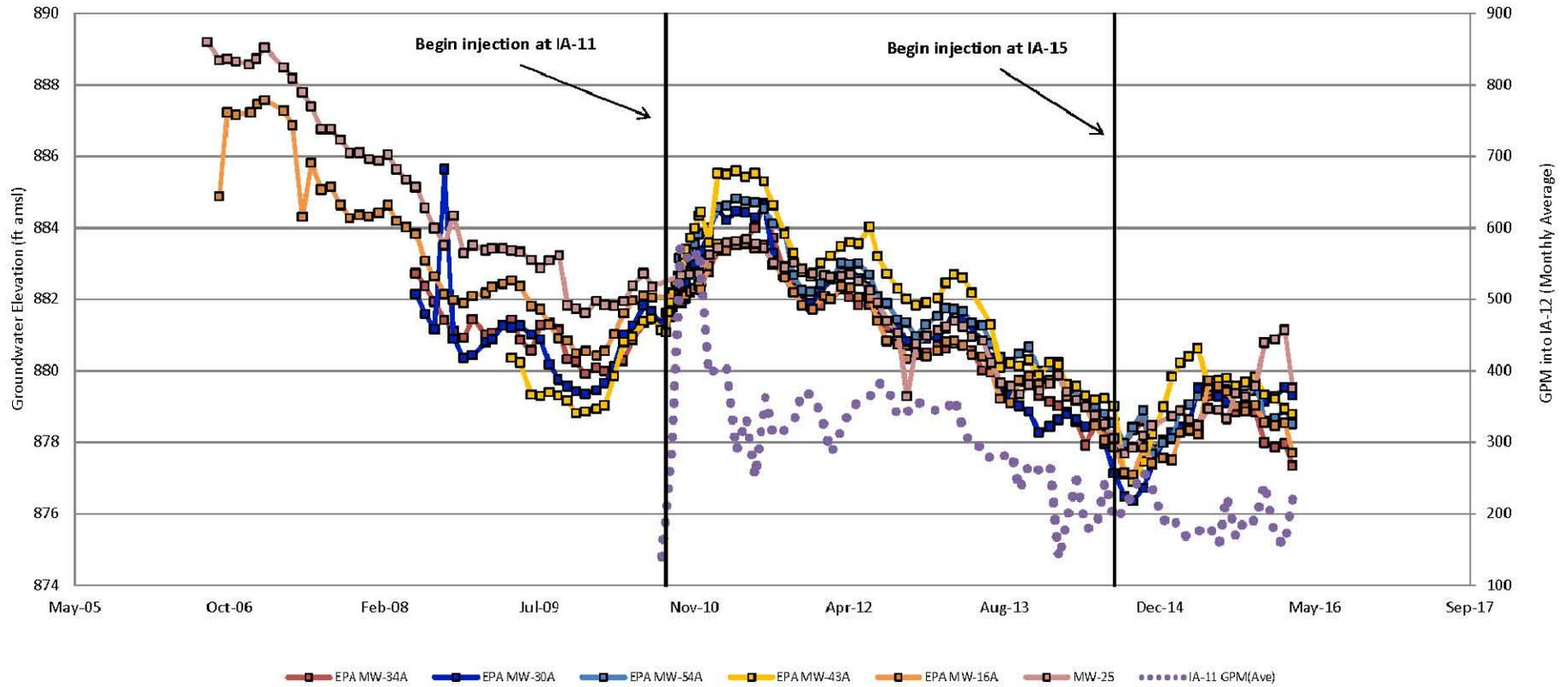
**GROUNDWATER ELEVATION & TCE
 CONCENTRATION TRENDS
 MW-16**

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: NONE

FIGURE NUMBER:

3

Hydrograph - IA-11 Area Wells Phoenix-Goodyear Airport-North Goodyear, AZ



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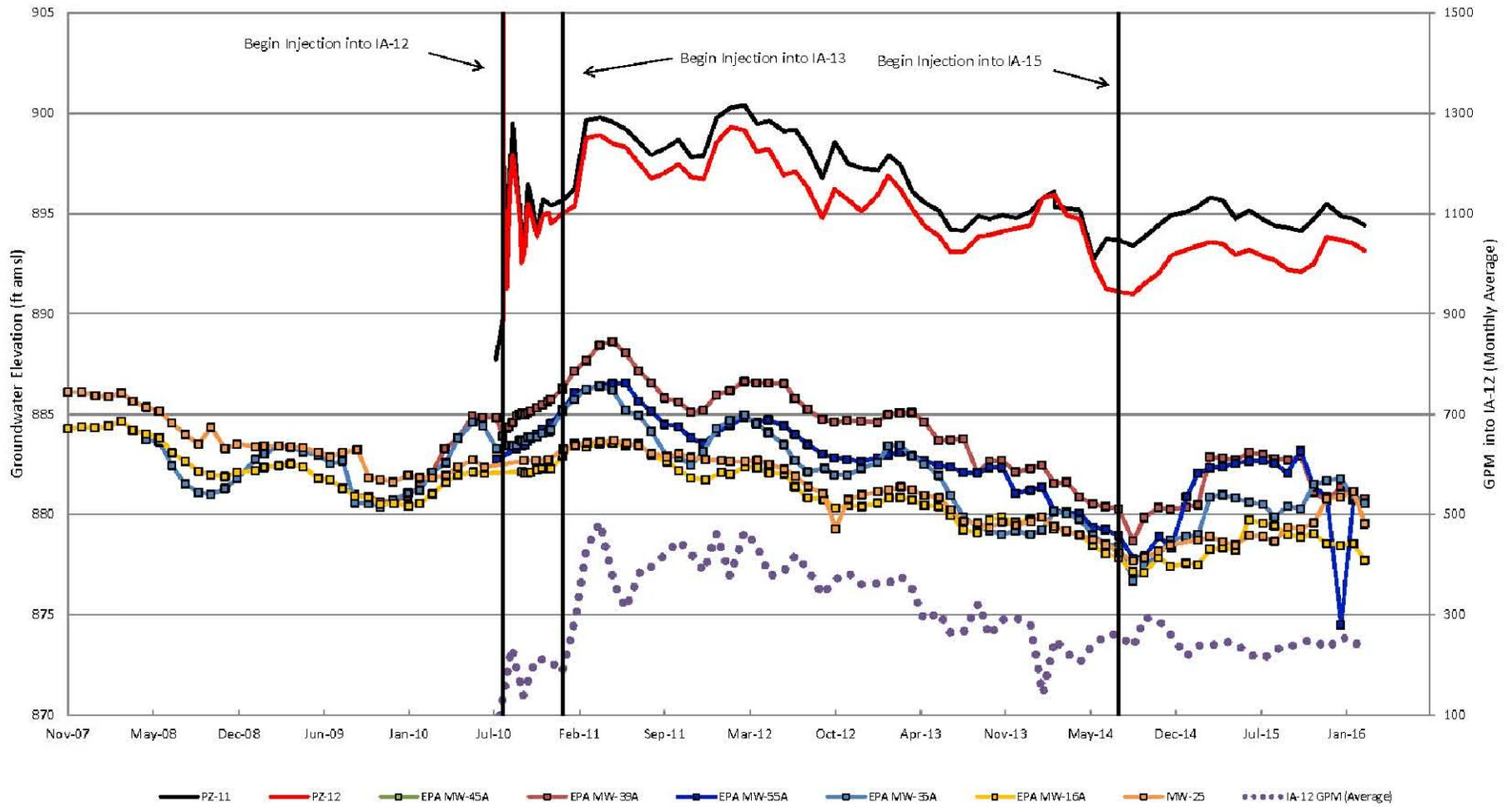
NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS INJECTION WELL IA-11 AREA

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: NONE

FIGURE NUMBER:

4

Hydrograph - IA-12 and IA-13 Area Wells Phoenix-Goodyear Airport-North Goodyear, AZ



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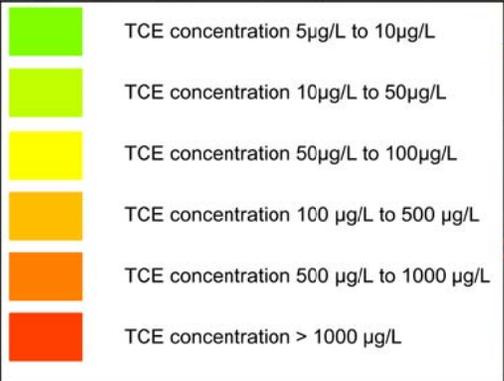
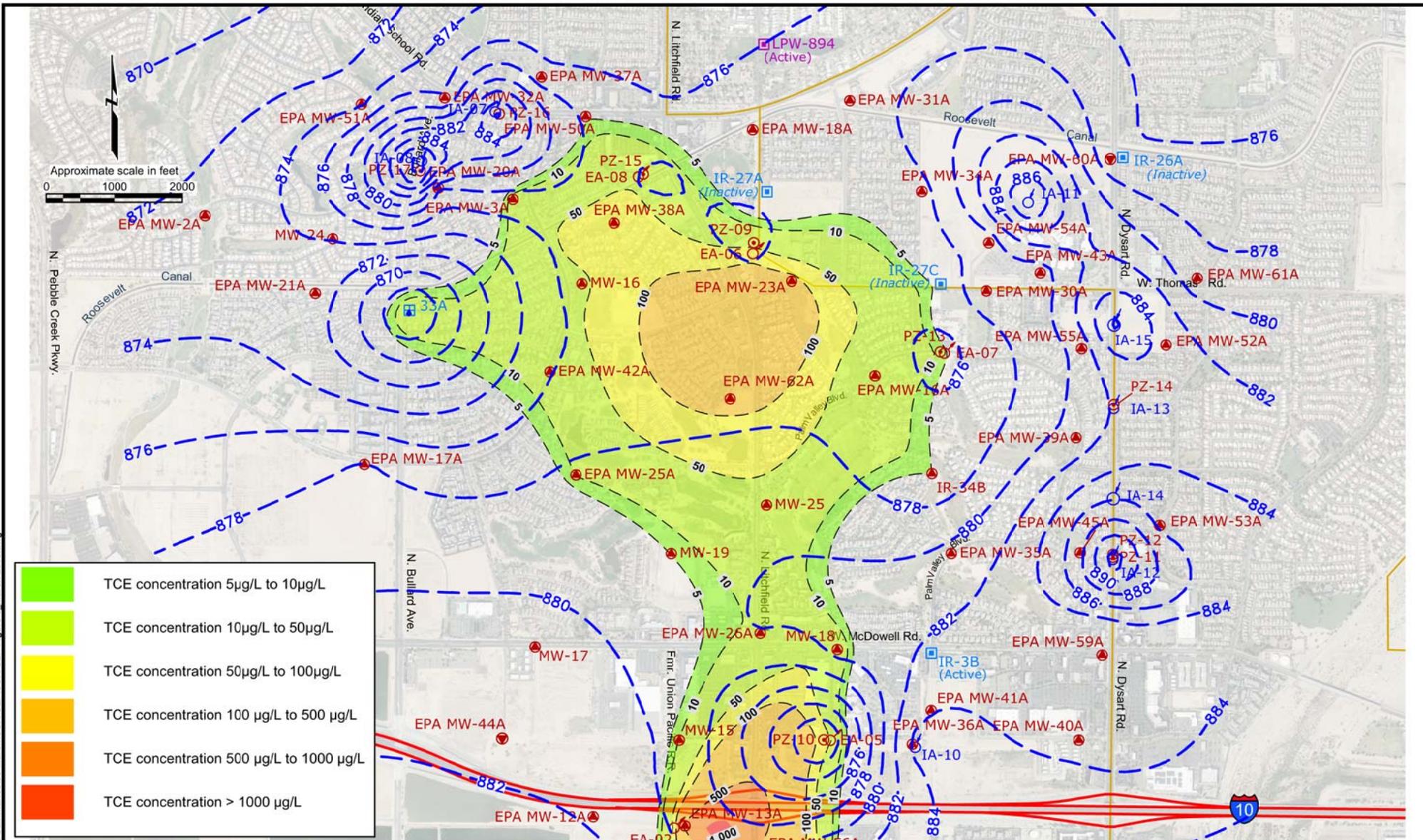
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NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS INJECTION WELL IA-12 and IA-13 AREA

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: NONE

FIGURE NUMBER:

5



Explanation

882 --- Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred. Based on March 2016 data.

--- Isocontour showing TCE concentration in µg/L. Dashed where inferred. Based on February 2016 data

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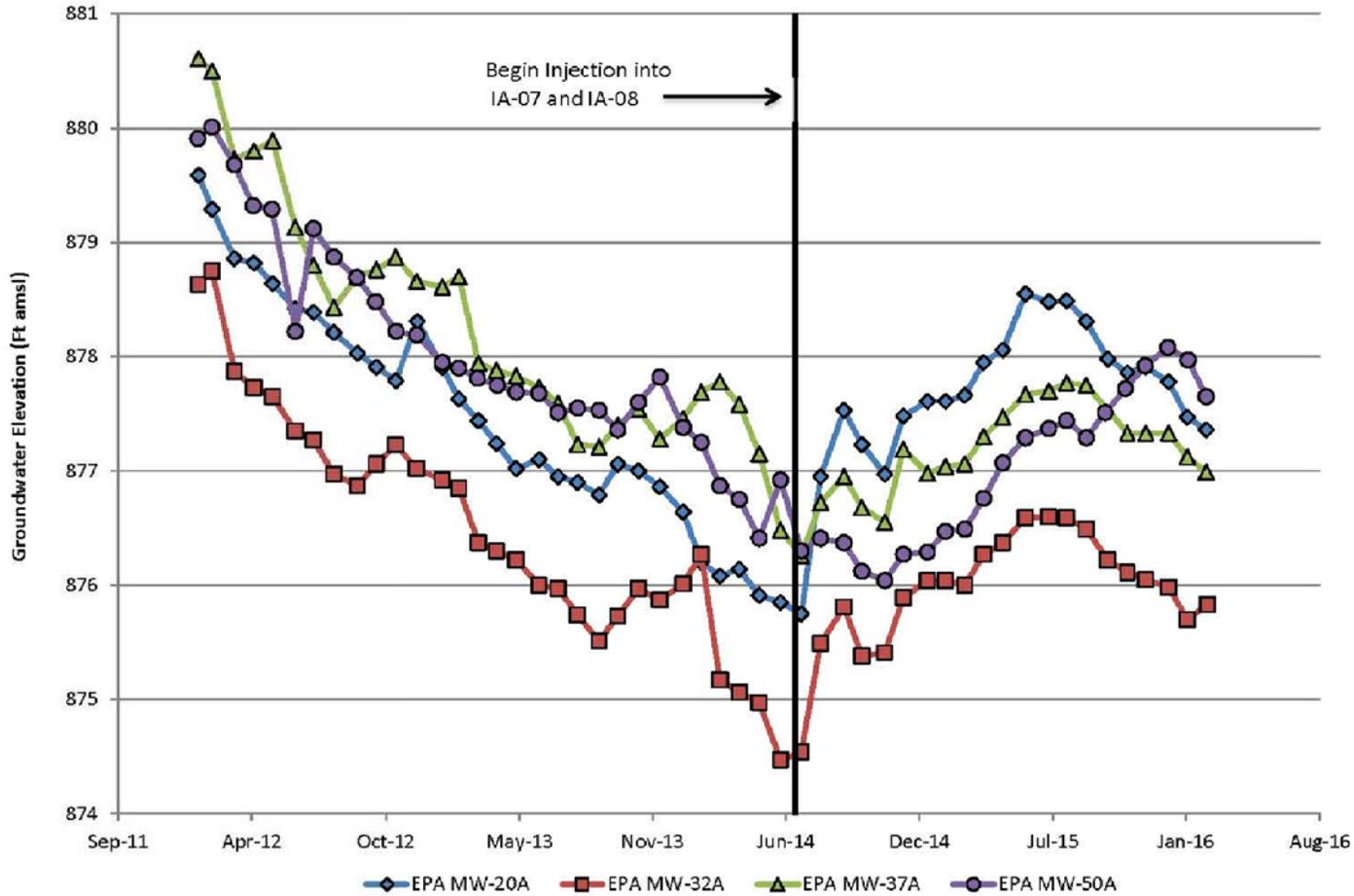
**SUBUNIT A GROUNDWATER CONTOURS
AND TCE PLUME NORTH OF I-10
February/March 2016**

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: 1" = 2000'

FIGURE NUMBER:

6

Hydrograph - IA-07 and IA-08 Area Wells Phoenix-Goodyear Airport-North Goodyear, AZ



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NW AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS INJECTION WELL IA-07 and IA-08 AREA

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 16-100E
DATE: 04-29-16	DATE: 04-29-16	DATE: 04-29-16	SCALE: NONE

FIGURE NUMBER:

7