



*Practical Solutions
In Groundwater Science*

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Via Electronic Mail

October 2, 2015

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 August 2015 through early September 2015.

RECENT MONITOR WELL RESULTS

Figure 1, attached, is a summary of recent monitoring results for the northern portion of the Site. The results from the August 2015 sampling event are generally consistent with prior results. Figure 2 is an updated plume boundary map based on the August 2015 sampling results. Notable findings or exceptions for the August results are summarized below.

- At EPA MW-13A (South of I-10 and west of Litchfield Road) TCE was detected at 778 ug/L, up from the previous months' concentration of 219 ug/L. This is generally consistent with the historical trend observed at this well attributed to seasonal variations in regional pumping patterns.
- At EPA MW-63A, located on the west side of Litchfield Road, approximately 500 feet north of Van Buren, TCE concentrations were observed at 50.4 ug/L, down from the previous months' concentration of 60.7 ug/L. Overall, the trend at this location remains an increasing trend. New extraction well EA-10 has been installed along Van Buren in the vicinity of former extraction well EA-04 to enhance on-site capture. Currently, EA-10 is operated in manual mode during business hours until the well can be integrated into the MTS automated control system.
- At EPA MW-48A, located on the east side of Litchfield Road, approximately ¼-mile south of Interstate 10, TCE concentrations were observed at 214 ug/L, down from the prior month's

result of 230 ug/L. Although seasonal variability has been observed in EPA MW-48A, historical trends have shown a gradual decline in peak concentrations since 2013.

- At EPA MW-51A, located in the Pebble Creek community located along W Robson Circle North, northwest of 147th Lane, TCE concentrations were at 5.2 ug/L, a slight increase from the previous month's result of 4.7 ug/L. Future results will be evaluated to confirm the trend; however, decreases are expected to result from injection being conducted in the northwest portion of the Site.
- At EPA MW-11A, located on La Vista Drive (approximately 0.1 mi south of Van Buren) ¼-mile east of Litchfield Road, TCE concentrations were 0.28 ug/L, which is consistent with historical results and suggest the June result was anomalous.
- At EPA MW-7A, located on Loma Linda west of La Jolla, TCE concentrations were 48.5 ug/L, down slightly from the prior month's concentration of 50.1 ug/L. Seasonal variations related to regional pumping patterns are observed in this location, however, an overall increasing trend is observed in this well due to the past injection of untreated water to the south of the site.
- At EPA MW-10A, located approximately 850 north of EPA MW-7A, TCE concentrations were 9.6 and 6.2 ug/L, down from the prior month's concentrations of 11 ug/L and 7.8 ug/L. Seasonal variations related to regional pumping patterns are observed in this well, however, an overall decreasing trend is observed in this well from its peak concentration of 130 ug/L observed in December 2012.

CONDUIT WELL UPDATE

Monitoring results for irrigation well 27C collected from Subunit A sample (above the inflatable packer) were 4.0 ug/L, up slightly from the previous months' result. 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) sample were 4.7 ug/L in August, down from the previous months' result of 5.3 ug/L. TCE concentrations in the deeper port appear to have stabilized near the aquifer water quality standard or 5 ug/L.

SOURCE AREA INVESTIGATION & REMEDIATION

Crane Co. submitted response to agency comments on the laboratory treatability work plan prepared for the source area remediation program. A number of issues remain to be resolved between the Crane

and agency teams regarding the approach to the laboratory column testing approach for the bioremediation portion of the remedy.

GROUNDWATER INVESTIGATION

Installation work on new monitor well EPA MW-25C, located on Van Buren east of Bullard Avenue, is complete. Work to install monitor well EPA MW-21C, located on the newly installed extension of 143rd Avenue south of Van Buren, is on-going.

PLUME CONTAINMENT

A water level contour map for August 2015 is included as Figure 3. Approximately 15.5% 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 August were 224 gpm, 231 gpm, and 127 gpm in IA-11, IA-12 and IA-15, respectively, (Figure 4). The average reported flow rates for IA-07 and IA-08 for August were 178 and 155 gpm, respectively, which are generally consistent with the previous months' rates (Figure 4). Groundwater elevations in the vicinity of injection well IA-12 were generally consistent with the previous month's monitoring event (Figure 5). Average flow rates, based on operational uptime, for the off-site extraction wells are shown on Figure 6. 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 and EA-07 for August were 392 gpm and 206 gpm, respectively. The average reported flow rate for EA-07 for August was up from the previous months' flow rate. The average reported flow rate for EA-08 for August was 339 gpm, consistent with the previous months' flow rate.

Operation of new extraction well EA-10, continues in manual (daytime) mode. Operation of new injection well IA-09, located in Loma Linda Park, also continues in manual mode.

* * * * *

Sincerely,
Clear Creek Associates, PLC

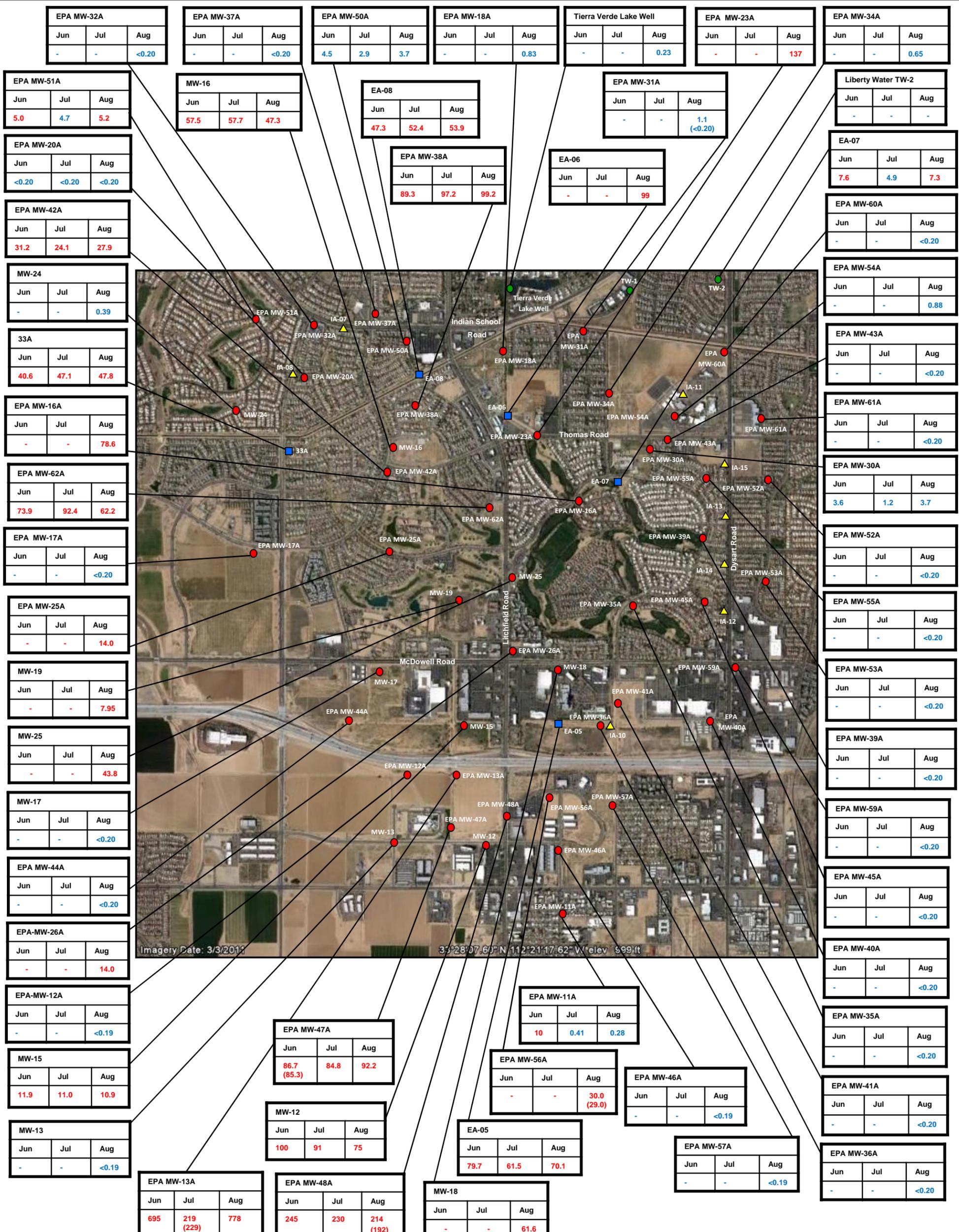


Thomas R. Suriano, R.G.
Principal Hydrogeologist

Attachments:

- Figure 1: Recent Analytical Results
- Figure 2: TCE Plume in Subunit A, August 2015
- Figure 3: Groundwater Elevation Contour Map, August 2015
- Figure 4: Average Injection Rates
- Figure 5: Groundwater Elevations in Monitor Wells near IA-12
- Figure 6: Average Extraction Rates

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



EXPLANATION

- Monitoring well location
 - Production well location
 - Extraction well location
 - ▲ Injection well location
 - Sep Sample Date (Month)
 - 20 TCE concentration in µg/L by EPA Method 8260B.
- Notes: Duplicate samples in parentheses. Results in Red are in excess of 5 µg/L. Results in Blue are less than 5 µg/L.



Recent Analytical Results PGA-North Site Goodyear, Arizona Figure 1

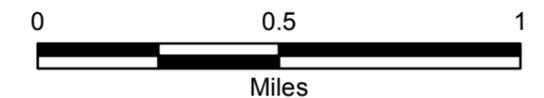


PGA North Superfund Site

Goodyear, Arizona

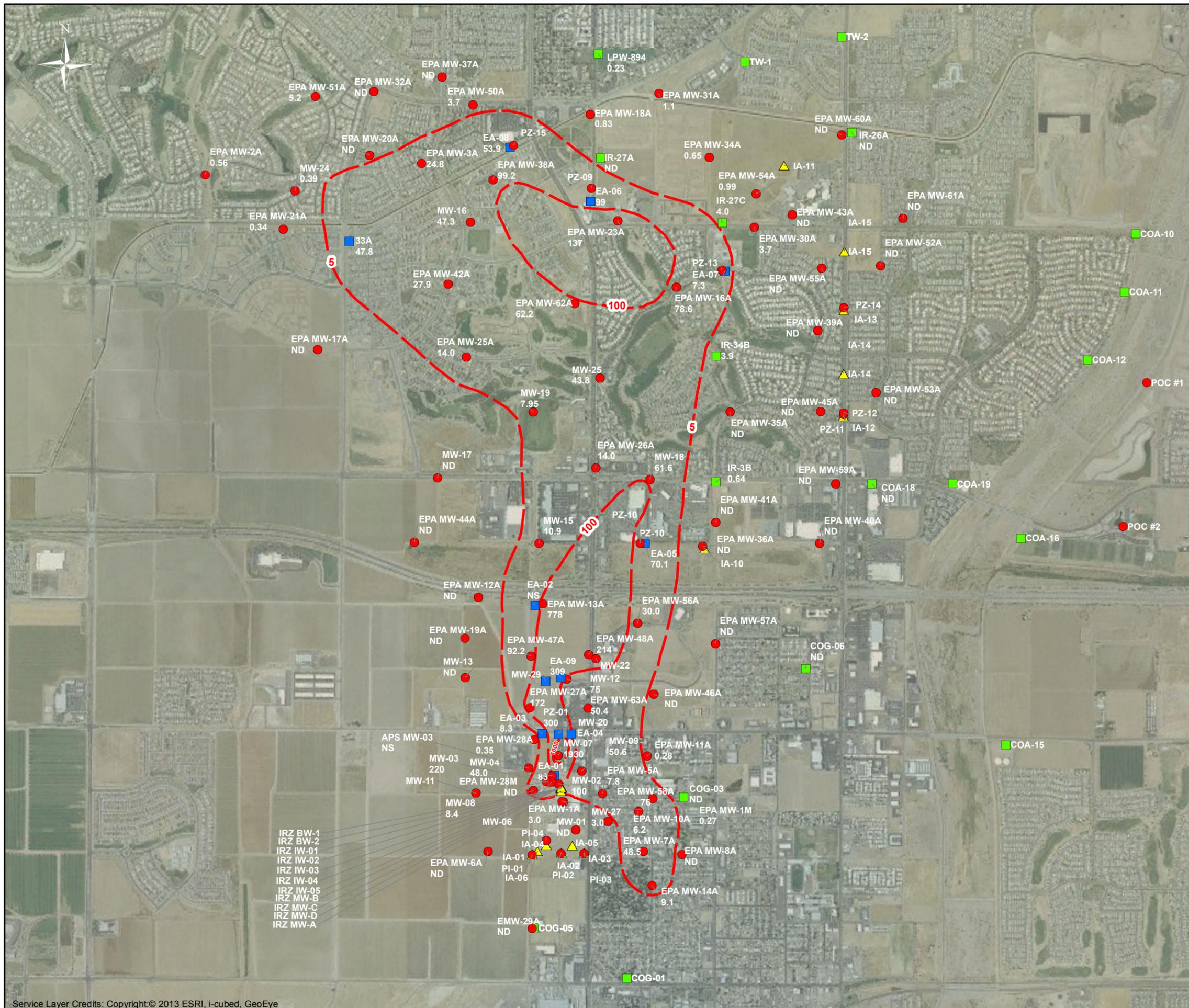
Legend

- Extraction Well
- ▲ Injection Well
- Monitor Well Subunit A
- Supply Well
- ⬢ TCE Contours, 5, 100, and 1,000 ug/L
- MW-19 Well Name
7.95 TCE Concentration (in ug/L)
- ND - Non Detect
NS - Not Sampled



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Figure 2 TCE Plume in Subunit A August 2015



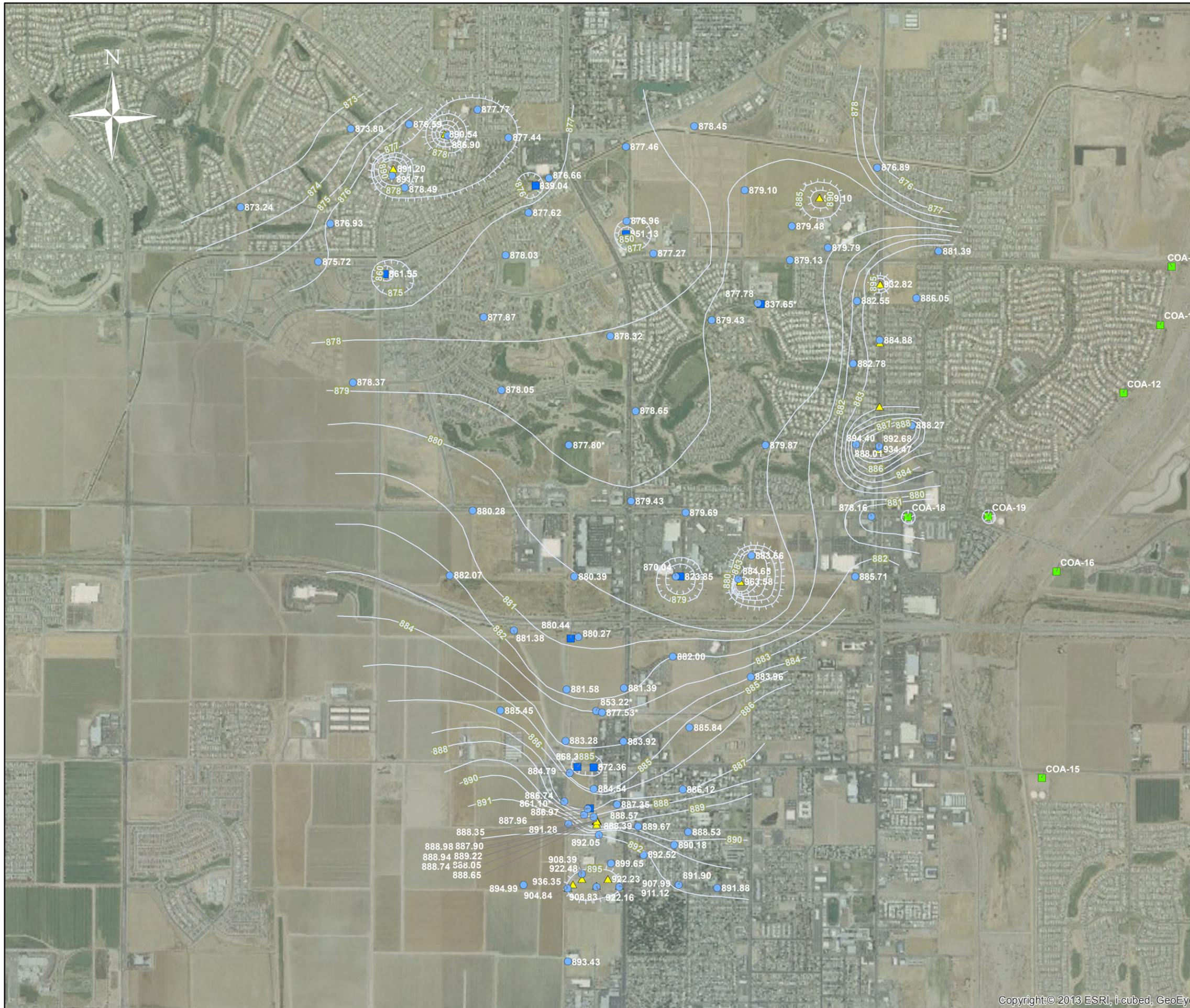
PGA North Superfund Site

Goodyear, Arizona

Legend

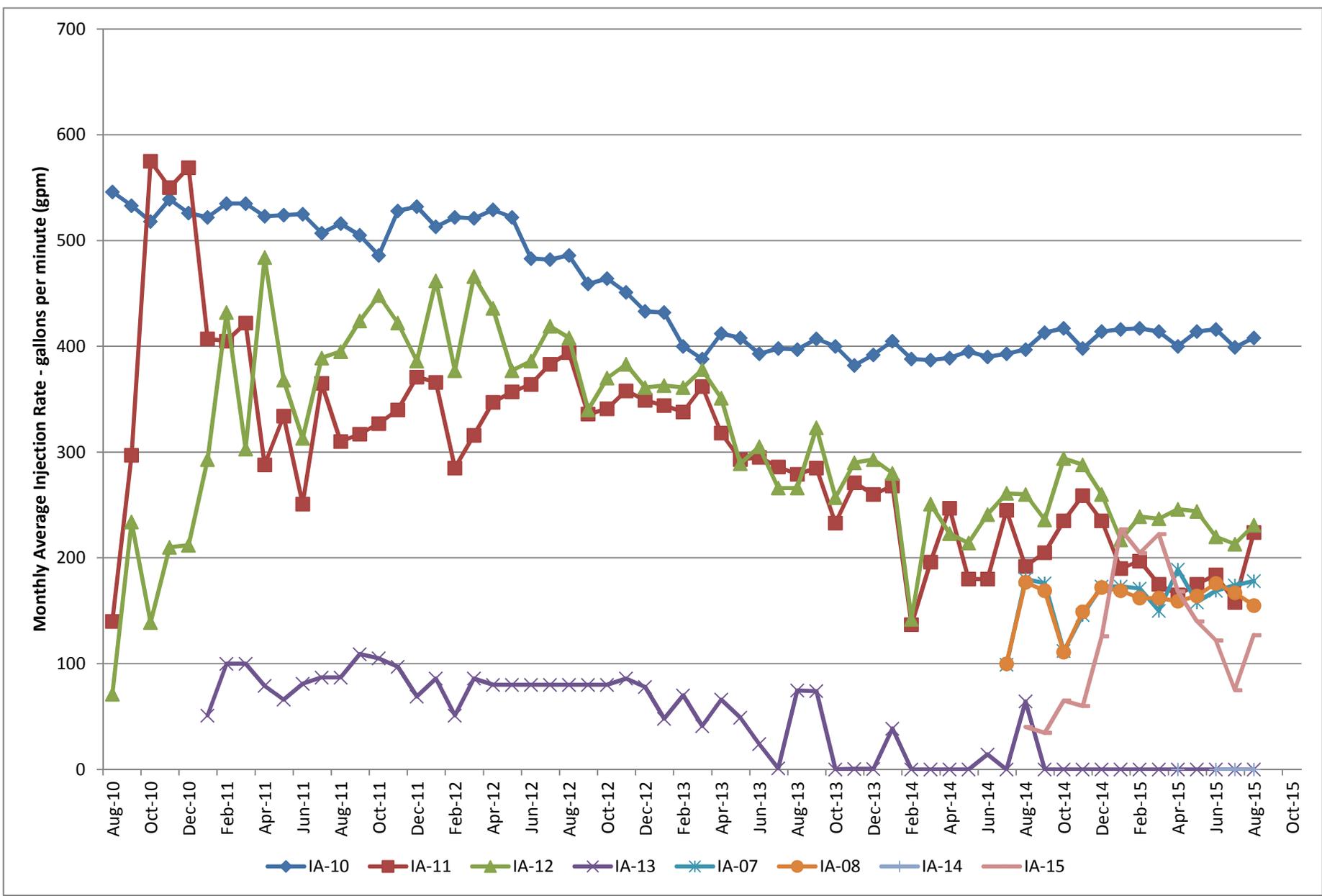
- Extraction Well
- ▲ Injection Well
- Monitor Well
- Supply Well
- Groundwater Elevation Contours (feet above mean sea level)

* indicates value not used for contouring

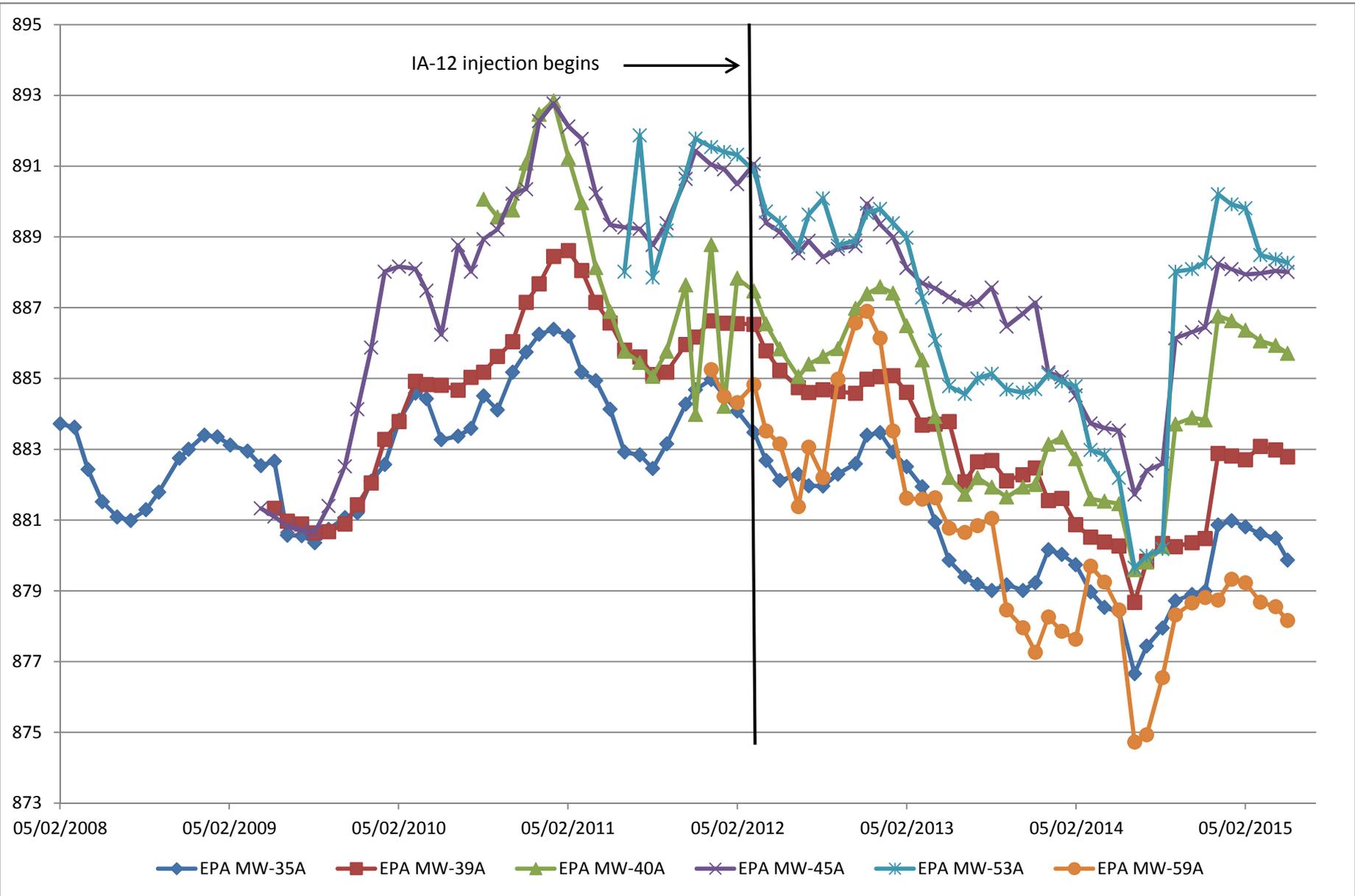


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Figure 3 Groundwater Elevation Contour Map August 2015

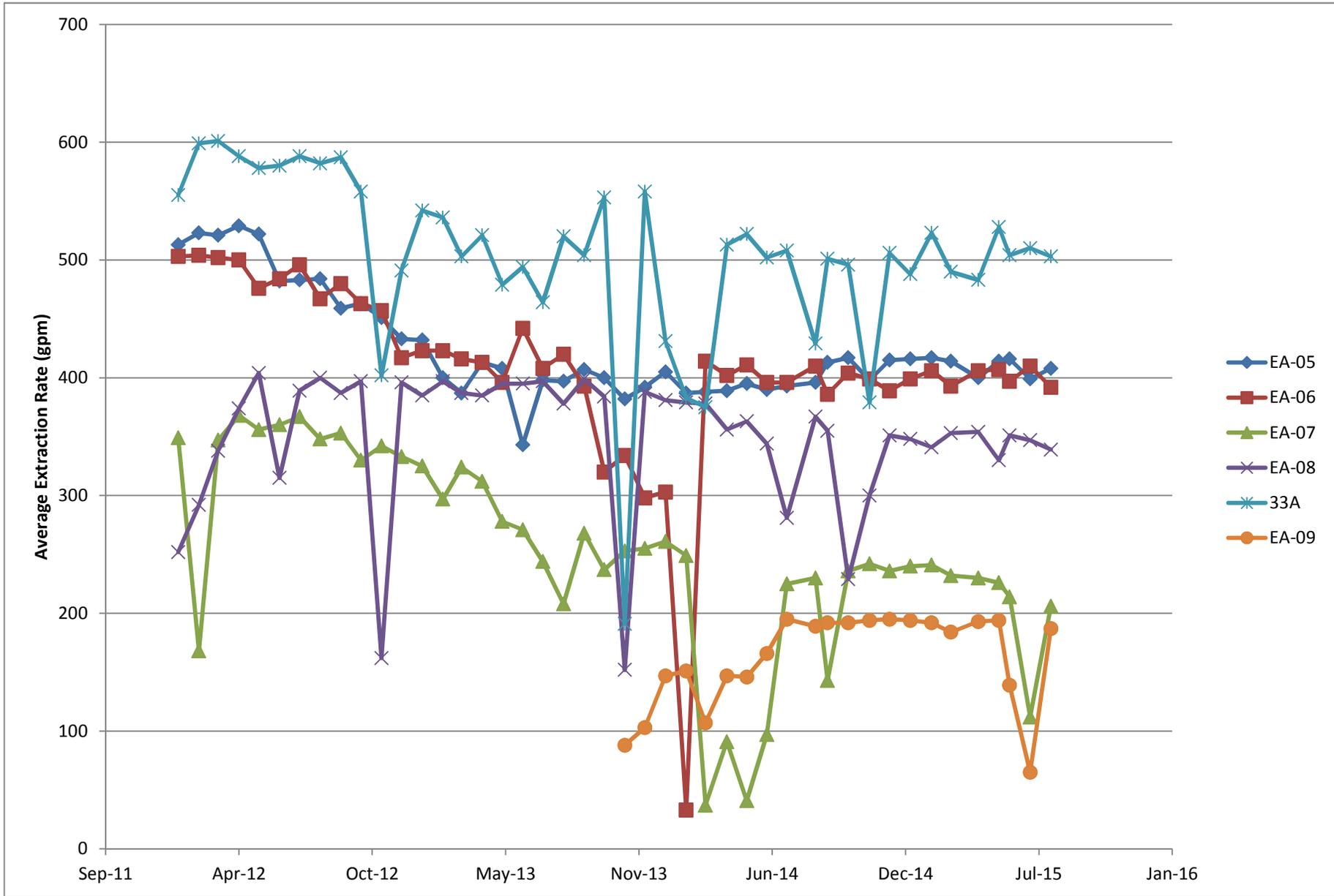


PGA-North Average Injection Rates					
Approved	Date	Author	Date	File Name	Figure
TRS		GJM	9/28/15	Injection Rates_2	4



Groundwater Elevations in Monitor Wells Near IA-12

Approved	Date	Author	Date	File Name	Figure
TRS		GJM	9/28/15	Injection Rates_2	5



PGA-North Average Extraction Rates

Approved	Date	Author	Date	File Name	Figure
TRS		GJM	9/28/15	Injection Rates_2	6

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 August 2015 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.

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, and injection well IA-15 came online August 2014 with all flow from IA-13 diverted to this well. 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 primarily 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 August 2015 are summarized below:

Northeast Area

- EA-05 – 408 gallons per minute (gpm)
- EA-06 – 392 gpm
- EA-07 – 206 gpm

- IA-10 – 408 gpm
- IA-11 – 224 gpm
- IA-12 – 231 gpm
- IA-15 – 127 gpm

Northwest Area

- EA-08 – 339 gpm
- 33A – 503 gpm
- IA-07 – 178 gpm
- IA-08 – 155 gpm

A. Treatment Systems and TCE Mass Removal

EA-05 GTS

During this reporting period, approximately 20.5 million gallons (Mgals) of groundwater was extracted and treated at the EA-05 GTS; removing 12.0 pounds of TCE.

EA-06 GTS

During this reporting period, approximately 30.2 Mgals of groundwater was extracted from extraction wells EA-06 and EA-07, and treated at the EA-06 GTS; removing 19.5 pounds of TCE.

EA-08 GTS

During this reporting period, approximately 17.0 Mgals of groundwater was extracted and treated at the EA-08 GTS; removing 7.7 pounds of TCE.

33A GTS

During this reporting period, approximately 25.4 Mgals of groundwater was extracted and treated at the 33A GTS; removing approximately 10.1 pounds of TCE.

B. Northeast Area Subunit A Groundwater Quality and Plume Extent

The August 2015 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, and 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 µg/L.

In the IA-12 area, since injection of treated groundwater commenced in August 2010, TCE concentration trends for key performance monitor wells continue to indicate that the Subunit A plume continues to be 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 (August 2015) 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 by two orders of magnitude. The most recent (August 2015) TCE concentration for this well is 3.9 µg/L, which is below the MCL.
- In monitor wells EPA MW-39A, EPA MW-40A, EPA MW-45A, EPA MW-55A and EPA MW-59A the most recent (August 2015) TCE concentrations have remained below the laboratory detection limit of 0.20 µg/L.

Similarly, in the area of injection well IA-11 and IA-15, TCE concentrations have decreased in monitor wells EPA MW-30A, EPA MW-43A, and EPA MW-54A. For example:

- In monitor well EPA MW-30A, concentrations have decreased from 29 µg/L in August 2010 to 3.7 µg/L (below the MCL) in August 2015;
- In monitor well EPA MW-43A, concentrations have decreased from 6.3 µg/L in August 2010 to below the laboratory detection limit of 0.20 µg/L in August 2015.
- In monitor well EPA MW-54A, concentrations have decreased from 28 µg/L in October 2010 to 0.88 µg/L (below the MCL) in August 2015.

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 August 2015 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, EPA MW-50A, 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 wells (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 3.7 µg/L in August 2015 (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, TCE concentration was 5.2 µg/L in August 2015 (Figure 1). 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 August 2015 TCE concentration was 47.3 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 August 2015 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 August 2015 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 October 2015

- Continued operation and maintenance of the existing groundwater treatment systems.
- Monthly groundwater sampling and 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.

Regards,

Harry Brenton, RG

Director of Hydrogeological Services

Matrix New World Engineering, Inc.

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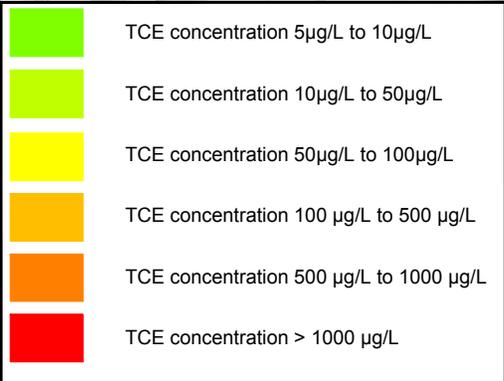
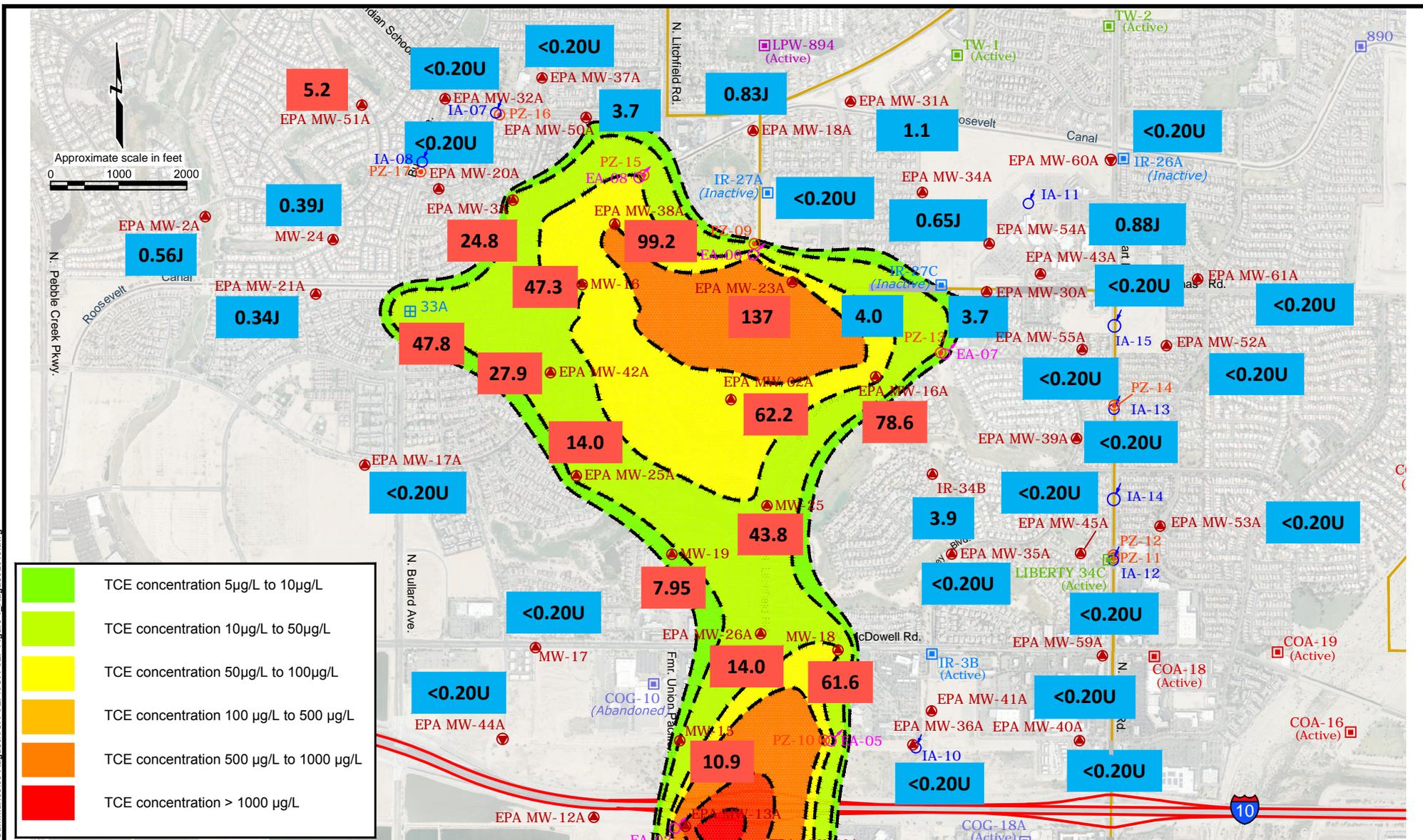
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Explanation

— Isocontour showing TCE concentration in µg/L, dashed where inferred. Based on August 2015 data.

0.20U TCE Concentration < 5 µg/L
10.9 TCE Concentration ≥ 5 µg/L

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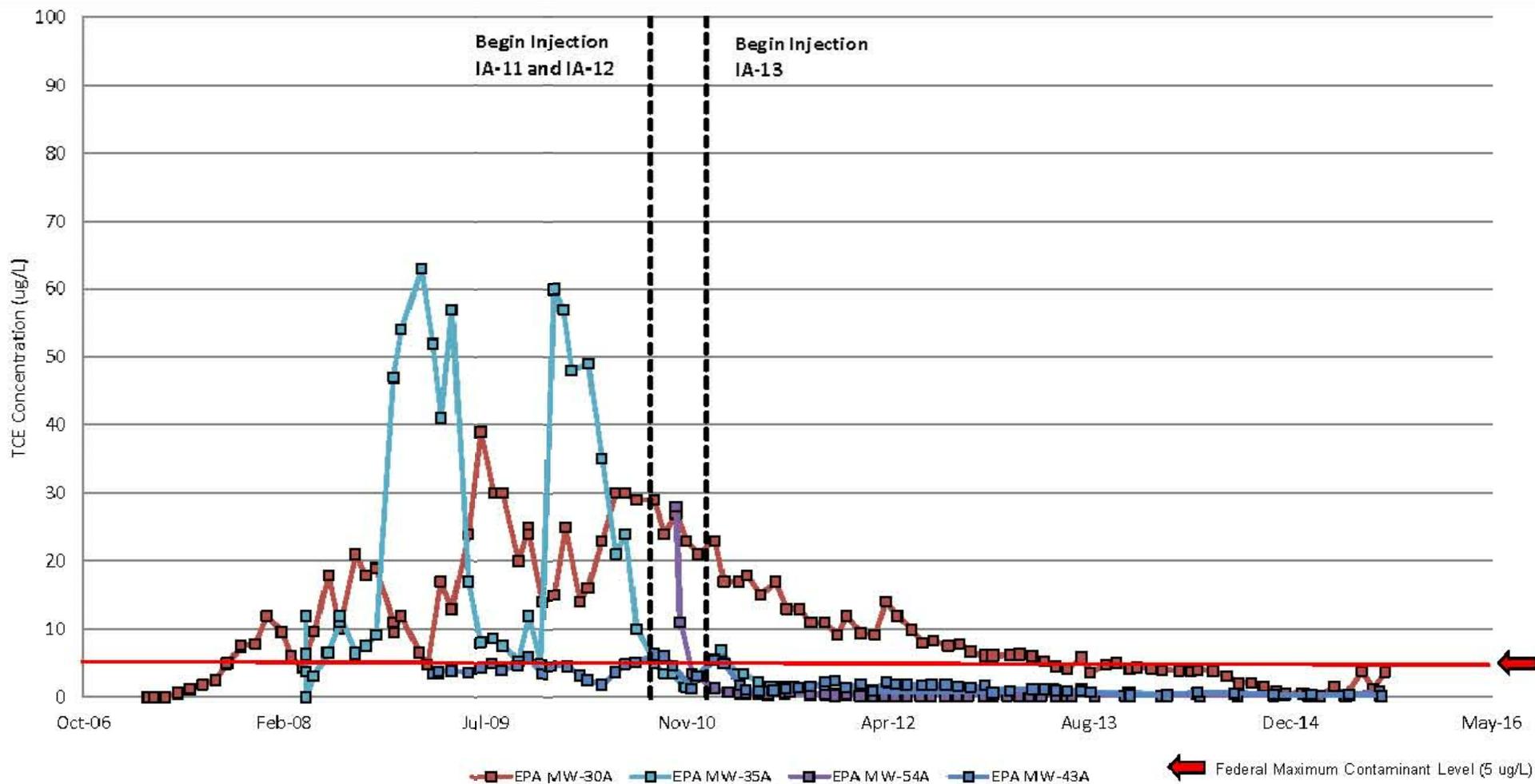
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 Fax: 973-240-1818
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SUBUNIT A TCE CONCENTRATIONS AND
 GROUNDWATER CONTOURS NORTH OF I-10
 AUGUST 2015

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	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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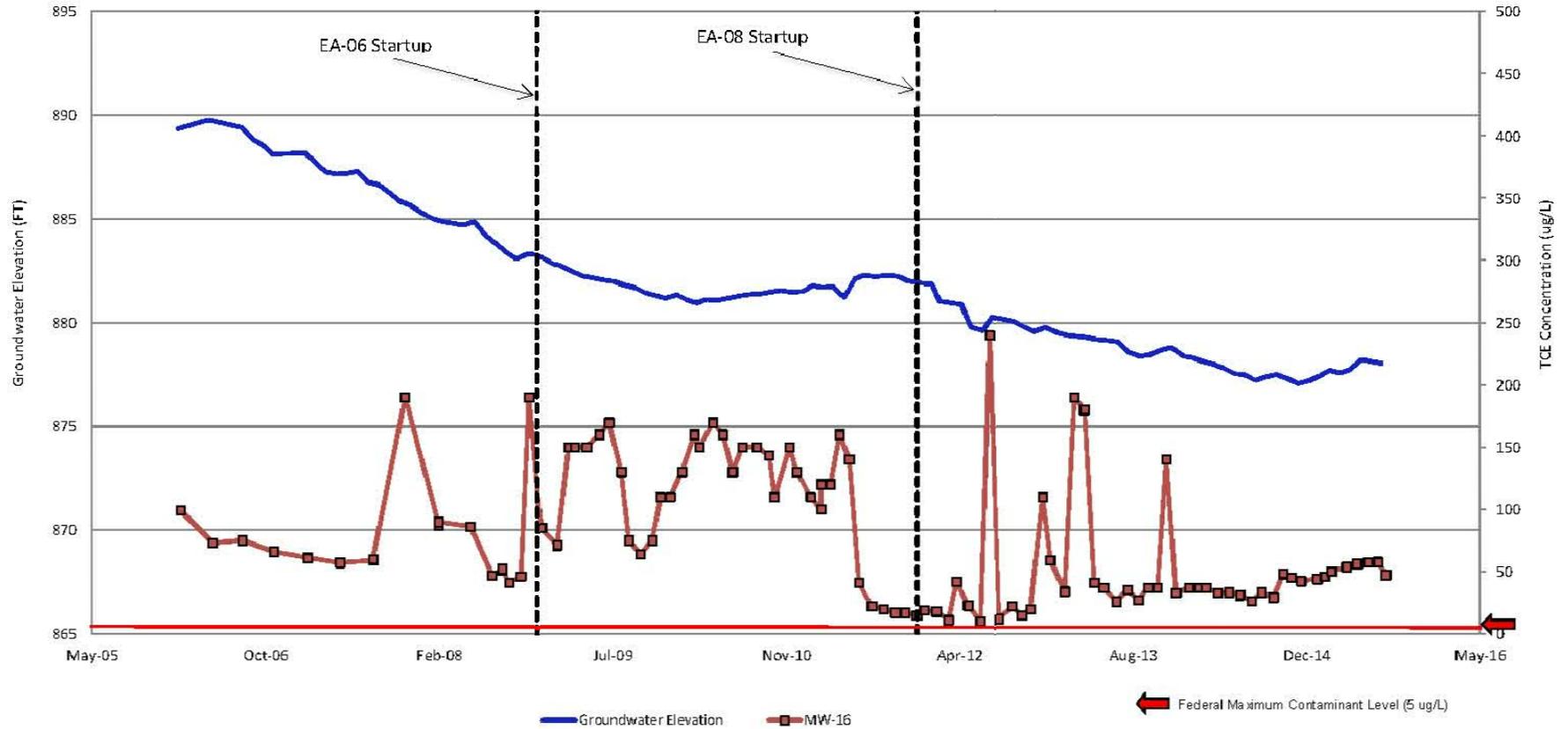
TCE TREND GRAPHS-PERFORMANCE
MONITOR WELLS - SUBUNIT A
NORTHEAST AREA

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	SCALE: NONE

FIGURE NUMBER:

2

MW-16 GROUNDWATER LEVELS and TCE CONCENTRATIONS (2006 - 2015)
Phoenix-Goodyear Airport-North
Goodyear, AZ



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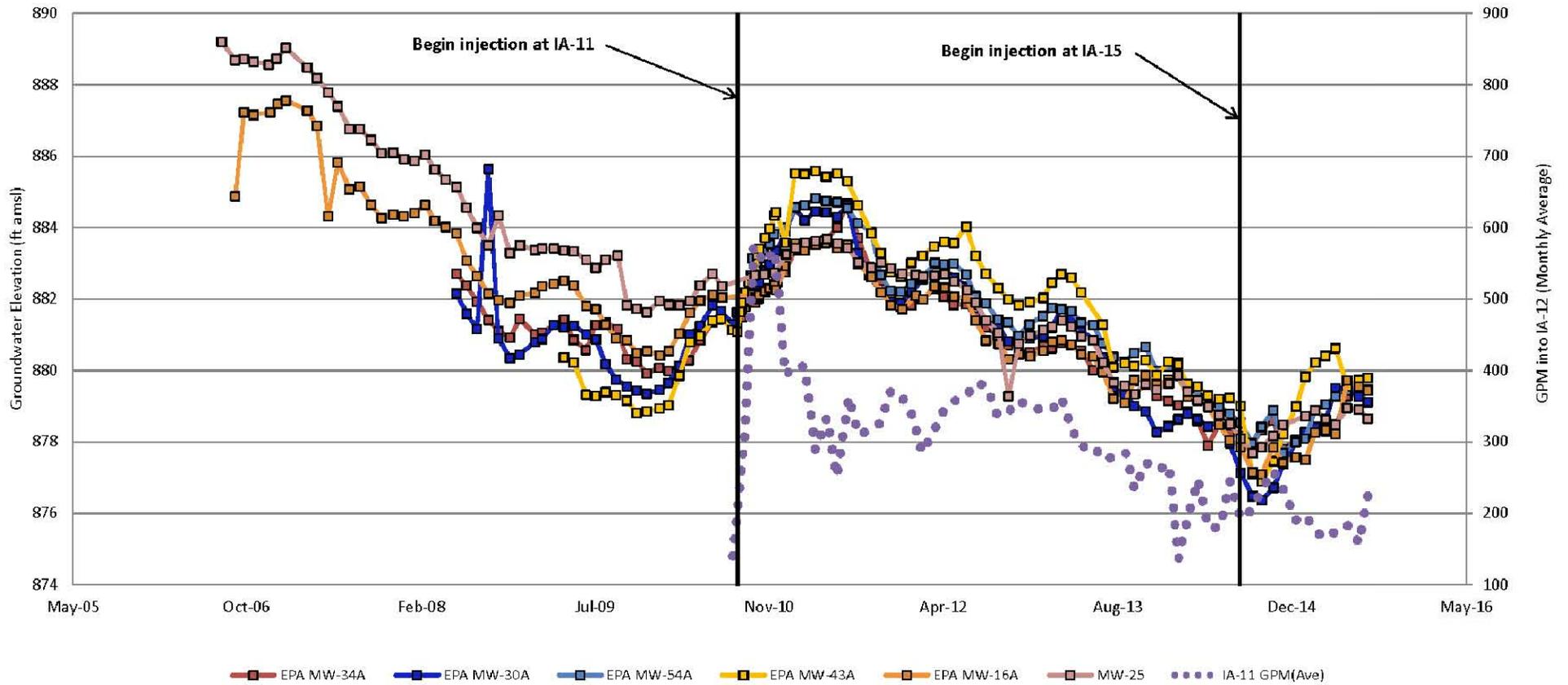
**GROUNDWATER ELEVATION & TCE
 CONCENTRATION TRENDS
 MW-16**

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DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	SCALE: NONE

FIGURE NUMBER:

3

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



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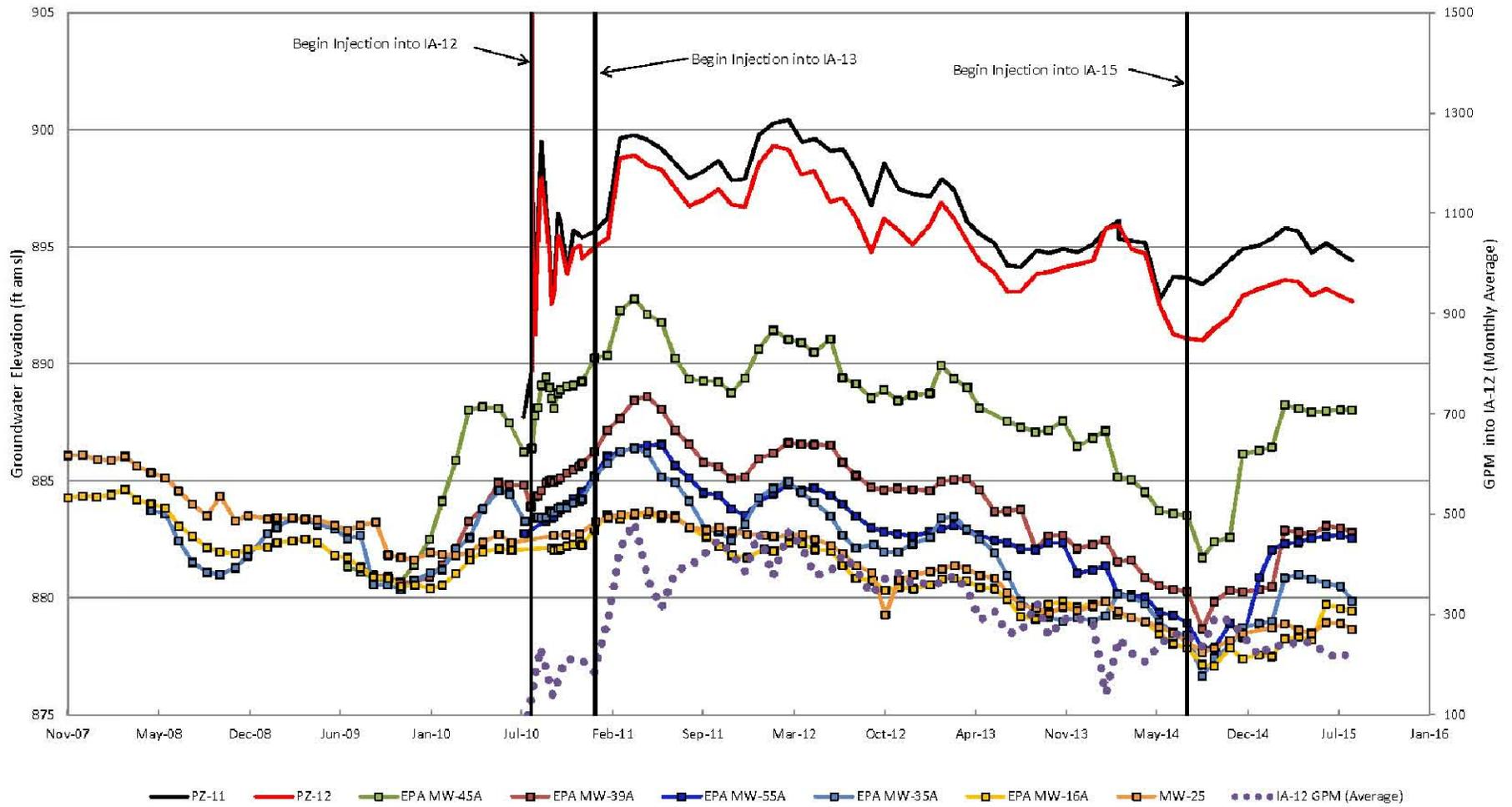
NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS INJECTION WELL IA-11 AREA

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DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	SCALE: NONE

FIGURE NUMBER:

4

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



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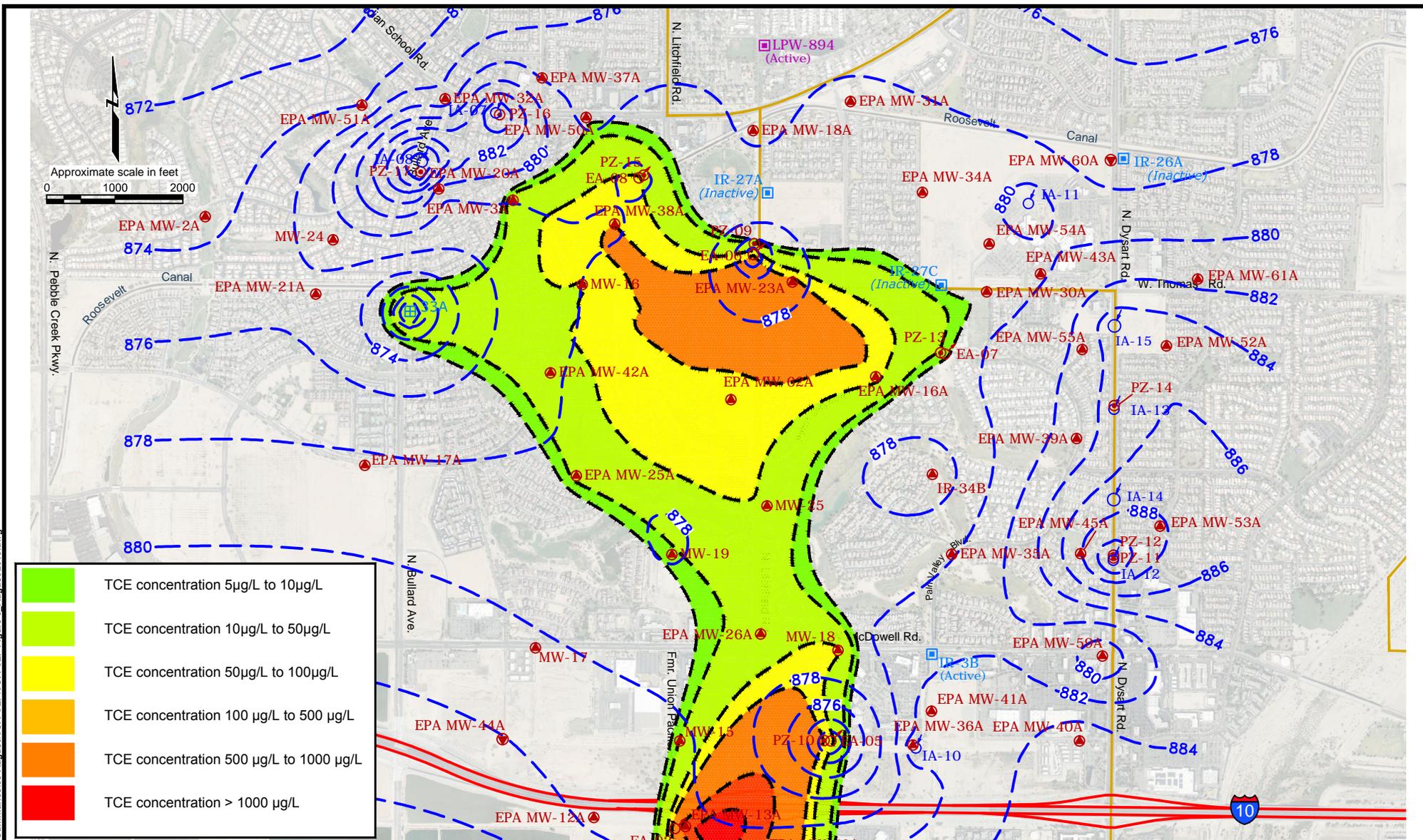
NE AREA SUBUNIT A GROUNDWATER ELEVATION TRENDS INJECTION WELL IA-12 and IA-13 AREA

DRAWN BY: AR	DESIGNED BY: JLM	APPROVED BY: HB	PROJECT NUMBER: 15-100E
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FIGURE NUMBER:

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	TCE concentration 5µg/L to 10µg/L
	TCE concentration 10µg/L to 50µg/L
	TCE concentration 50µg/L to 100µg/L
	TCE concentration 100 µg/L to 500 µg/L
	TCE concentration 500 µg/L to 1000 µg/L
	TCE concentration > 1000 µg/L

Explanation

882 Potentiometric Isocontour showing groundwater elevation in feet above MSL; dashed where inferred

Isocontour showing TCE concentration in µg/L, dashed where inferred. Based on August 2015 data.

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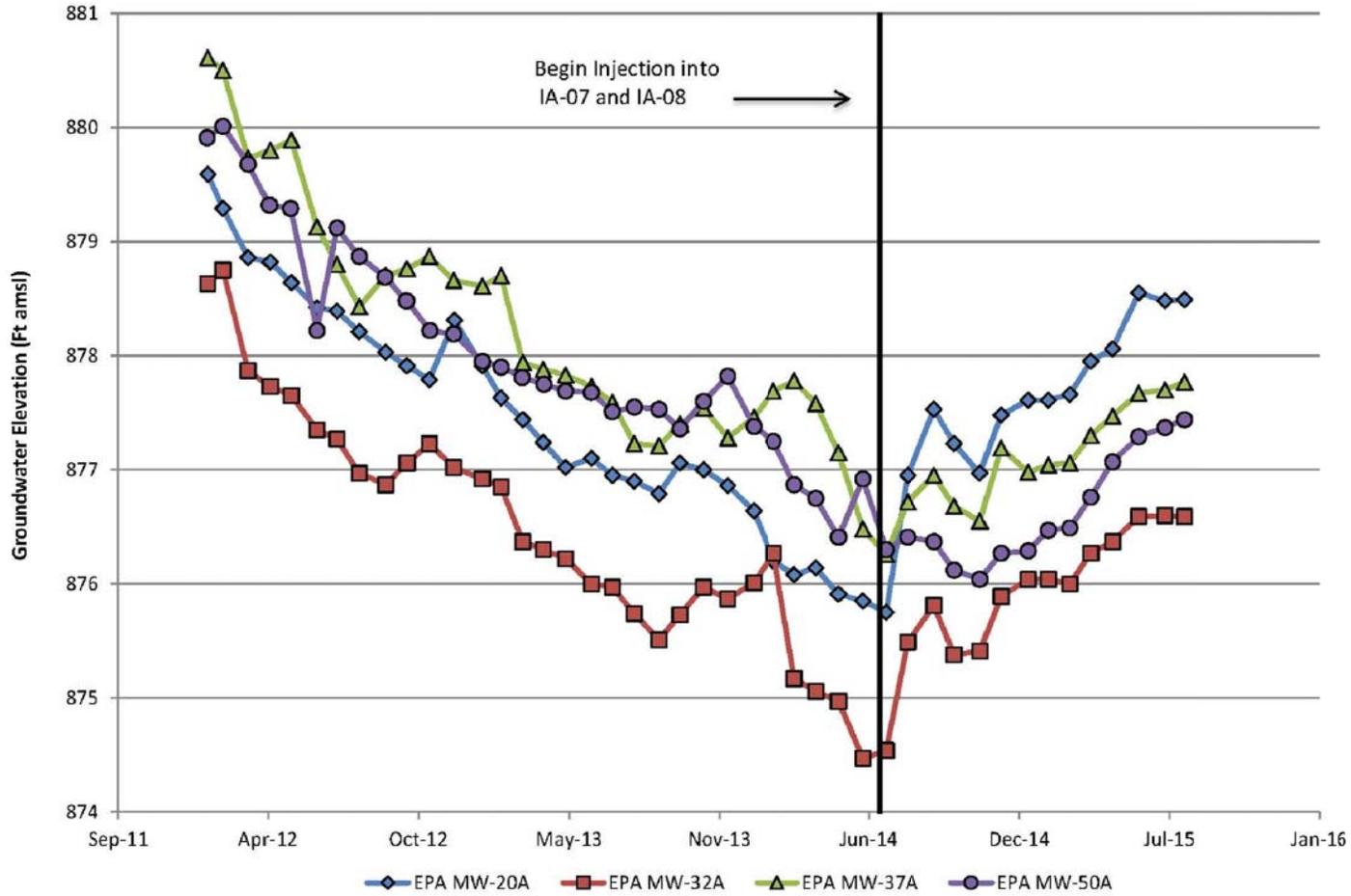
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SUBUNIT A GROUNDWATER CONTOURS
 AND TCE PLUME NORTH OF I-10
 AUGUST 2015

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DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	SCALE: 1" = 2000'

FIGURE NUMBER:
6

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



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PHOENIX - GOODYEAR AIRPORT - NORTH SUPERFUND SITE
404 S. LITCHFIELD ROAD GOODYEAR
MARICOPA COUNTY, ARIZONA

MATRIXNEWORLD
Engineering Progress

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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: 15-100E
DATE: 09-24-15	DATE: 09-24-15	DATE: 09-24-15	SCALE: NONE

FIGURE NUMBER:

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