

**Phoenix-Goodyear Airport (PGA) Area/Western Avenue Plume
Community Advisory Group (CAG) Meeting**

Thursday, August, 07, 2014

6:00 p.m. to 8:30 p.m.

**Estrella Community, Starpointe Residents Club
17665 W. Elliot Road, Goodyear, AZ 85323**

FINAL MINUTES

CAG Members in Attendance:

Lisa Amos
David Ellis
Karl Havlicek
Diane Krone
Jeff Raible - Co-chair
Frank Scott – Co-chair

ADEQ Staff in Attendance:

Patrick Shinabery, PGA North Project Manager
Brian Stonebrink, PGA South Project Manager
Tina LePage, Manager, Remedial Projects Section
Wendy Flood, Community Involvement Coordinator
Caroline Oppelmen, Community Involvement Coordinator
Bradley Baker, Hazardous Waste Inspections Department

Facilitator:

Dr. Marty Rozelle

EPA Staff in Attendance:

Catherine Brown
Dave Becker

Others in Attendance:

Larry Phillip, ITSI Gilbane; Demetria Harrison, ITSI Gilbane; Anita Hairshn, ITSI Gilbane; Kurt Baugh, ITSI Gilbane; Harry Brenton, Matrix New World Engineering; Stephanie Lyn Koehne, AMEC; Namisha Patel, AMEC; Kevin Miller, AMEC; Dave Becker, Army Corp of Engineers; Tom Suriano, Clear Creek Associates; Chris Legg, Brown & Caldwell; Paula (Chang) Panzino, Haley & Aldrich; Gretchen Erwin, City of Goodyear; Ron Clark, Goodyear Tire and Rubber Company; Michael R. Long, Hargis+Associates, Inc.; Brian Waggle, Hargis+Associates, Inc.; Kathy Hunter, Hargis+Associates, Inc.; Julie Riemenschneider, City of Phoenix Aviation Dept.; Joe Husband, City of Phoenix Aviation Dept., Marilyn Havlicek; Barb Zednik; David Iwanski; Sarah Wilkinson; Chris Legg

Welcome and Introductions – Co-Chair Jeff Raible called meeting to order. Introductions were made by CAG Members and audience.

PGA NORTH SITE – Catherine Brown, EPA Project Manager (see attached presentation)

Ms. Brown provided an update on current trends, analysis and groundwater statistics; recent activities; Record of Decision (ROD) status update; Northwest injection pipeline and well installation and upcoming plans.

A CAG member asked how the proposed wells EA-10 & IA-09 at the southeastern portion of Subunit A plume get approved and what would be the timeframe for installation. An EPA consultant stated the equipment has already been ordered. Their estimated installation date is the end of the first quarter in 2015.

A CAG member asked if the new wells and pipeline are being done in an effort to protect well COG-03. An EPA consultant responded that there are several monitor wells within Subunit A in the area of COG-3 that show the impact of the water from the unintentional re-injection of untreated groundwater that occurred in 1999 or 2000. The consultant also indicated that COG-03 is in Subunit C and the new wells are intended to help capture in Subunit A. The new wells will help to protect that area and to increase effectiveness of the hydraulic barrier associated with the remediation.

The same CAG member asked that due to the lag between sampling and results, does there appear to be an increased detection in contaminants in Subunit B and Subunit C around COG-03. An EPA consultant responded that there are three wells in Subunit C, two are non-detect and the third hovers around the .05ppb mark and decreasing trends are observed.

A CAG member asked about the fluctuating levels of contaminants in Well 51-A. An EPA consultant responded that since that sampling event, the concentrations have gone below the 5 ppb mark. A couple of injection wells have been installed in the area and the most recent data indicates there should be some positive results. The injection should reduce concentrations in the area to below 5 ppb. EPA also stated that the agreement with the consultant/responsible party is whenever a well exceeds the 5 ppb for three months they are required to install another monitoring well.

A CAG member wanted to have clarification on the start-up processes for new wells IA-07 and IA-08. An EPA consultant reviewed the process for the CAG member stating at the beginning of the period only 80 gallons per minute are injected per well, and only during the day with staff on site. After the initial start-up period approximately 6-8 weeks, and after EPA approval, the wells were put online fulltime with 180 gallons per minute for each injection well.

A CAG member wanted to confirm that well 33-A was the only well where treated water is being dispersed into the RID. An EPA consultant responded that was correct and that part of the water is also being used golf course turf irrigation.

PGA SOUTH SITE – Brian Stonebrink, ADEQ Project Manager (see attached presentation)

Mr. Stonebrink presented a quarterly update on current trends, analysis and groundwater remediation and data; recent activities; proposed plan and upcoming plans.

A CAG member wanted to know when the last detection of TCE over 5 ppb was detected at Subunit C at the northern part near the airport. ADEQ stated it was around May, 2012.

WESTERN AVENUE – Brian Waggle, Hargis + Assoc. (see attached presentation)

ADEQ consultant from Hargis +Associates, Mr. Brian Waggle presented a quarterly update on current PCE and groundwater level trends, recent activities; the proposed remedial action plan(PRAP) and upcoming activities.

A CAG member asked why the direction of groundwater flow is reported to the west/northwest. The ADEQ consultant stated the maps present contours of equal groundwater elevation across the site. Groundwater moves from areas from higher head to lower head or elevation. It is an accepted industry practice that the approximate direction of groundwater flow is perpendicular to the contours. In general, groundwater flow in the Salt River Valley is to the west and that is what is indicated. The CAG member asked if the direction of groundwater movement was man made. The consultant stated that there are no pumping wells in this site area in Subunit A that would move the plume.

A CAG member asked if the number and type of comments to the PRAP could be shared. ADEQ consultant stated comments were received from the CAG, and individual citizen from Goodyear, the EPA, The Cities of Goodyear and Avondale, the law firm of Quarles and Brady on behalf of Crane and Goodyear Tire and Rubber. The comments are public record and each comment will be responded to by ADEQ in a Response to Comments Summary prepared for the PRAP.

Call to the Public: None

An audience member inquired about the action level for Chromium. An ADEQ representative stated 100 parts per million or 100 micrograms per liter.

An audience member asked if the chemicals used in the injection were cleared of byproducts so it doesn't end up in the aquifer with no unintended consequences of the injection. EPA responded, the purpose of the carbon treatment system is to remove the contaminants. After treatment the water is tested to confirm that levels are below the standard. ADEQ stated that the carbon captures any contaminant, it is replaced regularly and then the carbon is regenerated before it is put back into the system.

The same audience member wanted to know when water is reused, say for irrigation in the park is it labeled as such for the public. An ADEQ representative stated that the water is treated to drinking water levels it is just not being used for that purpose. Yes, there are signs at the reservoir at the park as well as on the fence at the ballpark that indicate that the water is recycled and there is a sign with contact information on it for those with any questions.

CAG Business:

- ✓ Motion to accept minutes from the May 1, 2014 and May 21, 2014 meetings, unanimous acceptance of both.
- ✓ Notification that Frank Scott will be resigning his position on the board due to other outside commitments and term limits for the City Council.
- ✓ Review of application for membership of David Iwanski as a replacement for Mr. Scott.
- ✓ Notification that once the site has moved into the Record of Decision the project comes under the purview of the EPA and the CAG will be disbanded. The last CAG will be the November 6th.
- ✓ Board Continuation under EPA purview

- EPA guidelines for forming a Community Groups is requested
 - Want to Stay as a group / board
 - Cities of Avondale, Goodyear and Litchfield park supports and want this group's continuation.
 - City of Goodyear expressed its desire to help the group by providing resources, e.g. meeting locations.
 - Don't want the group too big
 - Keep existing Charter's Mission Statement
 - Keep a CIC, no need for a facilitator
 - Want to continue to meet Quarterly
 - With EPA attendance (CIC or Ms. Brown)
 - Wants to continue to host open houses or community meetings once-a-year
 - Wants to continue to received more in-depth minutes rather than just action items
 - Want to continue to receive quarterly updates (Hot Topics)
 - Want to continue to receive agenda's
- ✓ Less statistical information and more about project activity and problems

Future Meeting Agenda Discussion

The next CAG meeting is scheduled for Thursday, November 6, 2014 at t the Pebble Creek Community beginning at 6:00 p.m.

Action items:

1. Western Avenue ROD presentation
2. PGA North Presentation
3. EPA CIC to present Community Involvement Plan (CIP)
4. Separate CIP meeting with EPA
5. Determine if CAG wants to have an Administrative meeting to return Comments to revised PRAP with public comments added.

Adjournment



Phoenix-Goodyear Airport: North Superfund Site Update

August 7, 2014

Community Advisory Group Quarterly Meeting
Estrella Mountain Ranch Community-Starpoint
Residence



PGA North Update

- Draft ROD Amendment (EPA):
 - EPA HQ and ADEQ comments are being addressed
 - Target ROD Amendment finalization - TBD
- On Site (Crane):
 - NW Injection well & pipeline – startup testing
 - EA10 & IW09
 - MW-11 Abandonment
 - Irrigation line to new vegetation plots and COG landscape



PGA North Summary



- Drinking water is protected
- Current cleanup has focused on preventing spread of contamination to public water supply wells
- Soil & groundwater contamination has been investigated
- Treated water is being reused for irrigation or injected for plume control

Next Steps



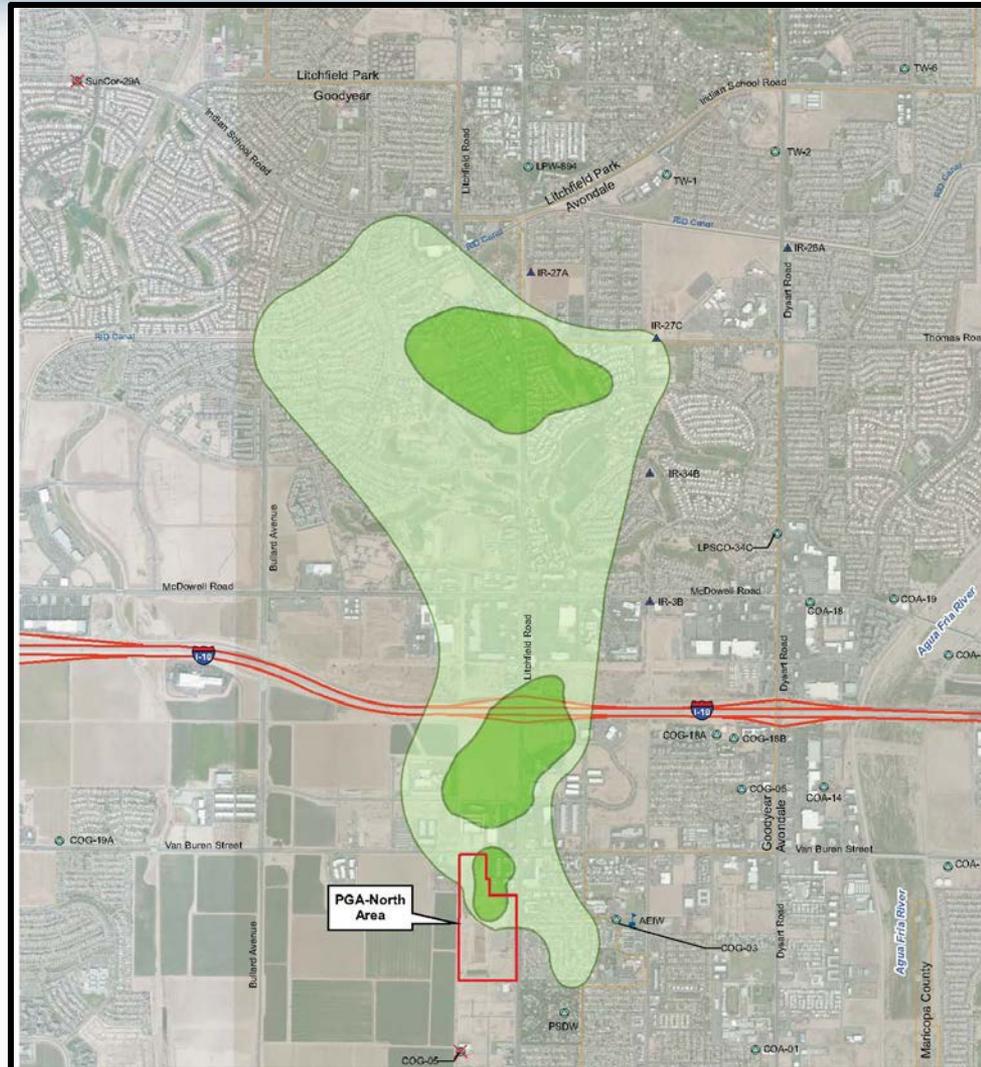
- Finalization of the ROD Amendment calling for in-situ treatment at the source area
 - Remedial design
 - Implementation of the remedial action
- Improvements to Existing Remediation System
 - New extraction well and injection well
 - Upgrade to the Main Groundwater Treatment System

In-situ Treatment at Source Area



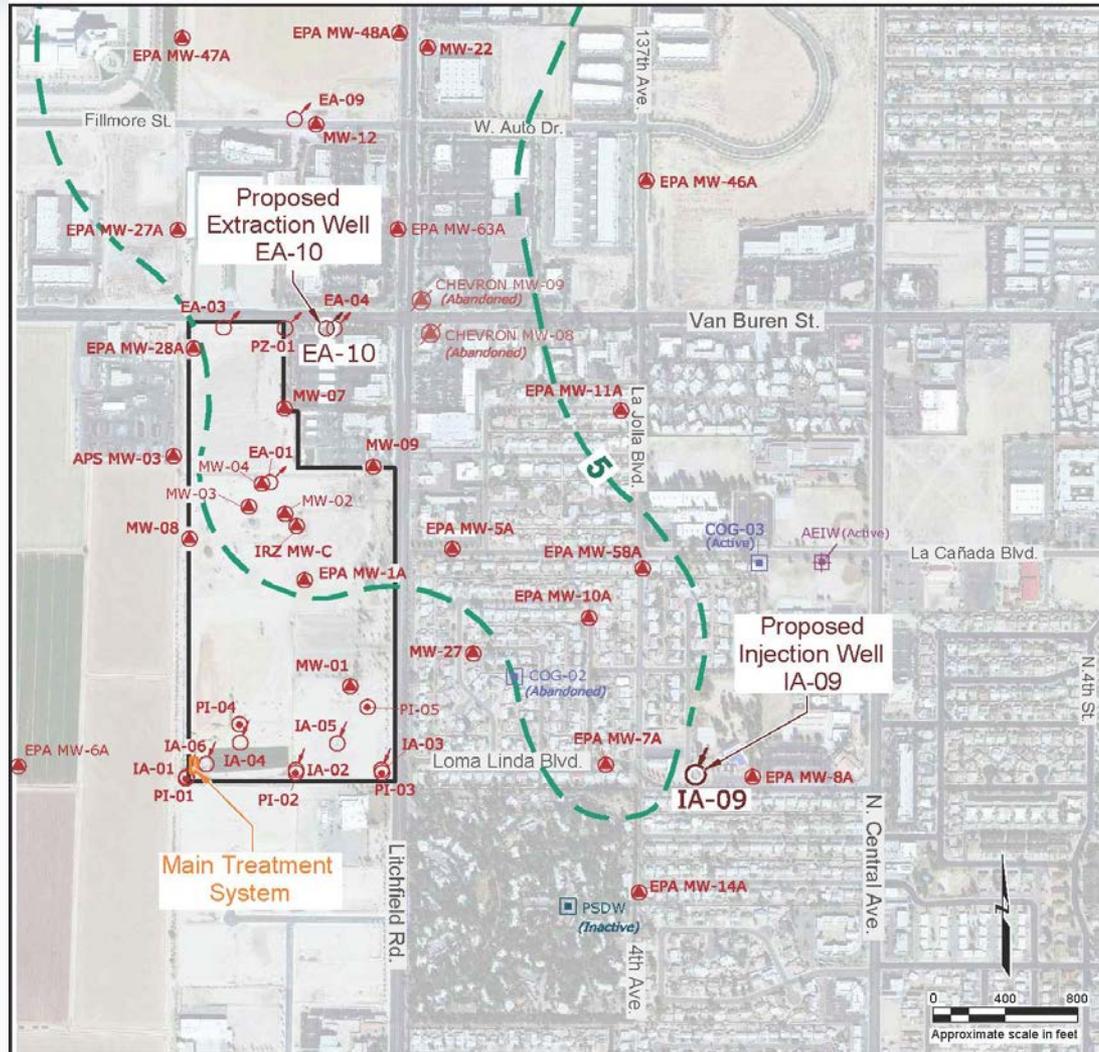
- Use iron (nZVI, ZVI) in combination with microbial action (Anaerobic Reductive Dechlorination).
- Maintain a hydraulic barrier at Van Buren using existing extraction wells
 - Ensure its effectiveness
 - Capture Site contaminants closer to the Source Area.

TCE Plume in Subunit A

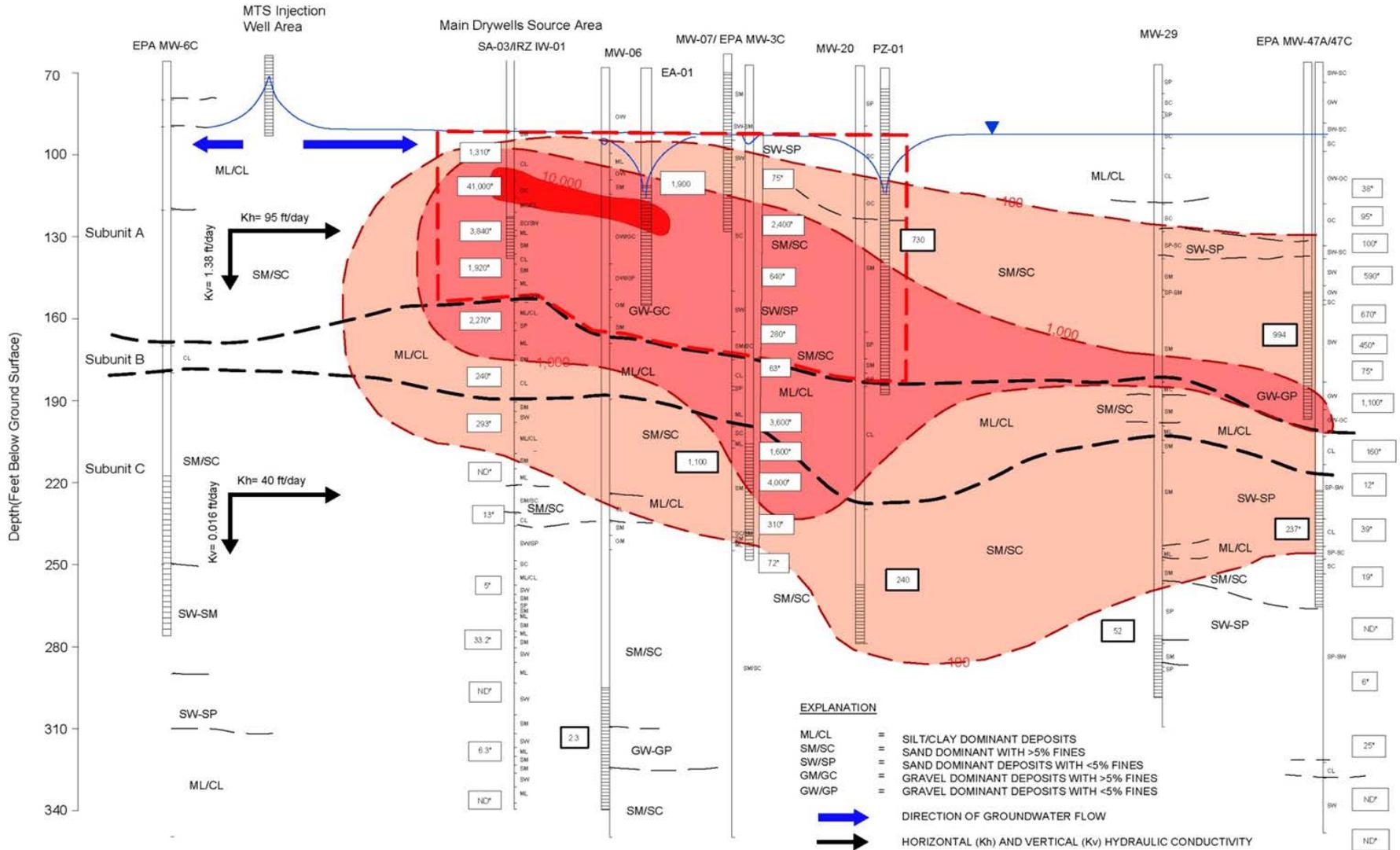


U.S. EPA REGION 9

EA10 & IW09



Plume Cross-Section



Contacts



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Patrick Shinabery

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On this date in History



- 1782 George Washington orders creation of the Badge of Military Merit, known today as the Purple Heart
- 1959 The Lincoln Memorial design replaced the “sheaves of wheat” on the U.S. penny

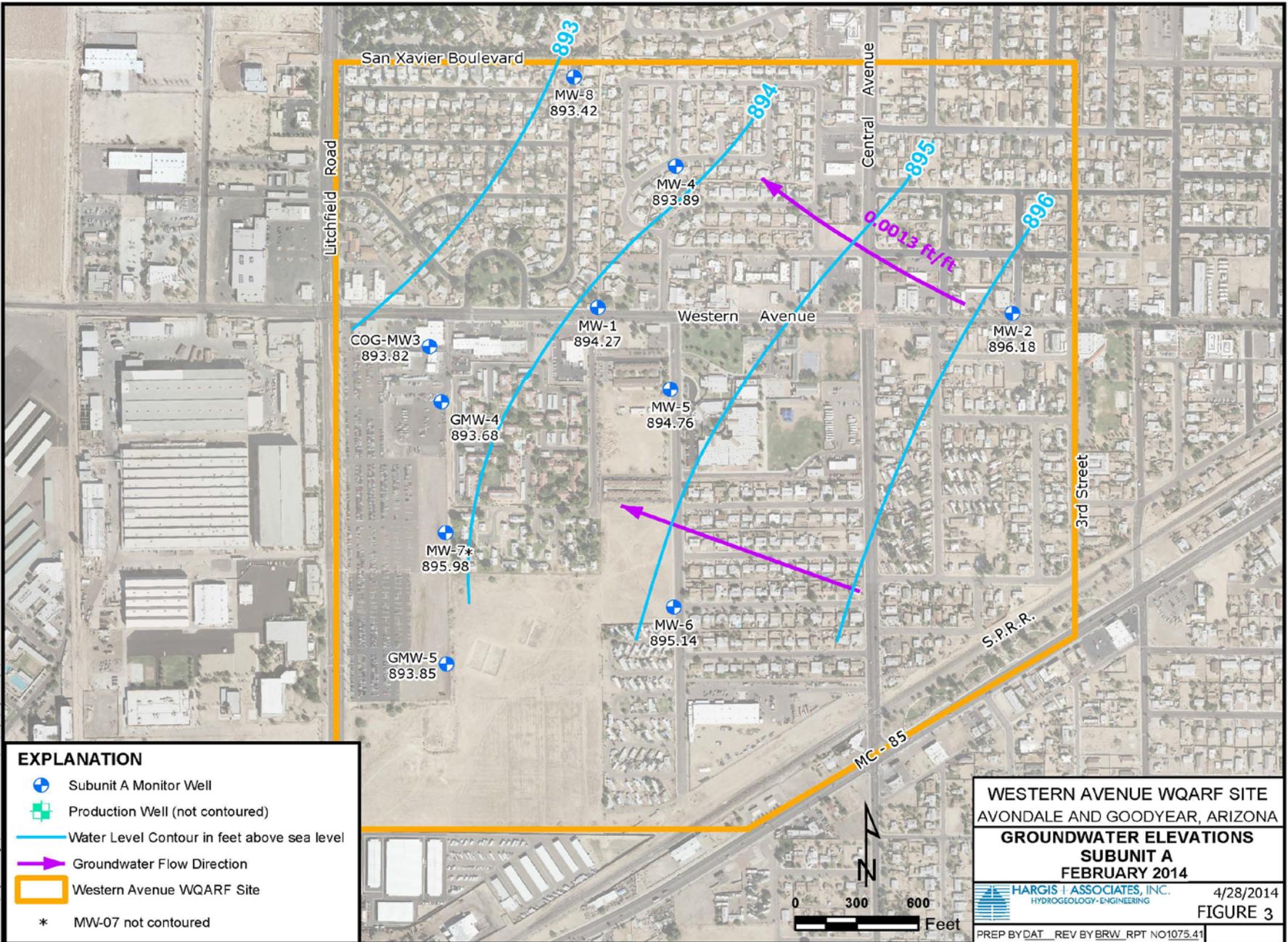
Western Avenue WQARF Site

**Western Avenue/Phoenix Goodyear Airport
CAG Meeting – August 7, 2014**

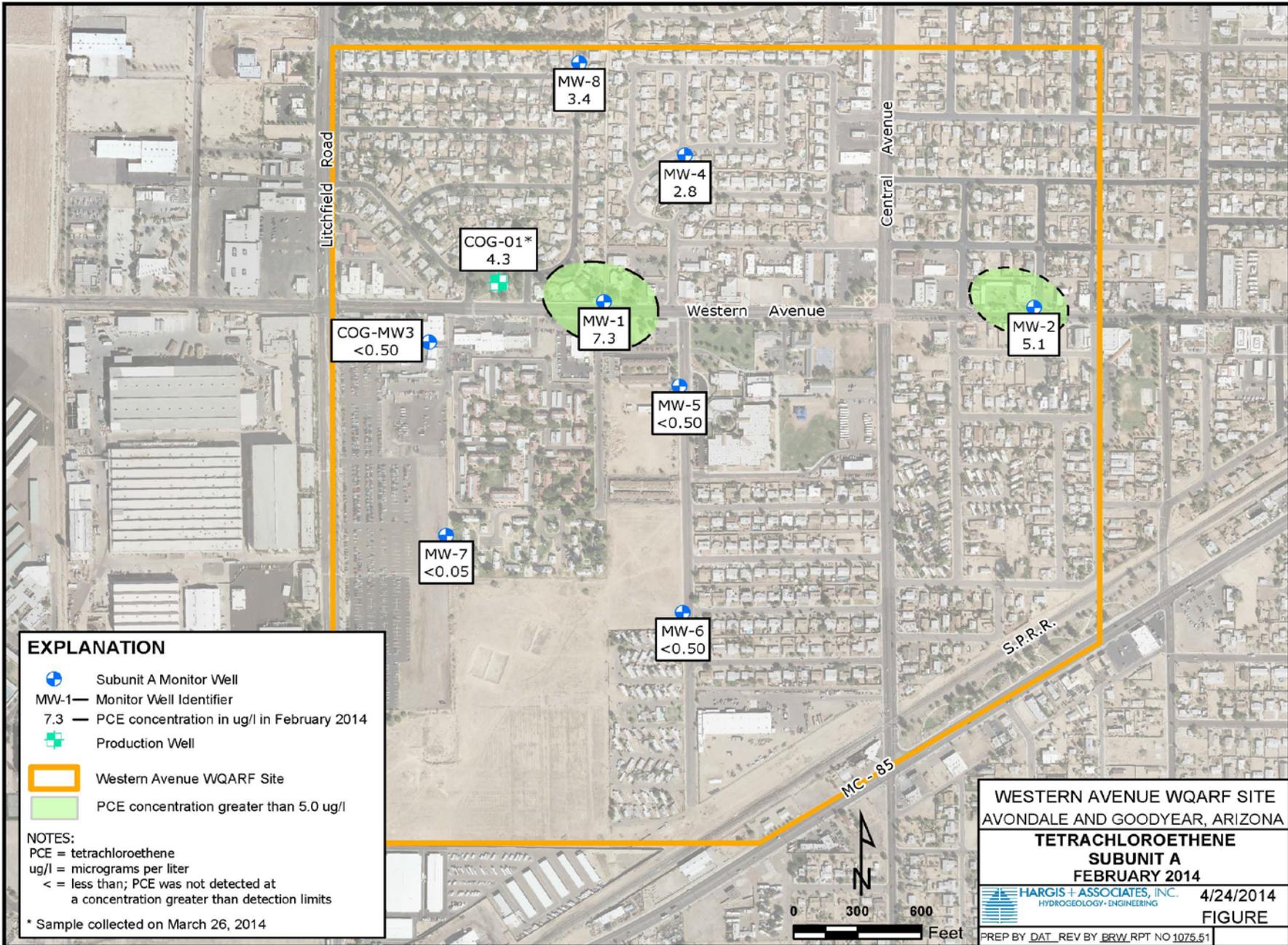


Update on Site Activities

- **Quarterly groundwater monitoring**
 - **February 12, 2014**
 - **May 7, 2014**



Well ID	Elevation (feet above sea level)
MW-8	893.42
MW-4	893.89
MW-1	894.27
MW-5	894.76
MW-2	896.18
MW-6	895.14
MW-7*	895.98
COG-MW3	893.82
GMW-4	893.68
GMW-5	893.85



EXPLANATION

- Subunit A Monitor Well
- MW-1 — Monitor Well Identifier
- 7.3 — PCE concentration in ug/l in February 2014
- Production Well

- Western Avenue WQARF Site
- PCE concentration greater than 5.0 ug/l

NOTES:
PCE = tetrachloroethene
ug/l = micrograms per liter
< = less than; PCE was not detected at a concentration greater than detection limits

* Sample collected on March 26, 2014

WESTERN AVENUE WQARF SITE
AVONDALE AND GOODYEAR, ARIZONA

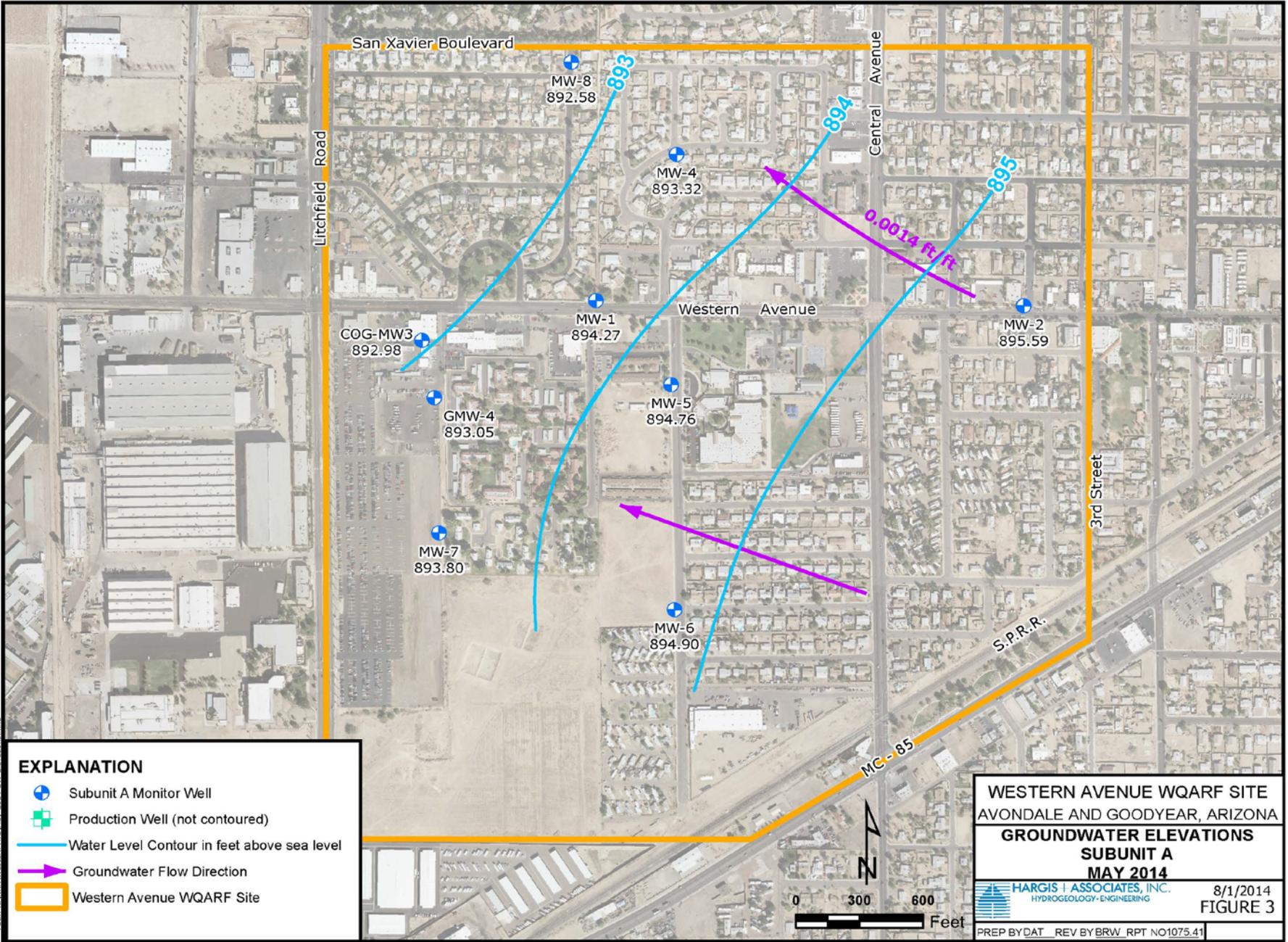
TETRACHLOROETHENE
SUBUNIT A
FEBRUARY 2014

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY - ENGINEERING

4/24/2014
FIGURE

PREP BY DAT_REV BY BRW_RPT NO 1075.51

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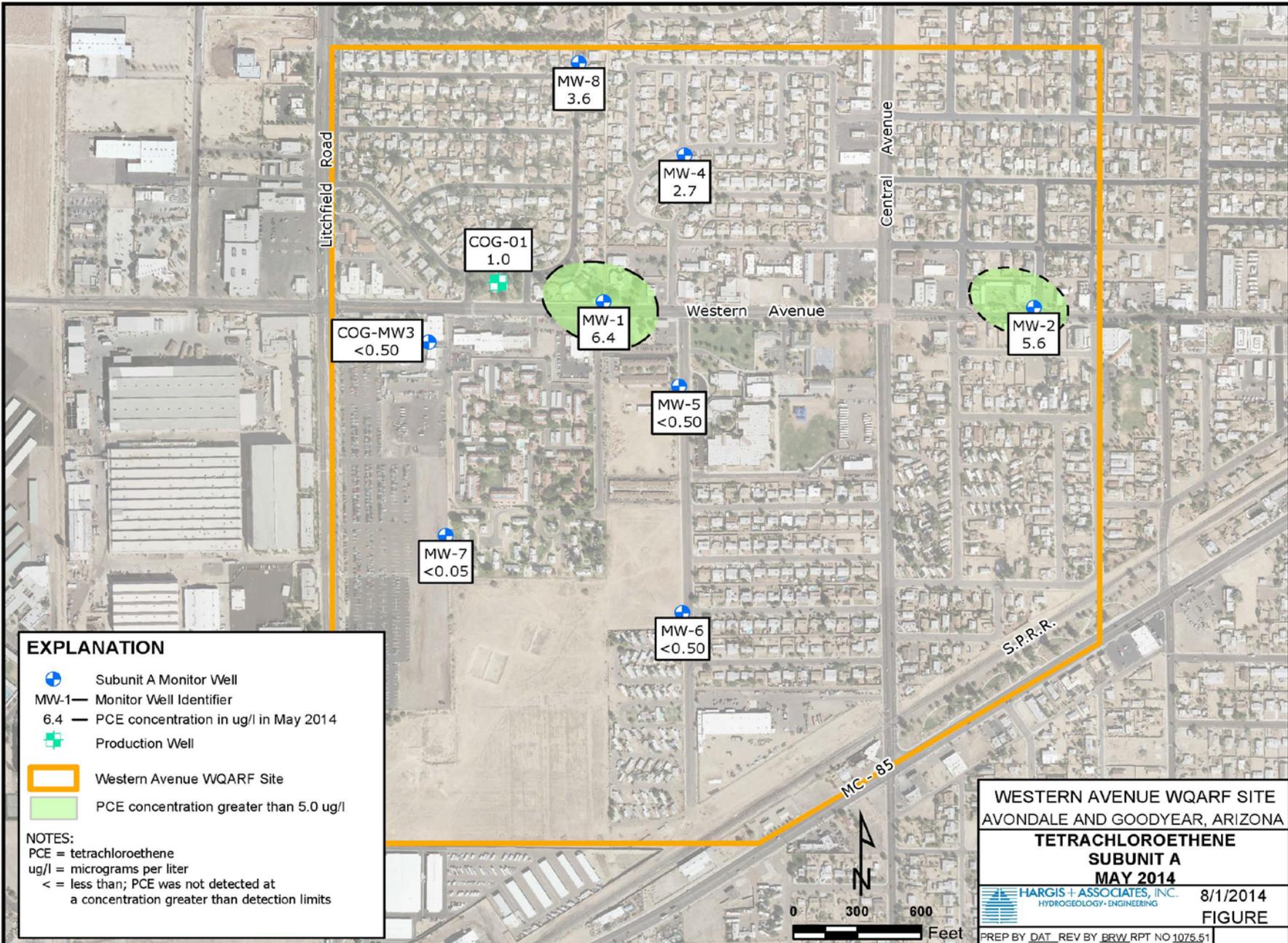


EXPLANATION

-  Subunit A Monitor Well
-  Production Well (not contoured)
-  Water Level Contour in feet above sea level
-  Groundwater Flow Direction
-  Western Avenue WQARF Site

WESTERN AVENUE WQARF SITE AVONDALE AND GOODYEAR, ARIZONA GROUNDWATER ELEVATIONS SUBUNIT A MAY 2014	
 HARGIS & ASSOCIATES, INC. HYDROGEOLOGY-ENGINEERING	8/1/2014 FIGURE 3
PREP BY DAT REV BY BRW_RPT NO1075.41	





EXPLANATION

- Subunit A Monitor Well
- MW-1— Monitor Well Identifier
- 6.4 — PCE concentration in ug/l in May 2014
- Production Well
- Western Avenue WQARF Site
- PCE concentration greater than 5.0 ug/l

NOTES:
 PCE = tetrachloroethene
 ug/l = micrograms per liter
 < = less than; PCE was not detected at a concentration greater than detection limits

**WESTERN AVENUE WQARF SITE
 AVONDALE AND GOODYEAR, ARIZONA
 TETRACHLOROETHENE
 SUBUNIT A
 MAY 2014**

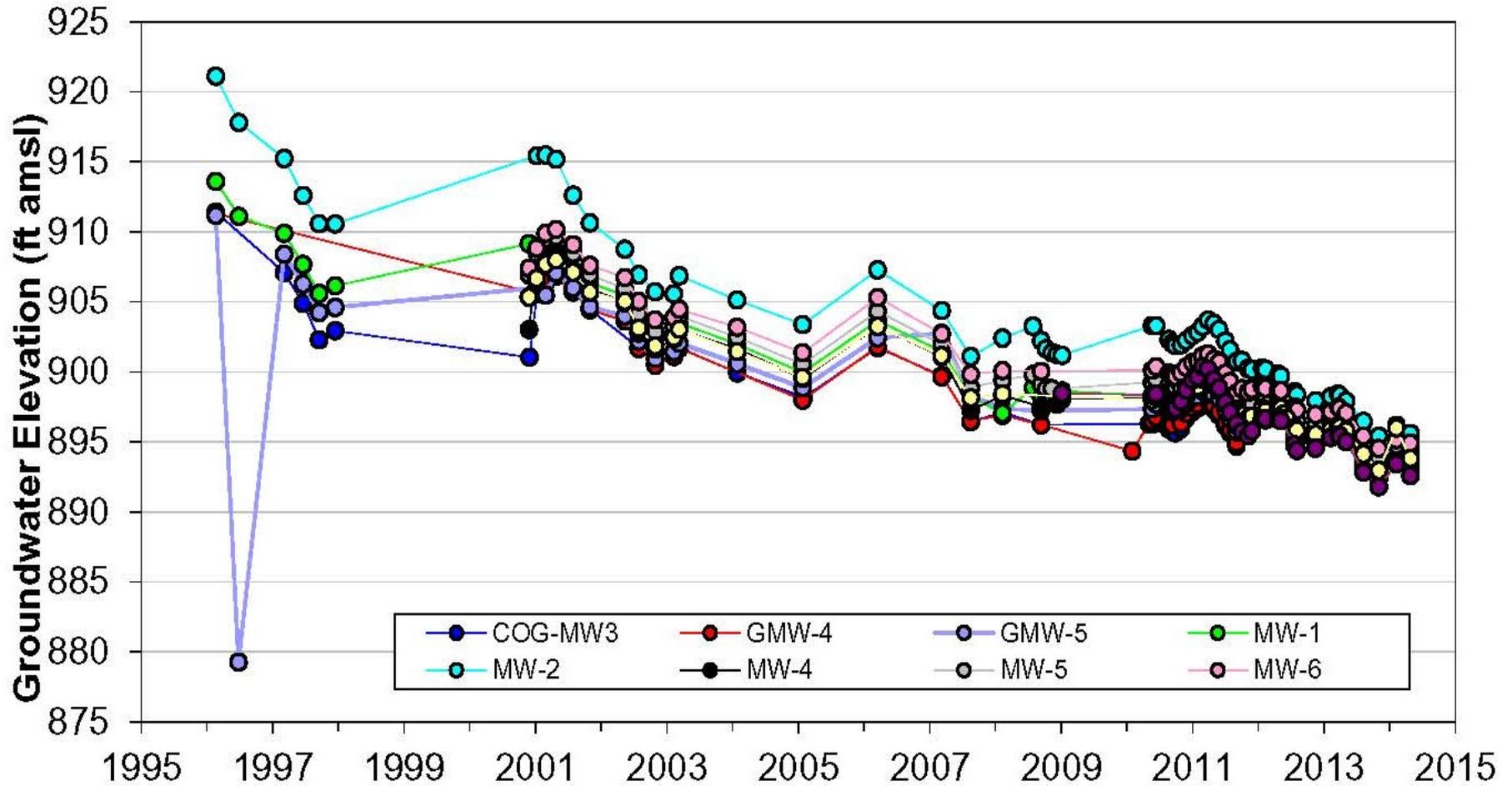
HARGIS + ASSOCIATES, INC.
 HYDROGEOLOGY - ENGINEERING

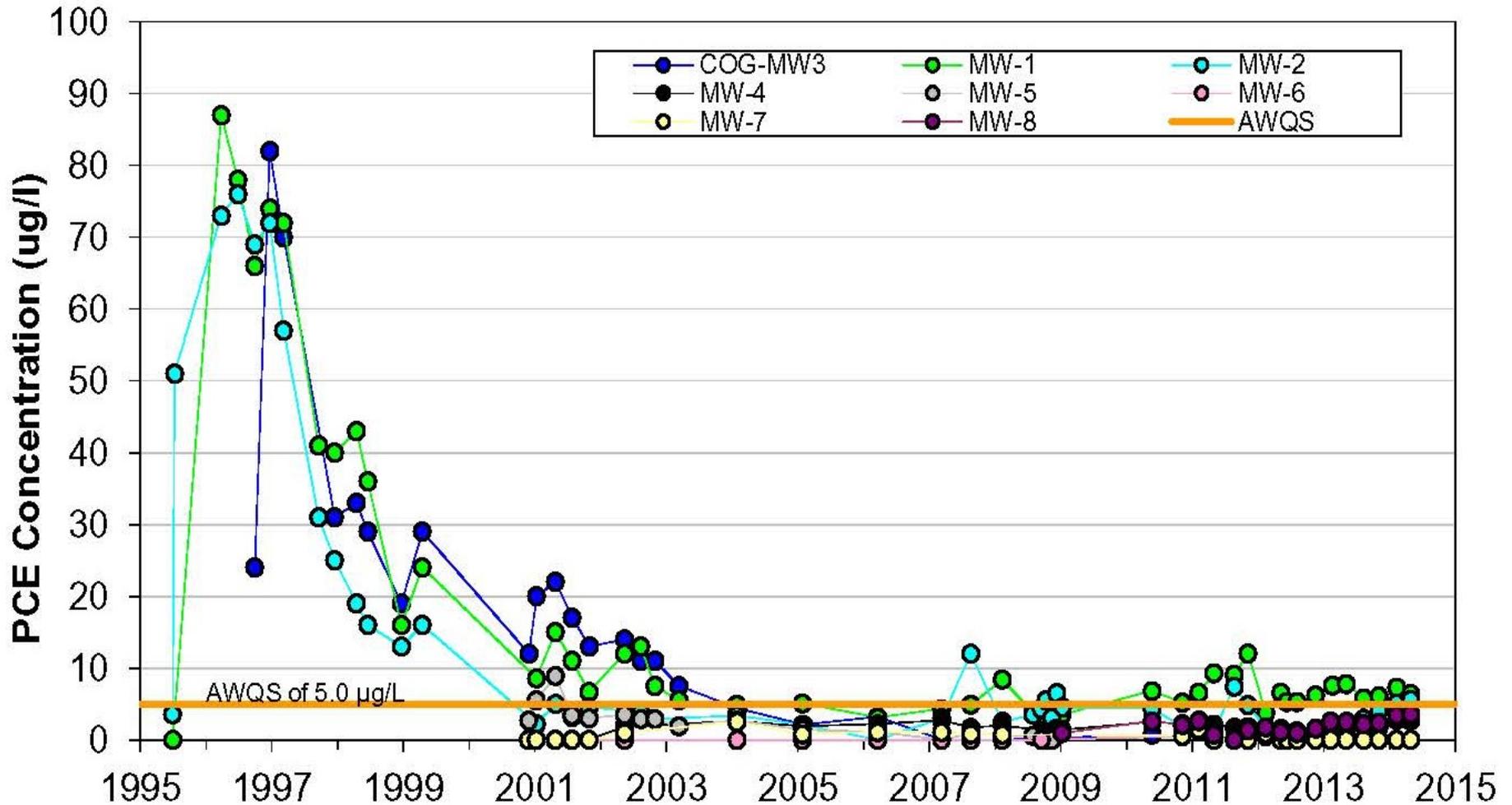
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FIGURE

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Western Avenue WQARF Site





Update on Site Activities (Cont'd)

- **Conditions similar to previous events**
- **Water Levels:**
 - Increase ~1 to 1.5 feet in Feb
 - Decrease ~0.5 feet in May
- **PCE within recent ranges:**
 - PCE slight increase at well MW-2 to greater than MCL
 - PCE slight decreased at well MW-1

Update on Site Activities (Cont'd)

- **Well COG-01 not operating Feb/March event:**
 - PCE detected at 4.3 ug/l
- **Well COG-01 operating May event**
 - PCE detected at 1.0 ug/l
- **Consistent with previous events and 2013 well test**

Update on Site Activities (Cont'd)

- **PRAP prepared by ADEQ April 25, 2014**
 - Public comment period April 25 through June 23, 2014
- **Public meeting May 21, 2014**
- **ADEQ responses to public comments scheduled for August 2014**

Upcoming Site Activities

- **Next monitoring event during August 2014**
- **ADEQ responses to public comments to PRAP scheduled for August 2014**
- **PRAP Second 30 day comment period August/September 2014**
- **ROD estimate October/ November 2014**
- **<http://www.azdeq.gov/environ/waste/sps/phxsites.html#westavea>**



Western Avenue WQARF Site

Questions?

Tina LePage

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Wendy Flood, Community Involvement Coordinator

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