Meeting Minutes

West Van Buren (WVB) Water Quality Assurance Revolving Fund (WQARF) Site Community Advisory Board (CAB) Meeting

Thursday, February 19, 2009
Starting at 6:00 p.m.
Sunridge Elementary School
6244 W. Roosevelt Street, Phoenix, Arizona 85007

FINAL MINUTES

Ref: OU #09-107

CAB members present: Philip Lagas, Peggy Eastburn, and Jeff Littell

ADEQ Staff in attendance: Jennifer Edwards Thies, Project Manager; Kevin Snyder, Project Hydrologist; and Delfina Olivarez, Community Involvement Coordinator

Members of the public present: Mary Moore, Lindon Park N.A.; Kevin Murdock, CH2M Hill; Mel Paul, Private – Phoenix, AZ.; Judy Heywood, APS; Andrea Markowitz, Citizen - Cave Creek, AZ.; Greg Wallace, Errol L. Montgomery & Associates, Inc.; David Weed, ChemResearch Co. Inc.; David Kirchner, Basin & Range Hydrogeologists, Inc.

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

1. Call to Order/Introductions
Ms. Olivarez thanked everyone for attending, conducted introductions and then turned the meeting over to the Co-Chair, Mr. Lagas.

2. Acceptance and/or Changes to November 18, 2008 Minutes
Mr. Lagas asked if everyone read the minutes and had any changes. Mrs.Eastburn moved to accept the minutes as written. The motion was seconded by Mr. Littell. All agreed to accept the motion, and the minutes were approved.

3. Third quarter sampling results and draft Remedial Investigation (RI) Report progress – Jennifer Edwards Thies, Project Manager
Using a WQARF process map Ms. Thies showed WVB is in the RI phase. She then updated everyone on events since the November 2008 CAB meeting. Ms. Thies elaborated on 3rd quarter monitoring, the October well installation, comments to the draft RI Report and budget reorganizations.

See presentation below

Questions:
Mr. Lagas asked what the schedule for finalizing the RI Report is. Ms. Thies responded that there was a more aggressive schedule before the budget cuts changed the schedule. Mr. Lagas asked if we had to do the Remedial Objectives Report, which is part of the final RI Report and requires a series of meetings. Ms. Thies responded yes, and at least one meeting is required.

4. Discussion of CAB Charter and Co-Chair positions – Delfina Olivarez, Community Involvement Coordinator
Ms. Olivarez explained that the WVB CAB Charter and Co-Chair positions have not been updated since December 2006. No changes were requested/made to the Charter. Mr. Lagas asked for nominations of new Co-Chairs. None were nominated. Mr. Lagas asked if Mrs.Eastburn would like to do another term with him. Mrs.Eastburn replied yes. Mr. Lagas asked if all were in favor of keeping the same Co-Chairs, and all replied yes.

5. *Call to the Public
Ms. Moore asked if we were going to have a meeting to go over the comments submitted for the RI Report. Ms. Thies responded that a responsiveness summary is done, which goes into the Final Report. The comments are available in the responsiveness summary, and the public can request a copy from ADEQ's Records Management Department.

7. Next meeting date and Agenda discussion
Mr. Lagas asked if the next meeting could tentatively be scheduled for May 7, 2009, 6:00 p.m. at Sunridge Elementary School. Mr. Lagas wanted a discussion of RI comments to be on the agenda. Ms. Olivarez explained that because of budget cuts mass mailings are being periodically stopped and that communications from now until further notice will be via email, phone and only mail if necessary. Ms. Olivarez explained that CAB meetings would be fewer in frequency, and she invited all interested parties that want to receive future site updates to let her know and they will be put on a list to receive the updates via email or phone. Ms. Olivarez asked the CAB to help spread information that ADEQ shares with them with their neighbors and friends.

8. Adjournment
Mr. Lagas motioned to adjourn, all seconded and agreed, and the meeting adjourned.

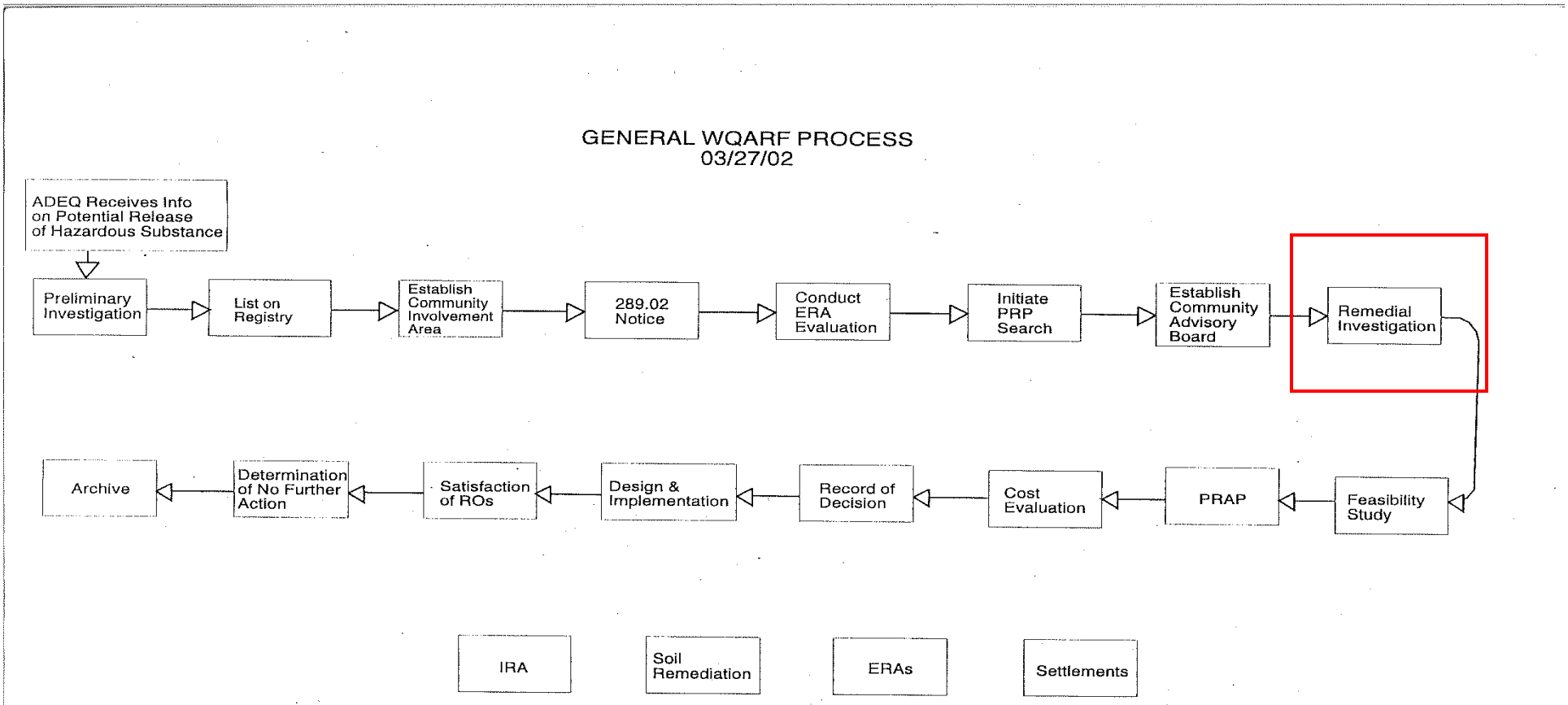
West Van Buren WQARF Site

Jennifer Edwards Thies, Project Manager

Kevin Snyder, Project Hydrologist

February 19, 2009

WQARF process map



Events since the November 2008 CAB meeting

- Completed semi-annual sampling event during third quarter 2008 and received draft copy of the report for this event.
- Received draft well installation report for the October well installation.
- Received comments to the draft RI report.
- Budget cuts eliminate Spring sampling event.

2008 Third Quarter Semi-Annual Groundwater Monitoring Event
(includes sampling and water level measurements)

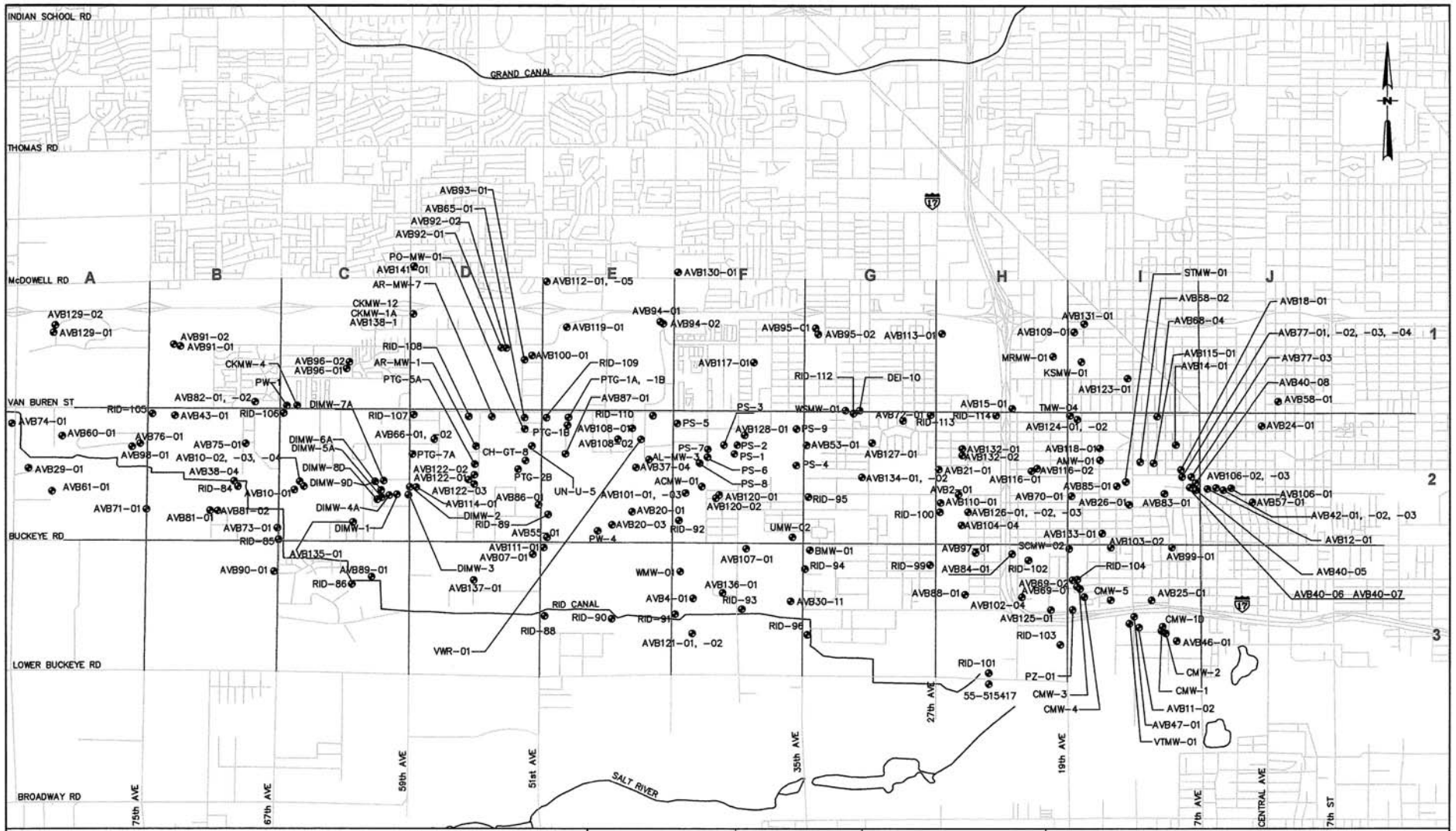
- 91 monitoring wells sampled out of 118 total.(added 2 wells and didn't sample 6 tank farm wells)
- 24 were dry and 3 wells were inaccessible.
- 23 RID wells were sampled during this event.
- 40 wells sampled using Passive Diffusion Bag (PDB) Samplers.

2008 September Semi-Annual Groundwater Laboratory Results

- The Halogenated Contaminates of Concern (COCs) are PCE, TCE, 1,1-DCE, cis 1,2-DCE, 1,1-DCA and TCA. The highest concentration in micrograms/Liter (µg/L).

COC	Well	µg/L	(Sept. results)
PCE	AVB100-01	70	(AVB100-01@ 170)
TCE	AVB127-01	170	(AVB120-02 @ 160)
1,1-DCE	AVB82-01	27	(AVB134-01 @ 28)
cis-1,2-DCE	AVB127-01	36	(AVB85-01 @ 28)
1,1-DCA	AVB116-02 & AVB134-01	13	(AVB116-02 & PS-1 @ 13)
TCA	Not detected		(PS-1 @ 0.96)

- 13 monitoring wells exhibited total chromium concentrations at or above Aquifer Water Quality Standards (AWQS) of 0.1 mg/L. There were no dissolved chromium concentrations above the AWQS.



LEGEND

⊕ - APPROXIMATE WELL LOCATION
AVB76-01 - WELL IDENTIFICATION NUMBER

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	10/20/06
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

TERRANEXT

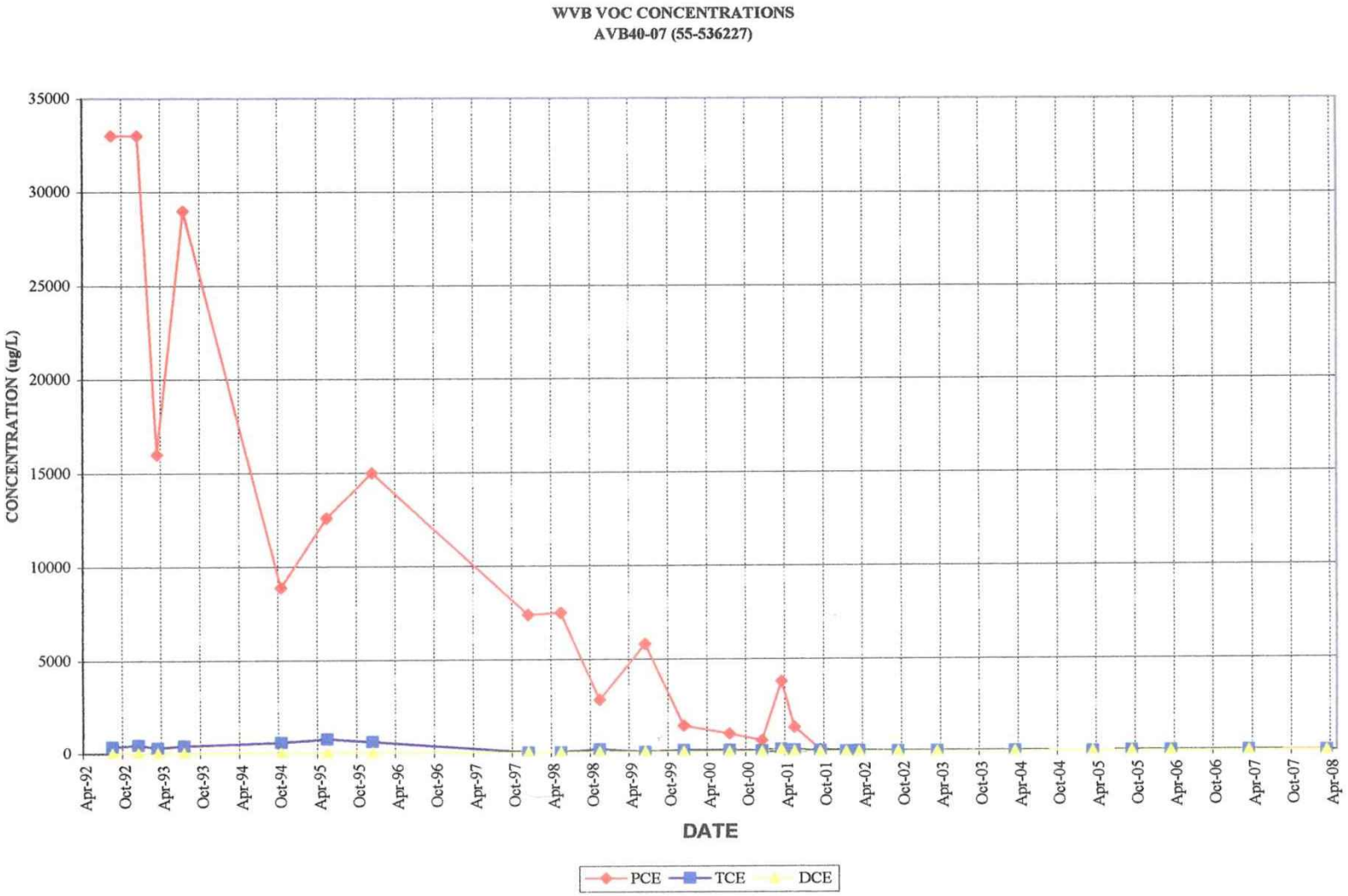
FIGURE 1.1
WELL LOCATION MAP
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA

WPFILE/ PROJECTS/ 03103154/ Phase 1B/1st Qtr 06/Figure 1.1 Well Location Map.dwg

Upper Aquifer Unit (UAU1) Results

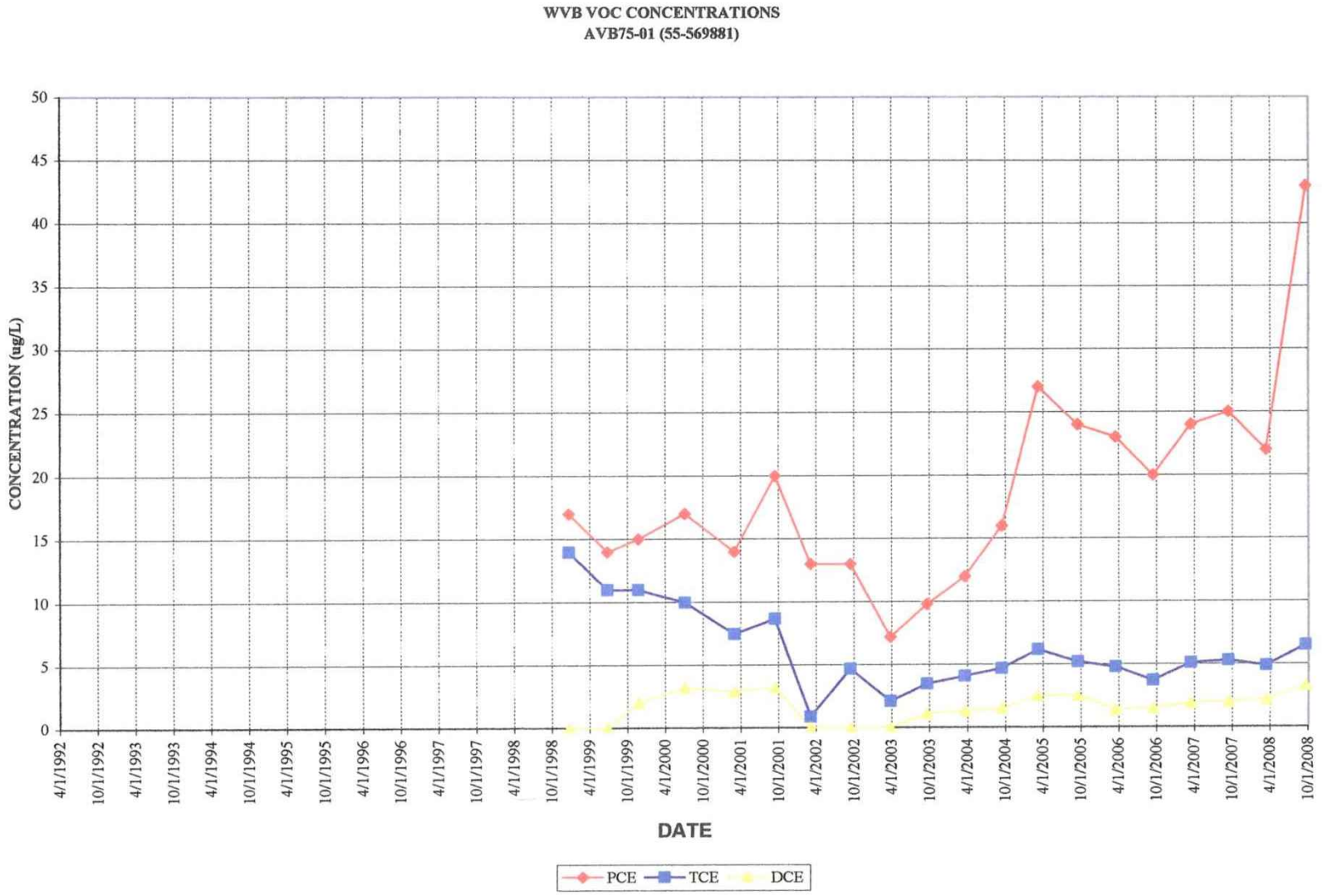
- PCE, TCE, 1,1-DCE exceed their AWQS at multiple locations. PCE extends from the eastern border to approximately 71st Ave. TCE extends from the eastern border to approximately 69th Ave. 1,1-DCE extends from the eastern border to approximately 35th Ave. Concentrations are similar to previous two rounds of groundwater sampling.
- Overall decrease in water levels since March 2008. Water levels have decreased approximately 10.5 feet over the last 6 months.

Eastern UAU1



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.

Western UAU1



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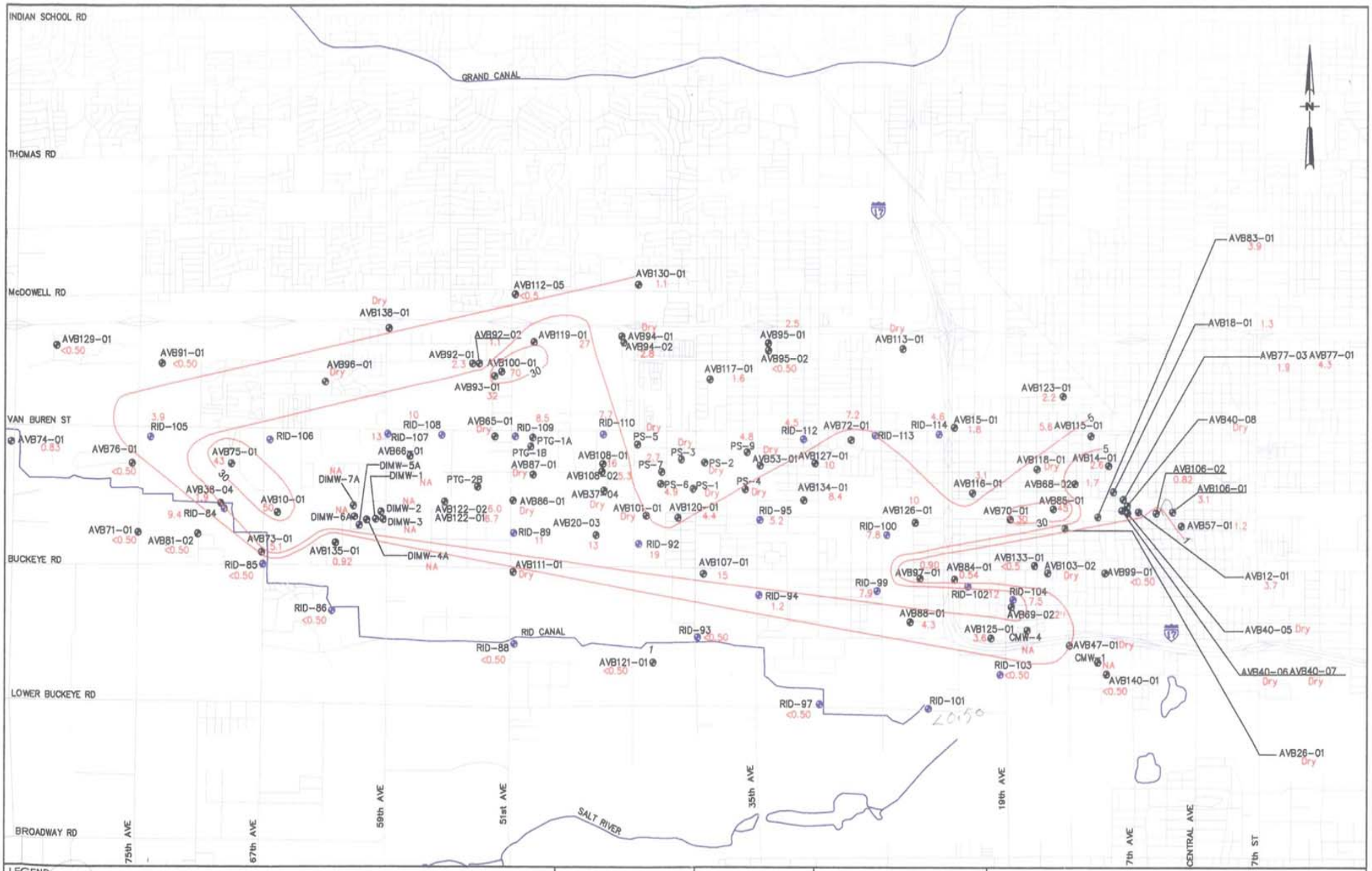

LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – TETRACHLOROETHENE (ug/l)
– PCE CONCENTRATION CONTOUR (ug/l)
NS – NOT SAMPLED
– APPROXIMATE WELL LOCATION
NA – NOT AVAILABLE

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

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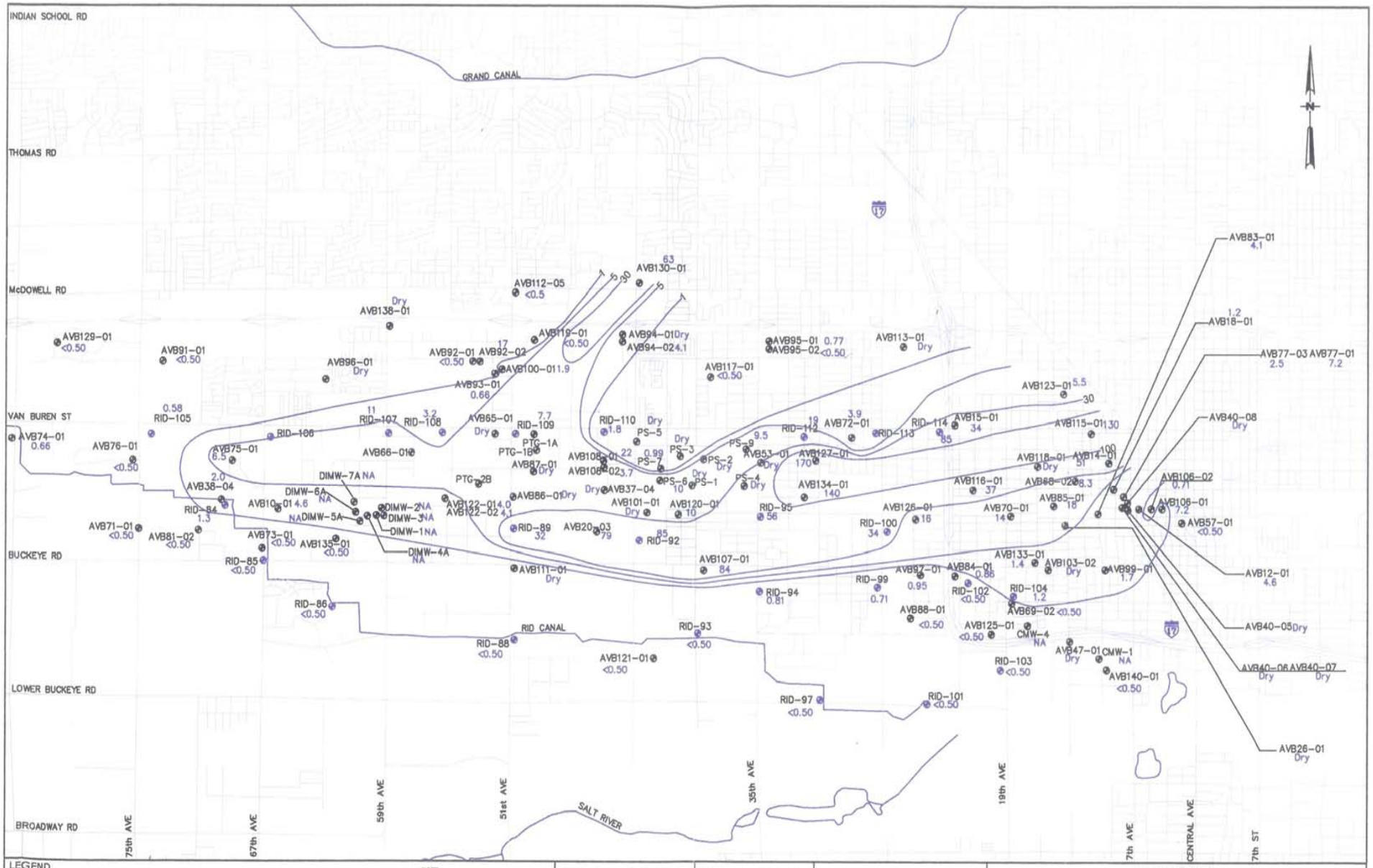
FIGURE 3.1
UAU 1 PCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA

W:\FILE\ PROJECTS\ 03103154\Phase 19\3rd qtr 08\Figure 3.1 UAU1 PCE CONCENTRATIONS.dwg



LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – TRICHLOROETHENE (ug/l)
—— – TCE CONCENTRATION CONTOUR (ug/l)
NS – NOT SAMPLED
– APPROXIMATE WELL LOCATION
NA – NOT AVAILABLE

WPFILE/ PROJECTS/ 03103154/ Phase 19/3rd qtr 08/Figure 3.2 UAU1 TCE Concentrations.dwg

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

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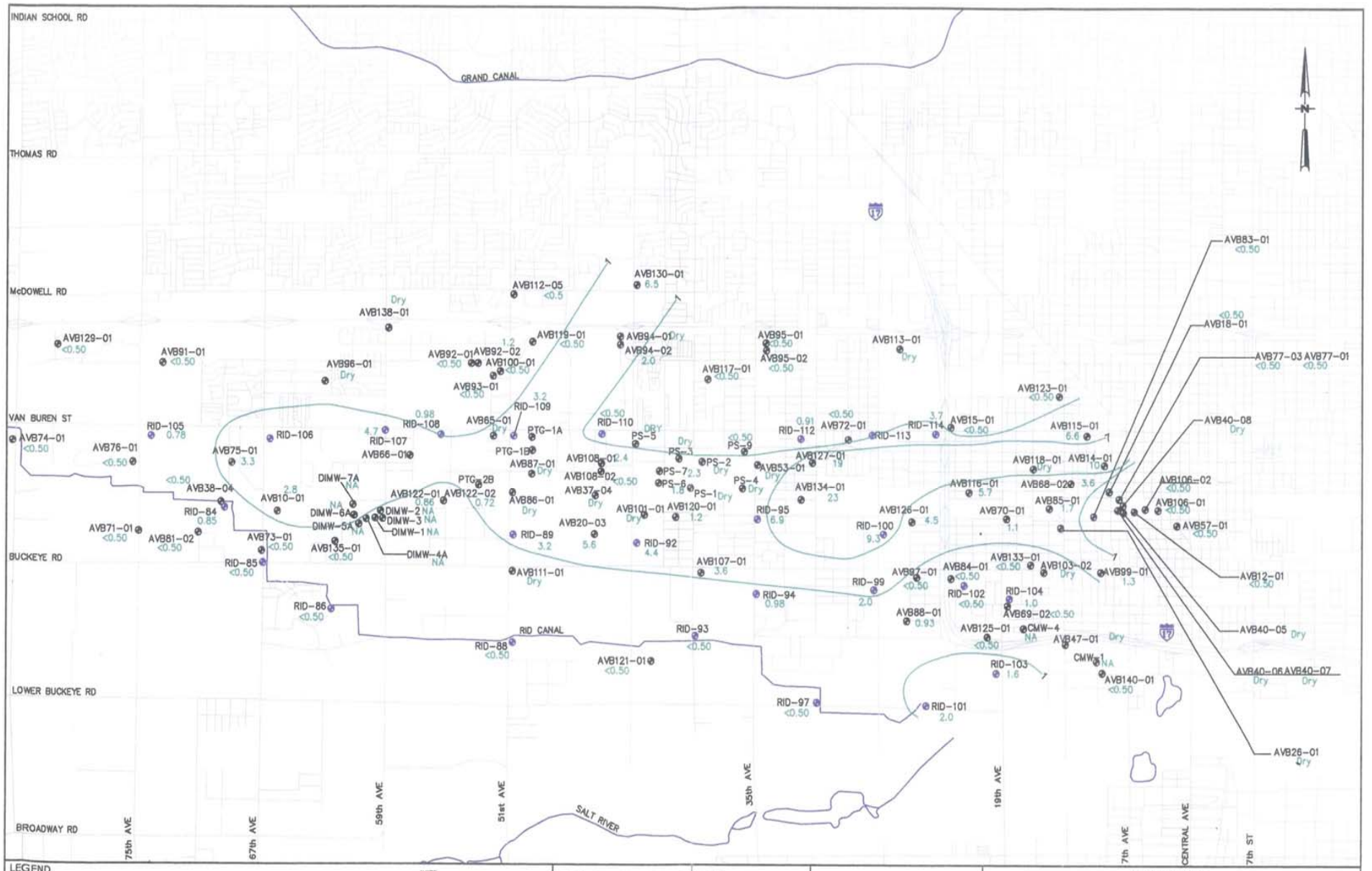
FIGURE 3.2
UAU 1 TCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA



LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – 1,1 – DICHLOROETHENE (ug/l)
——— – 1,1 – DCE CONCENTRATION CONTOUR (ug/l)
NS – NOT SAMPLED
– APPROXIMATE WELL LOCATION
NA – NOT AVAILABLE

WPFILE/ PROJECTS/ 03103154/ Phase 19/3rd qtr 08/UAU1,1 DCE Concentrations Figure 3.3.dwg

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

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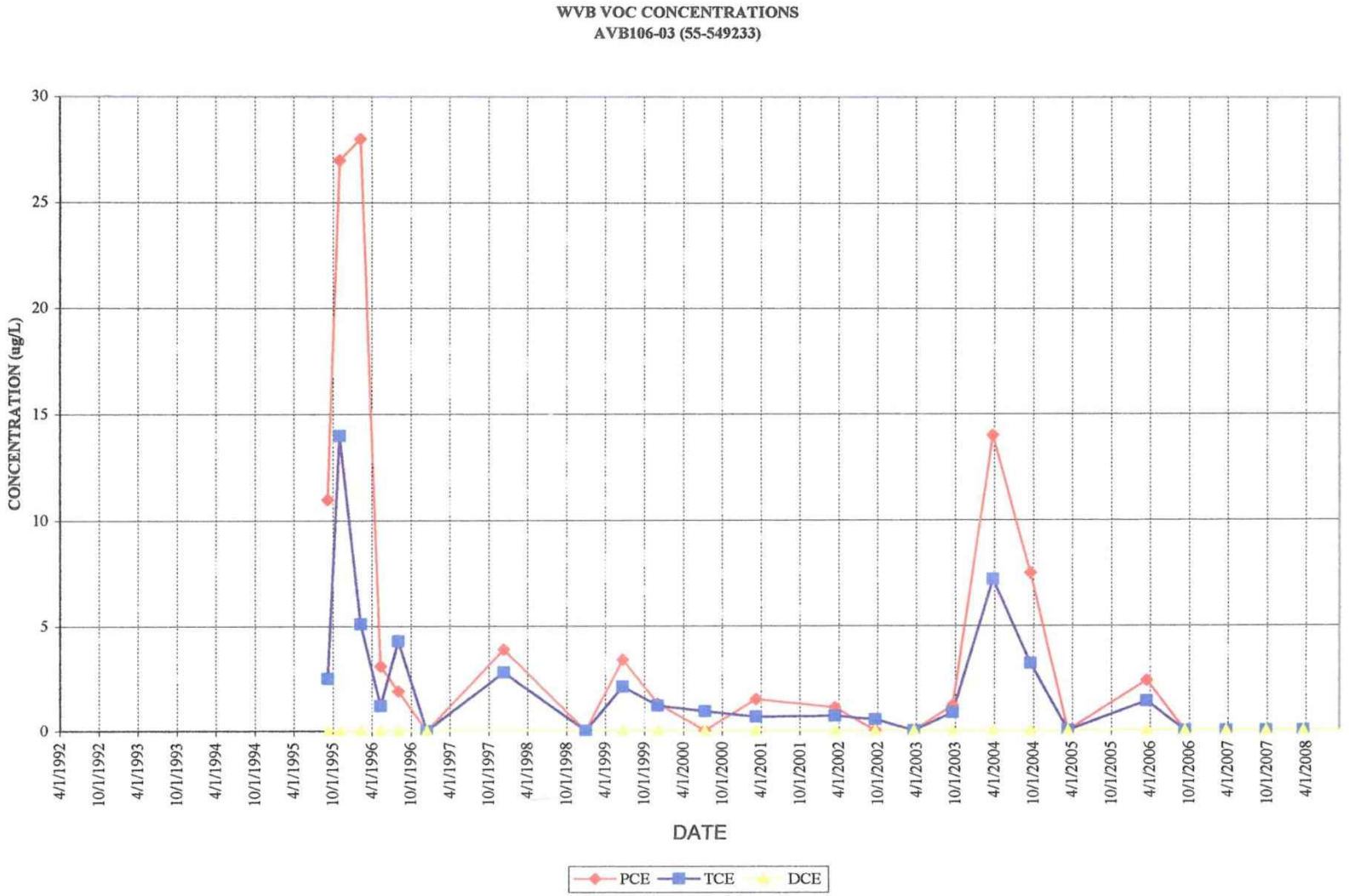
FIGURE 3.3
UAU1 1,1 - DCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA

Upper Aquifer Unit (UAU2) Results

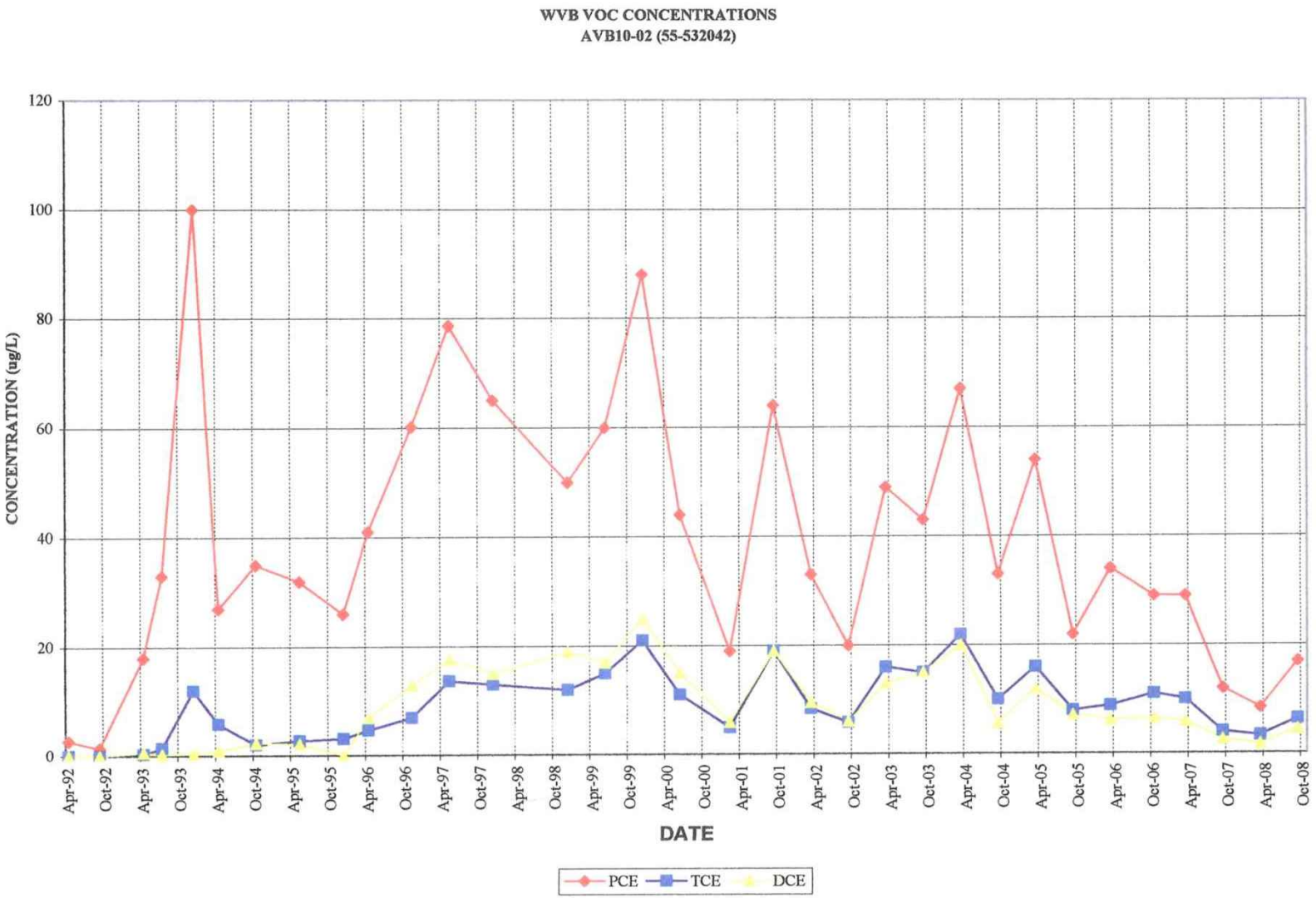
- PCE,TCE, 1,1-DCE exceed their AWQS at multiple locations; PCE extends from the eastern border to approximately 71st Ave. TCE exceeds the AWQS from the eastern boundary to approximately 67th Ave. 1,1,-DCE exceeds the AWQS from the eastern boundary to approximately 35th Ave. These results are generally similar to those observed during the previous two rounds of groundwater sampling.
- Water levels have decreased approximately 11 feet over the last 6 months.

Eastern UAU2

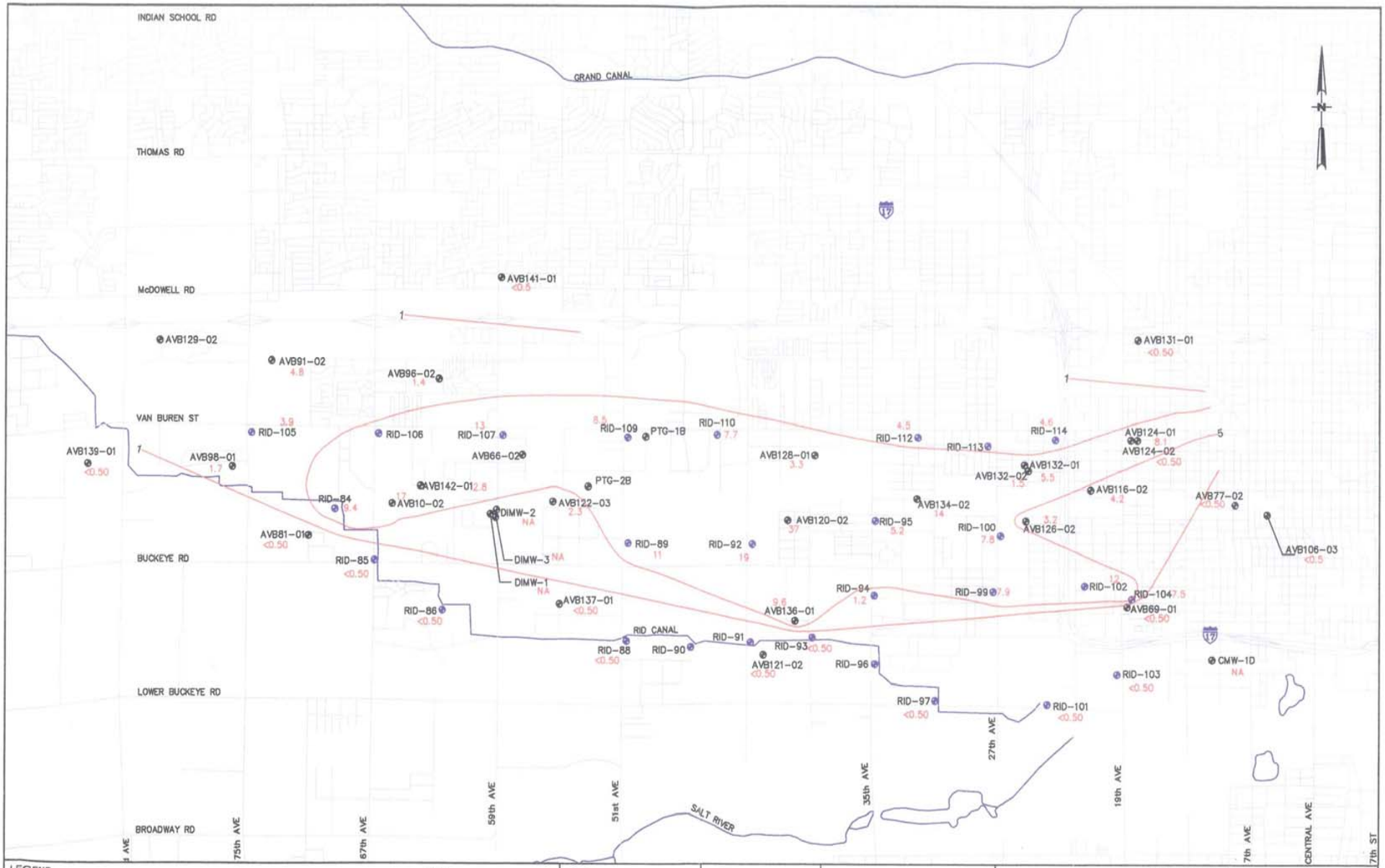


NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.

Western UAU2



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.



LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – TETRACHLOROETHENE (ug/l)
—— – PCE CONCENTRATION CONTOUR (ug/l)
NA – NOT AVAILABLE
Ø – APPROXIMATE WELL LOCATION

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

U:/projects/03103154/Phase 19/3rd qtr 08/UAU2 PCE CONCENTRATIONS FIGURE 3.4.dwg

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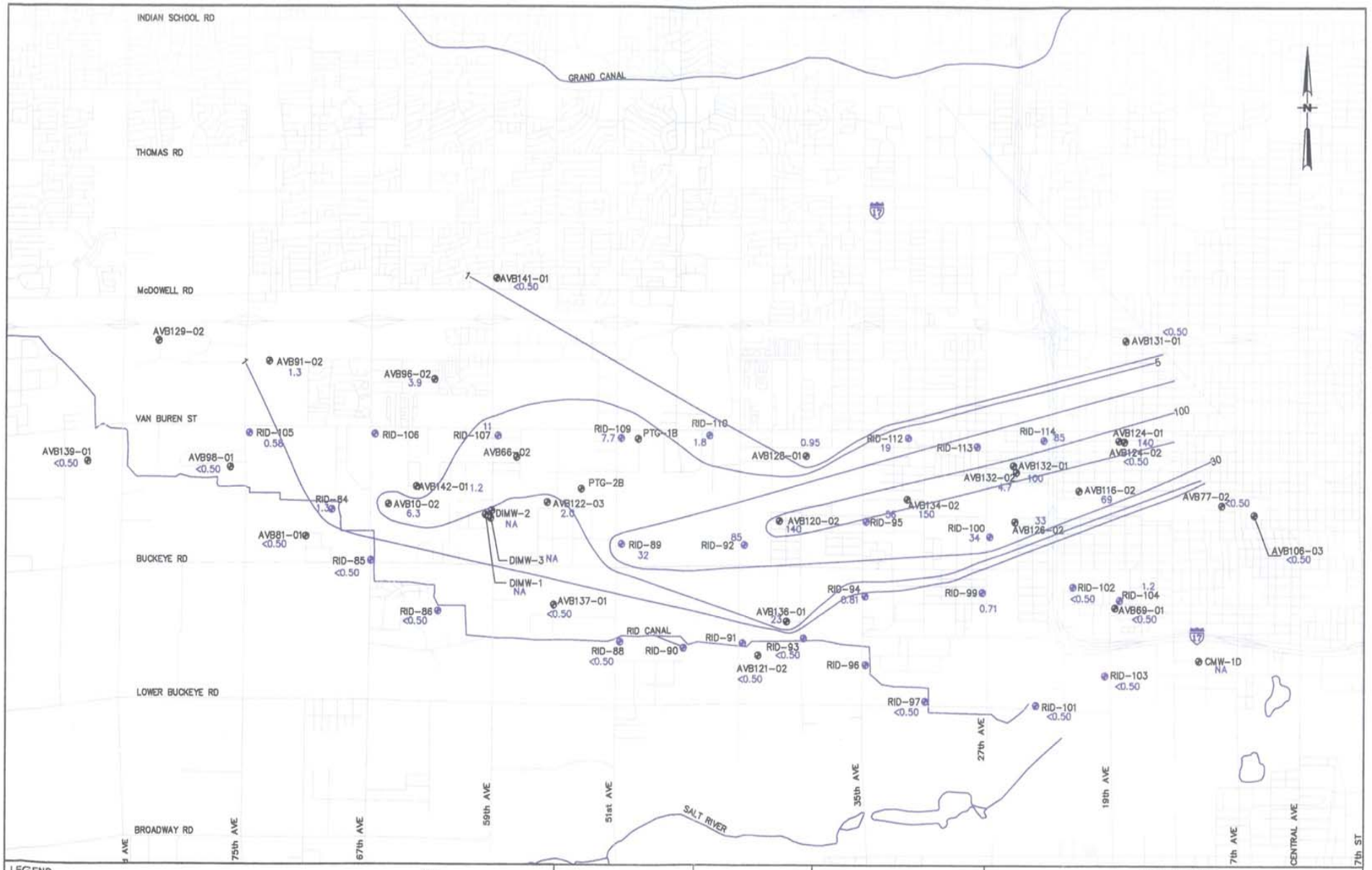
FIGURE 3.4
UAU 2 PCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA



LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – TRICHLOROETHENE (ug/l)
——— – TCE CONCENTRATION CONTOUR (ug/l)
NA – NOT AVAILABLE
Ø – APPROXIMATE WELL LOCATION

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

U:/projects/03103154/Phase 19/3rd qtr 08/UAU2 TCE CONCENTRATIONS FIGURE 3.5.dwg

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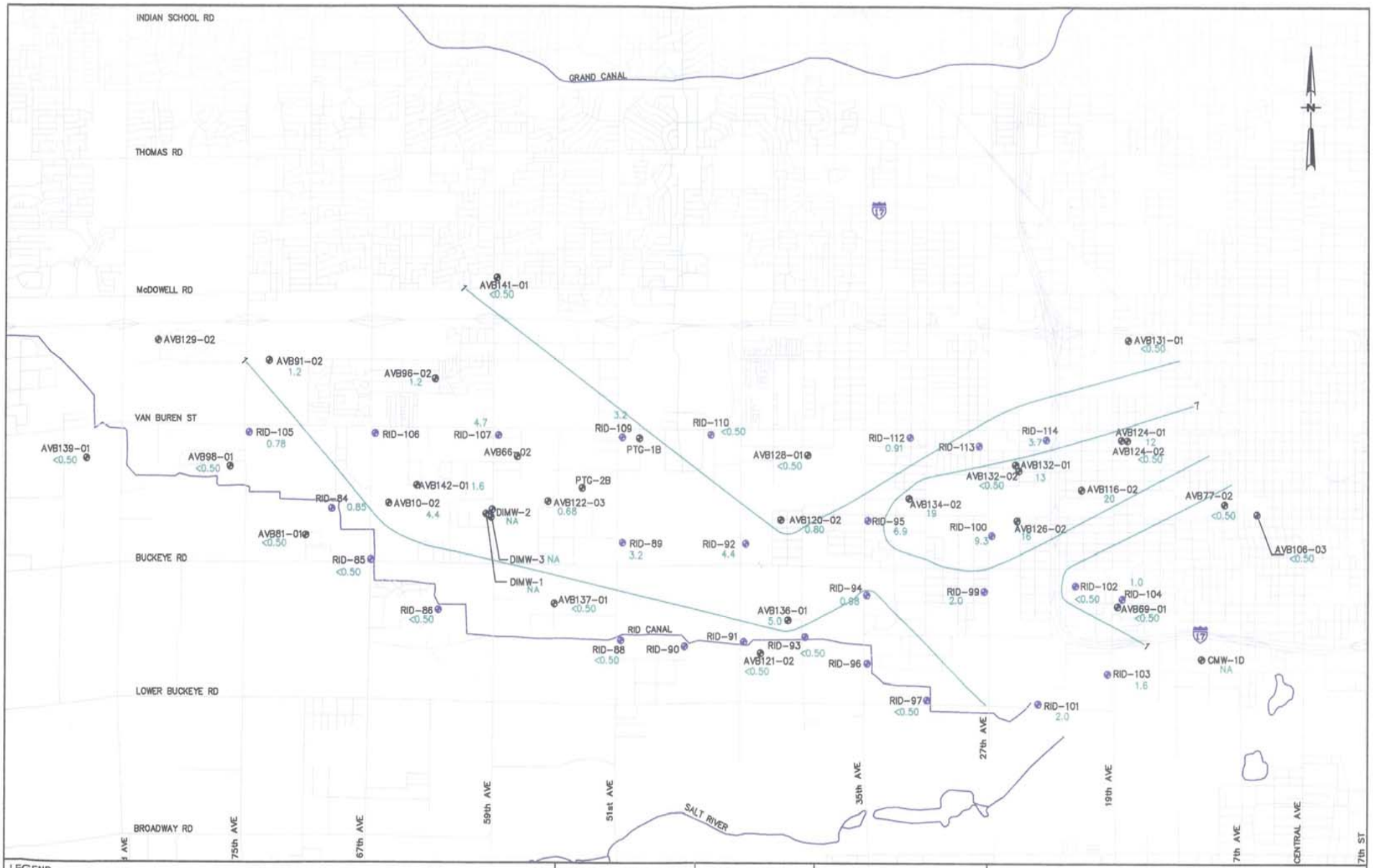
FIGURE 3.5
UAU 2 TCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA



LEGEND

AEW11-06 – WELL IDENTIFICATION NUMBER
11 – 1,1 – DICHLOROETHENE (ug/l)
—— – 1,1 – DCE CONCENTRATION CONTOUR (ug/l)
NA – NOT AVAILABLE
Ø – APPROXIMATE WELL LOCATION

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

U:\projects\03103154\Phase 19\3rd qtr 08\UAU2 1,1-DCE CONCENTRATIONS FIGURE 3.6.dwg

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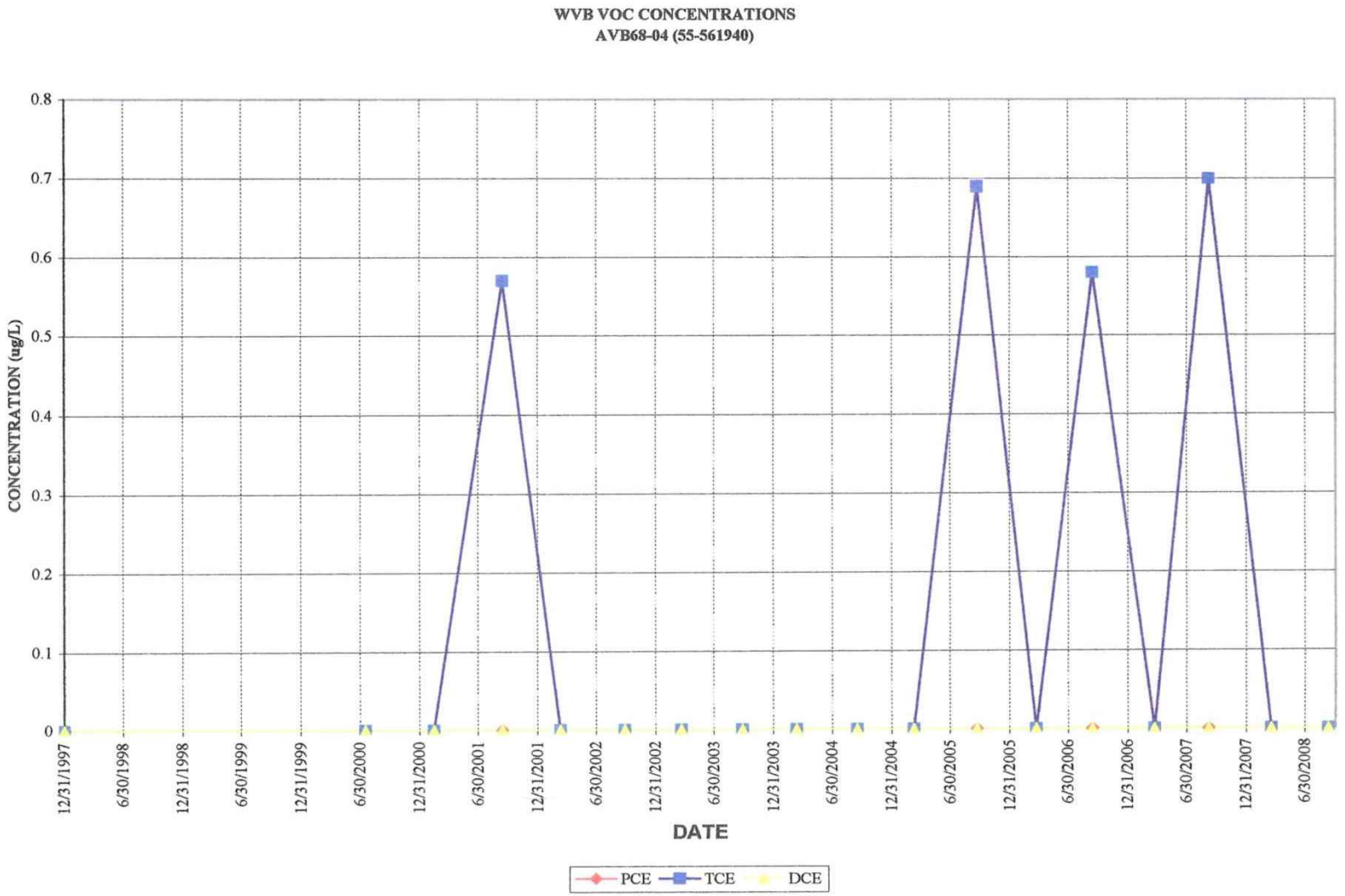
FIGURE 3.6
UAU 2 1,1- DCE CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA

Middle Alluvial Unit (MAU1) Results

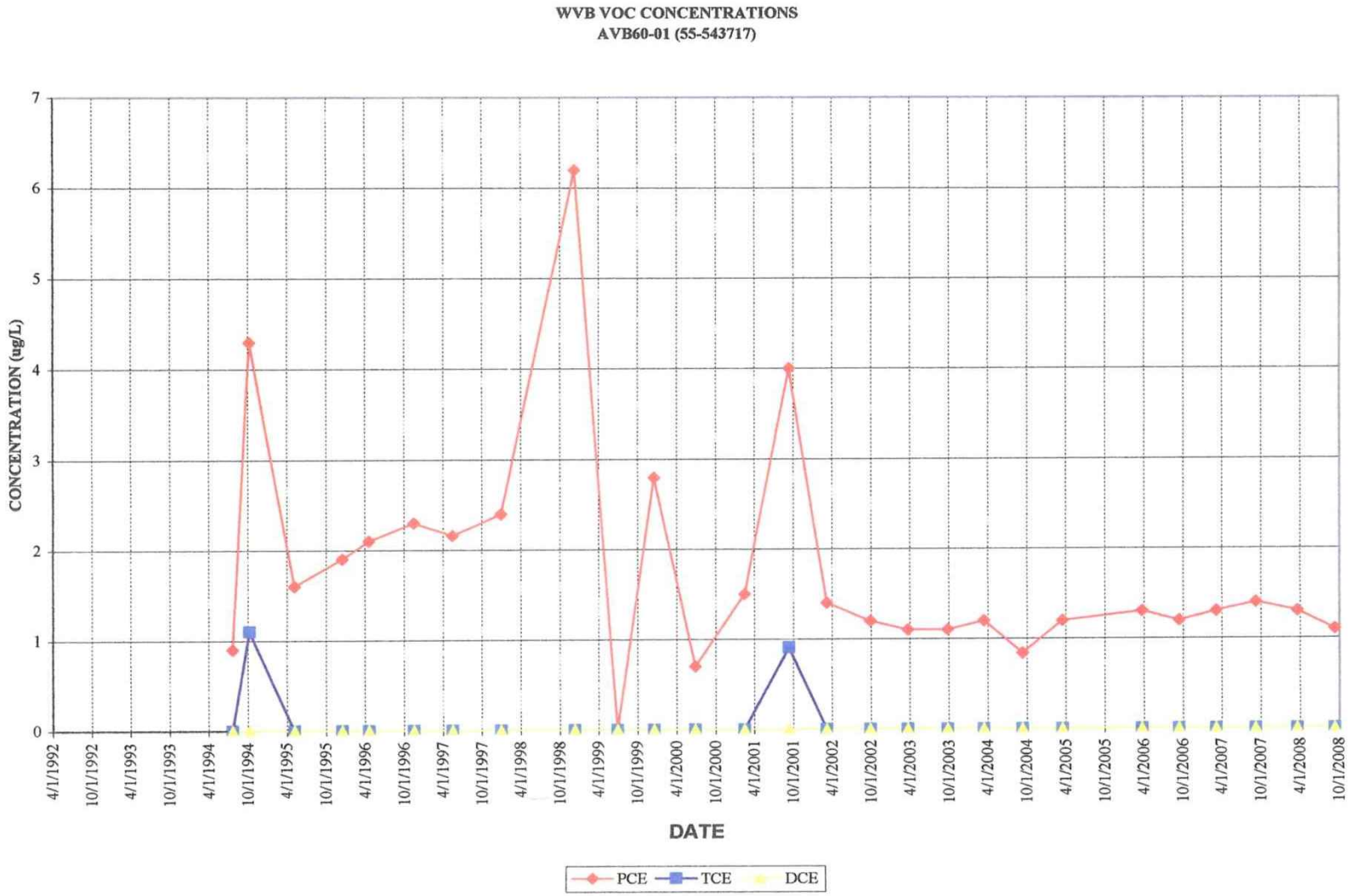
- PCE, TCE, 1,1-DCE exceeded their AWQS, at well AVB82-01 only. PCE also exceeded the AWQS for PCE at well AVB82-02.
- Water levels have decreased approximately 13 feet over the past six months

Eastern MAU



NOTES: LABORATORY RESULTS OF NON-DETECT ARE DISPLAYED AS "0" ON GRAPH.

Western MAU



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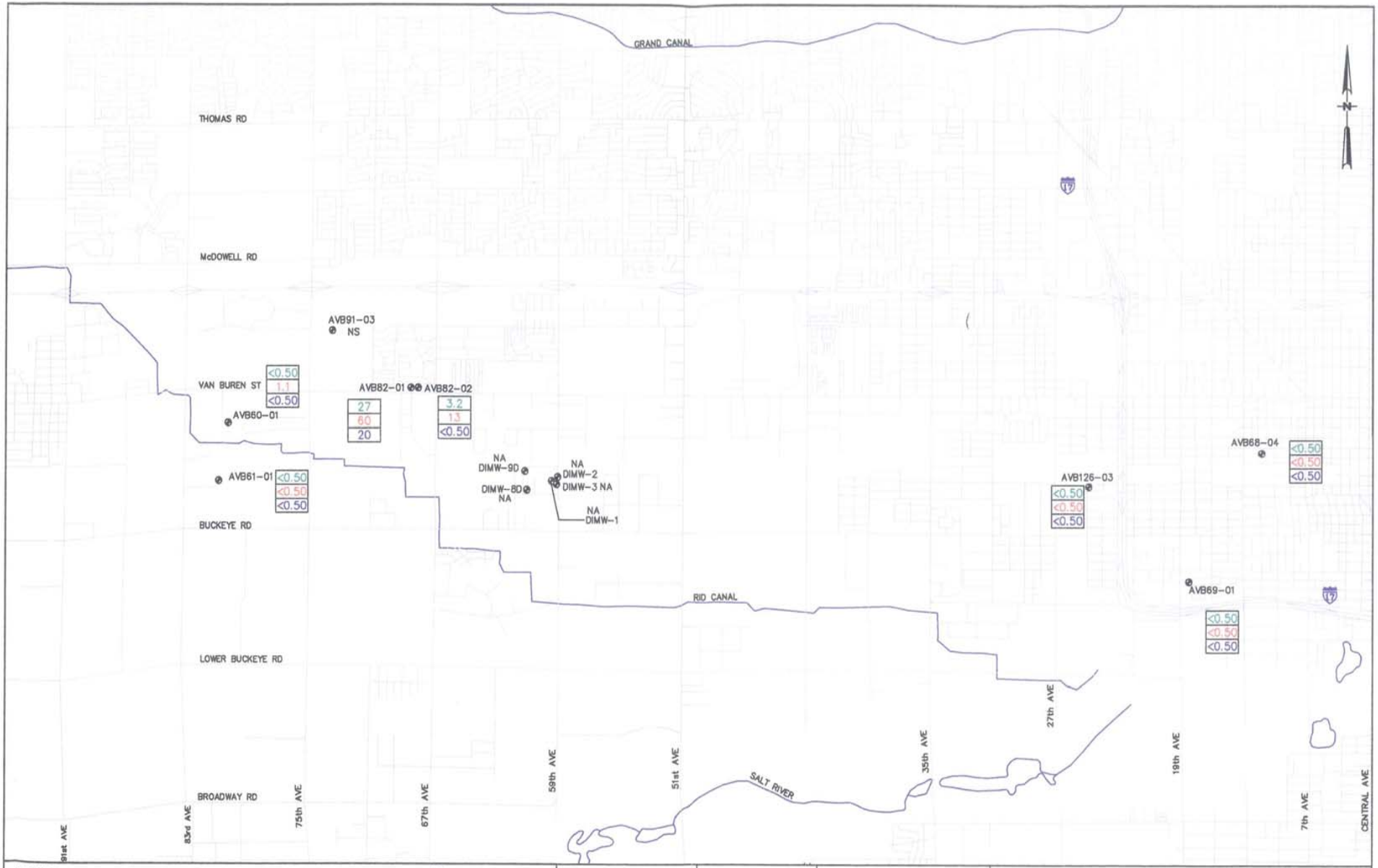

LEGEND

AVB60-01 – WELL IDENTIFICATION NUMBER
DCE – 1,1 – DICHLOROETHENE (ug/l)
PCE – TETRACHLOROETHENE (ug/l)
TCE – TRICHLOROETHENE (ug/l)

NA – NOT AVAILABLE
⊘ – APPROXIMATE WELL LOCATION
NS – NOT SAMPLED

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-19	DATE:	11/06/08
DRAWN BY:	DAG	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

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FIGURE 3.7
MAU CONTAMINANT CONCENTRATIONS
THIRD QUARTER 2008
WEST VAN BUREN AREA WQARF SITE
PHOENIX, ARIZONA

U:/Projects/03103154/Phase 19/3rd QTR 2008/MAU Contaminant Concentrations Figure 3.7.dwg

Well Drilling Event For October 2008

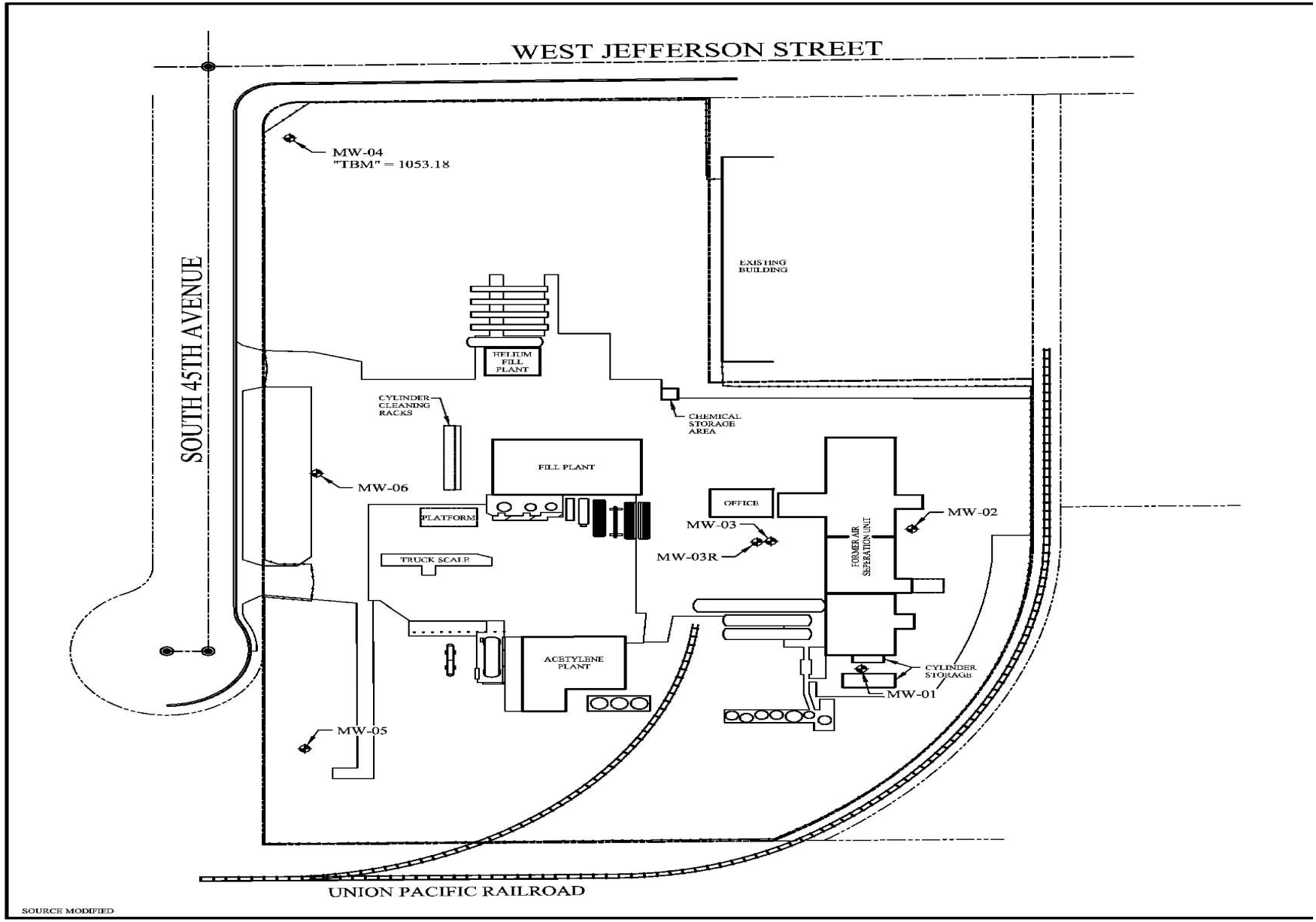
- A well was drilled within Smith Park (Grant St. and 41st Ave) to provide better definition of contaminant concentrations and assist in identifying the horizontal and vertical extent of groundwater contamination.
- The well was drilled into the MAU to 350 below ground surface.

Investigation is being conducted by Air Liquide America Specialty Gases LLC

- Air Liquide America Specialty Gases LLC installed 4 additional onsite groundwater monitor wells at their facility at 301 S. 45th Ave.
- Water-level measurements are collected on a monthly basis.
- Groundwater samples were collected in February, March, June and September and December 2008.

Investigation is being conducted by Air Liquide America Specialty Gases LLC

- COCs detected in groundwater samples at Air Liquide include: PCE, TCE, 1,1-DCE, cis 1,2-DCE, 1,1-DCA and TCA.
- COCs exceeding the AWQS include: PCE and TCE
- Air Liquide submits monthly status reports
- Air Liquide has submitted the well completion report
- ADEQ is awaiting water quality data reports for 1st qtr, 2nd qtr and 3rd qtr 2008

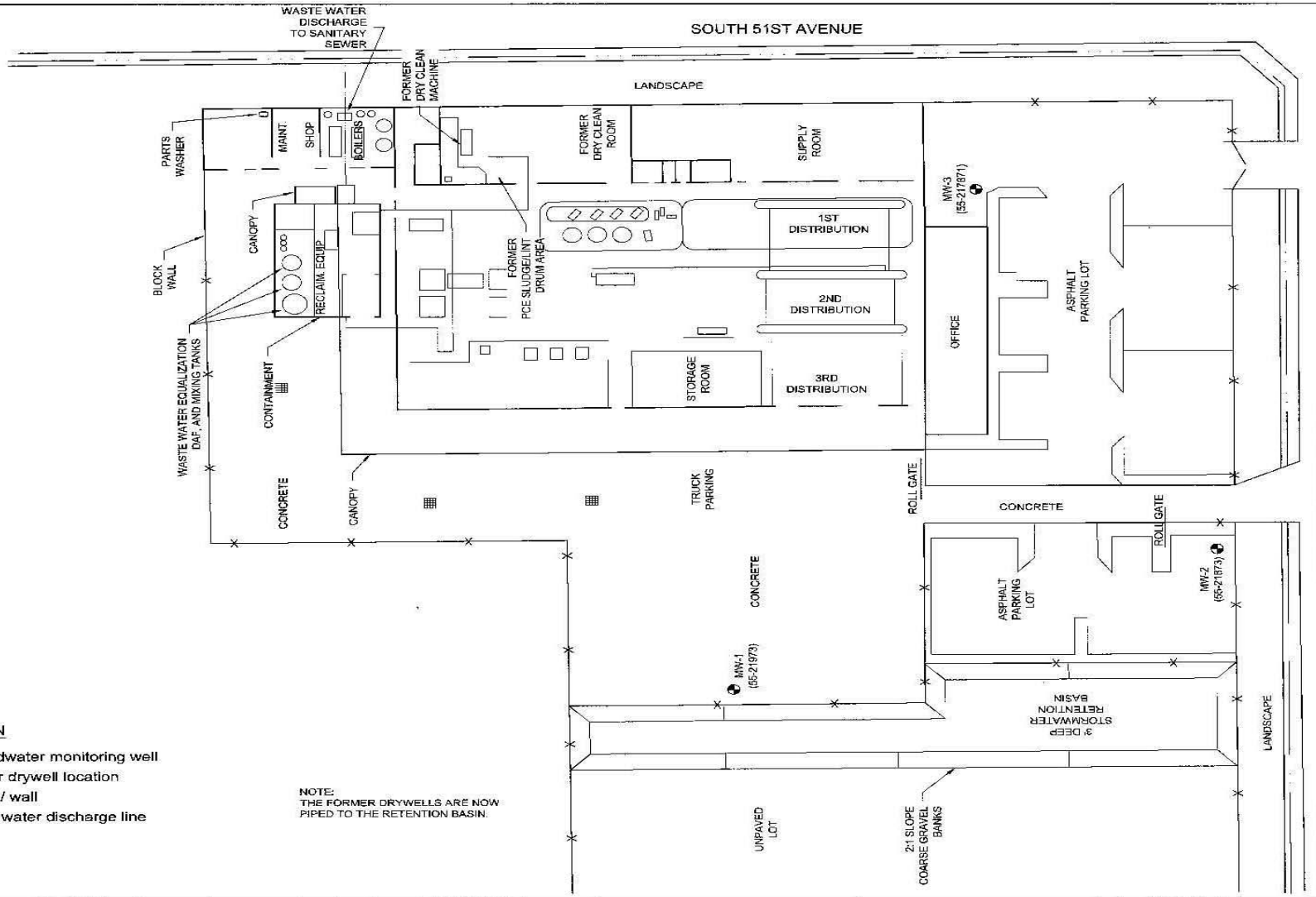

WEST JEFFERSON STREET
SOUTH 45TH AVENUE
MW-04
"TBM" = 1053.18
EXISTING BUILDING
HELIUM FILL PLANT
CYLINDER CLEANING RACKS
CHEMICAL STORAGE AREA
FILL PLANT
MW-06
PLATFORM
OFFICE
MW-03
MW-03R
MW-02
FORMER AIR SEPERATION UNIT
TRUCK SCALE
ACETYLENE PLANT
CYLINDER STORAGE
MW-01
MW-05
UNION PACIFIC RAILROAD
SOURCE MODIFIED

Investigations being conducted by Prudential Overall Supply

- Prudential Overall Supply has conducted a passive soil vapor study and installed 3 groundwater monitor wells at their facility at 5102 W. Roosevelt St.
- COCs detected in the soil vapor include: PCE, TCE and 1-2 DCE.
- Groundwater samples were collected in August, September and December 2008.

Investigations being conducted by Prudential Overall Supply

- COCs detected in groundwater samples include: PCE, TCE and cis-1,2 DCE.
- COCs exceeding the AWQS include: PCE and TCE.
- Prudential has submitted 45-day status reports along with a monitor well installation report, a passive soil vapor survey report and an additional active soil gas sampling work plan and 4th qtr 2008 groundwater monitoring report.



Reference
Miller Bro
Work Pla
Investigat
Departme
Remedial

REFERENCES:	NO.	REVISION	DATE	APRVD
PLANS				
DATUM				

DRAWN LD
DESIGNED AM
CHECKED
REVIEWED

AMEC Geomatrix

AMEC Geomatrix Inc.
8777 East Via de Ventura, Suite #396
Scottsdale, Arizona 85256
(480) 348-1244

Prudentia
5102 West
Phoenix,
MONITOR

Plot Date: 08/08/08 - 4:04pm, Plotted by: Linebaugh
Drawing Path: N:\Geomatrix\Prudential\Well Application\, Drawing Name: Prudential Fig 02 Monitor well location.dwg

Draft Remedial Investigation Report

- Terranext on behalf of ADEQ issued the draft remedial investigation (RI) report for WVBA to meet the requirements established under Arizona revised Statues (ARS) §49-287.03 and Arizona Administrative Code (AAC) R18-16-406.
- The public notice on the availability of the draft RI was issued on Friday October 31, 2008 in the Arizona Republic. The notice was also posted in La Voz on Saturday November 1, 2008.
- These notices started a 60-day comment period. Comment period ends on December 30, 2008.

Draft Remedial Investigation Report

- Comments were received from 5 parties:
  - Brown and Caldwell
  - EPA's Superfund program – Region 9
  - Univar USA, Inc.
  - Lindon Park Neighborhood Association
  - Roosevelt Irrigation District
- Air Liquide America LP submitted a name change to Air Liquide America Specialty Gases LLC
- All comments will be addressed in a Responsiveness Summary and included in the final copy of the RI report.

Future Planned Work

- Review comments to the draft RI report and prepare responsive summary.
- Prepare ROs.
- Finalize 3rd Qtr Groundwater Monitoring report.
- Finalize Well Installation report.