

OU #12-013

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

**Thursday, August 4, 2011 at 6:00 p.m. to 8:30 p.m.
Goodyear City Hall, Room 117
190 N. Litchfield Rd., Goodyear, AZ 85338**

FINAL MINUTES (Version 1)

**Note: Due to the absence of the complete audio for this meeting.* As determined by the CAG this original set (Version 1) of minutes for this August 4, 2011 meeting were found lacking by a number of the committee members and to help correct that after the fact, the CAG decided to accept two versions of transcripts of this meeting and therefore that is the reason why there are two versions of meeting minutes for August 4, 2011 and both versions were accepted in their totality together inspired.

CAG Members in Attendance:

Diane Krone-Co-chair
Brenda Holland-Co-chair
Lisa Amos
Jeff Raible
David Ellis
Frank Scott

ADEQ Staff in Attendance:

Julie Riemenschneider, Remedial Projects Section Manager
Harry Hendler, Federal Projects Unit Manager
Nicole Coronado, PGA-North Project Manager
André Chiaradia, PGA-South and Western Avenue Project Manager
Wayne Miller, Hydrologist
Joellen Meitl, Hydrologist
Travis Barnum, Project Manager
Felicia Calderon, Community Involvement Coordinator (CIC)

EPA Staff in Attendance:

Catherine Brown, Remedial Projects Manager
Viola Cooper, CIC

Others in Attendance:

Nadine Johnson, Environmental Community Outreach (ECO) Association; Sarah Wilkinson, UofA; Jerry Postema, City of Goodyear Public Works; Sandra Rode, City of Goodyear Public Works; Brian Waggle, Hargis + Associates; Rob Wilhem; Michael Long, Hargis + Associates; Jeff Littell, Brown and Caldwell; Dennis Maslonkowski; Jim Creedon, Crane Company for City of Litchfield Park; Mike

Hansen, Matrix New World Engineering; Harry Brenton, Matrix New World Engineering; and Stephanie Lyn Koehne, AMEC Geomatrix Inc.; Mary Moore, Lindon Park NA; Randy McElroy, ECO/TA; Joe Husband, Phoenix-Goodyear Airport; David Madrid, Arizona Republic; Deb Mrstik, Faith Harvest Church; Tom Goodwin; Larry & Cindy Gura, Dale Creek Equestrian Village.

1. Call to Order / Introductions – Brenda Holland, CAG Co-chair

Ms. Holland, CAG Co-chair, facilitated the meeting.

2. Acceptance and/or changes to minutes of May 5, 2011-Ms. Holland, CAG Co-chair

Mr. Raible moved to have the meeting minutes from May 5, 2010, approved with one edit on page 2, item 4 changing the next meeting date from August 5th to August 4th. Mr. Scott seconded. The May 5, minutes were approved unanimously by the CAG.

3. Discussion of community involvement activities-Diane Krone, CAG Co-chair

Ms. Johnson introduced the outreach presentation to be used for educating and distributing to the community. Ms. Johnson added that the presentation can be used in full or part for multiple CAG speaking engagements and education purposes.

Ms. Johnson added that once all editing, including CAG feedback, is considered she will post the presentation on the website for easy access and distribution.

Ms. Johnson indicated she had created a very comprehensive presentation that has all the information from an interim level to a technical level to edit as appropriate for the audience level.

The CAG reviewed draft handouts that Ms. Krone and Ms. Calderon were working on to quickly orient community members regarding key elements for all three sites (PGA-North, PGA-South and Western Avenue). It was announced that ECO would take over this assignment and finalize these handouts.

4. Technical Assistance Grant (TAG) Report- Nadine Johnson, Environmental Community Outreach Association (ECO)

Ms. Johnson introduced the new Technical Advisor (TA) Mr. Randy Mackelroy. Ms. Johnson stated to request Mr. Mackelroy's assistance on any project the CAG wanted to pursue to please first contact her.

Ms. Johnson exhibited the ECO Web site for the PGA Site. Ms. Johnson requested CAG recommendations and ideas for managing the site.

Prior to the CAG taking a break; Ms. Holland indicated that an article that Mr. Raible had submitted to the local newspaper was great for citizen awareness. Ms. Holland then asked if Mr. Raible would be willing to volunteer to keep coordinating the placement of Site related articles in the newspaper. Mr. Raible agreed to coordinate.

The CAG took a 5-minute break.

Call to order at 6:30 p.m. Ms. Holland called for introductions of all meeting attendees. Ms. Calderon explained concentration analysis and acronym handouts available to new meeting attendees.

5. Update of PGA-South activities- Dennis Maslonkowski, Consultant for Goodyear Tire & Rubber Company

Mr. Maslonkowski presented updates on plume locations, cleanup progression and current activities and status of remediation for PGA-South.

See slide presentation below

Ms. Krone inquired about the Chromium and the month shut off of the well and the before turn on and after turn on sampling that is to start mid-August, with the results available the following week for comments. Ms. Krone asked that he let Ms. Calderon know about the GAC 04 Report before the meeting.

Ms. Holland questioned if there was an actual remediation plan in place and Mr. Maslonkowski said that they are reviewing historical information due to the contaminant fluctuations. Ms Krone asked if there was an approved remediation plan for chromium. Mr. Maslonkowski responded that they are working with the agency to understand the reason for the fluctuations in chromium concentrations as they are not sure if the fluctuations are a function of the sampling method or the actual northern plume.

Ms. Krone asked if the Chromium area was growing at the GRC Goodyear property. Mr. Maslonkowski indicated that they are looking at that to see if there are enough wells to determine that. Ms. Amos questioned how long Goodyear has been aware of the situation and Mr. Maslonkowski indicated that they have been aware of this since the late 90's.

6. ADEQ report on Western Avenue (WA) WQARF and PGA-South site activities-André Chiaradia, ADEQ Project Manager

Mr. Chiaradia reviewed with the CAG historic attributes of the WA site and the ongoing monitoring efforts. He also stated that ADEQ was pleased with the reduction in contaminant concentrations in the subunit A plume and contaminant levels in the City of Goodyear drinking water well COG-01.

See slide presentation below

Ms. Krone questioned if all the wells in the WQARF site were in a shallow aquifer and was there concern about the deeper aquifer and should wells be installed there. Mr. Chiaradia said that in order to install a well in the deeper Subunit C aquifer there would need to be triggers before a new well could be installed. He added that if they saw more dramatic fluctuations in PCE levels then work would begin to develop a contingency plan. Ms. Krone responded by saying that she is not comfortable that the State doesn't have enough money or a contingency plan in place. Mr. Chiaradia stated that it was not an issue of funds, but that ADEQ would continue to monitor the concentrations in COG 1 and discuss how to go about preparing for an action plan, if contamination was discovered exceeding the regulatory standard. Mr. Chiaradia continued to say that the State's highest priority is to ensure safe drinking water.

Mr. Ellis asked if COG 1 was the oldest well. Mr. Chiaradia said that it was originally an agricultural or irrigation well and was installed in 1957. Almost all the older wells have issues with the integrity of their casing and have had to have the casing re-sleeved. The newer wells are put in differently and typically don't have the same issues. Mr. Ellis indicated his concern that the screening in COG 1 was in the shallow upper aquifer. Mr. Chiaradia responded that they were watching COG 1 for changes and any fluctuations or serious jumps above regulatory limits would prompt a serious discussion on a contingency plan, but that the well was not screened in the upper aquifer.

Ms. Amos wanted to confirm that there were no contingency plans on the shelf. Mr. Chiaradia stated that there were still unknowns and before a new well could be installed the question to first be answered would be where they would place a new and deeper well. Mr. Chiaradia added that given that the Perchloroethylene (PCE) concentrations are below the maximum contaminant level (MCL) or Arizona Water Quality Standard (AWQS), putting a well in the same place would be fruitless unless it was put in to address other issues. Mr. Chiaradia stated that the groundwater concentrations in the deeper aquifer have not reached MCL and are confined to the shallow unit for the past 15 years. Mr. Chiaradia added that currently the plan is to prepare a feasibility study and to watch contaminant levels in COG - 1.

7. Update of PGA-North activities –Stephanie Lyn Koehne, AMEC Geomatrix, Inc., Project Manager

Ms. Koehne, AMEC Geomatrix, Inc. stated that they will be sending the CAG weekly updates on the activities of the project including the City updates. Ms. Koehne added that COG-3 updates to the CAG will be done on a bi-weekly basis.

See slide presentations below

Ms. Krone asked if the flow of water was away from COG-3, how the trichloroethylene (TCE) get there. Mr. Brenton responded that in the 90's the system malfunctioned and was injecting untreated water in to well COG-2, which was abandoned. Mr. Brenton added that COG-2 acted as a conduit and allowed the contaminates to move downward into the C Subunit. Mr. Brenton stated that predominate flow is seen to the northwest. Ms. Krone inquired how can there be water flow to the North. Mr. Brenton responded that when COG 3 pumps it can shift the water flow. Mr. Brenton went on to detail the contingency plan for COG 3, if it should become impacted by contamination at the specified level of action. Mr. Brenton stated that Crane Co. would take the necessary steps to provide wellhead treatment for the City of Goodyear, if this well became impacted. Ms. Krone indicated she was concerned about the contingency treatment and what if that doesn't fix the faults in the well. Ms. Krone questioned why COG-2 was closed/abandoned and why are they not considering closing/abandoning COG-3 instead of going to wellhead treatment. Mr. Mike Hansen indicated that it was a legal issue and needed to be addressed with the City of Goodyear directly.

Ms. Holland indicated, as a member of the Pebble Creek community, that it was an older community and they didn't completely understand the necessity for the well and didn't want to be impacted by the construction of the well. Ms. Holland also added that publicity will help with their understanding of the necessity of the well (like the article discussed earlier) and that it would be a good idea for a liability representative for the water company to attend the meeting since they don't get their water from the City of Goodyear. Ms. Amos asked if the CAG could attend the meeting with the Pebble Creek community and agencies. Mr. Scott offered to check with the Palm Valley Council members and talk to the Mayor, if necessary about the issue and report at the next meeting.

8. PGA-North activities-Nicole Coronado, ADEQ Project Manager

Ms. Coronado asked if everyone still wanted to receive her monthly update that she provided. Ms. Koehne added that she would also start to send monthly and weekly updates to the CAG. It was decided that a final determination of receiving all these updates would be made at the next CAG meeting.

9. U.S. EPA update for PGA-North activities – Catherine Brown, U.S. EPA Remedial Project Manager

Ms. Brown stated that the source area focus feasibility study and time frame for the EPA to approve the response to comments and soil gas workplan request are pending and they are working with Goodyear underpinning a conceptual site model agreement and will be due 90 days following its completion. Mr. Ellis indicated it would be helpful to have trends, charts or analysis in larger formats as well as larger maps showing bigger drinking water well identifications.

Other CAG business-

Ms. Calderon stated that scheduling the CAG technical meeting is still underway, and that she would continue to communicate meeting details with the CAG. After some CAG members stated that this meeting was not necessary, Ms. Calderon stated that she would report back at the next CAG meeting if such a meeting was still desired by a majority of CAG members.

Ms. Krone inquired about the requested financial breakdown for what each water company and/or City had spent with regard to the superfund sites. Ms. Krone asked Mr. Postema, City of Goodyear Public Works to give an update. Mr. Postema indicated that the City was still compiling all of their existing and potential expenses and with new information brought to light by Ms. Krone they will be researching that data and adding it to the existing data. Mr. Postema indicated that there was no completion date available yet.

10. *Call to the Public

Ms. Moore inquired of Chromium in the PGA South area and the 100/litre Hexavalent. Mr. Maslonkowski responded that there is a PCE/Chromium intercept well in between the sites and that only PCE is above the EPA standard and there has been no elevated chromium.

Mr. Goodwin read articles and legislation and then asked questions about the occurrences of increased TCE in soft drinks with regards to asthma and bronchitis. Mr. Goodwin indicated that Tucson had a similar issue and asked if they were being used as a resource to perhaps combine or share funds. Ms.

Brown indicated they have been in contact with Mr. Mussen, the EPA Hydrologist in Tucson and are working with him. Mr. Goodwin also read from the Environmental Public Works Committee (Senate) Report on TCE. Mr. Goodwin said he thought special education to the public about these issues would be helpful. Ms. Calderon thanked him for his input.

12. Future meeting and agenda items discussion

Ms. Amos indicated that it has been some time since the last site tours and felt that they were beneficial to the continuing understanding of the issues and Ms. Krone agreed. Ms. Brown indicated that the tours typically happened in the spring when the weather was cooler and they would coordinate with the CAG members as the time approached.

The next CAG meeting was scheduled for Thursday, November 3, 2011 at the Goodyear City Hall, 190 N. Litchfield Road., Goodyear, AZ. Suggested agenda topics for the next CAG meeting included: updates on PGA-North, PGA-South, Western Avenue activities and ECO/TAG update.

11. Adjournment

Ms. Holland adjourned the meeting.

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Madrid, Arizona Republic; Deb Mrstik, Faith Harvest Church; Tom Goodwin; and Larry & Cindy Gura, Dale Creek Equestrian Village

Call to Order / Introductions – Brenda Holland, CAG Co-chair

Ms. Holland, CAG Co-chair, facilitated the meeting.

1. Acceptance and/or changes to minutes of May 5, 2011-Ms. Holland, CAG Co-chair

Brenda Holland: Is there a motion to approve the minutes?

Jeff Raible: I humbly approve the minutes from the last meeting.

Frank Scott: I second.

Felicia Calderon: I was made aware of a correction on page 2, under item 4 for the upcoming activities. There is a misprint on the date of August 5. I have it listed as August 20. I will make the correction.

Brenda Holland: I have a motion and a second and all those that approve, say “aye”.

Unanimous: aye

Brenda Holland: All those opposed say nay. Thank you. Then we can move onto number three, Diane?

2. Discussion of community involvement activities-Diane Krone, CAG Co-chair

Diane Krone: Nadine from Environmental Community Outreach Association (ECO) received the grant from EPA to initiate outreach for the sites and so I really don't have much to say here, I am going to turn it over to Nadine but Nadine and I have been working on a presentation and she has a rough draft already in PowerPoint. So, I think I will just turn it over to Nadine.

Nadine Johnson: So at the last meeting we talked about developing a joint CAG/ECO presentation that we can do outreach in the community and Diane and I have met and we have drafted this PowerPoint. It is a very lengthy PowerPoint, so it is not complete yet. I gave you guys a draft of the slides to review so that we don't have to go through it here tonight. This is just a really rough draft. Basically what we've done is put all of the components that we want to present but we don't have the data connected to it yet. What we want you to do is take it home tonight or in the next week or so and look at it and off-line, individually, provide me feedback. If you see anything that you'd like to add or have comments or concerns about anything that is part of this presentation you can let me know off-line. What I can do is I can email you the actual presentation so you can see it in full screen and then we are going to be working on actually getting the data put to it. Then probably within the next month we will have a final version that we will post on our web site and everybody will be able to access it and take it out to the community and use it for individual purposes.

Brenda Holland: Thank you Nadine. We really appreciate that. It will help a lot.

Jeff Raible: I have a question and a request. My question is, is it still the expectation that the presentation is going to be longer than we might want it for this particular situation? The idea is that we would be able to pick and choose pieces anytime we want to use this information. Are you going to give us everything, we might possibly want to use and make comments to it and all the...inaudible.

Nadine Johnson: Yes. We are basically writing a very comprehensive PowerPoint that has all the information from the beginner level to the little bit more of a technical level depending on what your audience needs. And as we get information on north and south, so depending on where you are going you can hide screens that you are not actually going to need and just show the ones that are particular to your audience. We are hoping to provide at least as much information about the whole entire...inaudible...and then somebody who didn't know anything about anything and wanted everything, we could put this whole thing up and look at it.

Jeff Raible: Ok, then my request was that you've asked us to look over this in the next week or so, could you give us a specific date, say give me the feedback by an actual date?

Nadine Johnson: When I send the PowerPoint out I will put a date. We've been kind of working on this for the next couple of CAG meetings so I really want to get it done sooner than rather later. I am just looking at some events that might be coming up so I will come up with a timeline based on those events...inaudible.

Brenda Holland: We can use this for publicity as well as when we go out to speak about this.

Nadine Johnson: Yes, it is used...inaudible...the PowerPoint is generally used for more presentation but then we haven't talked about the brochures yet, but what we can do is take the same information to keep consistent information and I guess Diane had requested that some brochures be made available for the CAG on the north and south on the web site. Originally this was something that ADEQ was going to produce, but due to some of their policies and approvals and things like that, they've asked us to go ahead and work on this. So I'm going to be working on this and basically kind of pulling the same information into little mini information guides to have at these CAG meetings for you guys for people to...inaudible. So all the information will have the same consistently and same look and all that stuff. And they will be available on our web site and will be available to have...inaudible...and all that.

Brenda Holland: That sounds good because a lot of times they'll get an email from somebody and it would be nice to be able to send them something that's not...inaudible. Ok. Thank you.

Diane Krone: I know there are a couple of things that we are working on. I know that there was a discussion in GAG business about having technical meeting and I don't know where we are at on that one. So nobody is here from the EPA yet so we could maybe discuss that a little bit later?

Brenda Holland: I know there was one other thing that the CAG had requested and that was some financial breakdowns on what each water company or city had spent concerning this Superfund site. Jerry how are we doing on that?

Jerry Postema: Let me see, the City of Goodyear is still compiling on all of our potential and excuse me some of our existing expenses. So that has not included some real information brought to light by yourself. We are researching the information and trying to get that data and as well as included in the cost. So I don't have a specific date when I will have that available, but it is still in the works.

Diane Krone: Right, and they are a consultant who is now doing it...inaudible...a consultant for Avondale and Litchfield...inaudible...yeah, there you go and he is not here either. Yes. So it might have to be something we ask later.

3. Technical Assistance Grant (TAG) Report- Nadine Johnson, Environmental Community Outreach Association (ECO)

Nadine Johnson: I would like to report that the last meeting I think we were searching for a technical advisor and since then I have sent out an announcement that we hired a technical advisor. Randy, stand up. This is Randy Mackelroy. He is our new technical advisor and just started about a month ago when the emails went out. So he's been going through lots and lots of paperwork and trying to get up to speed on what's going on. So he's on board and with us and if you have any questions for him or you would like him to help you out with any information just send the request to me (Ms. Johnson) and we'll have him assist as appropriate. Then one thing as far as outreach goes. We talked about also sharing of space on our web site with the CAG and that is something that you had all wanted and were looking for visibility so we recently redesigned our web site. It's kind of hard to see because we don't have internet access here so I just did a screen shot, but in case I created a little site here for you guys which is a description of what the community advisory group is, your mission statement, a link to the...inaudible...top list and these cute little pictures that you sent me. Right now this just kind of docs page and it depends on what your ideas are for the site would be. But this is going to fall under the PGA site under our outreach projects. The left side is still a little bit in the works and especially the PGA site we haven't actually outlined the whole navigation of but, it will be there for you to see contacts of any and all stuff like that.

Felicia Calderon: I could send you the link to that page that way if you ever need somebody, they want to know about the CAG, you can send them to this page and it has...inaudible...the purpose of the advisory board, mission statement and there is a link that goes to your CAG contact address as well. So all of your contact information is there too?

Nadine Johnson: Yes, if you have any recommendations for anything on this site, just let me know. I manage the site so as long as it's appropriate I will...inaudible.

Brenda Holland: Any more comments about the web site? Thank you. I just wanted to also bring up to Jeff is that there is a great article that appeared in the paper. I really appreciate his comments. I don't know exactly how you got in there. Ms. Holland indicated that an article that Mr. Raible had submitted to the local newspaper was great for citizen awareness. Ms. Holland then asked if Mr. Raible would be willing to volunteer to keep coordinating the placement of Site related articles in the newspaper. Mr. Raible agreed to coordinate.

Brenda Holland: I know you weren't officially appointed to be a marketing expert.

Jeff Raible: And for good reason.

Brenda Holland: He did, he did. I thought the idea was so good that...inaudible...lots more in the past we had a CAG meeting...inaudible...and I was wondering if someone would like to volunteer to get a little article and...inaudible.... Again, very briefly, to the point, but it's a reminder that we really don't do enough. I send out some emails to my own community but so far...inaudible...haven't had any shown up....inaudible.... If somebody would like to volunteer that would be great. I don't want to push this off again. I think it's timely ...inaudible. Unless you really don't want to...inaudible...laughing.

Jeff Raible: I can coordinate it...inaudible...another member of our committee each quarter.

Brenda Holland: You can pull something together?

Jeff Raible: I can do that.

Brenda Holland: Great. I hear a volunteer....inaudible. We don't get too many of those these days.

Jeff Raible: Volunteer coordinator, but not marketing....inaudible.

Brenda Holland: Well, I use that word but this is kind of the same thing. It's publicity for us.

Jeff Raible: I will be happy to coordinate.

Brenda Holland: Is there anything else the CAG has to talk about? Ok, well in that case it is 20 after so we are ahead of schedule and we'll take a five minute break and we'll come back and start the technical parts of the meeting.

The CAG took a 5-minute break.

Call to order at 6:30 p.m. Ms. Holland called for introductions of all meeting attendees. Ms. Calderon explained concentration analysis and acronym handouts available to new meeting attendees.

4. Update of PGA-South activities- Dennis Maslonkowski, consultant for Goodyear Tire & Rubber Company

Dennis Maslonkowski: I am with TRC and I am a consultant for Goodyear Tire and Rubber. Jeff Sussaman is out of the country.

See slide presentation below

Dennis Maslonkowski: This is the concentrations in this last year for the hexavalent chromium plume in the northern TCE area. You can see MCL (maximum contaminant level) is 100 and we have two wells in this area that exceed that. Part of the request by agencies for further study is to better understand the chromium and propose to do this study.

Diane Krone: How are you going to remediate that? That is not pump and treat.

Dennis Maslonkowski: You can do it with pump and treat through ion exchange. There are certain methods you can do it with in-situ treat. I think last meeting Paul talked about the iron could treat perchlorate and chromium. There are different methods.

Unidentified Speaker: Did you say it takes it down from...inaudible, can you distinguish that?

Dennis Maslonkowski: Yes. When we do our analysis we...when are talking about the chromium that is dissolved in the water and in general, there are different methods to look at that. If you look at the total dissolved chromium and typically for ground water systems the greatest percentage of that is usually the hexavalent chromium. Some people kind of use it to discuss...inaudible. There are some differences in that that. The 100 microgram MCL is actually the MCL for total chromium. There is no MCL for hexavalent chromium. But most of what is in the ground water is actually hex chrome.

Brenda Holland: Will you make sure we get the results of the sampling? I think there is speculation why that has happened. I know you guys are working on that and why you have so much higher TCE in that well.

Dennis Maslonkowski: Yes, we will turn that back on and will be getting a lot more data and we'll report that and you'll have that data...inaudible.

Brenda Holland: Ok. That will be good. Any questions from the CAG members?

Diane Krone: Do you have a...inaudible? Is there actually a plan in place?

Dennis Maslonkowski: What we are going to do is go back and find a better understanding about the actual extent. We do see from time to time some fluctuation of the results. We are not sure if that is because of the way we sample? So first, we want to know how to confirm what we've got and we also...inaudible...the other thing we are...inaudible...some of the wells in the northern plume, some of them are the ones zone unless it's a pretty big pocket so we really want to look at that in cross-sections and look at the flow and kind of see if it makes sense to maybe add another well about of here. We see it if is here, but...inaudible. We kind of want to do that and then make sure we understand. We are not seeing it above 100 after the extraction. So we only see it very high closer to the GRTC boundary.

Dennis Maslonkowski: Well, we need to look at the data. That part is what...inaudible.

Diane Krone: How long have you been aware of this chromium?

Dennis Maslonkowski: It's been on the timeline, I believe we started monitoring for it in the late 90's.

Diane Krone: So is it typical to take so long to isolate and treat?

Dennis Maslonkowski: Actually, one of the purposes of the EC-101. Actually that first extraction well that went in was very close to the high concentration. Part of that was to target that chromium. I don't know if we showed that. It was right in the area near those two monitoring wells that had the high concentration. That where we went to EC-101. For some reason, even though it was very close, it wasn't pulling the chromium to treat. So then we had to focus on the TCE which was offsite above the 5 so we had to put the well way out there. So we did it to try and get the higher concentration of chromium. And I don't really know why they weren't working. We bracketed the uh, we did delineate the chromium plume to the 100 mg...inaudible.

Diane Krone: Just refining?

Dennis Maslonkowski: Yes. We know it is not getting away from us but we need to figure out where it really it is. We know it's in just those few wells and we need to know why is it...inaudible.

Diane Krone: ...inaudible...Which is the best approach?...inaudible Thank you Dennis. Well done.

5. ADEQ report on Western Avenue (WA) WQARF and PGA-South site activities-André Chiaradia, ADEQ Project Manager

Mr. Chiaradia reviewed with the CAG historic attributes of the WA site and the ongoing monitoring efforts. He also stated that ADEQ was pleased with the reduction in contaminant concentrations in the Subunit A plume and contaminant levels in the City of Goodyear (COG) drinking water well COG-01.

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Diane Krone: questioned if all the wells in the WQARF site were in a shallow aquifer and was there concern about the deeper aquifer and should wells be installed there.

Andre Chiaradia: said that in order to install a well in the deeper Subunit C aquifer there would need to be triggers before a new well could be installed. He added that if they saw more dramatic fluctuations in PCE levels then work would begin to develop a contingency plan.

Diane Krone: responded by saying that she is not comfortable that the State doesn't have enough money or a contingency plan in place.

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Mr. Chiaradia: responded that they were watching COG-1 for changes and any fluctuations or serious jumps above regulatory limits would prompt a serious discussion on a contingency plan, but that the well was not screened in the upper aquifer.

Lisa Amos: wanted to confirm that there were no contingency plans on the shelf.

Mr. Chiaradia: stated that there were still unknowns and before a new well could be installed the question to first be answered would be where they would place a new and deeper well. Mr. Chiaradia added that given that the Perchloroethylene (PCE) concentrations are below the maximum contaminant level (MCL) or Arizona Water Quality Standard (AWQS), putting a well in the same place would be fruitless unless it was put in to address other issues. Mr. Chiaradia stated that the groundwater concentrations in the deeper aquifer have not reached MCL and are confined to the shallow unit for the past 15 years. Mr. Chiaradia added that currently the plan is to prepare a feasibility study and to watch contaminant levels in COG-1.

7. Update of PGA-North activities; Stephanie Lyn Koehne and Harry Brenton, AMEC Geomatrix Project Manager

See slide presentation below

Harry Brenton: I am a Geologist with Matrix New World, a consultant for the Crane Company. We are going to give a brief summary of some of the recent activities at PGA North.

Stephanie Koehne: I am a project manager for the PGA North Superfund Site for Crane Co. just to start this off I just want to let everybody know. This presentation is a little briefer than what we've done in the past. The reason why is we're spending quite a long period of time up here trying to explain obviously a very large area. There is a lot going on that we do on a quarterly basis. So what we've started, or what we've started to do isinaudible. You will see that you will have....inaudible...weekly updated. Then we'll also cc you guys on the city updates that are sent to the City Avondale, City of Goodyear, Litchfield Park. If you have any questions during that time, feel free to contact Harry or I and or Nicole for further concerns or any questions answered. This information will almost include everything that we do at the

site. So if we are installing monitoring wells. Where they are? What's the progress? Getting access? Is there a roadblock? Is there construction, about all the treat systems, so if the system goes down you guys will be aware of that and why are we down and for how long. And then work associated with any of the treatment systems. Any updates associated with that will all be in there. Some sections for COG-3. So during the summer that is actually sampled on a bi-weekly basis so that data will be in there and available to you as well.

Brenda Holland: That's good, because it can be overwhelming when we get it all at one time.

Stephanie Koehne: Yes, that is what we were feeling. We felt there was not enough time and there were so many questions that we figured we could alleviate some of those questions and concerns through the quarter that....inaudible.

Harry Brenton: Then with the monthly reports, as a courtesy you receive that additional part. We kind of give you a monthly synopsis of our monthly reports that we sent into the EPA and agencies to focus in on some of the northeast area where a lot of TCE....inaudible...water supply to make sure that...inaudible to assure them that the cleanup is going according to plan. We do a lot of testing on 80+ monitoring wells in Subunit A and Subunit B....inaudible. We also sample water supply wells for drinking water and some irrigation wells as well...inaudible. We have all of our soil and groundwater treatment systems are fully operational so we have a total of I believe 5 total treatment systems that we operate. We've expanded kind of our treatment operations in the northeast area, where a lot of the supply wells are and really our efforts have pertained to specifically...inaudible...in the area. So we were essentially protecting the water supply wells and we are working with EPA toward a mutual....inaudible...to control this Subunit A and Subunit C.

Diane Krone: I got one thing that I am confused about, did you know the remediation program and moving toward, what does that mean?

Harry Brenton: Well we are just looking at....inaudible....to subject matter...inaudible...but now we think were having a good relationship with the EPA and the other...inaudible...we are working on a collectively...inaudible for testing and understanding the contaminants....inaudible and take the appropriate steps through extraction wells to control the plumes....inaudible.

Stephanie Koehne: That well...inaudible...before...inaudible?

Diane Krone: I am just kind of confused on what that meant. If it was something different from what that....inaudible

Stephanie Koehne: No, I think that definitely over the last couple of years there is probably...inaudible...What do you call it, there is no...inaudible...towards moving, towards the ...inaudible...associated with PGA North. So we working closely with the EPA....inaudible...agency in order to move towards that and...inaudible.

Mike Hanson: I think that the real terminology in our mind is that the one that we worked on over the past few years in the northeast, so we put in new extraction wells, doubled the extraction capacity, put in 5 injection wells on the property, that's the northeast area. We have 33-A in the northwest and we augmenting kind of that northwest central area with EA-08 project that will come on-line in probably about a few months. What we are looking at conceptually now with the EPA and ADEQ and have talked about it conceptually at some of the meetings but Crane is starting to program, money is in the budget for that to expand the northwest regional area to include injection wells in that area similar to what we are

doing in the northeast area. So I don't have a lot of specifics of that but we want to take the water, that is available from 33-A and AE-08, and inject it and form a hydraulic barrier there and then what I see is that another...inaudible...regional treatment system. One would kind of be the main treatment system in Subunit A on the...inaudible...property, including EA-02. So that source is pumping we talked to Crane conceptually about expanding that and increasing the master mobile on-site. We have been doing some small projects...inaudible...to get 10% or 20% increase of flow coming here to look at something that we can roll out. This is something that is probably a 5 year review was another phase with another extraction well on site more of the scope of an E-05 or E-06 or E-07. And then I think the last one would be the last region, I guess would be the Subunit C so that's the contamination that is emanating from the site and south of I-10. We have 3 extraction wells in there now and we are looking at are those extraction wells doing a good job and we are doing some more characterization there. So would be kind of, in my mind, a fourth region that takes us to even go to a fifth region, which would be the source area. We talked a lot about that in the last meeting. We are working with EPA on feasibility study for that. Most of that source treatment...inaudible...high concentration area. I think that is the concept is can we look at these big blocks of space and figure out the plume and focus in on them and make sure each area...inaudible. The different areas are probably going to have different objectives and so we can design and modify the systems before it...inaudible.

Harry Brenton: Any other questions? So these are kind of some of the regions that Mike talked about. This is the northwest area here. This is the...inaudible...region. This is the E-05 system that sits up here. This is the main treatment system right here. So we have up here E-06 and E-07, we have two extraction wells. We have a total of 5 injection wells,...inaudible...for 33-A we have and 1 extraction well. This water gets right gets used by RID and also to use as water to irrigate some of golf courses in the area down here. EA-05 is another extraction well here and we have another injection right here to treat the water and inject here as...inaudible. The main treatment system has a total of 8 extraction wells; 3 of these extraction wells are in the Subunit C the remainder are Subunit A and we inject we treat this water and the it is injected in Subunit A with a series of 5 injection wells in this area. These green dots here, these are some of the active water supply wells in the area, so the system total...inaudible...so combined...inaudible.

Diane Krone: I just want to note for newcomers that EA-05 is north of 10...inaudible.

Harry Brenton: Correct. So this is...inaudible...so this is EA-05

Diane Krone: To the left of the text?

Harry Brenton: Right, I'm sorry...inaudible. So the total combined flow from all of our systems is 2700 gallons per minute and to date through June we have removed about 54,000 lbs. of TCE. Some of our future treatment plans might include this a little bit. We currently have our plans to put in an EA-08 system here we just completed the well about a month and a half ago. It was about 14" diameter Subunit A...inaudible...extraction well. We are going to build a new treatment system associated with this. Ultimately, at least temporarily the goal is to discharge the RID, like Mike said we made plans to send this water to the treatment compound and more than likely...inaudible...injection well, alternating...inaudible. So our expected flow is now about 250 gallons, but is expected to ultimately be about 400 gallons per minute. Another thing that we've done with MTS is that we've put in some new piping, we had to separate the treatment streams of the wells to increase more flow. So we expect a flow increase anywhere from 10% to 20% in some of our...inaudible...extraction wells.

David Ellis: Just let me stop you for one second. Reflecting back on what you said, the connection between the EA-08 and 33-A would be...inaudible?

Harry Brenton: Right now EA-08 is right here and the treatment system will be there as well. We are going to temporarily treat this water and discharge it to the RID canal. We also have plans to pipe this water to the 33-A treatment system and then we'll more than likely drill a series of injection wells in this area here so we'll pull the treatment water from 33-A and EA-08 and get away from injecting...inaudible...in this area.

Diane Krone: And that is the reason to create a barrier on that northwest?

Harry Brenton: Correct. So it will be a similar situation to what we've done in the northeast and we essentially shifted the flow to the northwest with these extraction and injection wells. The same will hold true for this...inaudible...create a hydraulic barrier or groundwater mound and then we'll essentially shift the flows back to here toward through the extraction wells.

David Ellis: So you are going to use the filtering system that at 33-A?

Mike Hansen: Yes, right, right. We have enough capacity there. We may also...inaudible...the system that we are putting in EA-08 that now we're building it so that it is easily disassembled and moved. So we may also move that back and incorporate that in the 33-A compound. That's just an engineering detail we haven't worked out yet...inaudible.

David Ellis: Ok. Let me... Hold on...inaudible...?

Harry Brenton: ...inaudible...will be a temporary system that we transfer...inaudible. Currently we have 4 vessels of 20,000 lbs...inaudible.

Jeff Raible: As far as the injection wells in that region toward the northwest. Do you anticipate any special challenges given the communities there?

Harry Brenton: Yeah. We have, access is certainly an issue so we will have to look at the data and...inaudible...look at concentrations and...inaudible...and determine where is the best location. So we don't know exactly where, but potentially we may have some access issues to work on.

Jeff Raible: Are you in discussions...?

Stephanie Koehne: I'm sorry. Ultimately it's the same thing that the northeast side that you are putting in at the medium at Dysart Road...inaudible...is...inaudible...and/or next to the roadway...inaudible.

Jeff Raible: Along the right-of-way on Olive Drive?

Harry Brenton: Yes, that is correct. Typically the cities are very helpful in letting us, giving us access for some monitor wells, extraction wells...inaudible. With them it's a...inaudible...process.

Jeff Raible: So I was going to ask Harry if you've been in conversation with the homeowner's associations or what entity?

Harry Brenton: It's not about the injections wells per se but we are talking with them about monitoring well locations...inaudible.

Jeff Raible: I knew that was a discussion point, so I...

Brenda Holland: Yes, we are still discussing that.

Harry Brenton: Correct.

Brenda Holland: It's been a long discussion.

Jeff Raible: Sorry, there was a report, I didn't document which report, one of the monthly reports that indicated that, I think, monitoring well 6 didn't, which is beyond the...spoke over by Harry.

Harry Brenton: Yes, 6 actually sits uuhhh, probably like right around there.

Jeff Raible: I understand that I think the...inaudible...reading was 2.2 parts per million, which is a little bit higher than some of those right along your boundary...inaudible?

Harry Brenton: Yes, that is something in that well that we monitor monthly and we expect, without injections that the...inaudible...will increase those concentrations currently.

Jeff Raible: Ok, so does that mean in essence we are pushing some of the TCE contamination now toward the...spoke over by Harry.

Harry Brenton: Well, I would say that the contamination in this area is very low so everything below 5, and it as the injection kind of moves through...inaudible...running through the...inaudible...concentrations.

Diane Krone: Harry, I have a question. Ok, so if the flow is away from COG-3 how did TCE get there?

Harry Brenton: TCE got there because I can see the...inaudible. So this is Subunit A, back in the 90's there was a system malfunctioned and the previous consultant was unaware of the untreated water. So these injection wells right here were sending dirty water kind of in this direction and there is well, it's kind of hidden behind this right here, it is COG-2, which is currently been abandoned so we believe COG-2 acted as a conduit well and opened up a conduit down to Subunit C. After COG-2 acted as a conduit and is what brought the contamination down to Subunit C.

Diane Krone: Yes, I understand that, but if the flow is in a northerly direction and there is contamination to the west, but the amount of contamination is increasing going to the east. How can there be flow to the north? Am I explaining myself?

Harry Brenton: Certainly. Inaudible...can we go back to previous slide.

Diane Krone: I just...I can't...I can't understand if the flow is away and to the north then why is it going this way?

Harry Brenton: One explanation would be that historically, there could have been a little bit of flow in northeasterly...inaudible...the water supply...inaudible. We just don't have that data to prove...inaudible...monitor wells. What I have been finding now is that one of our monitoring wells that we have, we do see a predominant flow is this typical to the northwest. Now certainly, when COG-3 pumps it can shift the flow fields so that the flow fields function a little bit more easterly. And then, the other problem it is creating...inaudible...so also the next slide will have some of the proposed monitoring wells...inaudible.

So we have...because we do have these detects right here, we have proposed another Subunit C monitoring well that we are going to put between COG-2 and this well right here...inaudible. Additionally, to, remember that we have a contingency plan for COG-3. So currently the concentrations in COG-3 are very low and they always have been low. But our contingency plan says that if we see increasing concentration in COG-3 that we will take the necessary steps to provide well-head treatment for the City of Goodyear....inaudible.

Diane Krone: One concern that I have on that is, again, this is an old well, it's an old irrigation well, what if the contingency treatment that we have determined to use doesn't work?

Harry Brenton: Well...talked over by Diane.

Diane Krone: Because of maybe some faults in the well itself?

Mike Hansen: That contingency in COG-3 is to use carbon which is the same thing that we treat 33-A system head and AE-06 system heads. It's a very effective mechanism to remove...inaudible...TCE.

Diane Krone: Ok, so it doesn't...It would not have any affect then on the well itself? In that...inaudible.

Stephanie Koehne: No, it's in an above ground system.

Diane Krone: Ok. So you just pump it out of...inaudible... and go back?

Stephanie Koehne: Exactly. Ok, Harry, unless we need to move on this new well in the Subunit C...inaudible...in that area. We were requested yesterday to move that up on the priority list...inaudible...slightly there less will not...inaudible...during the Christmas time period as well as putting...inaudible...during school period. So we are still starting out...inaudible.

Harry Brenton: One thing that we do insist that we can certainly do a sample in these key wells twice a month...inaudible...to ensure that we are keeping track of the contamination and not seeing huge jumps in concentration and then the concentrations in these wells have both increased, slightly a couple tenths of a part per billion.

Diane Krone: You need to answer something for me when you...inaudible...and maybe you should respond to me personally on this. When wells were closed before, for instance 2...when 2 was closed and abandoned. Why was that closed and abandoned? Meaning, this is my thought process and wouldn't the same thing happen to 3 then? Wouldn't we have to close it and abandonment it? Why would that have to be closed and abandoned but this could be remediated with the carbon...inaudible?

Mike Hansen: Well...inaudible. That's really why that was closed and abandoned it was more of a legal question for the City of Goodyear. I really don't want to comment on that.

Diane Krone: Ok, so I should talk to somebody at the City of Goodyear? I'm just I am really confused and that's why I am...inaudible.

Harry Brenton: So this...inaudible...COG-3 area in Subunit A and so these are the relative concentrations.

One thing we have seen that is positive is that, the concentrations in 10-A, which if you recall were historically up in the 20 parts per billion range and have subsequently increased and now they are in the range of 1.2 and that is a result again of our injections here. It's bringing dissolution ...inaudible...and essentially cleaning up the aquifer. So we do expect concentrations at a...inaudible. We do see some elevated TCE concentrations on this little part upgradient, so it's settling in at 8.6 and 7.3. A little bit...inaudible. We see it a bit in 57-A also...inaudible.

Stephanie Koehne:inaudible...installed...inaudible. So that will be a MW-16 ...inaudible...well...inaudible...site...inaudible. After that well is put in we will determine that best location for the EPA-12C...inaudible, we currently have a permit with ADOT for both 12-C and 12-A...inaudible...and COG-16...inaudible. However, depending on what the concentrations are in well 26-C. The...inaudible...City of Goodyear. We also have a pending access agreement for EPA well MW-59A near...inaudible...working with Fry's Department Store to get permission to install a well in that area. We are still working with Pebble Creek communities and the EPA and...inaudible...agreement. So...inaudible.

David Ellis: Can this group be helpful at all pressuring with the homeowner's associations? What's their issue?

Brenda Holland: You know, I think it's an ownership thing and they feel that the...inaudible...being diplomatic. I think it is an...inaudible...I think it's an ownership issue really and they are very concerned about how the homeowners would feel having a well built in their area, even though it's a they wouldn't even know it was there, they feel...inaudible. It is not intrusive. It shouldn't be. But the plan has been to put this monitoring well...inaudible...and then...inaudible. They aren't there yet...I don't know what the hang up is now, but they don't even talk to EPA...inaudible.

David Ellis: They have no sense of community involvement.

Brenda Holland: Ah, well, I know that I was down there a couple of times...inaudible and then...inaudible...I know. I think part of the issue is that they don't quite understand how all of a sudden a monitoring well became necessary and they are not aware of what was going on.

Unidentified Speaker: ...inaudible...But I just think that is part of the issue. Then they kind of had different players that kept getting involved and I remember asking one of them...inaudible...I was asking one of them, "Wow, you're a finance person, I didn't know you knew anything about water?" That's how it got...inaudible...water. And he said, "Oh yes, but I worked in a brewery...inaudible, so I know a lot about water." There are quite a few people who are in finance...inaudible.

Diane Krone: Yeah, it didn't make any sense to me.

Lisa Amos: I kept trying to figure that out.

David Ellis: I just want to make sure that we, we complain here a lot...I just want to make sure that we are doing as a group all that we can do to support your efforts.

Brenda Holland: That's why I think that the publicity is so good and is so important to this group. This is more a...inaudible...community than a...inaudible. We were going to get a little push back because of that. Does that help?

David Ellis: Yes. Well, I just want to make sure we are doing all we can do.

Diane Krone: Isn't the gentleman from...inaudible. Isn't he going to the meetings as well? Well that should help too, because I think it's, they don't get water from the City of Goodyear, although there...inaudible...water pumping...inaudible...they get water from Liberty and so ahhh, the fact that he is going to show up might make a difference.

Jeff Raible: I had a question regarding one of the monitoring wells...inaudible. Monitoring well 20-A?

Harry Brenton: Yes.

Jeff Raible: It goes to...inaudible...find out where that is? So it is along the line in that area where you look to be putting the groundwater barriers?

Harry Brenton: ...inaudible

Jeff Raible: My question is, this is March through May, it went from almost non-detected to 2.2 parts per per million?

Harry Brenton: What you see when that period...inaudible. Typically when we turn these off for maintenance or...inaudible. We...inaudible...concentrations are still less than 5.

Jeff Raible: Although I think that you reported that your equipment was up all the time, so...inaudible.

Harry Brenton: I think that when the...inaudible...met quarterly in May, we had a carbon change out. They coincided at the same...inaudible.

Stephanie Koehne: And that is something that we see...inaudible. We did a carbon change out in November all the time...inaudible...shutdown, ask about getting...inaudible...shut down...inaudible. However, over the last year, we started getting water to the lake at the golf course and...inaudible to...inaudible.

Harry Brenton: That's why...inaudible to understand and you know about...inaudible. Really how far does that contamination go to...inaudible. This will be very good data for the report to understand the...inaudible.

Jeff Raible: I don't know how that will actually...inaudible. Here are the results in your neighborhood, call us to understand this situation.

Diane Krone: Could we have this CAG meeting in...inaudible?

Brenda Holland: No, I mean really. It makes it convenient at the clubhouse.

Jeff Raible: You know, actually, I know that they have grills. I don't know that the expense of any is...inaudible. I know they have meeting space there.

Diane Krone: It might be an exciting meeting.

Felicia Calderon: Exciting, but if the CAG wanted to do that? We can vote to have that...inaudible. I mean, to see...exactly. I'd have to see what type of requirements they have but if you were interested I can do that.

Jeff Raible: You know. I think they have facilities that...inaudible. It would be, I don't know if I'd have...inaudible business there, but it would be a change...inaudible. An opportunity for us to bring the information to them, so that they don't have to come 3 miles down here. I don't know why they wouldn't offer that?

Brenda Holland: ...inaudible...forum about it and something that they've already planned. Whatever that might be.

Diane Krone: Piggyback on it.

Jeff Raible: Then maybe our presentation will be finalized by then. Maybe information sharing...inaudible.

Lisa Amos: ...inaudible...closer to the city to see if they have any kind of meeting space.

Stephanie Koehne: That is one of the steps...inaudible...that we do include...inaudible. Smaller...inaudible.

Jeff Raible: So they were actually requesting a meeting?

Brenda Holland: Yes. ...inaudible.

Brenda Holland: I think, Palm Valley...inaudible...Avondale...inaudible...to giving permission to that monitoring well it's a...inaudible...whether it's a quarterly meeting of ours or a subgroup that makes the presentation.

Brenda Holland: Well we'll probably know more, after the meeting tomorrow...inaudible.

Harry Brenton: This kind of...inaudible. ...inaudible...evaluate...inaudible.technology...inaudible. We are also looking at to optimize the soil vapor extractions system based on what we've seen here to use as much of the data from soils on the site. ...inaudible investigation and the source area facilities structure as well go look at...inaudible...different locations all around the dry well area. The only source that we...inaudible. We are also continuing with the area between the sites work that is going to be done. The EPA requested us to do some additional samplings, chemical samplings and some additional sampling for chromium...inaudible...in the area between PGA north and PGA south...inaudible. That's it.

Brenda Holland: Ok, any further questions for Harry and Stephanie?

Jeff Raible: Just a clarification on the source area for the focused feasibility study, what is the time frame is that study to be conducted or concluded?

Mike Hansen: My understanding is, and Catherine can clarify this, that...inaudible EPA is going to approve a table of contents document that we submitted in our response comments and that has been satisfied a workplan requirement that you had given us. So that approval is pending shortly. Following that we are having a meeting on September 14th in Goodyear to discuss some of the underpinnings of that document and then once we get agreement on that, the underpinnings being what we will call our conceptual site model and then also the remedial action objectives and once we get agreement upon that the draft document will be due 90 days following that.

David Ellis: I do want to say that this is helpful and good to see the trend data that is associated with what we are accomplishing or appear to now be accomplishing in the north end. I think we need, as we go northwest, to do the same kind of ...inaudible...trends and....anyhow, it is helpful, thank you

Lisa Amos: The larger maps that you...

David Ellis: Yeah, the larger map is really something.

Diane Krone: And big circle with...inaudible, drinking water wells. That's great. I'm glad he's doing that.

David Ellis: You know to go along with what Brenda said just a moment or two ago, we can have some more newspaper articles that state, perhaps what we are accomplishing or appear to be accomplishing in the northeast, and the same kind of things are going to be necessary in the northwest in the Pebble Creek area and you know I think what you are thinking, save a little bit of this.

Frank Scott: What I will do tomorrow is find which council members are in the area in the City of Goodyear and I'll personally call them and set up a meeting with them.

Diane Krone: Great, thank you. There is a new guy...inaudible. I think he lives up there too.

Frank Scott: He knows two of our council members that go to the same church, so that will be an easy for that...inaudible. So, I'll do that for us and I'll let you guys know how...how it works out. If not, we'll get to Plan B.

Frank Scott: I'll...inaudible. All the cities are beating the drum and you are holding us up. I'm through with this, I don't have to worry about being re-elected.

Jeff Raible: Sometimes when it's...inaudible, just trying to put the pieces together. So back up and focus on the feasibility study. Based on the timelines of understanding it's not till the December timeframe that we would have potentially a plan that would at that point, we would start to follow? We wouldn't begin the feasibility study until December at the earliest is what it sounds like.

Mike Hansen: If we get agreement on...inaudible...90 days following...inaudible...probably going back and forth with the agencies on the report and that report will present further alternatives and then following that there will probably be a design phase of some sort of approval phase and following that move on to a source area treatment. And that is assuming that, I guess, if we don't need a proposed plan or something...inaudible.

Jeff Raible: Ok.

Catherine Brown: ...inaudible

Jeff Raible: But the source area treatment...Ok. A December time frame was what the report would actually be...?

Mike Hansen: ...inaudible.

Jeff Raible: Ok, so the draft report, that is not just the plan? At that point you start doing...inaudible?

Mike Hansen: It's a process...inaudible...

8. U.S. EPA report on PGA-North activities; Catherine Brown, U.S. EPA Remedial Project Manager

Catherine Brown: I want to acknowledge the Crane Team for presenting, very good solid presentation...inaudible for explaining...inaudible to understand...inaudible. As Stephanie said there is a lot of work going on. There are a lot of parts of the remedy that have to kick in, and take attention and communicate a lot of those...inaudible update the...inaudible. Just a slight difference of opinion on the containment as Harry referred in the northeast. We are still watching that and we are not convinced that it is contained yet. Also the southwest, the same thing there may be additional work required...inaudible...working hard.

David Ellis: No victory banner yet.

Catherine Brown: Then as for IR-26A, we are waiting and taking some more data there to make a final determination there on the conduit status of that well. Then the last slide point out, one of the things I was going to mention to you folks. My priorities going forward today are on the area between the sites and trying to get all parties involved to complete the additional sampling and complete re-surveying of wells...inaudible...for the entire area, if possible. We just got that agreement thanks to Goodyear Tire. They agreed almost immediately to the proposal after we sent it out and then Crane as well has to do all the parts that they are responsible for. It will happen this month...inaudible...the State budget and we will have to wait for state funds to be available. In which case we are going to have our EPA contractors to do that work and we will not cost recover. Focus of the feasibility study, I won't belabor that, it's developing as I said I am expecting it before December, we can update as to what that means...inaudible...clearly...inaudible...enhancements as part of the work we need to understand better what is going on better in source area...inaudible. That's it, and I just want to commend the CAG once more for your commitment to the Site. You were asking great questions, thank you. We are very grateful.

Brenda Holland: Also thanks to the State. Any more questions for...Catherine or anything you didn't have clarified from either of the presenters from the EPA perspective?

9. ADEQ report on PGA-North activities; Nicole Coronado, ADEQ Project Manager

Nicole Coronado: As far as from what Harry, Stephanie and Catherine, I don't have anything else to add to the presentation itself. What I would like to say is that Stephanie said that she is going to start sending the weekly updates and monthly updates. I am currently doing those for you and what I do is take the monthly activity report from Stephanie. I could compile all of that information in a summary I send to you...inaudible. Would you still continue to want to see those if Stephanie is going to provide those to you?

Diane Krone: I kind of like the hot topics stuff. That is one thing that I really like that you do, that wouldn't necessarily come from those guys there. ...inaudible...to understand perspective on it. So I like that a lot.

Brenda Holland: I think it is still good for you guys to get it all together...inaudible. You really want that to happen. I get a lot out of it.

Nicole Coronado: I literally take what Stephanie gives me...

Diane Krone: My opinion is that would be...inaudible...if Stephanie wants to do that than she could do that. That would take time away from you of having to compile that, but I would still like to have the hot topics memo coming out once a month. These are the hot topics that are going on for this month. That way we have a continuous flow but then we also have something that there was disagreement between parties and this kind of a hot topic and we are trying to figure out this and that and the other thing. That way, I get a better view. Does that bother you to do that?

Nicole Coronado: No, I can do that. Instead of, if Stephanie...inaudible.

Brenda Holland: It does, but I feel bad for asking for it all in one. I think that helps a lot. I like having it piece meal. It is always good and in one place and I can look at it all together...inaudible. So I don't know, is that Ok, with you guys?

Andre Chiaradia: Do you want to see it?

Nicole Coronado: Because PGA South also puts out a monthly report.

Andre Chiaradia: Would that make sense? You get...inaudible...to see more of the...just to see the overall information. To get a clearer understanding of just what's getting put out every month.

Brenda Holland: We just don't want to see redundant work.

Andre Chiaradia: I understand, but I am just offering...

David Ellis: I am concerned about data overload.

Diane Krone: Yeah, right.

Felicia Calderon: So do we want to keep it as it is?

David Ellis: I think there is only so much...inaudible.

Nicole Coronado: We can do both for now and see how it...inaudible. ...inaudible then you can ...inaudible...at the next CAG meeting you can decide.

Felicia Calderon: Ok, I'll put it on the agenda for next time.

10 *Call to the Public

At this point additional dialogue was conducted between Mary Moore, Catherine Brown and Dennis Maslonkowski that was largely inaudible.

Mary Moore: ...inaudible.

Catherine Brown: Most of that is...inaudible.

Mary Moore: So that implies that...inaudible. I don't...inaudible. But a lot of people are comfortable with safety levels. I would just ask where that information is out there because I was confused.

Brenda Holland: Thank you. Dennis is that something you want to talk on?

Dennis Maslonkowski: So the Federal cleanup levels established what needs to be monitored and ...inaudible and identify the...inaudible. When we have an extraction well that...inaudible. ...inaudible. We only see the TCE in that extraction well...inaudible. That is why we don't acknowledge the ...inaudible. You don't see the chromium...inaudible. No, it's not the....inaudible. Probably most of it is...inaudible.

Mary Moore: I am just saying that if it were at that level...inaudible. ...inaudible. But I know it...inaudible...go out and get different...inaudible.

Dennis Maslonkowski: Do you mean water...inaudible?

Mary Moore: I am just concerned with something happening at...inaudible.

Dennis Maslonkowski: I think that is quite...inaudible. ...inaudible.

Mary Moore: Alright. I appreciate the...inaudible tonight...inaudible.

Dennis Maslonkowski: ...inaudible.

Brenda Holland: Ok. Well that pretty much wraps it up tonight. Do we have any other questions?

Diane Krone: What is happening to the technical meeting, the one that was put on the table by Crane? Are we going to do that or not? I was just wondering where that is?

Felicia Calderon: Actually, we were in discussions with EPA on setting a date. Catherine do you know if we can get back to the CAG with a date?

Catherine Brown: What I need is a little better understanding of the purpose of the meeting.

Felicia Calderon: I'll go ahead and take a stab at it and then the CAG members can chime if I am missing anything. But basically the CAG members submitted some site-related questions, which were forwarded to the EPA. Some of the questions were general site history and the NZVI treatment. Now is there anything else that I forgot to mention that this is a topic that you would want to discuss at this meeting?

Jeff Riabie: I thought we took steps to address this. At least that's what I thought.

Diane Krone: Do you want to survey us by email to see if we still feel the same way about the tech meeting?

Felicia Calderon: Does the CAG still want to have this technical breakdown meeting before we move forward and try to schedule it?

David Ellis: Well, I'll throw my two-cents in, as I remember how this came down, it was...inaudible... I think Toni came away from the meeting thinking that if we would be just better technically informed would we have a different opinion. So what is transpiring now and where that...inaudible...I don't share that view at all.

I am typically pretty good at understanding what has transpired in the past. I don't think it was...inaudible...understand what is going on technically at all, for the most part...I question that the problem was really who is not technically informed and that would indicate...inaudible.... Anyway, that is my two cents worth. If we are going to have a technical...I don't know if we need a technical meeting. I guess that is where I am right now. I think the data is being presented to us in a more understandable format.

Diane Krone: Absolutely.

Brenda Holland: Thank you. When it first came up...inaudible...about not having a technical meeting because I thought that we were already informed and that perhaps some didn't understand how much data we actually had at our hands. We knew what was going on. So I've have to agree at this point...inaudible...so...inaudible.

David Ellis: If we have a technical meeting. What is the appropriate party to do that? Are we going to have competing technical sessions?

Felicia Calderon: The Agencies were going to run that meeting and give presentations, but...if we have a...inaudible. We'll put this motion up to vote again and if we ever have a change of heart, we have a change of heart. We won't move forward in doing that, but it's really up to you folks if you want to move forward with scheduling this meeting. I did get responses from some people who did want to have that meeting.

Jeff Raible: I am catching on. But it is a challenge, so it's something to keep in mind...inaudible. It's something that we didn't...inaudible...I don't know that answers...inaudible....

Brenda Holland: There's got to be a better approach...inaudible...I have been a board member for years now, but the very first time I came on, I got a...inaudible. I thought, "Oh my gosh."

Jeff Raible: ...inaudible...when I came on board...inaudible.... Again, I know that...inaudible...as topics so...inaudible..., especially those of us that don't...inaudible.

Felicia Calderon: Perhaps this presentation that Nadine is working on could be an orientation. It would provide a basic foundation and then as questions grow we can address those one by one. Based on what I am hearing, I will resend those questions that you folks submitted to me and you all can determine if they are still questions that you would like to address further at a technical breakdown meeting. The next agenda we will discuss it and we'll vote. Does that sound good?

Brenda Holland: Then remember that we also put more of a burden on folks...inaudible...on the...inaudible...in addition to the other things that we are already provided...inaudible.

11. Future meeting and agenda items discussion

Felicia Calderon: Our next meeting date is November 3rd. It's a Thursday and it will be here at the City Hall in Goodyear. Same time 6:00 pm.

Lisa Amos: I wanted to bring up something. Nicole and I were talking about site tours.

Felicia Calderon: Site tours, yes that's...talked over by Ms. Krone.

Diane Krone: As we get into cooler weather, it's something we can consider.

David Ellis: I would like that.

Felicia Calderon: Does the CAG want site tours on the agenda for the next meeting?

Brenda Holland: I think so, because we want to see the wells and what's going on, progress.

Lisa Amos: We've been doing that every spring. I think it's a nice time of the year, so I don't know, March?

Felicia Calderon: Alright, I'll follow up on site tours.

Brenda Holland: Any other questions at this time? Anything going on that you want to discuss?

Felicia Calderon: If anything comes up, just send me an email.

12. Adjournment

Brenda Holland: I would like to get someone to start the motion.

Frank Scott: So made.

Brenda Holland: Second?

Jeff Raible: Second.

Brenda Holland: All those in favor.

Unanimous: aye

Phoenix Goodyear Airport-South Project Site Status Report

Community Advisory Group Meeting
August 4, 2011

Dennis Maslonkowski
Senior Technical Manager
TRC

Consultant to Goodyear Tire & Rubber Company

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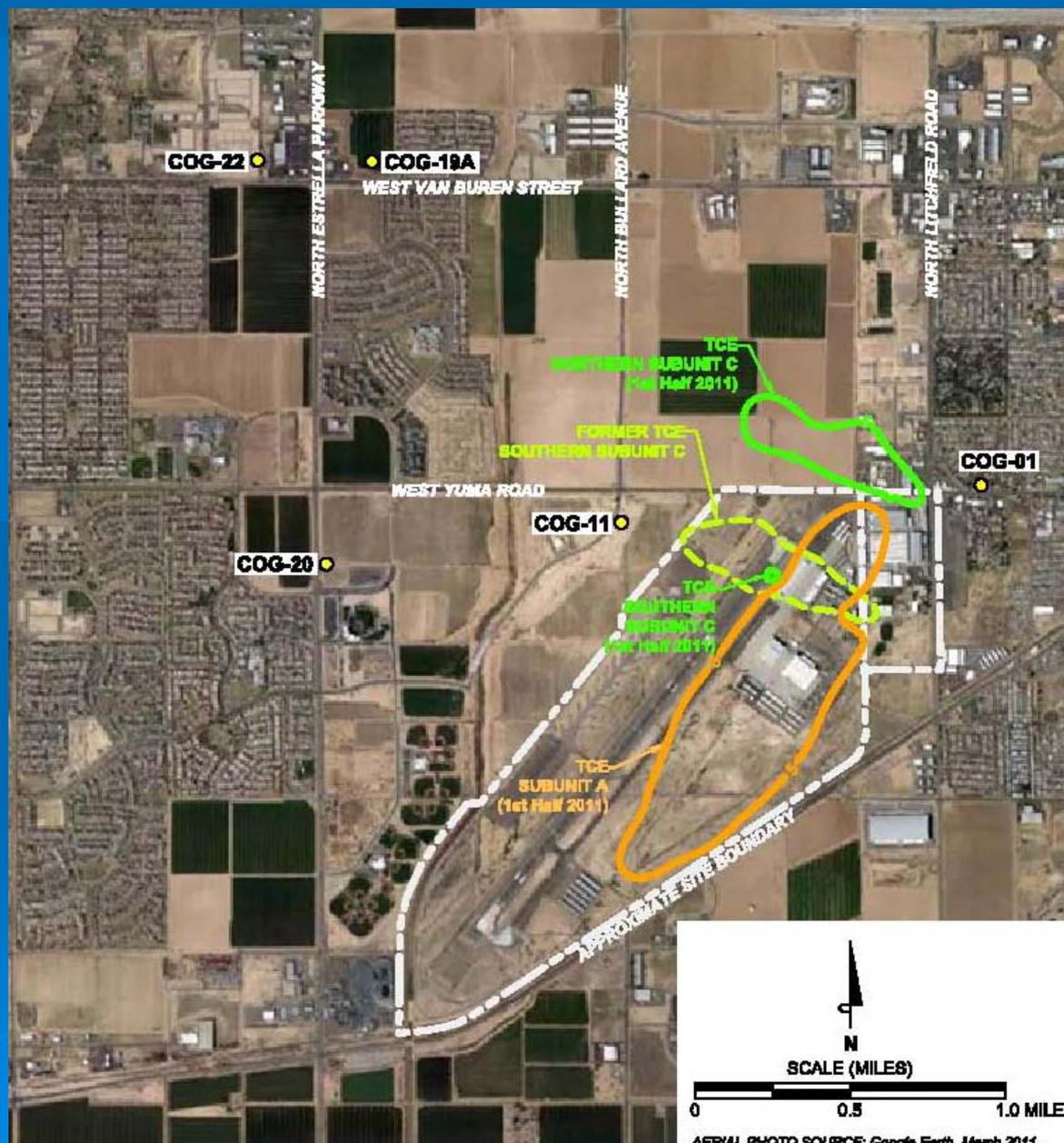
GOODYEAR

TRC

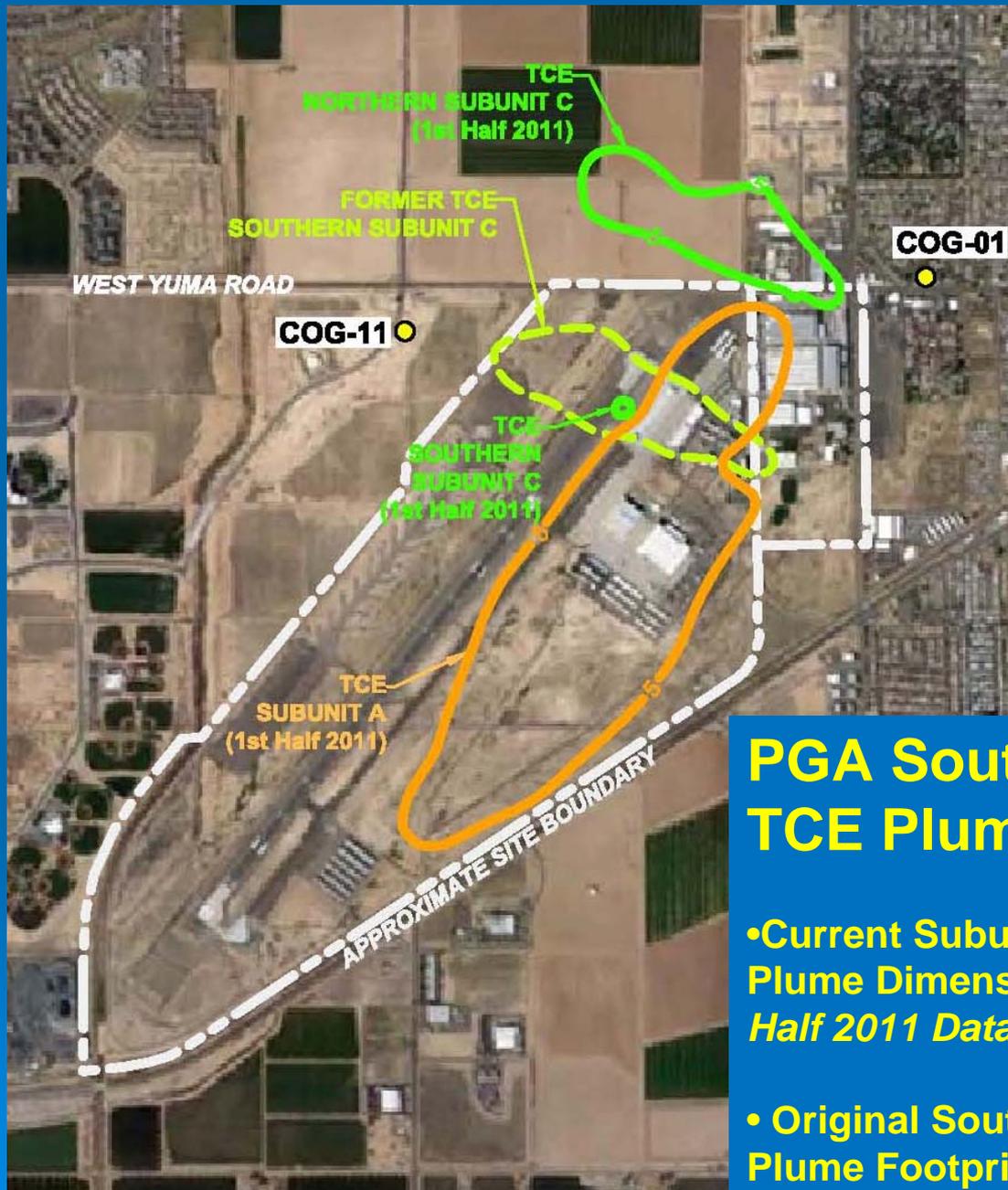
Agenda

- **PGA South Site – Plume Locations**
- **Update Status of Ongoing Cleanup**
- **Review Current Activities**
- **Upcoming Activities**

PGA South Site TCE Plumes and City of Goodyear Active Water Supply Well Locations



AERIAL PHOTO SOURCE: Google Earth, March 2011.



PGA South Site TCE Plume Locations

- Current Subunit A and Subunit C Plume Dimensions *(based on 1st Half 2011 Data)*
- Original Southern Subunit C Plume Footprint



Current Plume Details

Subunit A TCE Plume

- 0.4 Square Mile Footprint
- 12 Extraction Wells
- 51 Monitoring Wells
- 270 Gallon Per Minute (gpm) Extraction Rate

Southern Subunit C Plume

- 0.001 Square Mile Footprint
- 4 Extraction Wells (no current groundwater extraction)
- 39 Monitoring Wells
- 260 GPM Extraction Rate (when E-201 was operational)

Northern Subunit C Plume

- 0.09 Square Mile Footprint
- 1 Extraction Wells
- 8 Monitoring Wells
- 300 GPM Extraction Rate

PGA South

Review of Current Activities

- Status of Clean-Up
- Monitoring of Southern Subunit C Plume (no active remediation)
- GAC-04 Evaluation and Sampling Results
- Continued active remediation of Subunit A and Northern Subunit C plumes

Status of Ongoing Cleanup

Subunit A Aquifer

- Peak TCE concentrations in monitoring wells have declined from 2,600 µg/L in 1990 to 95 µg/L in Feb 2011
- Treatment System Uptime during First Half of 2011 was 96% (System down for 78 hours in June to repair electrical short circuit)

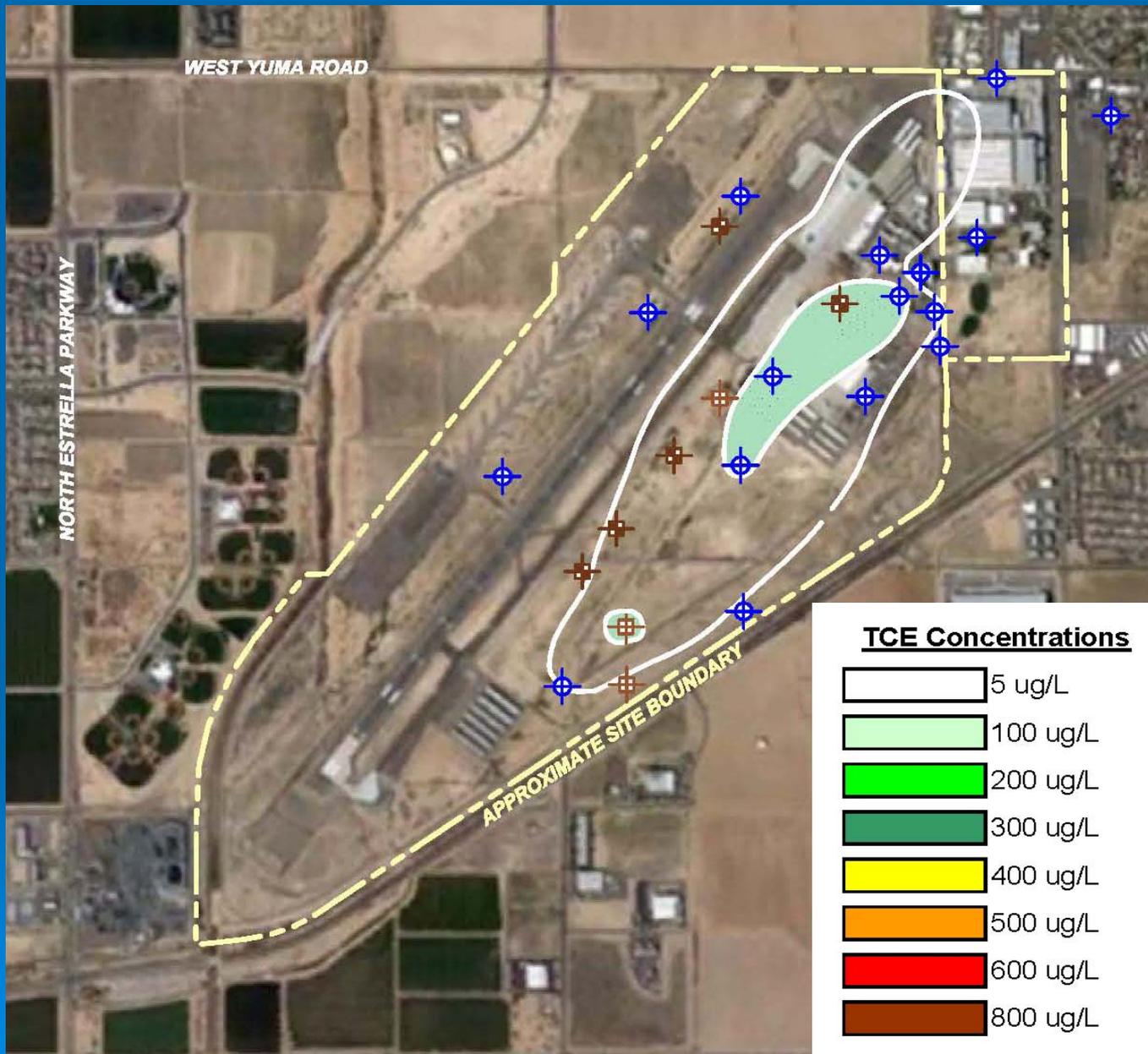
Subunit C Aquifer

- Peak TCE concentrations in Northern Subunit C monitoring wells have declined from 180 µg/L in 1990 to 89 µg/L in May 2011
- Treatment System Uptime during First Half of 2011 was 99%

Groundwater TCE Cleanup Progress

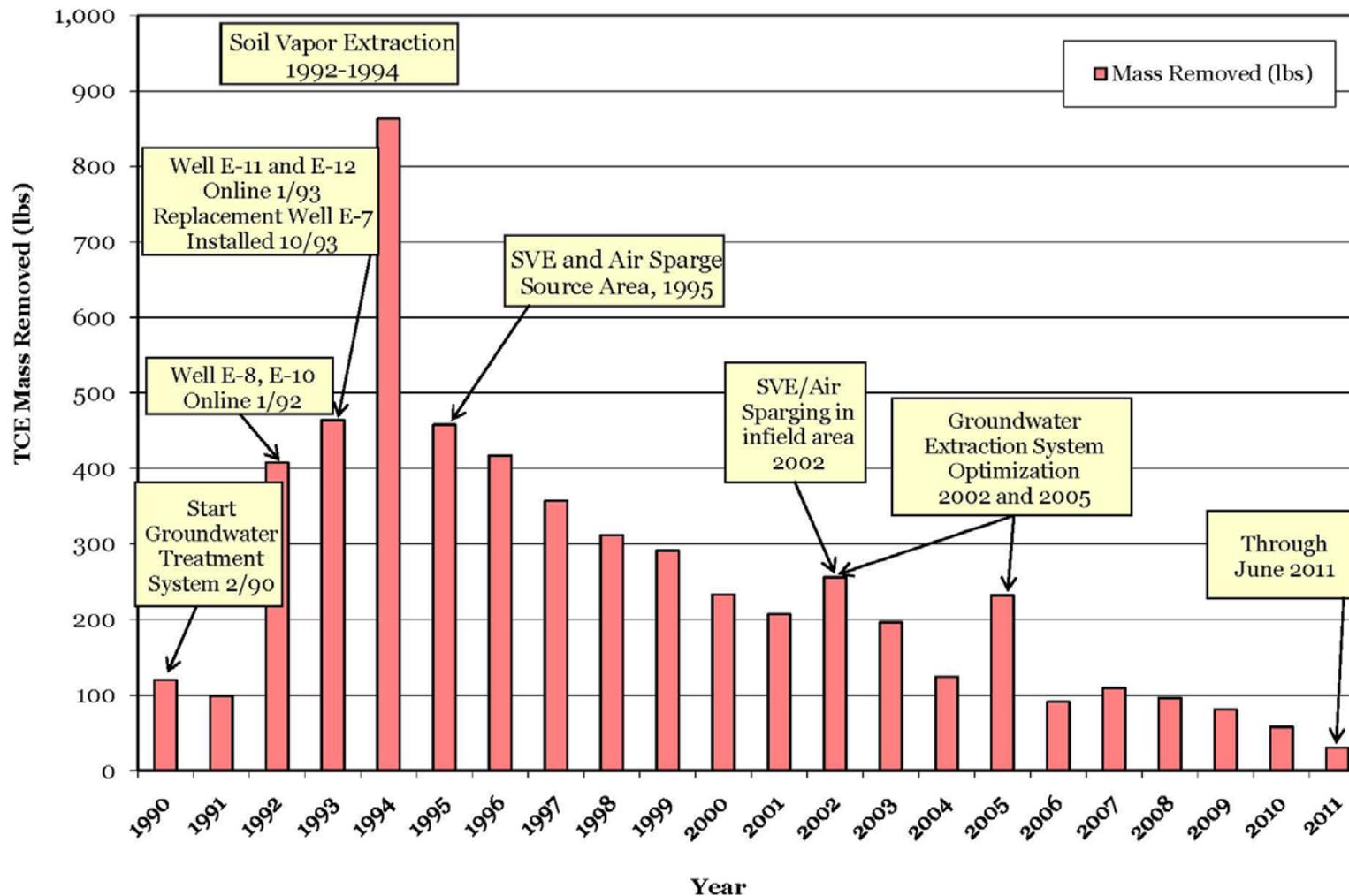
Subunit	Max TCE (µg/L) 1990	Max TCE (µg/L) Feb/May 2011	Cumulative Volume Pumped (Mgal)	Cumulative TCE Removed (Lbs)
Subunit A	2,600	95 (NEW-03)	5,482	5,508
Southern Subunit C	150	12 (INJSB-05)	1,826	172
Northern Subunit C	180	89 (GMW-13UC)	2,254	63
		TOTAL	9,562	5,743

Subunit A TCE Map



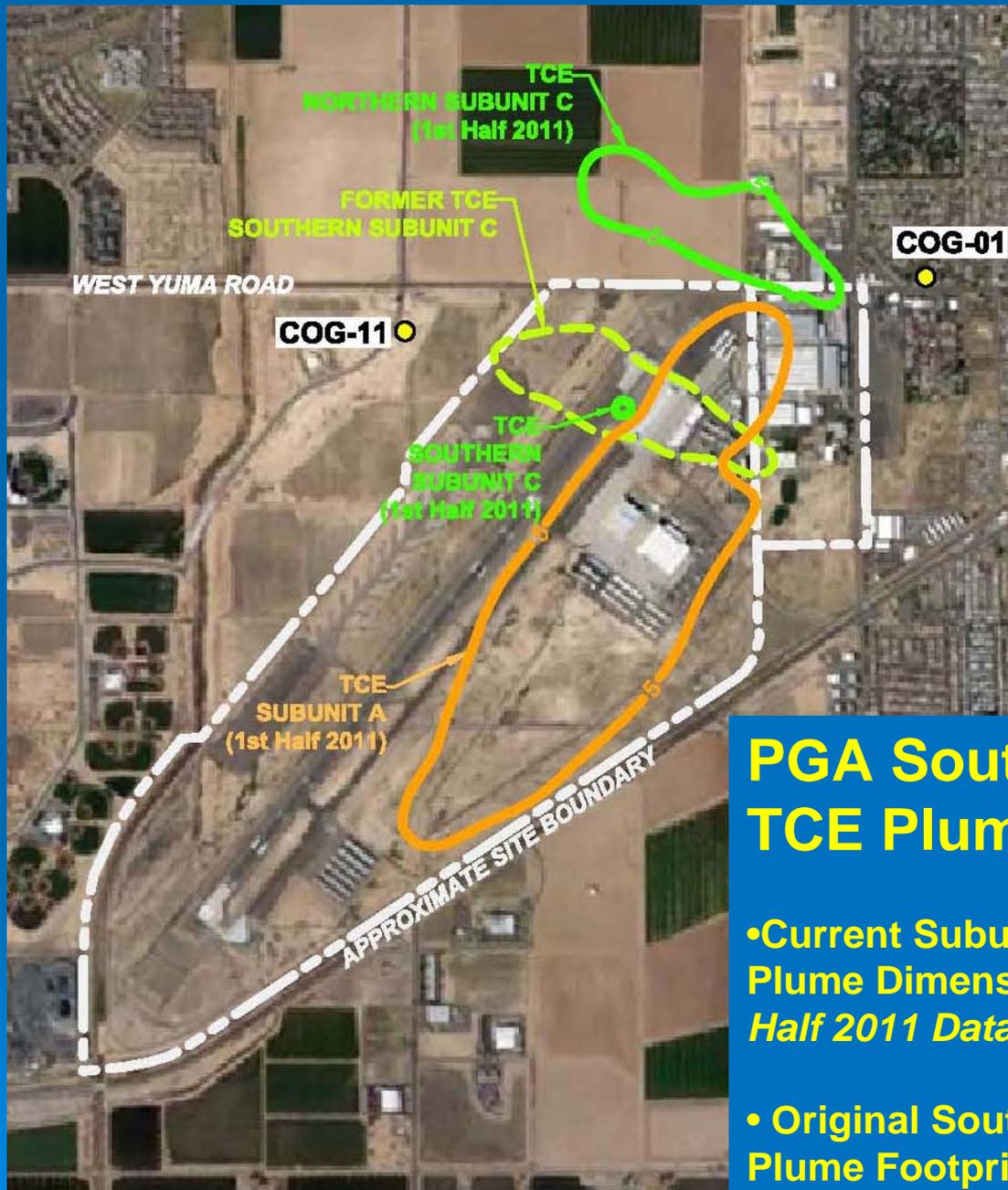
Subunit A TCE Mass Removal vs. Time

Subunit A - TCE Mass Removal Over Time Including History of Significant Removal Efforts
Phoenix-Goodyear Airport South Site, Goodyear, Arizona



Southern Subunit C Monitoring Update

- Since Sept 2009, monitoring wells sampled quarterly to evaluate potential rebound in TCE concentrations
- Additional Southern Subunit C wells sampled during November/December 2010 monitoring event (the “snapshot” event)
- Southern Subunit C wells remain below 5 µg/l during the first half of 2011, with exception of wells INJSB-05 (12 µg/l) and GMW-10LC (5.3 µg/l)

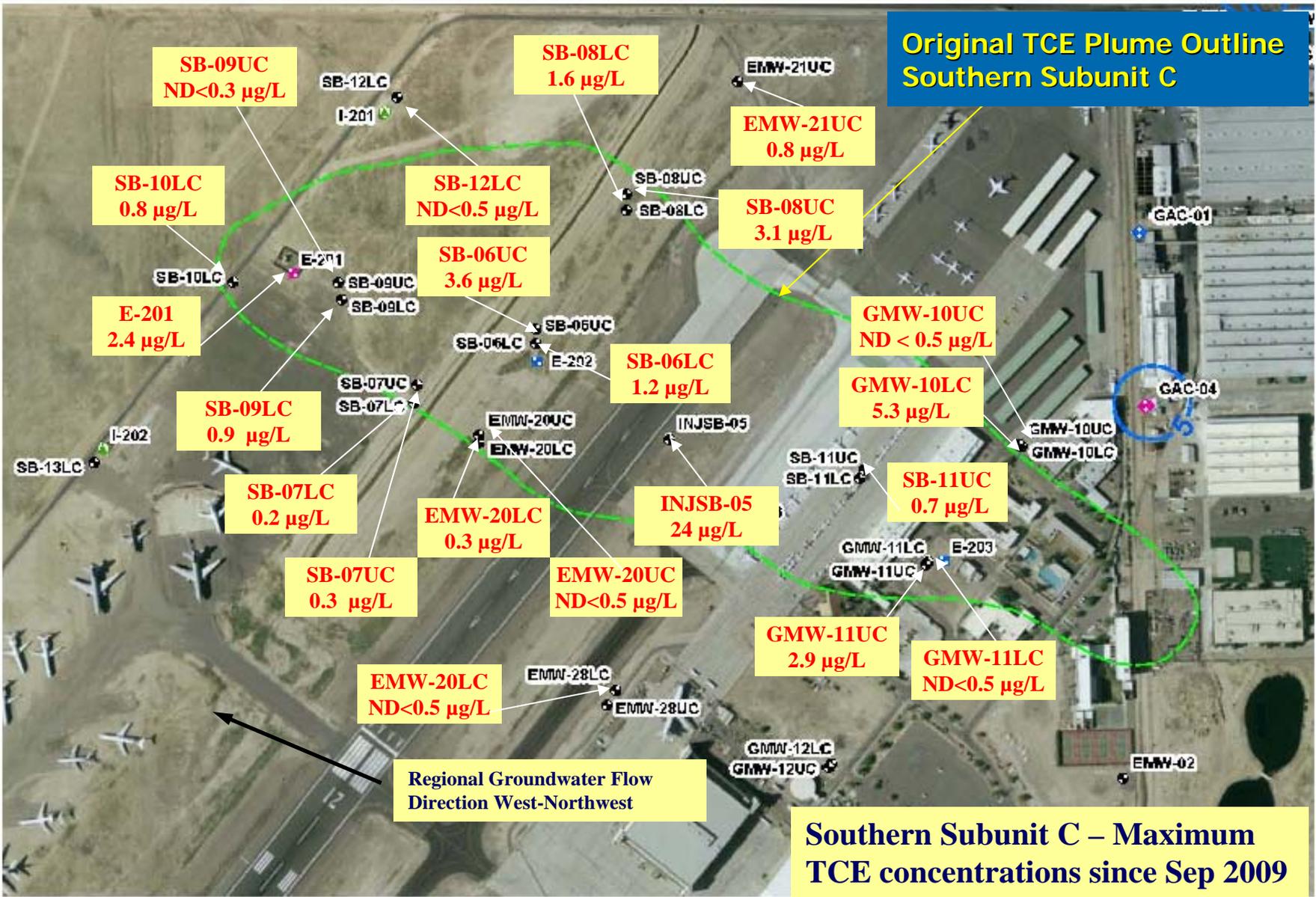


PGA South Site TCE Plume Locations

- Current Subunit A and Subunit C Plume Dimensions (based on 1st Half 2011 Data)
- Original Southern Subunit C Plume Footprint



**Original TCE Plume Outline
Southern Subunit C**



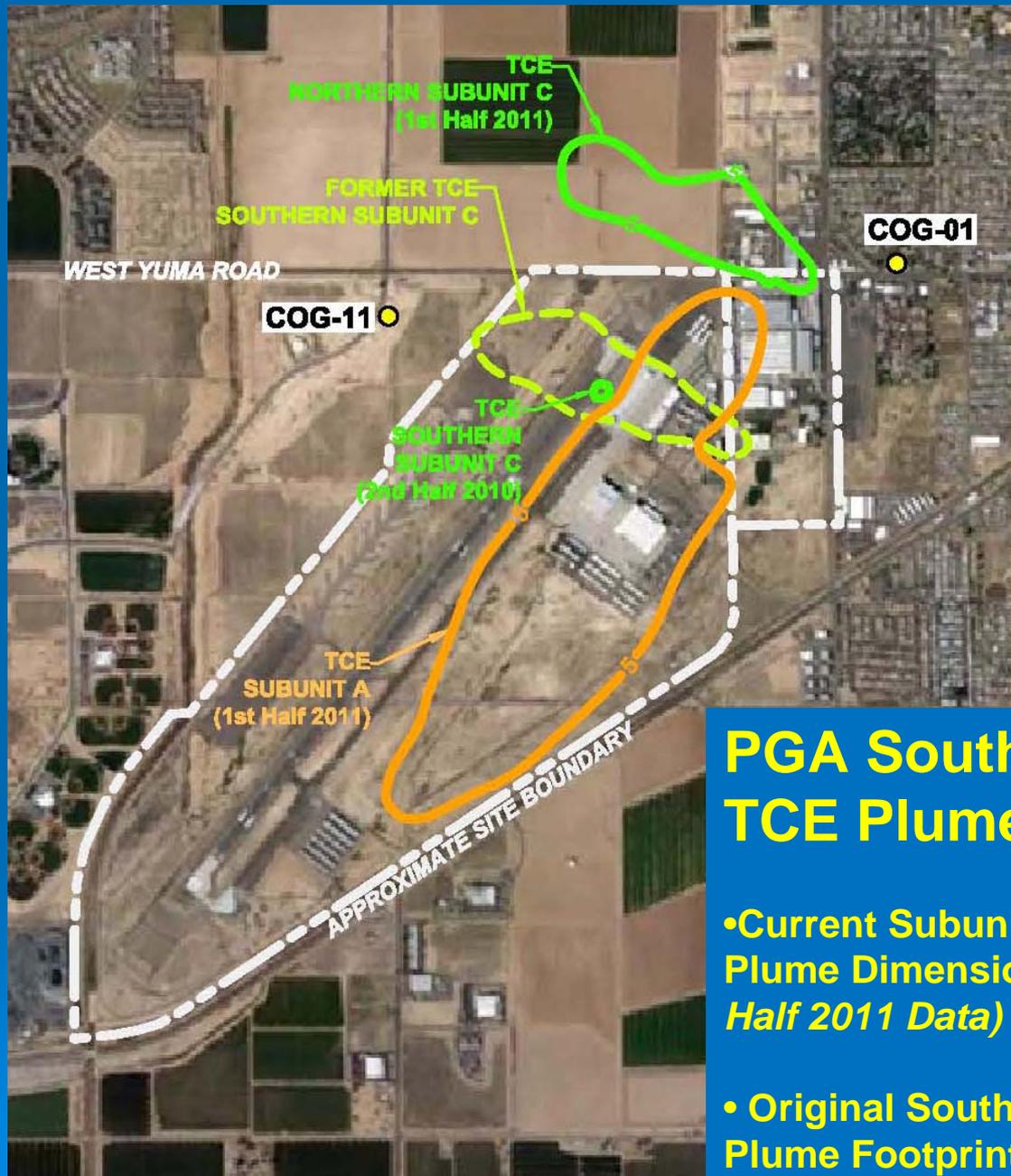
**Southern Subunit C – Maximum
TCE concentrations since Sep 2009**

Southern Subunit C Monitoring Path Forward

- Continued monitoring of Southern Subunit C with proposed modification to sampling program
 - Modification involves a net increase in number and frequency of Southern Subunit C wells sampled
 - Approval of modifications pending agency review
- No re-start of Southern Subunit C groundwater extraction wells unless data indicates necessity
- Southern Subunit C groundwater injection will continue using treated Northern Subunit C water

Northern Subunit C Plume Timeline

- 1992 – TCE monitoring begins
- 1993 – E-101 extraction begins
- 1997 – Chromium monitoring begins
- 1995-2000 – Additional monitoring wells installed north of Yuma Road
- 2004 – Extraction from E-102 begins, E-101 discontinued
- 2008-2009 – Three new monitoring wells installed
- 2,254M gallons of water extracted from Northern Subunit C



PGA South Site TCE Plume Locations

- Current Subunit A and Subunit C Plume Dimensions *(based on 1st Half 2011 Data)*
- Original Southern Subunit C Plume Footprint



Northern Subunit C Monitoring Update

- Groundwater extracted from well E-102 treated by Southern Subunit C system
- TCE plume defined to MCL (5 µg/L) in all but one Northern Subunit C monitoring well (GMW-19LC)
- Chromium plume defined to MCL (100 µg/L) in Northern Subunit C (only GMW-09MC and GMW-13UC exceed MCL)
- Additional Northern Subunit C groundwater investigation recommended by agencies (Land Between the Sites Memorandum dated 7/1/11)
 - GTRC implementing agency memorandum recommendations starting in third quarter 2011 (August) monitoring event

Current TCE Plume Outline Northern Subunit C

GMW-20LC
08/27/10 0.8 µg/L
12/04/10 0.7 µg/L
02/10/11 0.7 µg/L

GMW-19LC
09/01/10 14 µg/L
12/07/10 14 µg/L
02/15/11 14 µg/L
05/12/11 6.9 µg/L

GMW-17UC
08/28/10 1.8 µg/L
12/05/10 2.0 µg/L
02/12/11 2.0 µg/L
05/11/11 2.3 µg/L

GMW-18UC
08/30/10 3.0 µg/L
12/05/10 3.2 µg/L
02/13/11 3.0 µg/L
05/11/11 3.4 µg/L

E-102
08/18/10 2.7 µg/L
12/01/10 3.0 µg/L
02/08/11 3.0 µg/L
05/04/11 3.1 µg/L

GMW-16UC
08/31/10 12 µg/L
12/06/10 12 µg/L
02/14/11 12 µg/L
05/12/11 13 µg/L

GMW-14UC
08/31/10 10 µg/L
12/07/10 13 µg/L
02/15/11 4.9 µg/L
05/12/11 7.2 µg/L

GMW-13UC
09/01/10 96 µg/L
12/08/10 76 µg/L
02/15/11 88 µg/L
05/12/11 89 µg/L

GMW-15UC
08/30/10 2.4 µg/L
12/05/10 1.7 µg/L
02/12/11 1.4 µg/L
05/26/11 0.6 µg/L

GAC-03
08/19/10 25 µg/L
12/02/10 16 µg/L
02/09/11 9.9 µg/L
05/10/11 31 µg/L

GMW-02
08/24/10 46 µg/L
12/01/10 40 µg/L
02/08/11 26 µg/L
05/10/11 46 µg/L

GMW-01
08/26/10 0.1 J µg/L
05/04/11 <0.5 µg/L

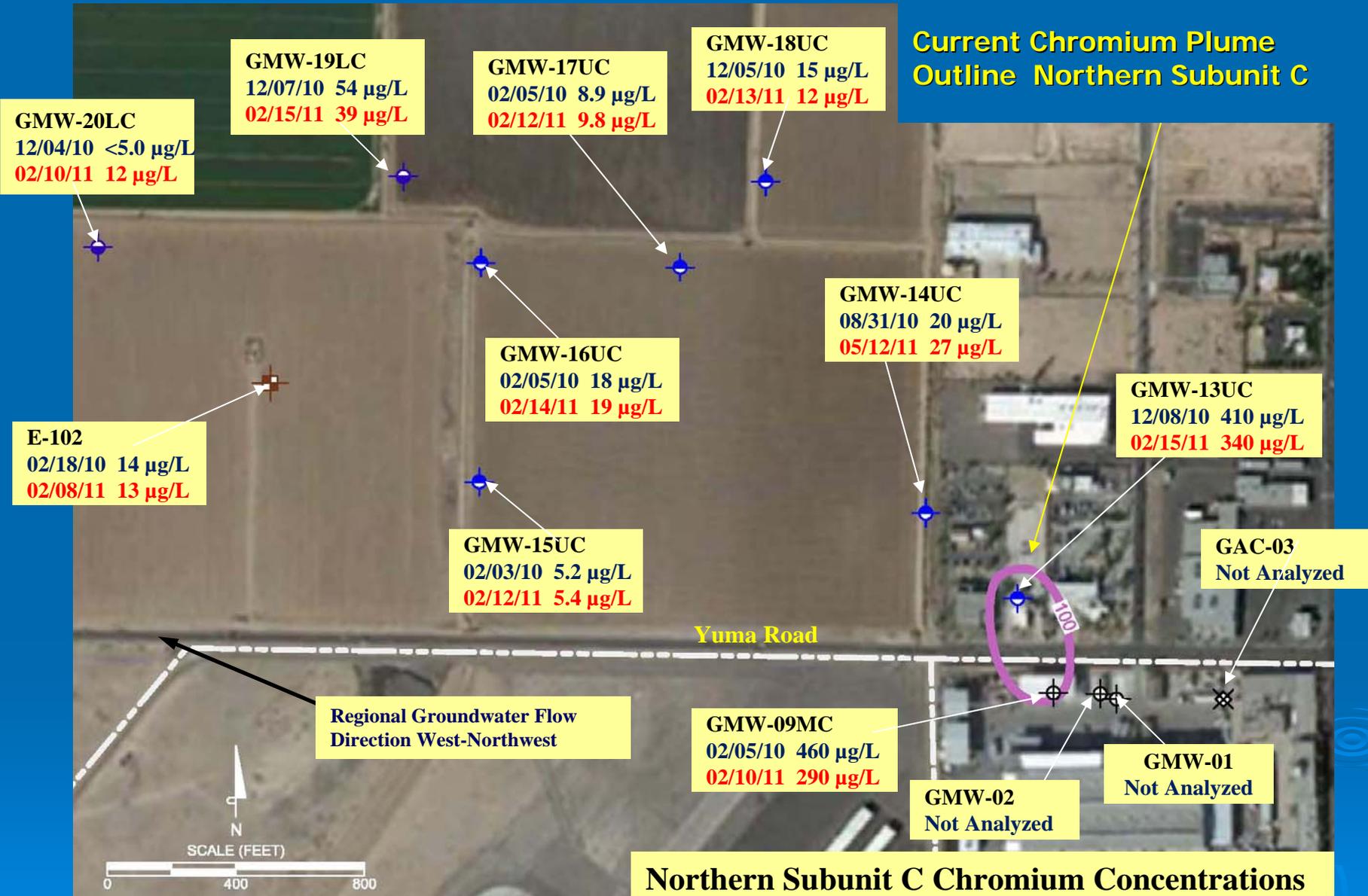
Regional Groundwater Flow
Direction West-Northwest



Yuma Road

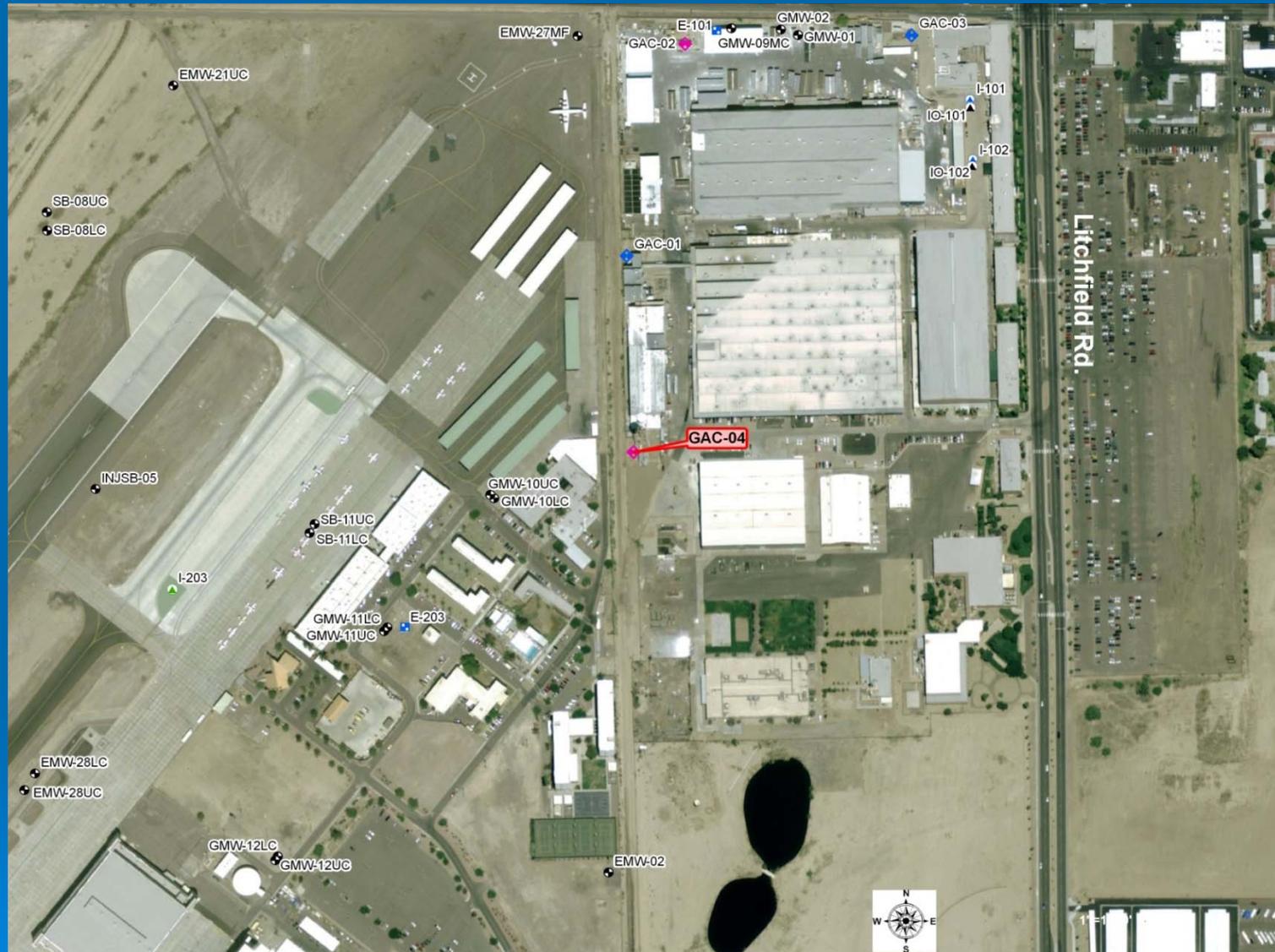
**Northern Subunit C TCE Concentrations
Second Half of 2010 & First Half of 2011**

Current Chromium Plume Outline Northern Subunit C



Northern Subunit C Chromium Concentrations 2010 & 2011 Data

GAC-04 Investigation Update



GAC-04 Investigation Well Locations

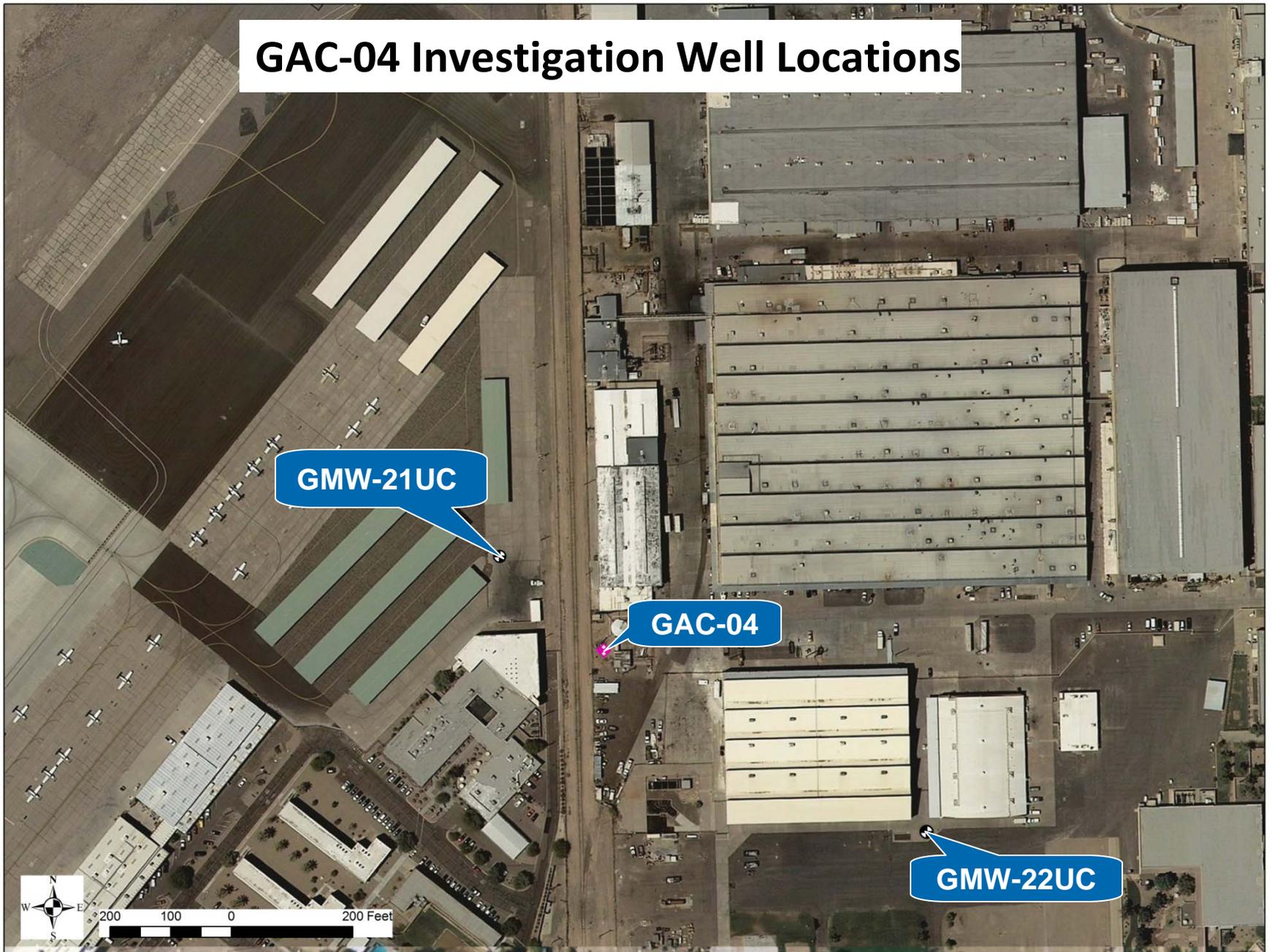
GMW-21UC

GAC-04

GMW-22UC



200 100 0 200 Feet



GAC-04 Investigation and Sampling Update

- Continued operation of GAC-04 and monthly sampling
- TCE results below 5 $\mu\text{g/L}$ for eight months (Oct 2010 through April 2011)
- Recent two monthly results above 5 $\mu\text{g/L}$ (17 $\mu\text{g/L}$ in May and 5.1 $\mu\text{g/L}$ in June)
- Additional GAC-04 Investigation initiated in June 2011

Additional GAC-04 Investigation

- *GAC-04 Potentiometric Surface Study and TCE Evaluation Scope of Work*
 - Evaluate hydraulic response in nearby wells during groundwater extraction from GAC-04
 - Determine radius of influence of GAC-04 under current pumping conditions
 - Determine/confirm static (non-pumping) groundwater flow direction & gradient in vicinity of GAC-04
 - Additional TCE rebound testing of GAC-04 upon re-start (validate recent testing results)

GAC-04 / GMW-21UC / GMW-22UC

TCE Results

Sample Date	GAC-04	GMW-21UC	GMW-22UC
June '10	5.2	140*	<0.48
July '10	7.2	4.5	<0.5
Aug '10	6.1	0.6	<0.5
Sept '10	6.6	0.5	<0.5
Oct '10	4.8	0.8	<0.5
Nov '10	3.2	NS	NS
Dec '10	3.1	0.8	<0.5
Feb '11	<1.0	0.3	<0.5
May '11	17	0.5	<0.5
June '11	5.1	NS	NS

Notes:

All concentrations in micrograms per liter ($\mu\text{g/L}$)

TCE = Trichloroethene

NS = Not Sampled

* = Invalid Data

Upcoming Activities

- Third Quarter 2011 Groundwater Sampling Event – Began on August 1, 2011
 - Implementation of Agency Data Requests included in Land Between the Sites Memorandum
- Additional Evaluation (Rebound Testing) of GAC-04
- Continued Monthly Technical Conference Calls with ADEQ/USEPA
- Working with ADEQ/USEPA on Open Five Year Review Items

CAG Meeting

Quarterly Technical Meeting
PGA-North Superfund Site
August 4, 2011



Stephanie Koehne, MBA, Project Manager/Geologist
AMEC Geomatrix

Harry Brenton, RG, Principal Geologist
Matrix New World Engineering

INTRODUCTION



- A significant amount of testing has been performed to define the Subunit A and Subunit C TCE plumes.
- All soil and groundwater remediation systems are fully operational
- Expanded Northeast Area Treatment Systems have contained the Subunit A TCE plume
- Area Water Supply wells are being protected and we are working with the EPA to move towards a “Regional Remediation Program” to control the plume.

REGIONAL GROUNDWATER TREATMENT SYSTEMS UPDATE

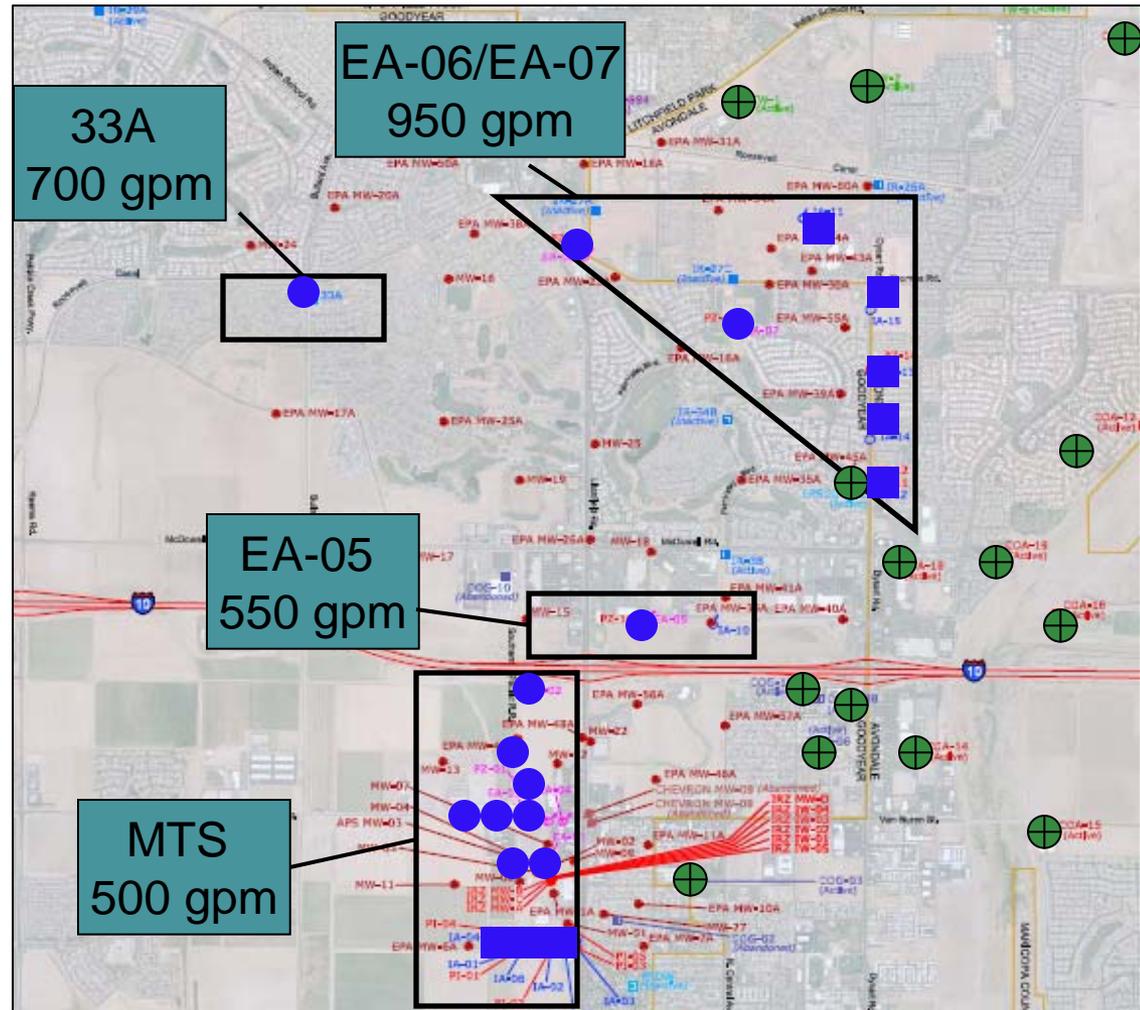
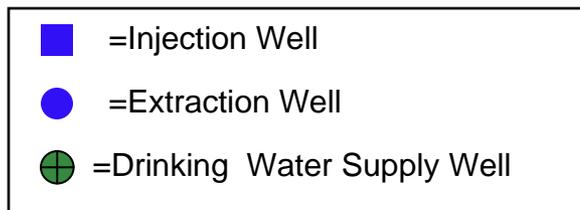


Groundwater Treatment Systems

- MTS – On-Site
- 33A – Northwest Area
- EA-06/EA-07 – Northeast Area
- EA-05 – Central Area-S of I-10

System Totals

- Combined Flow – 2,700 GPM
- Total TCE Mass Removed – 54,000 lbs



REGIONAL GROUNDWATER TREATMENT SYSTEMS UPDATE - Continued



Groundwater Treatment Systems Future Plans (2011)

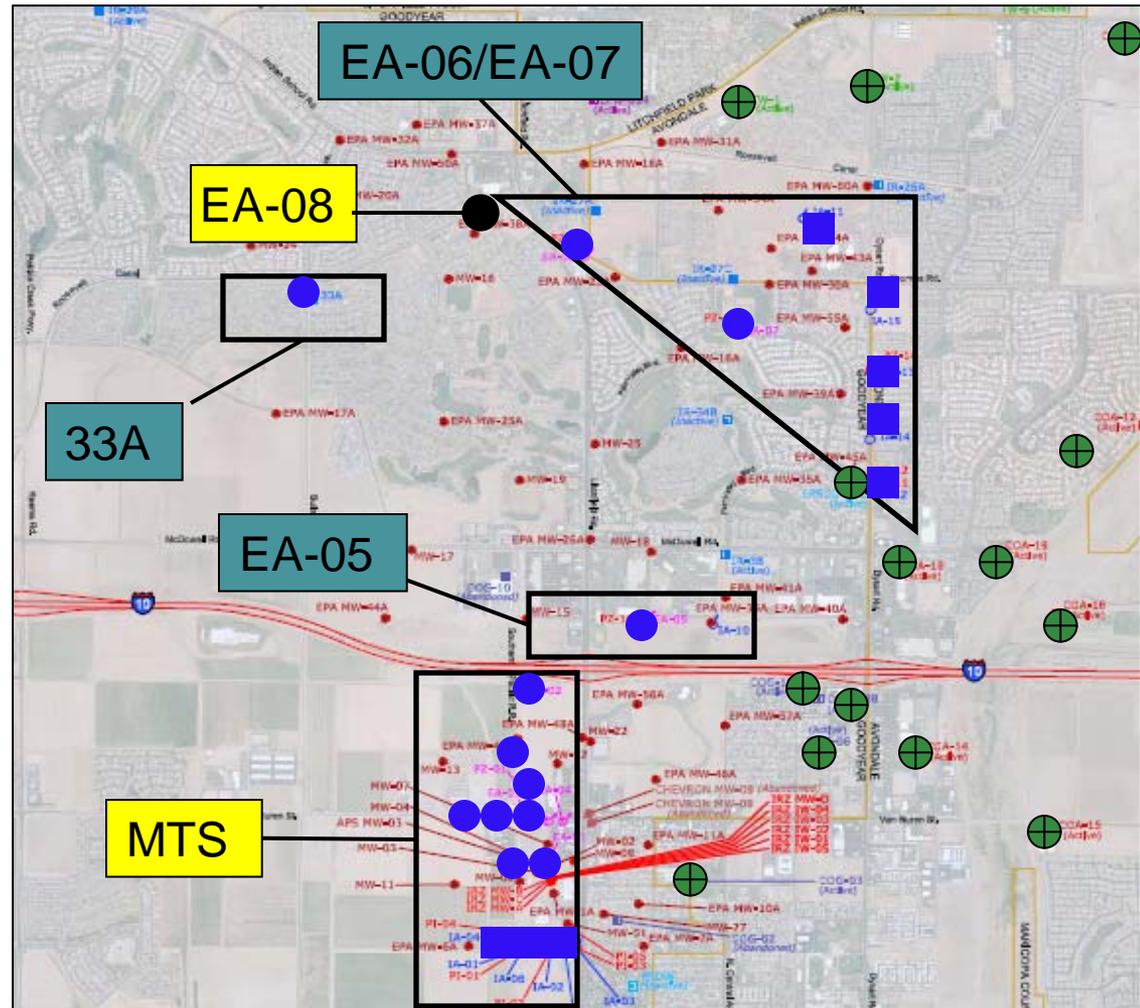
EA-08

- New 14-inch diameter Extraction well
- New Treatment System
- Expected flows 250-400 GPM

MTS

- New Piping
- Increase flow rates from existing wells by 10%

	= Injection Well
	= Extraction Well
	= Drinking Water Supply Well



EXPANDED NORTHEAST GROUNDWATER TREATMENT SYSTEM



Expanded Northeast System Details

Extraction Well EA-07

- Increased extraction in area by 90%
- Injection into IA-11, IA-12 and IA-13
- Injection wells IA-14 and IA15 are in but are not currently being used

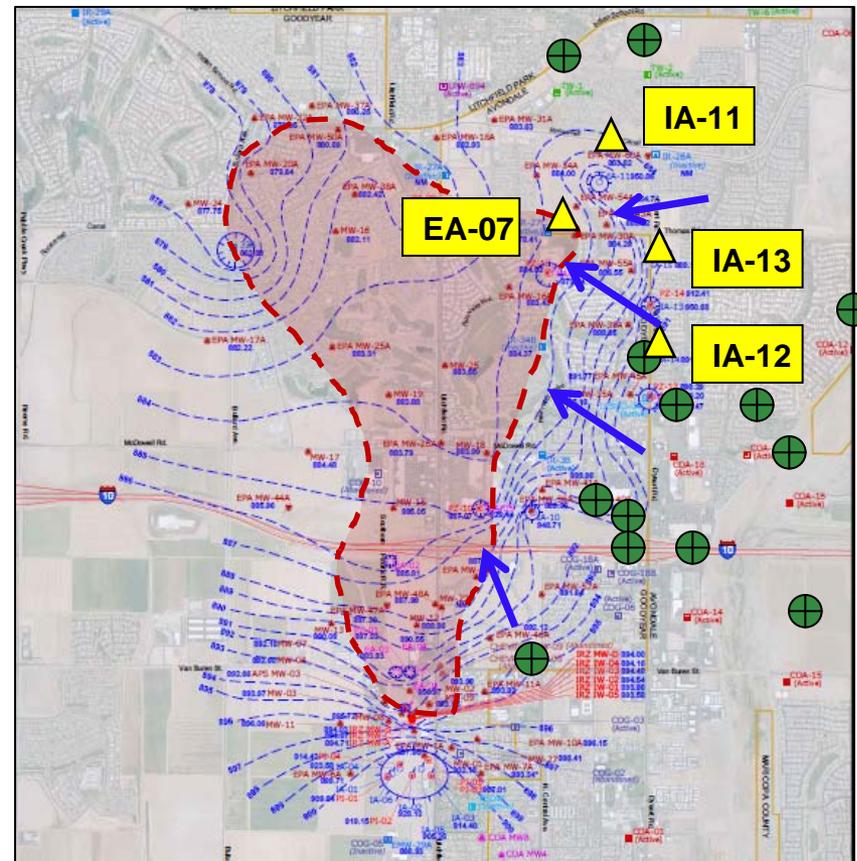
EA-06 GTS Totals (Thru June 2011)

- EA-06- 530 GPM; EA-07 – 400 GPM
- Flow rate to injection wells – 930 GPM
- 91 Mgals of water (28 ac-ft) into IA-11
- 45 Mgals of water (14 ac-ft) in to IA-12

Results

- Hydraulic barrier created with 3 INJ Wells
- Drinking Water Supply wells are protected
- Summer pumping has not reversed flow

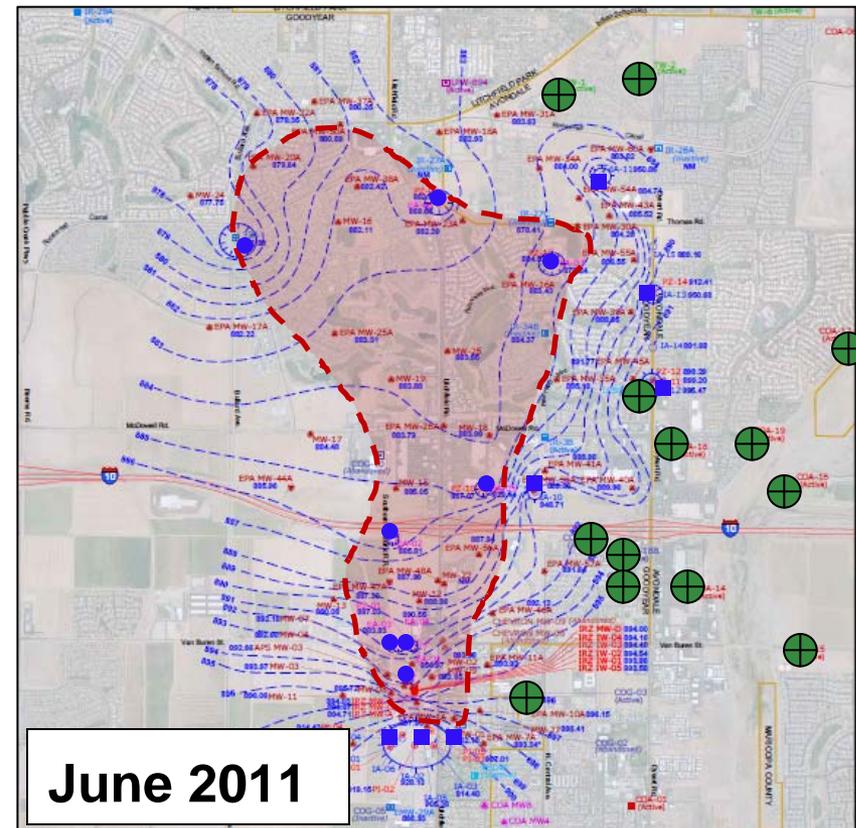
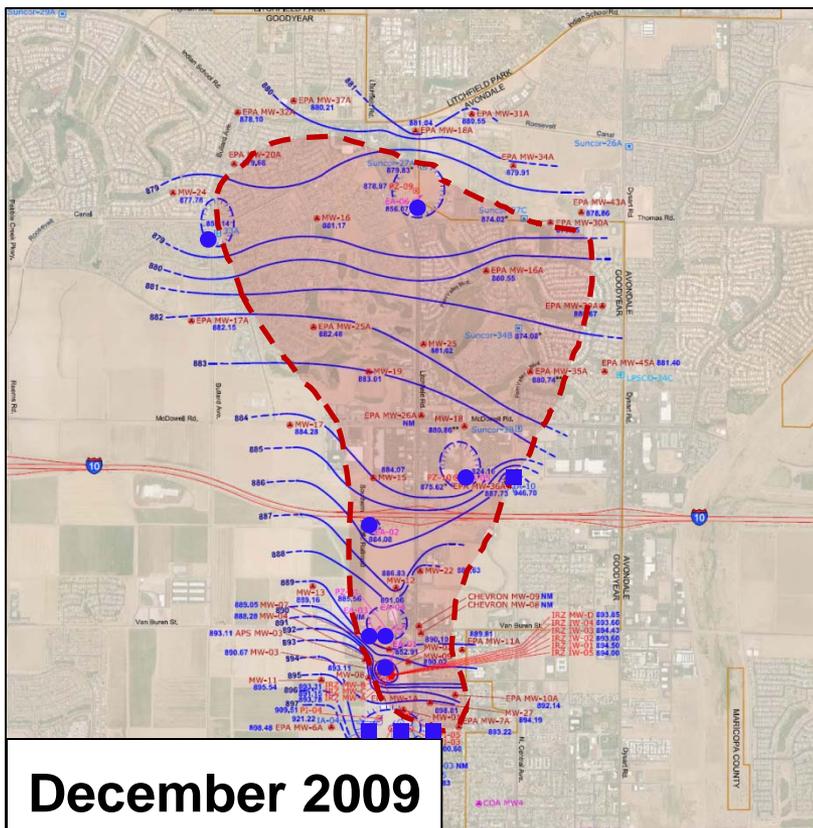
- = Groundwater Flow Direction
- = Drinking Water Supply Well
- = NE System Expansion Well



EXPANDED NORTHEAST TREATMENT SYSTEM - Continued



- Since 2009, the Subunit A TCE plume has remained relatively stable
- TCE has been reduced in key sentinel wells
- Injections have contracted the plume in the Northeast Area

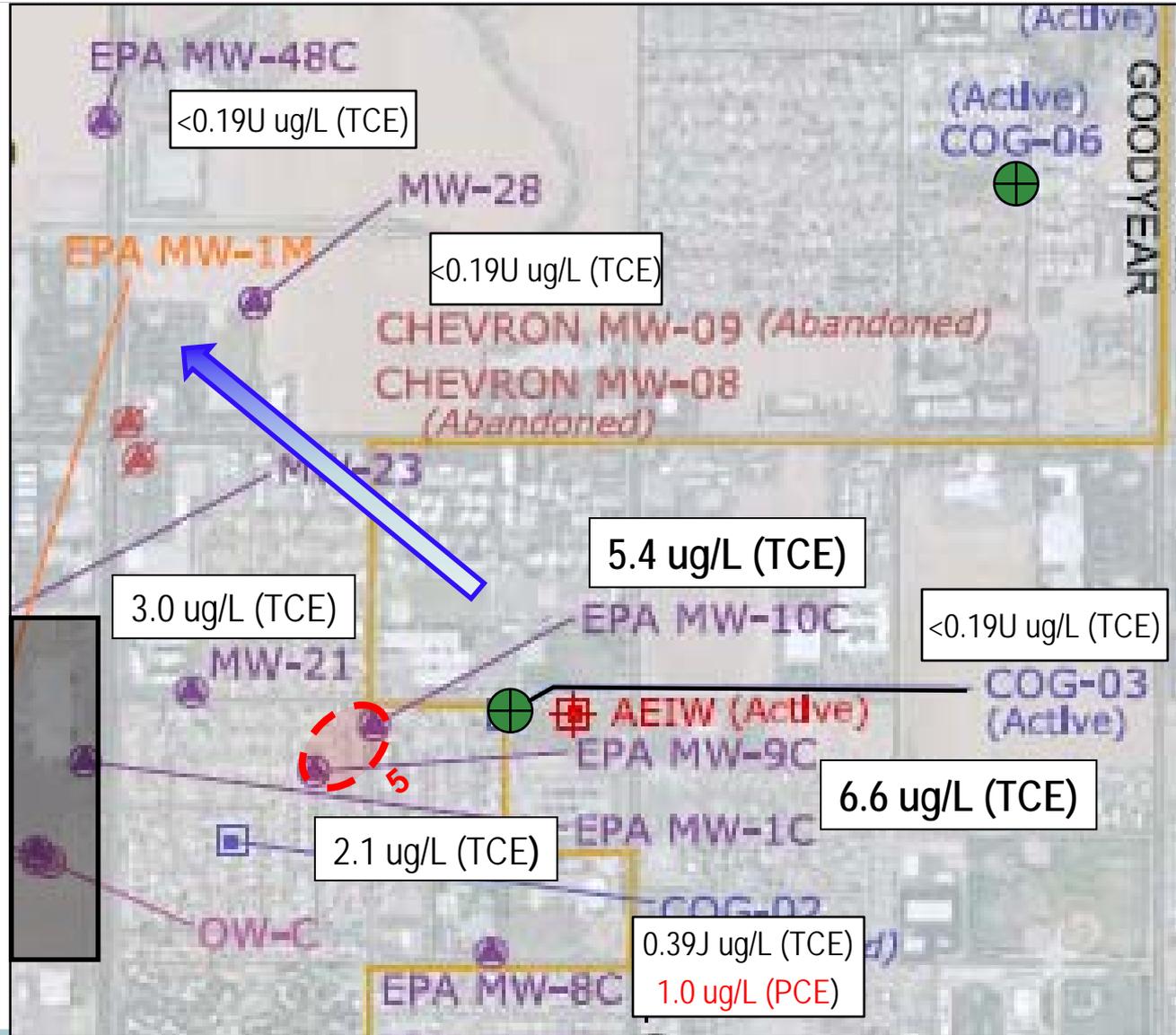


COG-03 Area Update



June 2011 Detections Subunit C

 = Subunit C TCE Plume
 = Water Supply Well
 = Direction of Groundwater Flow



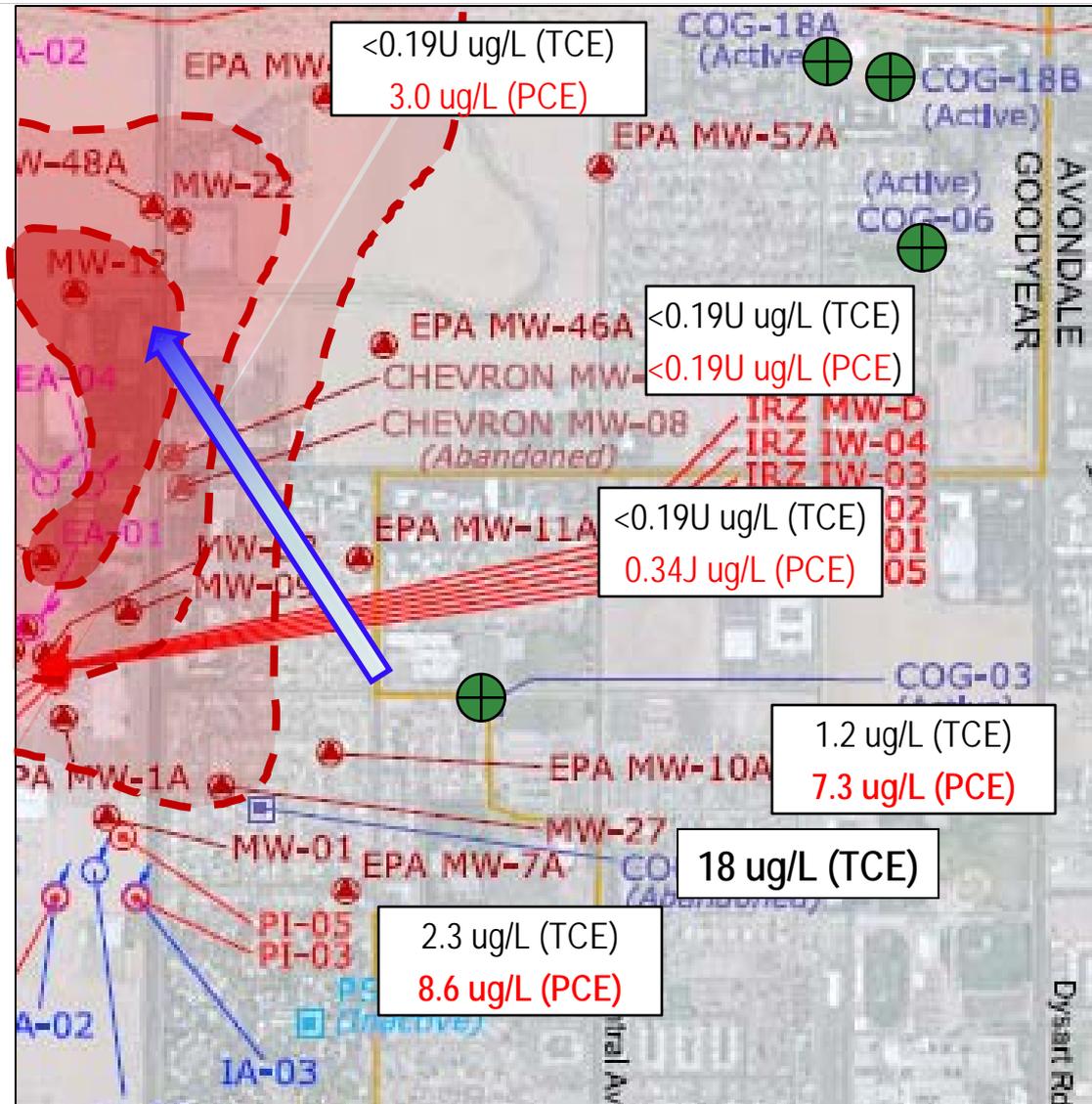
COG-03 Area Update



June 2011 Detections

Subunit A

 = Subunit A TCE Plume
 = Water Supply Well
 = Direction of Groundwater Flow



EA-08 Update



Extraction well

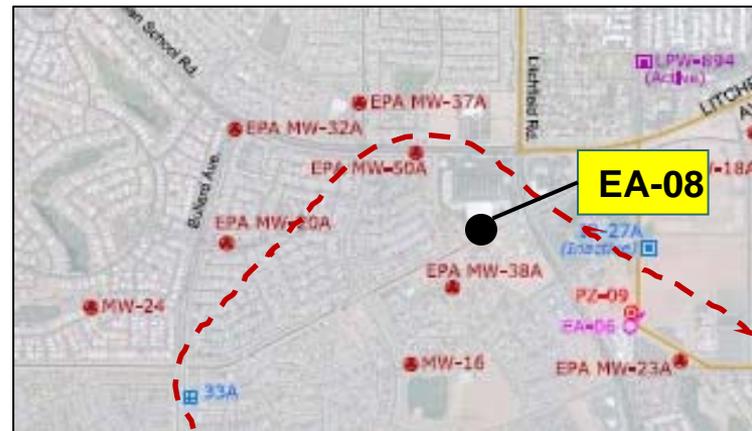
- Completed June 20, 2011
- 14-inch Diameter
- 230 feet deep
- 250 – 400 GPM

Treatment System

- COG Construction Permit is approved
- RID Canal Access Agreement is pending (Long-term – NW Reinjection System)
- System Start up – September 2011

Water Quality

- Plume is defined
- TCE trends in vicinity monitor wells are stable



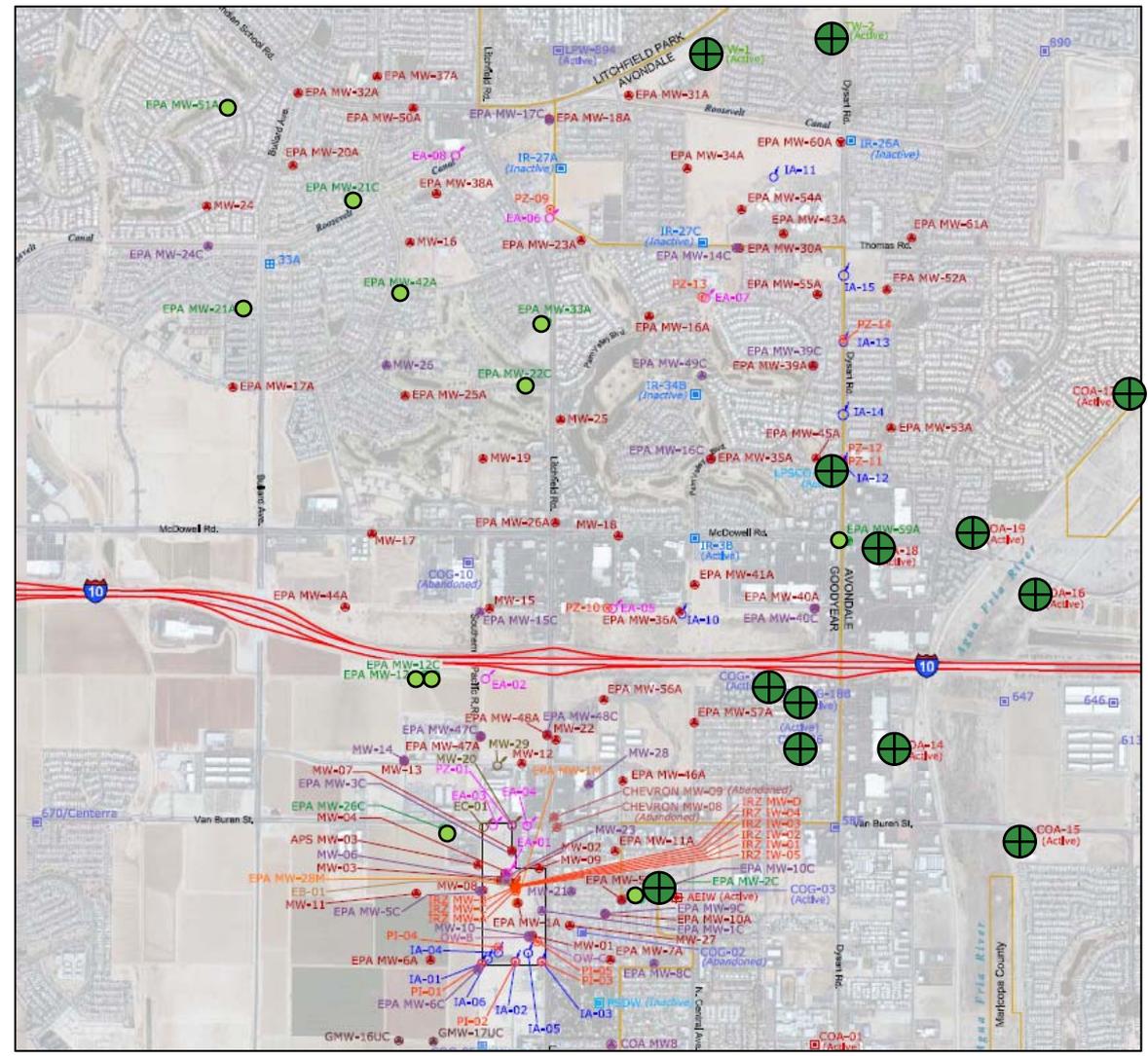
Proposed Monitor Well Locations



Additional Monitor Wells

- Refine understanding of groundwater flow and contaminant transport
- Capture Assessment
- Refine plume definition

	= Proposed Monitor Well
	= Water Supply Well



Upcoming Work



- Source Area Focused Feasibility Study
 - Evaluation of source area treatment technologies

- Optimization of Soil Vapor Extraction Treatment System

- Area Between the Sites
 - PGA-North has agreed to complete the work requested by EPA on it's wells.

QUESTIONS?





A CRESCENTA

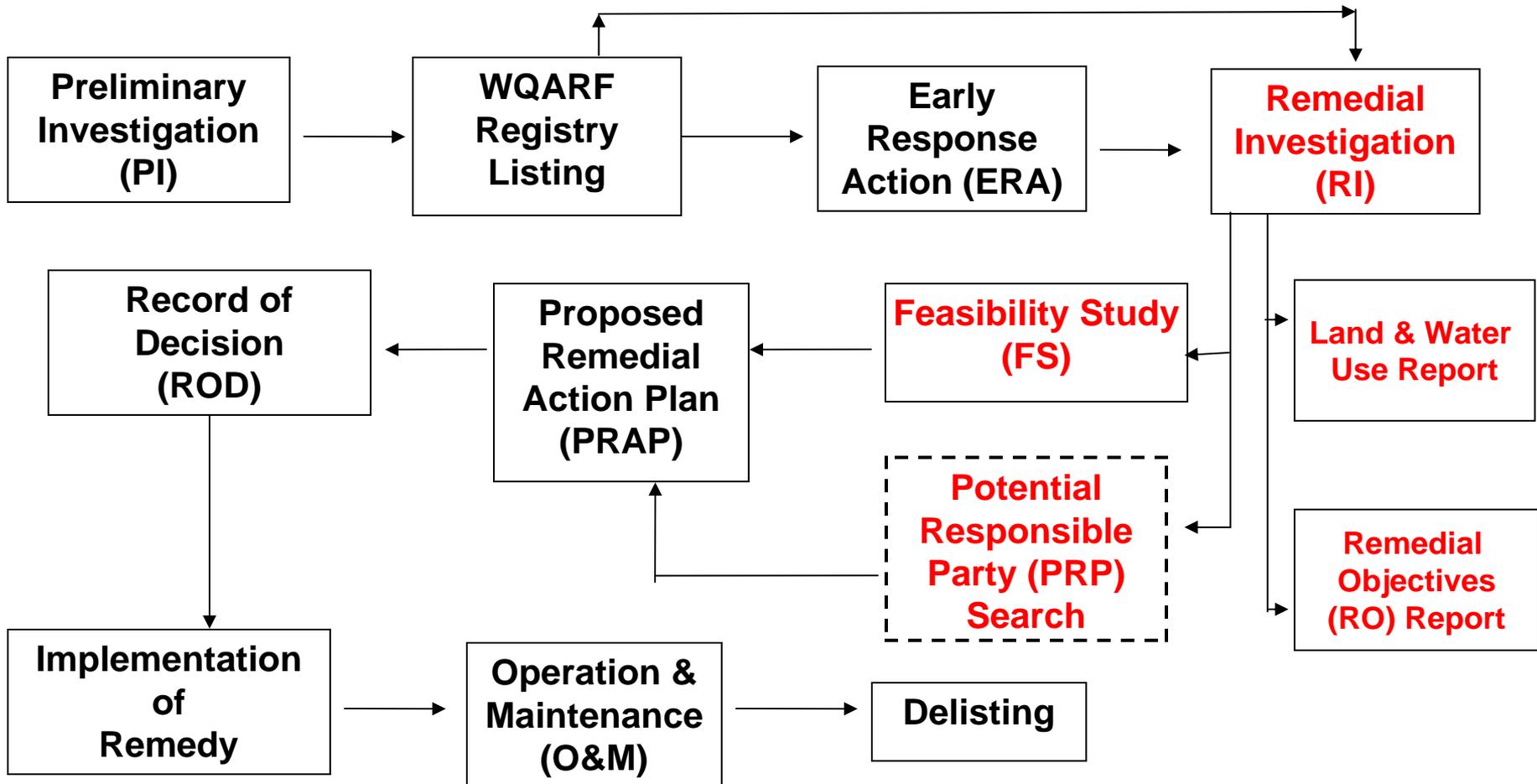


Western Avenue WQARF Site

Activities since the last CAG Meeting on
May 5, 2011

- Monthly gauging of groundwater monitoring wells
- Analysis of Passive Diffusion Bag Samples (PDBs) as part of the quarterly sampling activities
- Received final groundwater monitoring report June 2011
- Started new fiscal year (FY12) on July 1st

WQARF PROCESS





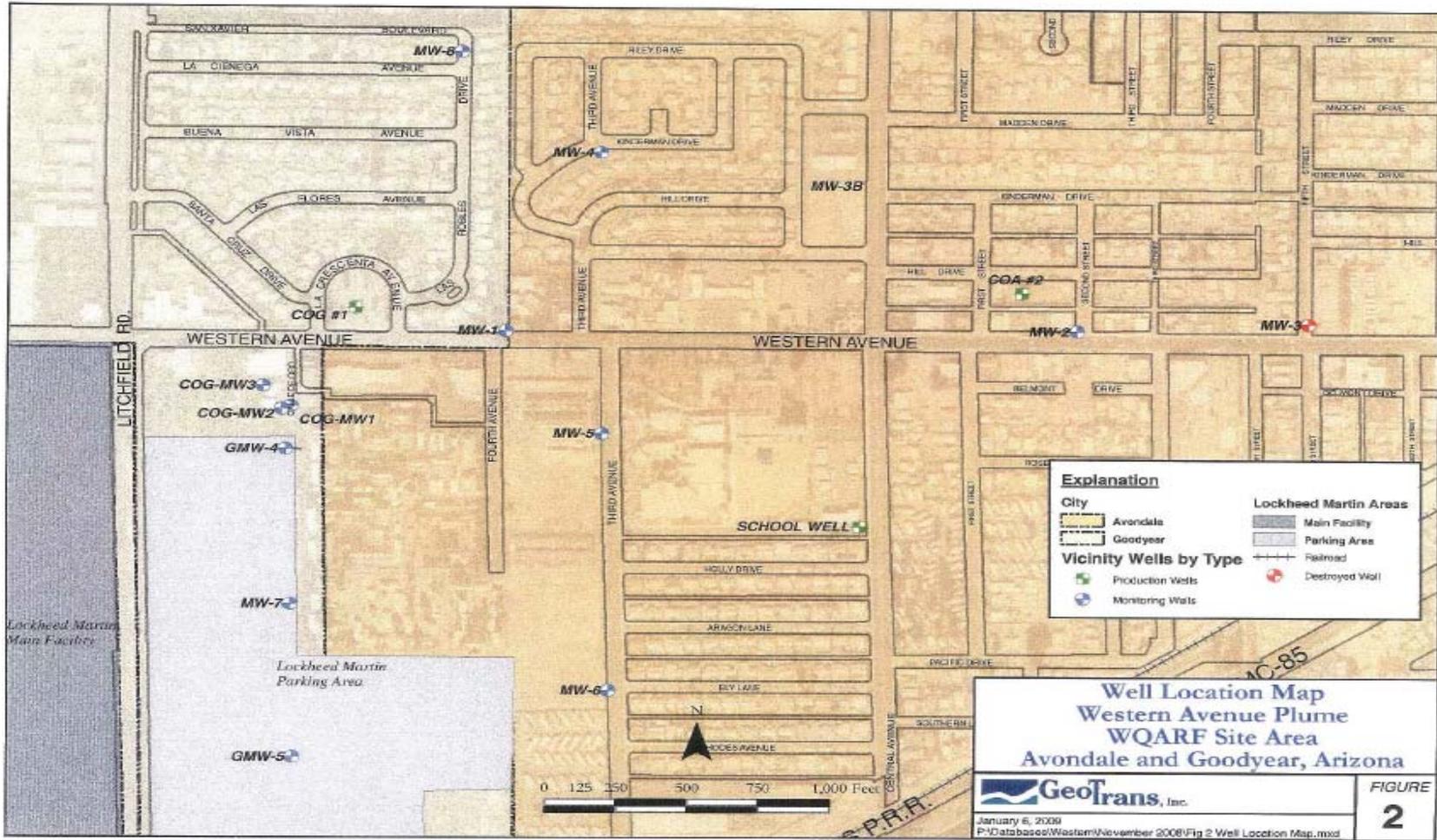
Western Avenue WQARF Site

Monitoring Results from May 4, 2011

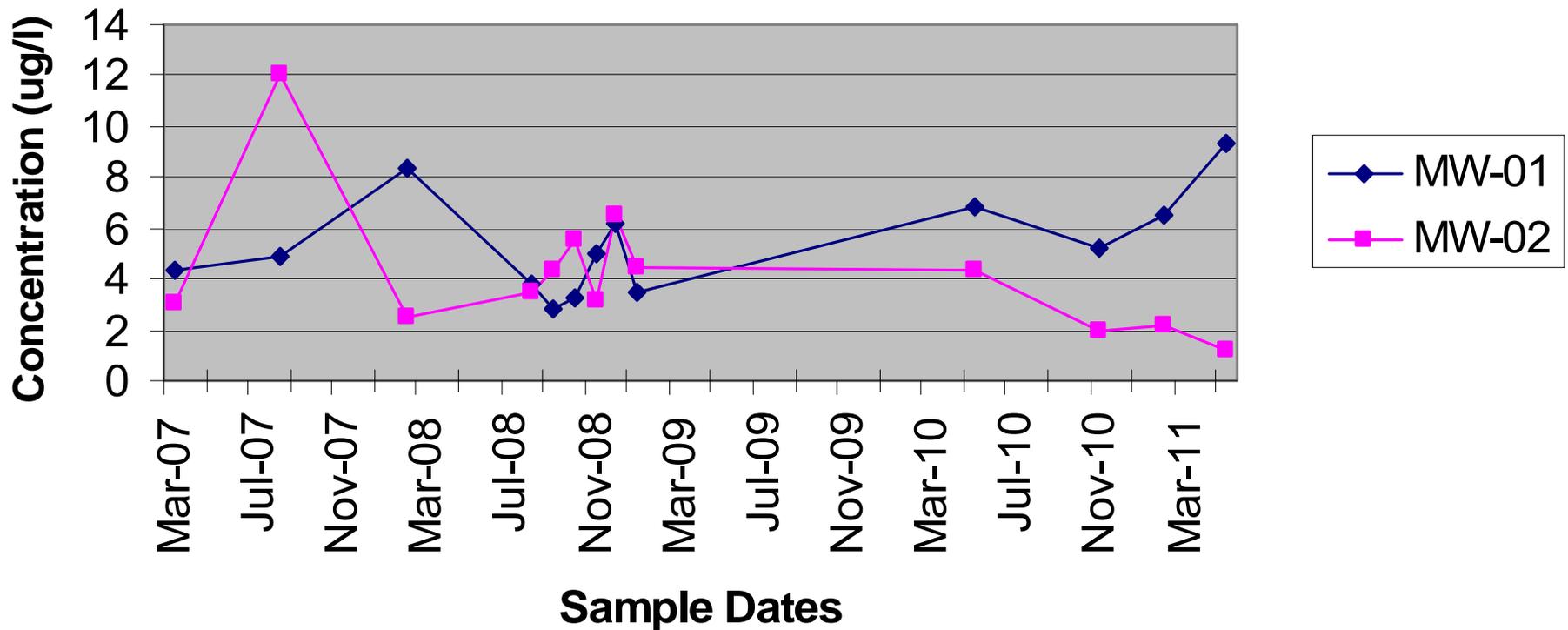
-MW-01 remains the only well above Arizona Water Quality Standard (AWQS) for PCE [5.0 $\mu\text{g}/\text{l}$] (4.52 $\mu\text{g}/\text{l}$ - 9.30 $\mu\text{g}/\text{l}$)

-City of Goodyear drinking water well COG #1 for PCE is below AWQS (0.78 $\mu\text{g}/\text{l}$)

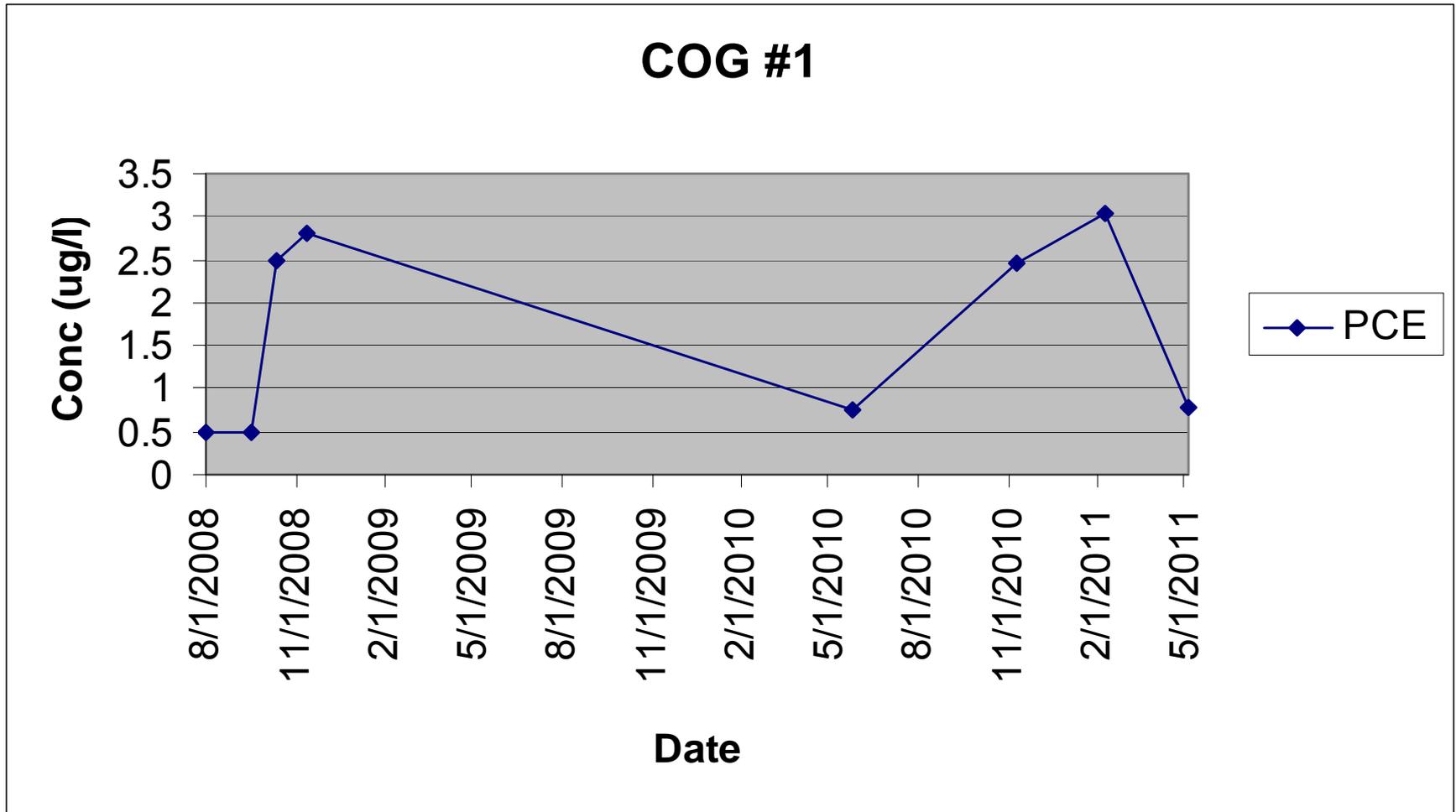
Western Avenue WQARF Site



PCE Concentrations



COG #1



5/04/2011 PCE - 0.78 $\mu\text{g}/\text{l}$



Western Avenue WQARF Site

Future planned activities:

- Continue to gauge groundwater monitoring well
- Quarterly sampling of monitoring wells with PDBs
- Continued sampling of COG #1
- Completion of FS Work Plan



Western Avenue WQARF Site

Questions?

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