Meeting Minutes

East Central Phoenix (ECP)
Water Quality Assurance Revolving Fund (WQARF) Sites
Community Advisory Board (CAB) Meeting

August 16, 2018 6 p.m. to 8 p.m.
Arcadia High School
4703 East Indian School Road
Phoenix, Arizona 85018

MINUTES

CAB members present: Ed Roads, Jacalyn Askin, Jolene Morris, Karen Kay, Nathan Nelson, Randy Dahl

Arizona Department of Environmental Quality (ADEQ) Staff in attendance: Mel Bunkers (Project Manager), Wendy Flood (Remedial Projects Support Unit Manager), Alyssa Rosewood (Community Involvement Coordinator)

Members of the public present (Attachment 1): Kirk Craig (Geosyntec Consultants, ADEQ Contractor), Lee-Anna Walker (Geosyntec Consultants, ADEQ Contractor), Jim Clark (Wood, ADEQ Contractor), Nancy Allen (City of Phoenix), Julie Riemenschneider (City of Phoenix), Kim van der Veen, John Hathaway, Rich Wherty, Carol Brady, Patricia Butler, Adam Schwartz, Phil Tibi, Thomas Lusk

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1. **Welcome and Introductions – CAB Members and Guests**
   Randy Dahl called the meeting to order at 6:04 pm.

2. **Approval and/or Changes to the Meeting Minutes for April 27, 2017**
   Prior meeting sign-in sheets are missing. Motion passed to approve minutes reflecting Laura Ruffalo not in attendance and Jacalyn Askin in attendance.

3. **Presentation and Discussion Regarding Site Activities for Four ECP WQARF Sites (Mel Bunkers) – 24th Street & Grand Canal, 32nd Street & Indian School Road, 40th Street and Osborn Road, 48th Street and Indian School Road**
   Discussion of how drilling of deeper wells came about for 32nd Street & Indian School Road, how contamination became known by ADEQ, history of the site and source of contamination.

4. Presentation and Review of ECP Sites Removed from the WQARF Registry (Mel Bunkers)– 38th Street and Indian School Road and 40th Street and Indian School Road

City of Phoenix (COP) representatives, Julie Riemenschneider and Nancy Allen, voiced the City's concern about ADEQ's remediation and groundwater monitoring technical approaches and data results used in site closures. They also voiced concerns about the lack of notification and time to discuss data prior to ADEQ closing of 38th Street and Indian School Road. Concern over lack of CAB meetings being held before sites were delisted.

5. Updated CAB Charter Discussion and Vote

Discussion of increased community involvement area (CIA). Motion to accept CAB charter as revised with a change to 12 members (seven quorum) and Section III. A. to include 0.5 mile radius around CI, was approved.

6. CAB Member Applications Review, Discussion, and Vote

Twelve applicants with six in attendance. Introductions made by Kim van der Veen, John Hathaway, Carol Brady, Patricia Butler, Adam Schwartz and Thomas Lusk. Motion to remove Daniel Swartfiguer and Laura Ruffalo, who had not regularly attended meetings, was approved. CAB elected to go into executive session to review and vote on applicants.

7. CAB Social Media Presence and Outreach

Discussion of use of social media platforms (including Facebook and Nextdoor) and how Open Meeting Law will impact CAB.

8. Call to the Public

Cut down on use of acronyms or spell them out in ADEQ site presentations. The printed presentation is missing pages. Complete presentations will be available on the ADEQ website.

9. Next Meeting Date and Agenda Topics

The next CAB meeting was tentatively scheduled for January 2019, when more site information will be available.

10. Adjournment

Meeting adjourned at 8:15 pm

East Central Phoenix (ECP) Water Quality Assurance Revolving Fund (WQARF) Sites Activity Update

Community Advisory Board Meeting

August 16, 2018

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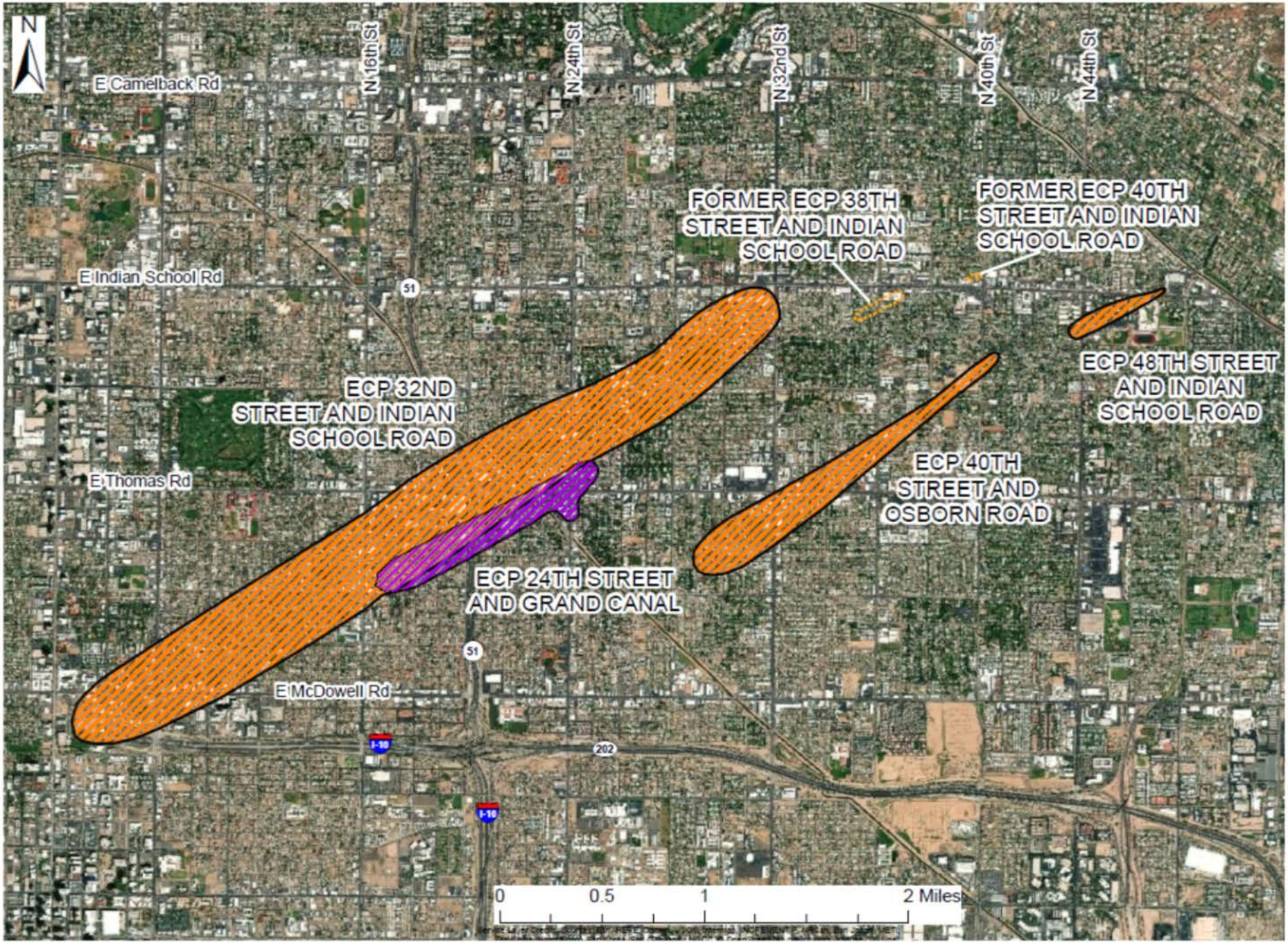
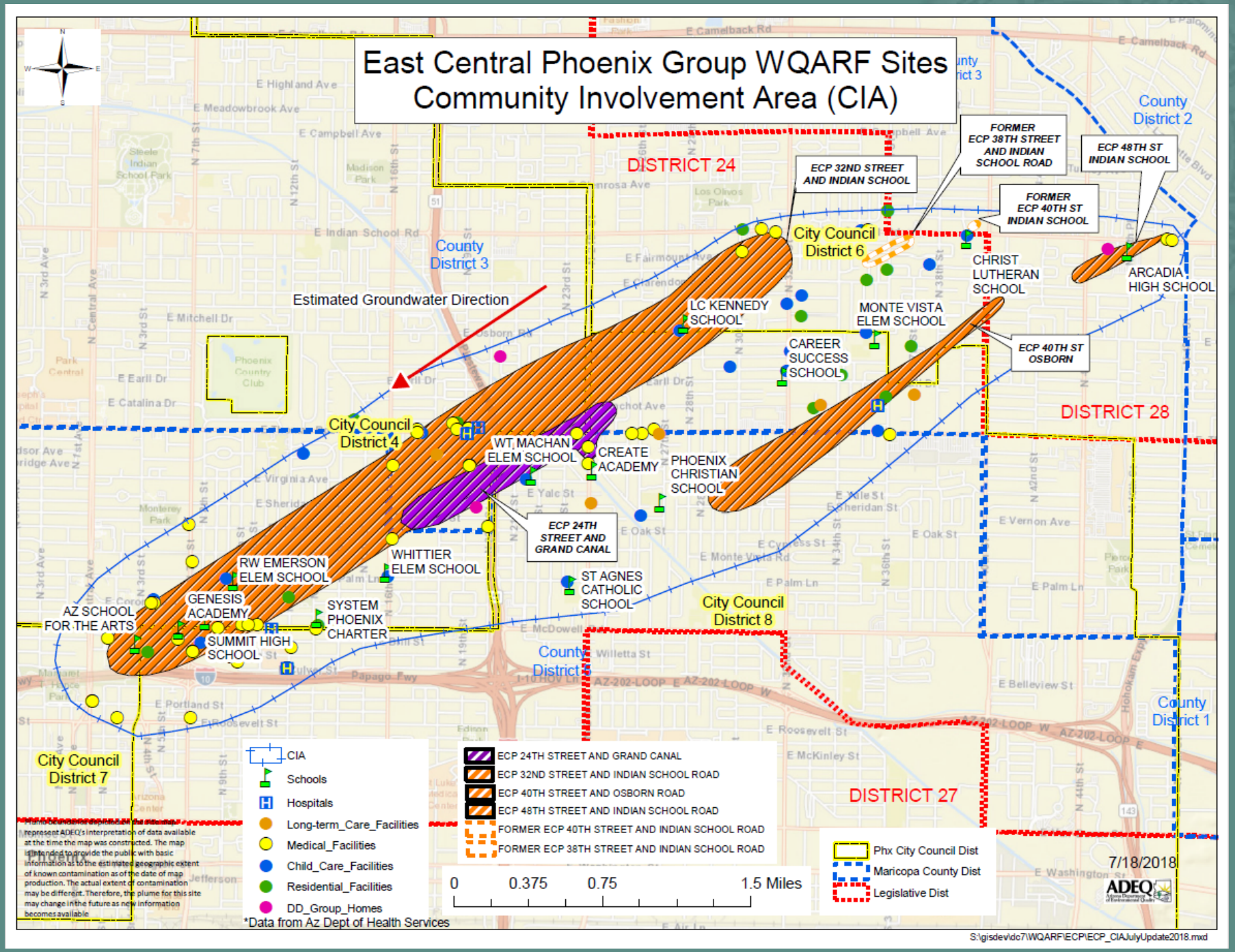
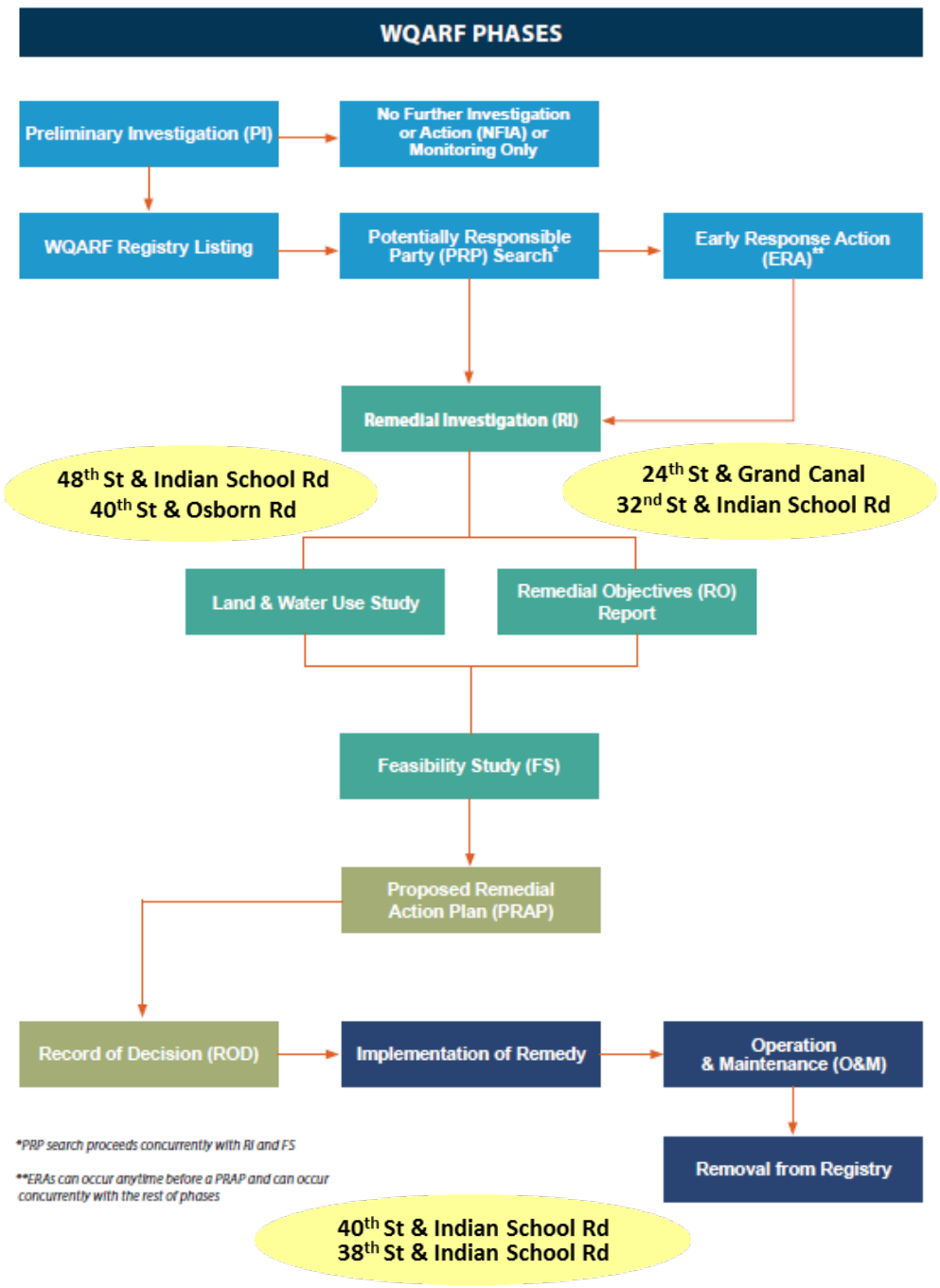
Arizona Department of Environmental Quality

ECP WQARF SITE AREA



NEW COMMUNITY INVOLVEMENT AREA





WQARF PROGRAM PHASES & ECP SITE STATUS

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24TH ST & GRAND CANAL PLUME

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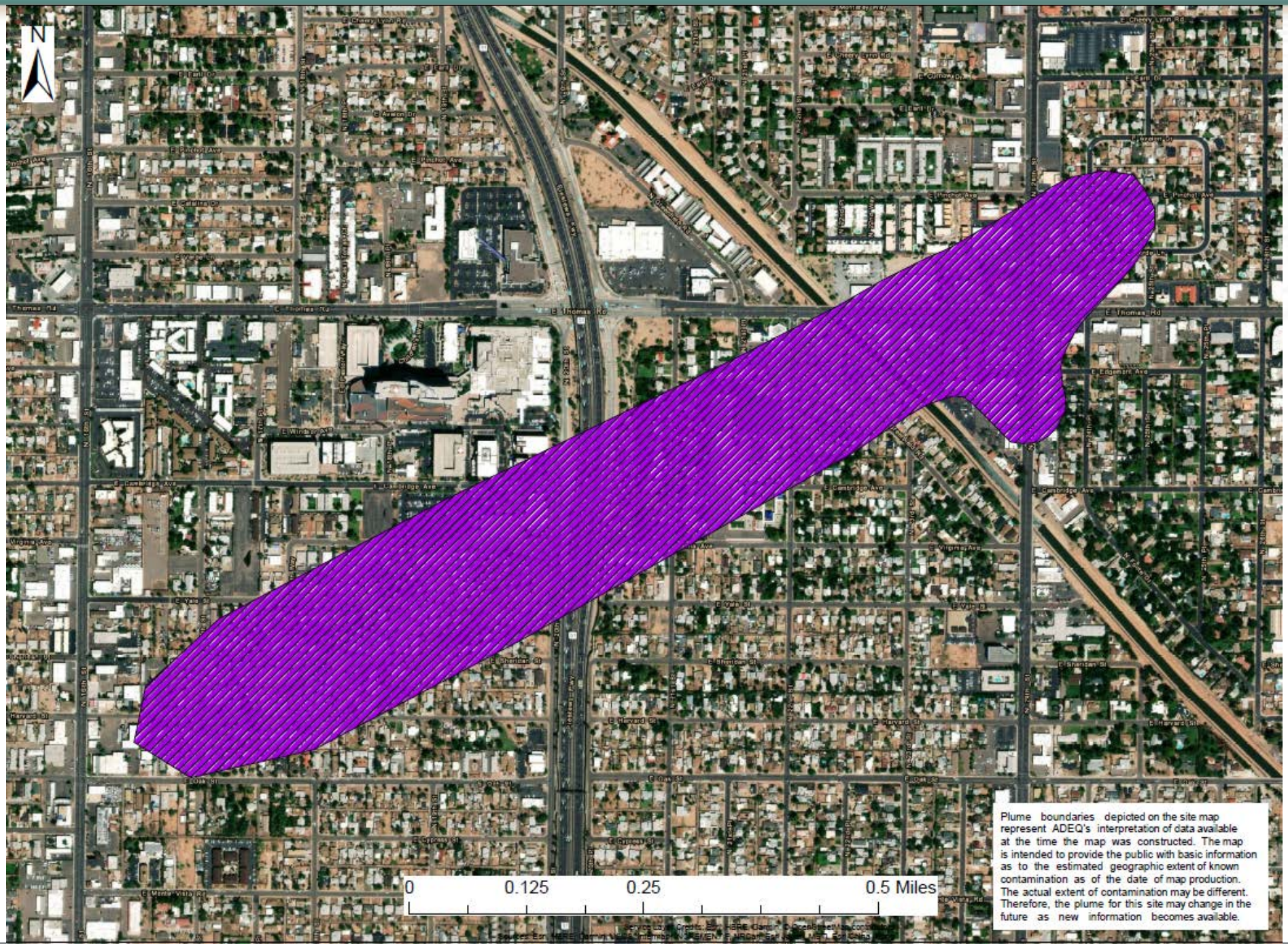

Plume boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

ADEQ Arizona Department of Environmental Quality

Problem Definition Statement:

Groundwater at the site is contaminated with tetrachloroethene (PCE) above Aquifer Water Quality Standards (AWQS) in a plume that merges with the 32nd St & Indian School Rd (IS) plume. Shallow soils at the site are contaminated with PCE in soil vapor (SV) in the vicinity of the CVS Pharmacy building.

Mini-sonic drill rig at 24-SV-08

Preparing the SimulProbe® sampler to be deployed at 24-SV-08

24TH ST & GRAND CANAL

Source Area/Potential Responsible Parties:

- Thriftway Laundry & Cleaners (dba McKean's Model Laundry & Dry Cleaning) 1949 to 1963
- ABC Cleaners (dba AZ Best 1-Hour Cleaners and Carnation 1-Hour Cleaners) 1986 to 2008.

Project Status:

- Remedial investigation (RI) phase with an early response action (ERA) for SV treatment and system optimization.
- Site monitor wells need to be sampled.
- RI report being drafted.
- Drilling completed.
- Contractor changed to Geosyntec.

Air knifing for utility clearance

24TH ST & GRAND CANAL SVE SYSTEM

ADEQ Arizona Department of Environmental Quality

Soil Vapor

- 2016 – 2018: performed routine operation & management (O&M), soil vapor sampling, system optimization and submitted required reports to Maricopa County
- In February 2018, deep soil borings at CVS confirm PCE and TCE below screening levels at depth
- ERA SVE System operated intermittently since startup; approximately 78 pounds of VOCs removed
- Shallow soil vapor rebound PCE concentrations consistent with previous monitoring results; ranging from <1.0 µg/m³ to 2,510 µg/m³

24TH ST & GRAND CANAL SVE SYSTEM

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24TH ST & GRAND CANAL

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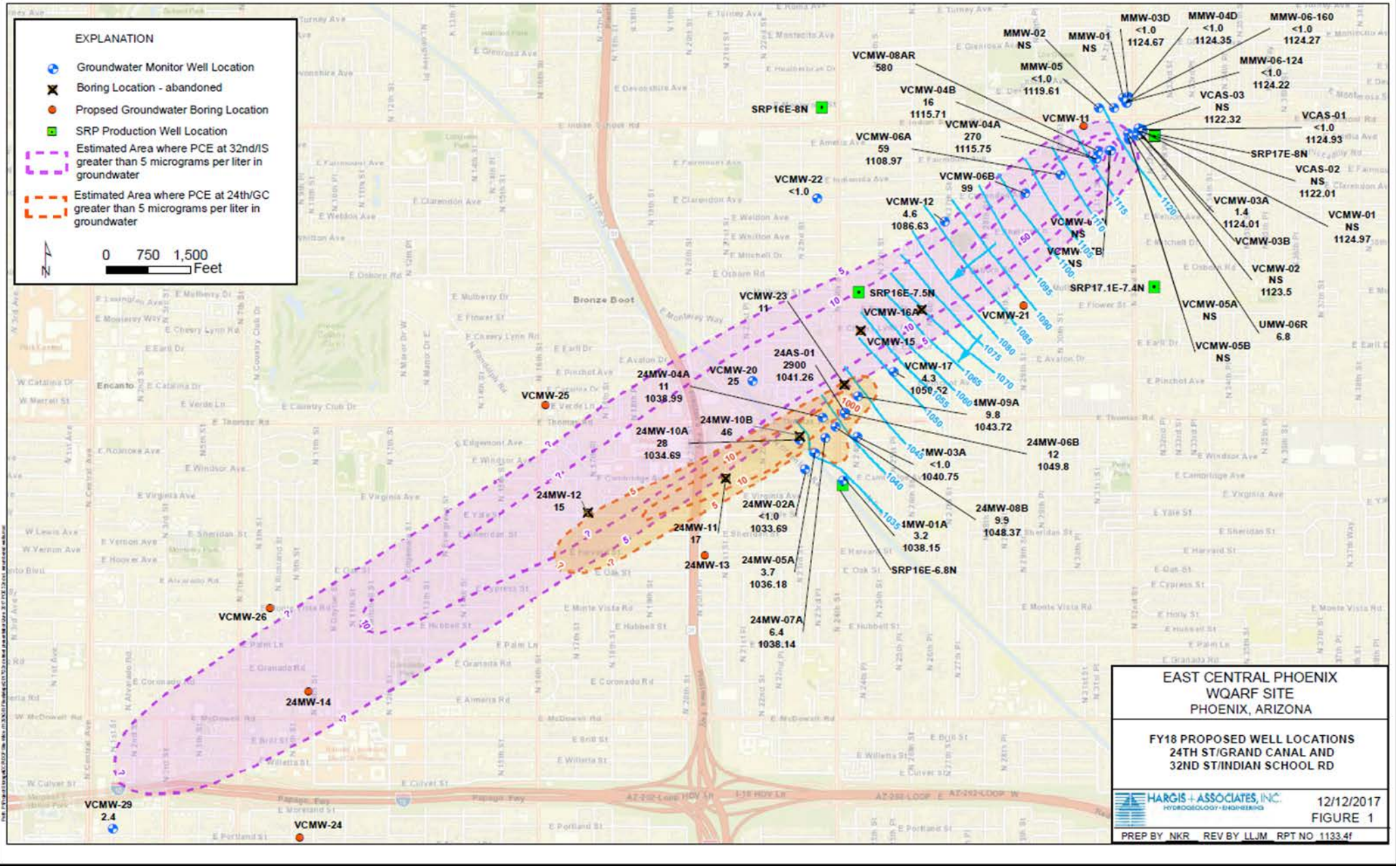

Groundwater Monitoring:

- Water levels are consistent and direction of groundwater movement is southwest.
- Groundwater sampling has not occurred since August 2016 where PCE was detected greater than the AWQS at six wells.
- In 2018, groundwater monitoring wells 24MW-13 and 24MW-14 were drilled and installed to define the extent and depth of the plume.

24TH ST & GRAND CANAL

Upcoming Work FY19:

- Finalize RI report.
- Finalize remedial objectives (RO) report.
- Finalize feasibility study (FS) work plan.
- Finalize FS report.
- Continued operation of ERA SVE system; evaluate SVE optimization alternatives.
- GW monitoring event.
- Site wide monitor well location survey.

32ND ST & INDIAN SCHOOL PLUME

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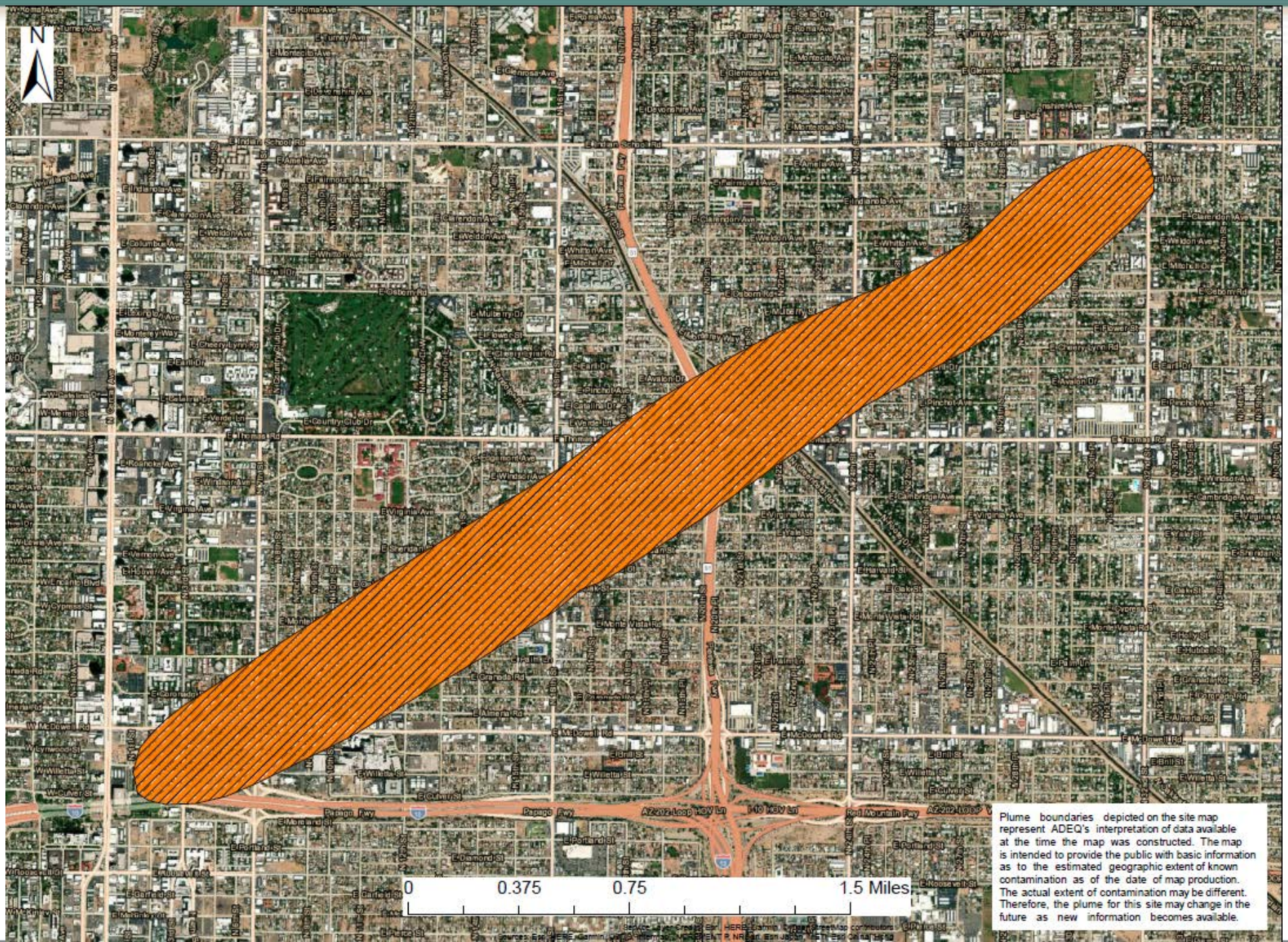

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32ND ST & INDIAN SCHOOL

ADEQ Arizona Department of Environmental Quality

Problem Definition Statement:

- GW at the 32nd St & Indian School site is contaminated with PCE and TCE above AWQS and merges with the 24th St & Grand Canal plume.
- Soils at the Maroney site were contaminated with PCE in SV ranging up to 190,000 µg/m^3 in the vicinity of the Maroney's drycleaner building.
- Soils at the former Viking site were contaminated with PCE in SV ranging up to 21,000 µg/m^3 in the vicinity of the JC Printing building (old Viking Cleaners).

32ND ST & INDIAN SCHOOL

Source Area/PRPs:

- Maroneys drycleaner; 1961 - present.
- Former Viking drycleaner (JC Printing); 1973 to 2001

Project Status:

- PCE plume larger than previously known.
- RI phase with ERA for soil vapor treatment at both Maroneys and Viking locations.
- Viking SVE system evaluation and optimization.
- Decommission of Maroneys SVE system.
- Site needs to be sampled.
- RI report being drafted.
- Drilling completed.
- Contractor changed to Geosyntec.

Well Development VCMW-24

32ND ST & INDIAN SCHOOL RD – MARONEY'S

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Site Activities

- **Q2 2017:**
  - Sampled groundwater below building. PCE not detected.
  - Installed two angled SVE wells from outside building.
- **Q3 2017:**
  - Installed one SVE well and three soil vapor probes inside the building.
- **Q2 2017 – Q1 2018:**
  - Performed soil vapor rebound evaluation 1 and 3 months after system shutdown.
  - Results below site screening levels.
- **Planned for FY2018/19:**
  - Decommission and remove system.

Recent Work: SVE System

- **Q2 2017:** Shutdown SVE system as part of rebound test.
- **Q3 2017:** Collected samples; data indicated limited rebound in localized areas.
- **Q4 2017:**
  - Installed new SVE well to focus specifically on rebound area.
  - Restarted system.
- **Q1 2018:**
  - Shut down system and repeated rebound testing. Rebound observed in new area.
- **Planned for FY2018/19:**
  - Install new SVE well to focus specifically on rebound area.
  - Perform rebound assessment.
  - If favorable results, decommission and remove system.

32ND ST & INDIAN SCHOOL

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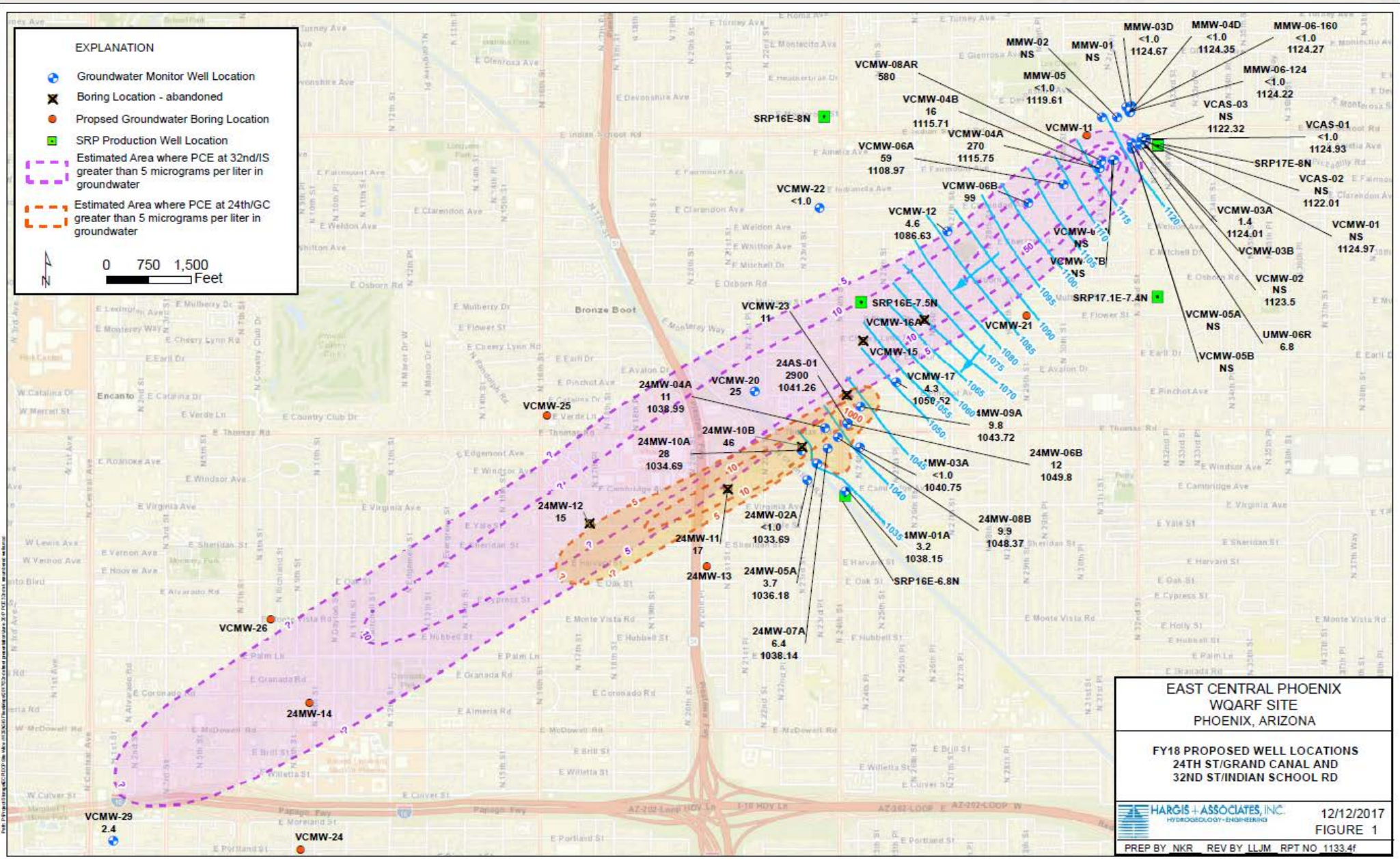

Recent Work: Groundwater

- 2016 site wide groundwater sampling event.
- 2016 installed deep well VCMW-03D at former Viking Cleaners – PCE concentrations below AWQS.

- 2017 installed monitor well VCMW-20, PCE above AWQS.
- 2017 installed monitor well VCMW-22, PCE below AWQS.
- 2017 boring and profiling of VCMW-23, PCE above AWQS.
- 2017 installed monitor well VCMW-29, PCE below AWQS.

- 2018 installed downgradient monitor wells VCMW-24 and VCMW-26, PCE below AWQS.

32ND ST & INDIAN SCHOOL

Upcoming Work FY19:

Drilling 24MW-14

- GW monitoring.
- Finalize RI report.
- Finalize RO report.
- Finalize FS work plan.
- Finalize FS report.
- Monitor well location survey.
- Continued operation of Viking SVE system; evaluate SVE optimization alternatives.
- Probable decommission of Maroneys SVE system.

40TH ST & OSBORN PLUME

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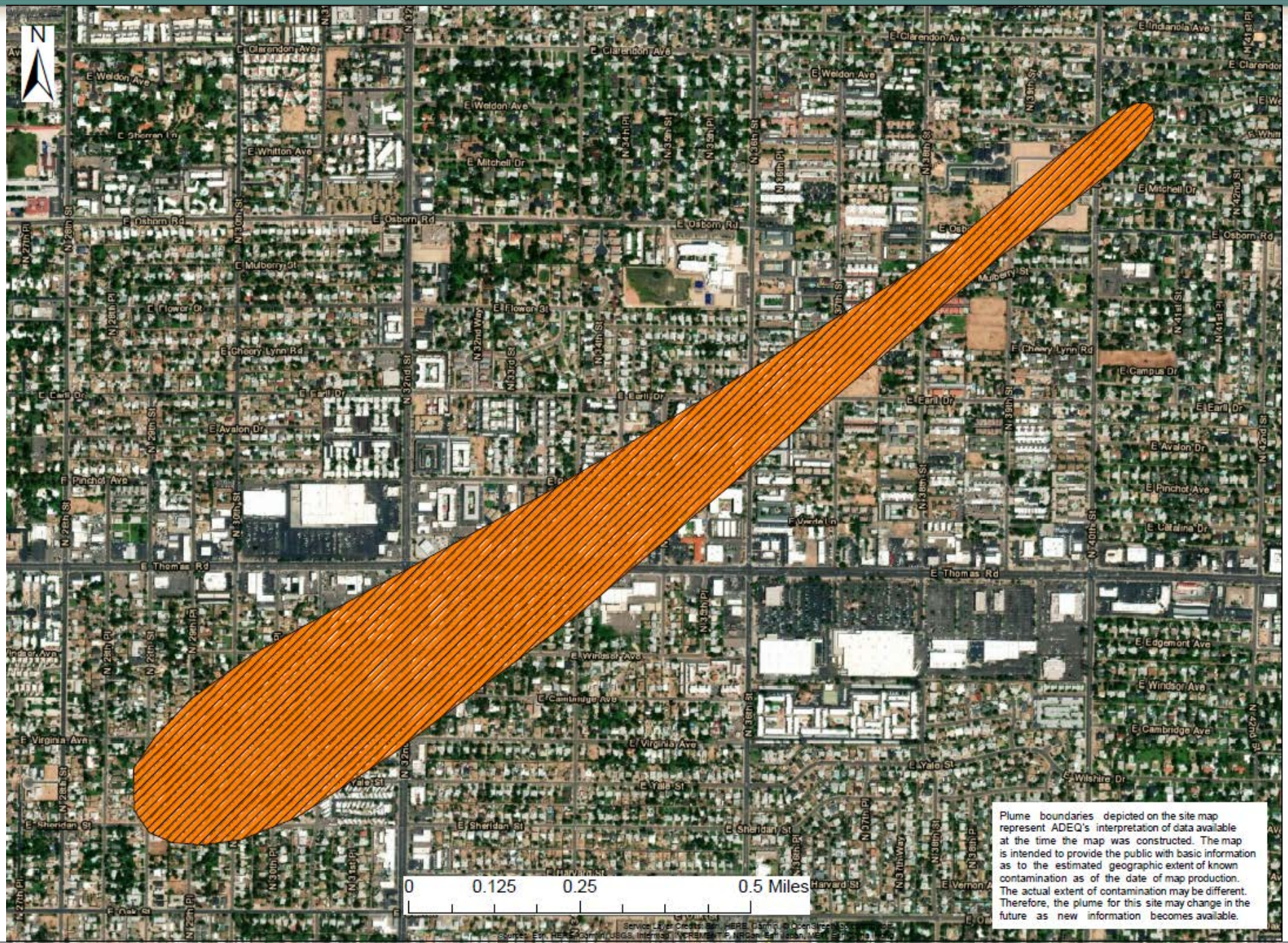

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Problem Definition Statement:

Groundwater at the site is contaminated with PCE above AWQS, within an undefined plume to a depth greater than 280 feet bgs, source of contamination is unknown.

40TH ST & OSBORN

Contaminant of Concern: PCE

Source Area/Potential Responsible Parties:

- Unknown, possibly 48th St & IS connection

Former Baker Nursery

40TH ST & OSBORN

Project Status:

- PCE plume is larger than previously known.
- Drilling to occur upgradient and downgradient of the plume in the Fall of 2018.
- RI report is drafted.
- RO report is drafted.
- FS work plan is drafted.
- Site needs to be sampled.
- Contractor changed to Wood.

40TH ST & OSBORN

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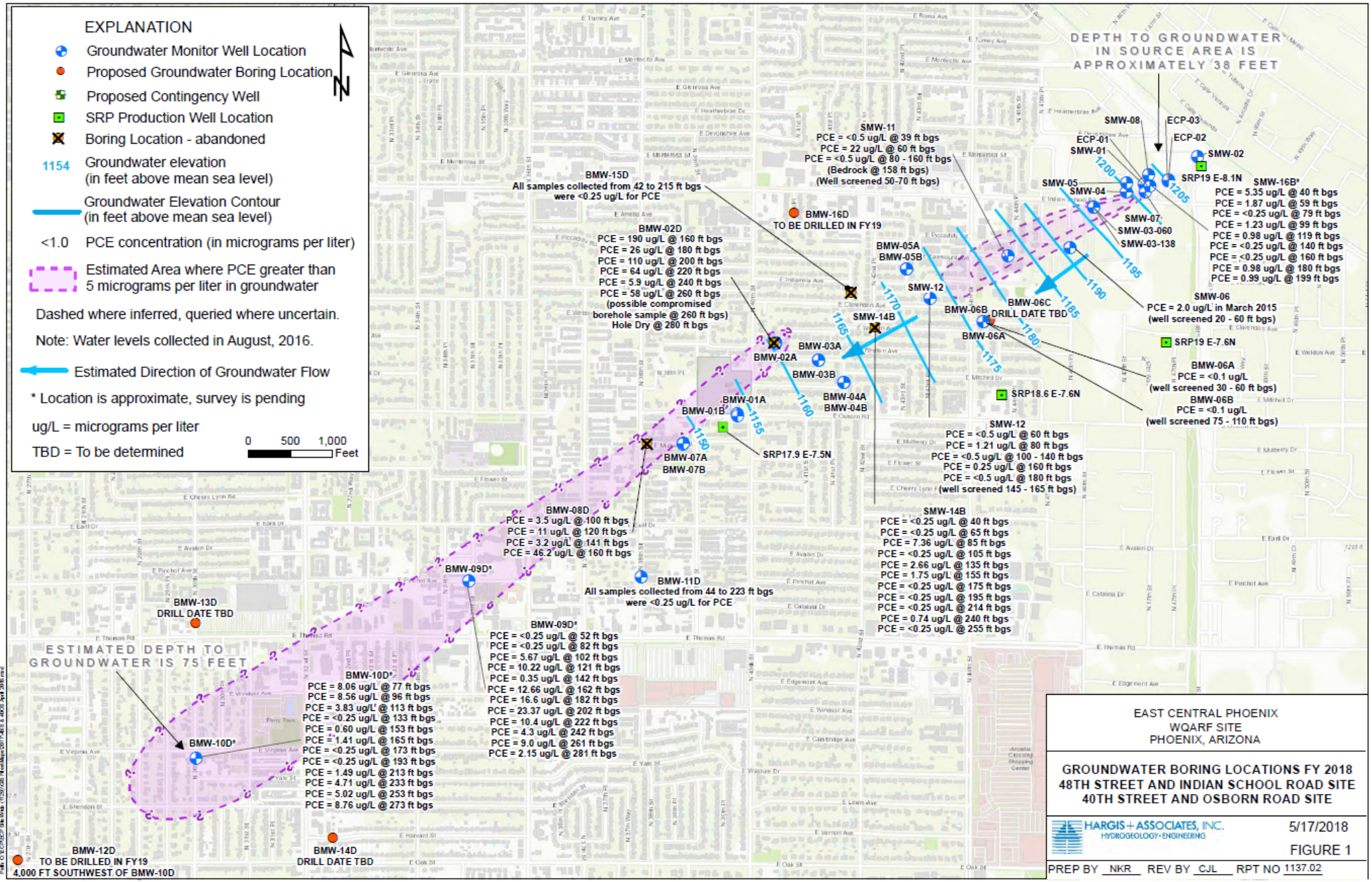

EAST CENTRAL PHOENIX
WQARF SITE
PHOENIX, ARIZONA

GROUNDWATER BORING LOCATIONS FY 2018
48TH STREET AND INDIAN SCHOOL ROAD SITE
40TH STREET AND OSBORN ROAD SITE

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

5/17/2018

FIGURE 1

PREP BY NKR REV BY CJL RPT NO 1137.02

40TH ST & OSBORN

Recent Work:

- April 2016 SRP well sampling non-detect.
- August 2016 PCE ranged from <1.0 µg/L to 62 µg/L.
- 2018 - BMW-09D PCE @ 12.66, 16.6, 23.37, 10.4 µg/L.
- 2018 - BMW-10D PCE @ 4.71, 5.02, 8.76 µg/L.
- 2018 - BMW-11D PCE non-detect, abandoned borehole.

Drilling BMW-11D

Well Development BMW-09D

Upcoming Work:

- Install upgradient monitor well and downgradient monitor wells to define vertical & lateral extent of plume and possibly connect to 48th St & IS site. Wells to be installed based on field data and borehole profiling.
  - Monitor well sampling.
  - Finalize RI report.
  - Finalize RO report.
  - Finalize FS work plan.

Well Development BMW-09D

48TH ST & INDIAN SCHOOL PLUME

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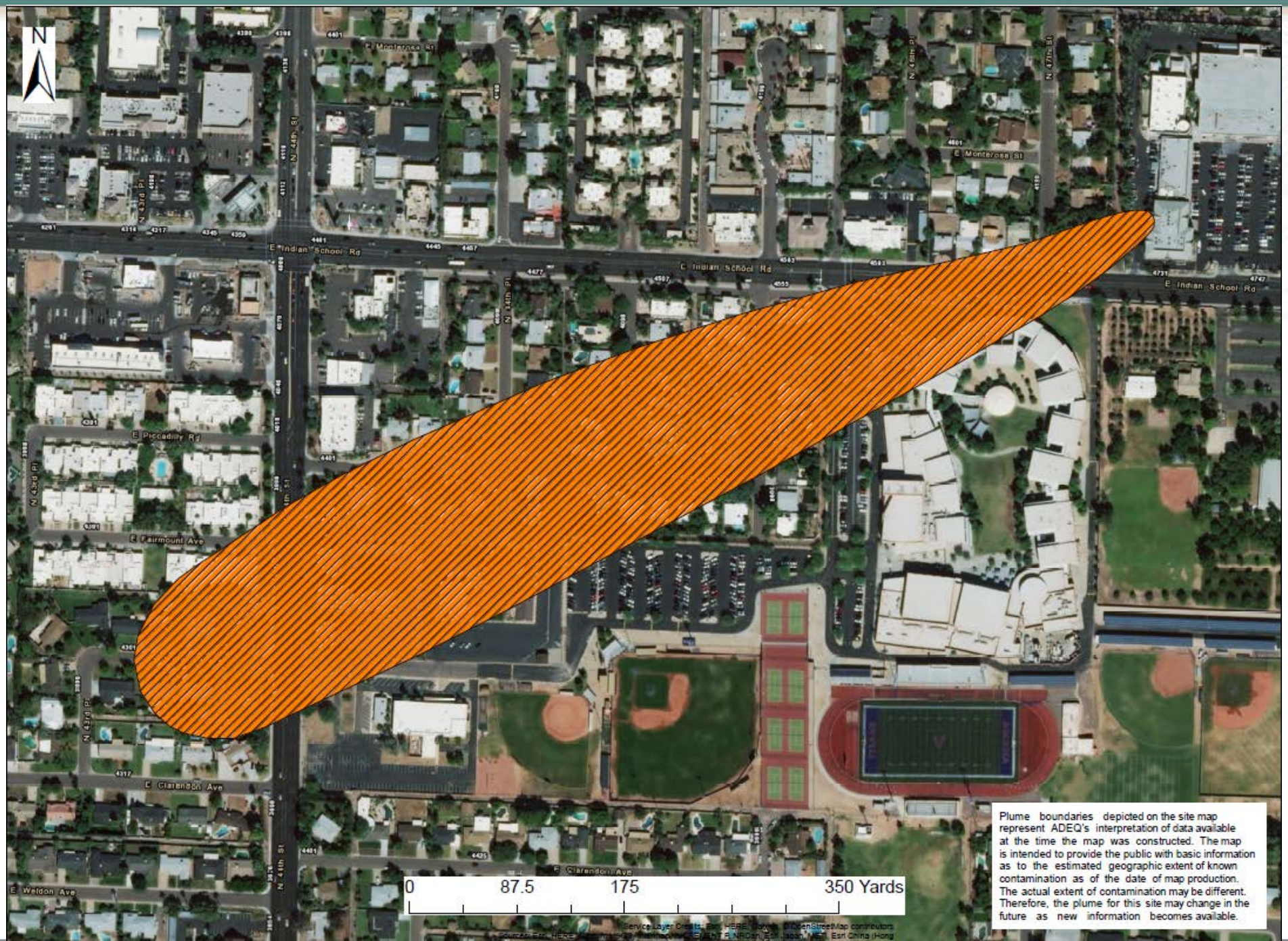

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Problem Definition Statement:

- Groundwater at the site is contaminated with PCE above AWQS in a plume. Soils at the site are contaminated with PCE in SV in the vicinity of Sandy's Magic Touch Cleaners.

48TH ST & INDIAN SCHOOL

Source Area/PRPs:

- Sandy's Magic Touch Cleaners (1989 to the Present)
- Cleaners by George (1966 to 1989)

Project Status:

- RI phase
- May be connected to the 40th & Osborn plume.
- Site needs to be sampled.
- Contractor changed to Wood.

Recent Work: GW

- 2016 PCE in GW ranged from <1.0 µg/L to 10 µg/L.
- 2018 installed deep source monitor well SMW-16B near Sandy's drycleaner. PCE 5.35 µg/L at 40 ft bgs.

Drilling SMW-16B

48TH ST & INDIAN SCHOOL

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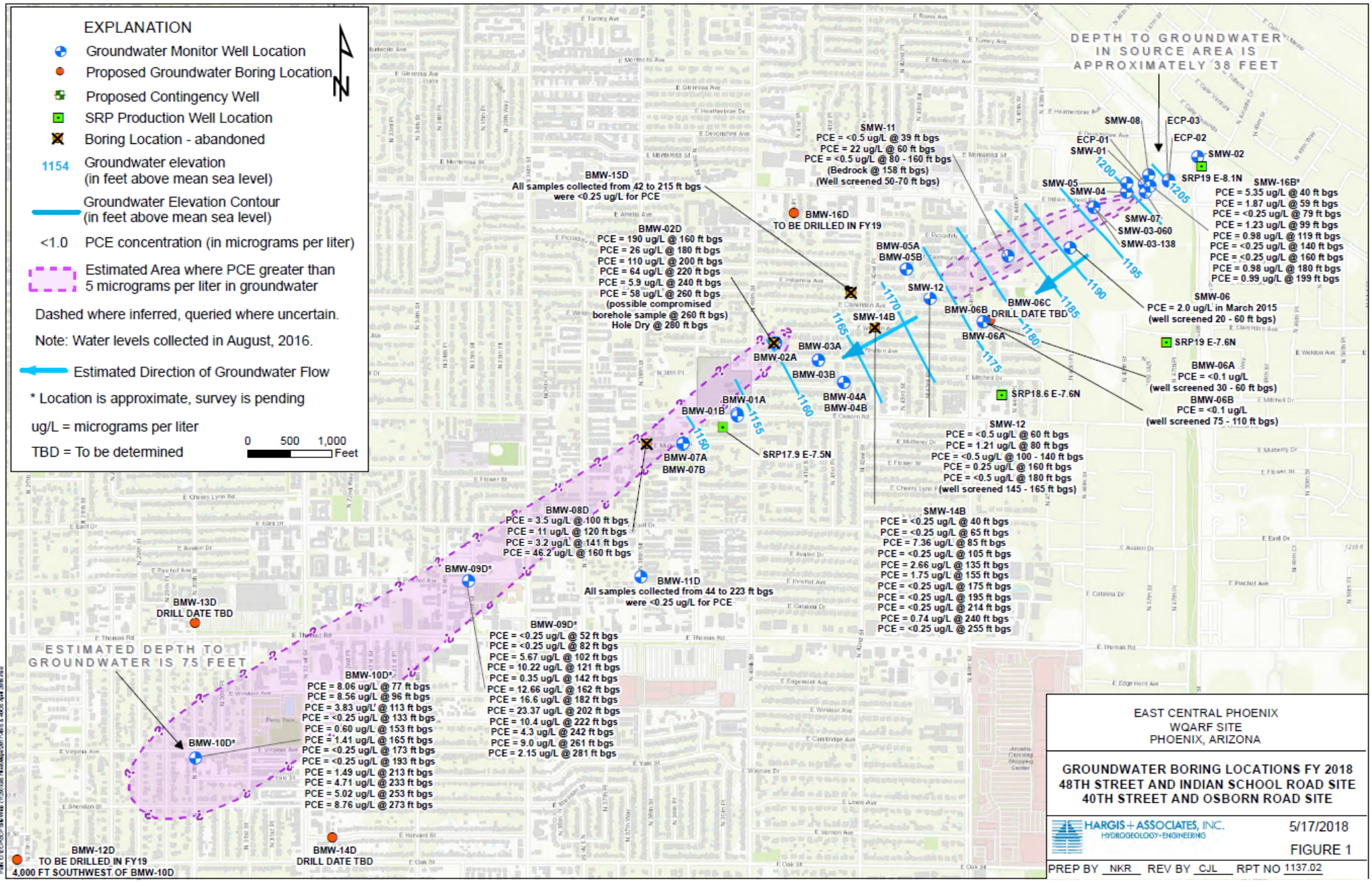

EAST CENTRAL PHOENIX
WQARF SITE
PHOENIX, ARIZONA

GROUNDWATER BORING LOCATIONS FY 2018
48TH STREET AND INDIAN SCHOOL ROAD SITE
40TH STREET AND OSBORN ROAD SITE

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5/17/2018

FIGURE 1

PREP BY NKR REV BY CJL RPT NO 1137.02

48TH ST & INDIAN SCHOOL

Data Gaps:

- Evaluation of the site to be a potential source of PCE for the 40th St. & Osborn Rd site.

Upcoming Work:

- Groundwater sampling.
- Finalize RI report.
- Finalize RO report.
- Finalize FS work plan.

40TH ST & INDIAN SCHOOL

- FY17 In-situ Chemical Oxidation (ISCO) (March).
  - 10% H2O2 accelerated oxidation of PCE
- FY17 Sampling (April, May).
- FY17 Feasibility Study Closeout Report.
- Site Closed and Delisted May 29, 2017.

38TH ST & INDIAN SCHOOL

- FY18 ISCO (Oct, Nov, Early January).
- FY18 Sampling (Late Jan, April, May).
- FY18 Feasibility Study Closeout Report.
- Site Closed and Delisted June 26, 2018.

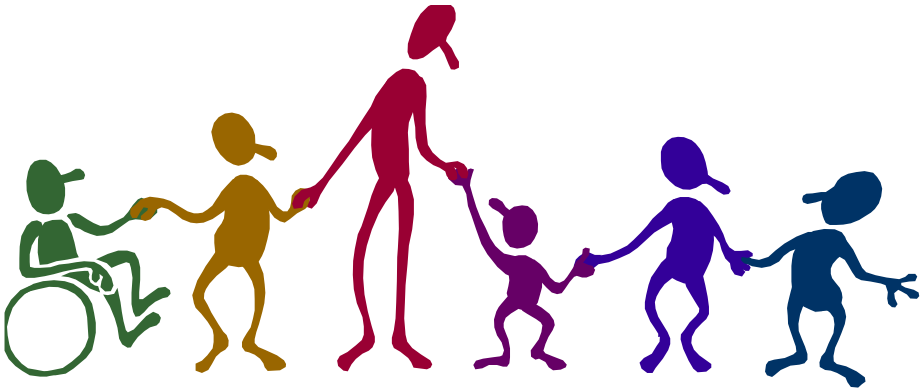
ECP PATH FORWARD FY19

- **24th St & Grand Canal** – Sampling; continued SVE system operation and optimization; RI report; RO report; FS work plan; FS report.
- **32nd St & Indian School** – Sampling; continued Viking SVE system operation and optimization; decommissioning and removal of the Maroney's SVE system; RI report; RO report; FS work plan; FS report.
- **40th St & Osborn** – Sampling; define vertical & lateral extent of the plume; determine if connected to 48th St & Indian School. RI report; RO report; FS work plan; FS report.
- **48th St & Indian School** – Sampling; define vertical & lateral extent of the plume; determine if connected to 40th St & Osborn. RI report; RO report; FS work plan; FS report.
- CAB meetings as needed for draft RI reports and ECP site updates.

TAKE AWAY

As a CAB member, what can you do to help?

- Share information with neighbors, groups, family, and friends about the Site.
- Communicate questions or concerns with ADEQ.
- Call Alyssa or Mel with questions or suggestions.
  - What do you want to know or learn?
- Keep attending CAB meetings!



Questions?

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