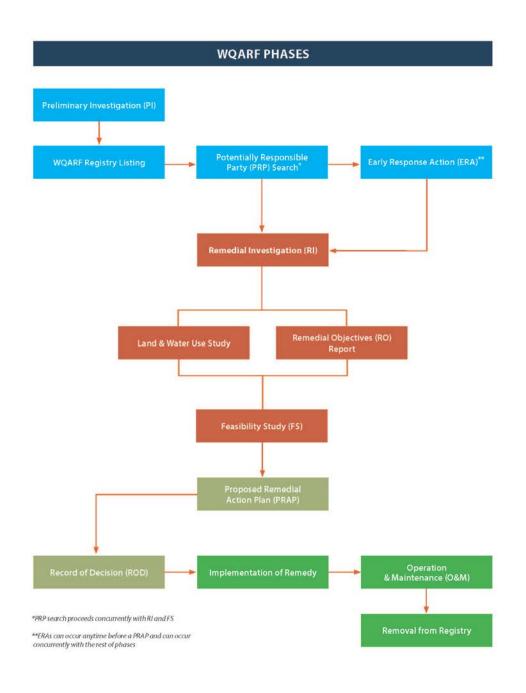


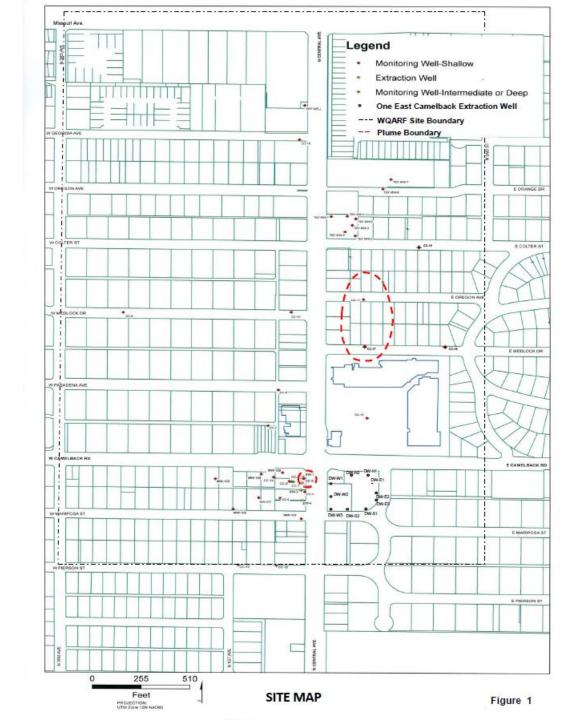
Central and Camelback WQARF Site

Kevin Snyder, Project Manager

Caroline Oppleman, Community Involvement Coordinator

March 11, 2015 5:30 pm









Events Since May 2014 CAB Meeting

- Completed the Remedial Investigation (RI)
 Report and initiated the Feasibility Study (FS)
 Phase of Investigation.
- The SVE system has removed 6,495 lbs. of PCE from soil as of the end of December 2014.
- The groundwater system has removed 332.8 lbs. of PCE from water as of the end of December 2014.
- Groundwater samples were collected from the groundwater monitor wells during December 2014 and documented in the semi annual report for 2014.



Events Since May 2014 CAB Meeting (continued)

- Groundwater samples were collected from the extraction wells and groundwater treatment system quarterly and monthly, respectively. Vapor samples were collected from the SVE system monthly.
- The groundwater system has shutdown during January for SRP canal dry out and cleaning.
- The SVE system has been fully operational since last CAB meeting.
- Groundwater treatment system and SVE system will continue to operate as presently funded.



Analytical Results From Groundwater Treatment System Extraction Wells

- Currently Only Extraction Wells CC-5 and EW-2 Are Operating and Are Sampled
 - Extraction Well EW-4 was shutdown on January 20, 2009
 - Extraction Well EW-3 was shutdown on May 6, 2009
 - Extraction Well EW-2 was shutdown on May 20, 2009 and restarted on October 29, 2009
 - Extraction Well EW-1 was shutdown on March 13, 2013

PCE Concentrations In Extraction Well Samples

WELL Number	March 2014	June 2014	Sept. 2014	Dec. 2014
CC-5	40	32	28	23
EW-1	NS	NS	NS	NS
EW-2	12	11	11	9.3
EW-3	NS	NS	NS	NS
EW-4	NS	NS	NS	NS



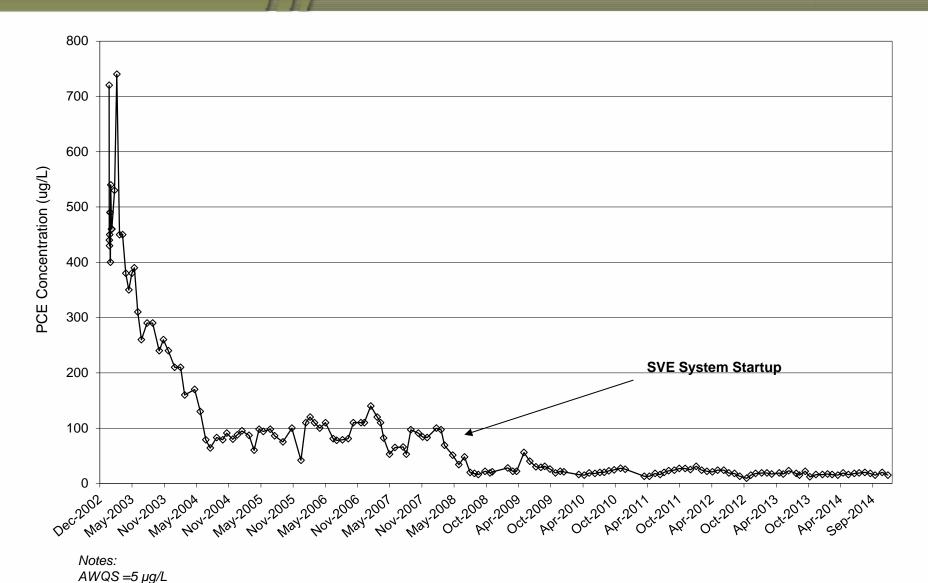
Operation & Maintenance Statistics for the GW Treatment System

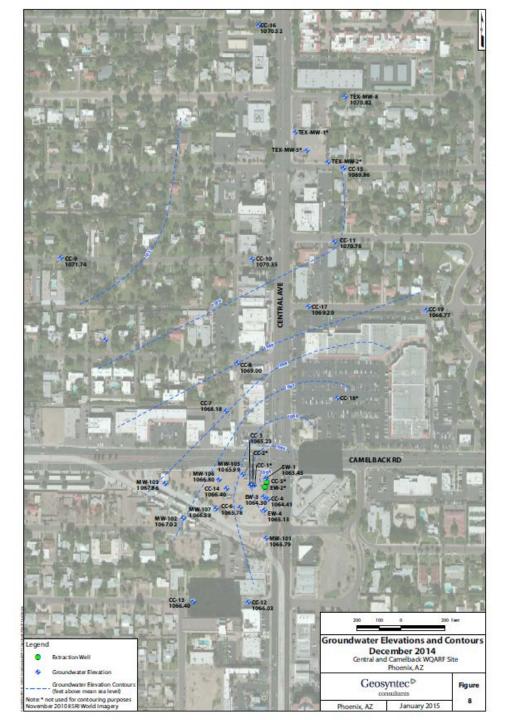
Quarter	Gallons Treated	Percent Operational	VOC/PCE Removed (Lbs.)
1st Qtr 2014	6,215,140	100%	1.13/0.83
2 nd Qtr 2014	5,836,010	100%	1.15/0.85
3 rd Qtr 2014	5,343,700	99.9%	1.16/0.89
4 th Qtr 2014	5,055,900	96.1%	0.98/0.70
Analyte	Range 1 st & 2 nd Quarter 2003	December 2014	AWQS
Benzene	<0.50 - 0.54	< 0.50	5
Chloroform	1.8 – 2.8	3.3	100
PCE	350 - 740	15	5
TCE	9.7 – 16	1.7	5
Cis-1,2-DCE	8.5 - 20	0.58	70

Concentrations in micrograms per liter (ug/L)



PCE Influent Concentration Changes With Time







SVE (soil) System Update

- During 2014, the SVE system removed approximately 379.2 pounds of VOCS.
- Since SVE system startup in November 2007 to the end of December 2014 approximately 6,495 lbs. of VOCs.
- Conducting quarterly performance tests as required by the air quality permit.

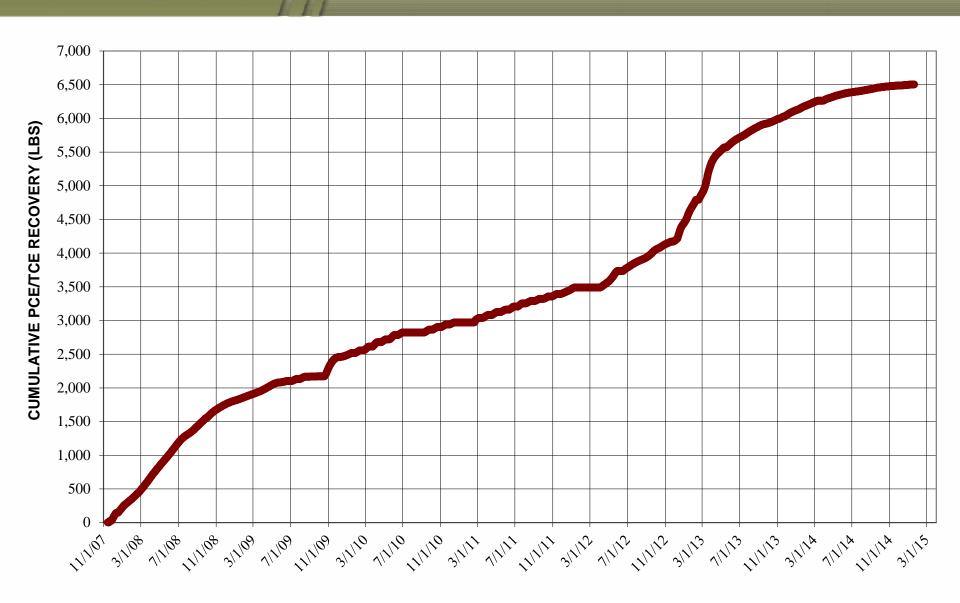


Operation & Maintenance Statistics for the (SVE) system

Quarter	Percent Operational	PCE/TCE Removed (Lbs.)
1st Qtr 2014	79%	144.6
2 nd Qtr 2014	99.9%	125.7
3 rd Qtr 2014	100%	73.0
4 th Qtr 2014	100%	37.7



PCE Influent Concentration Changes With Time





Future Planned Work

- Complete the FS for the Site
- Continue O&M activities for both SVE and GW systems.
- Monitor water levels monthly and collect groundwater samples semi annually.



Contacts

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