

Motorola 52<sup>nd</sup> St. Superfund Site  
Overview  
May 2010

# History

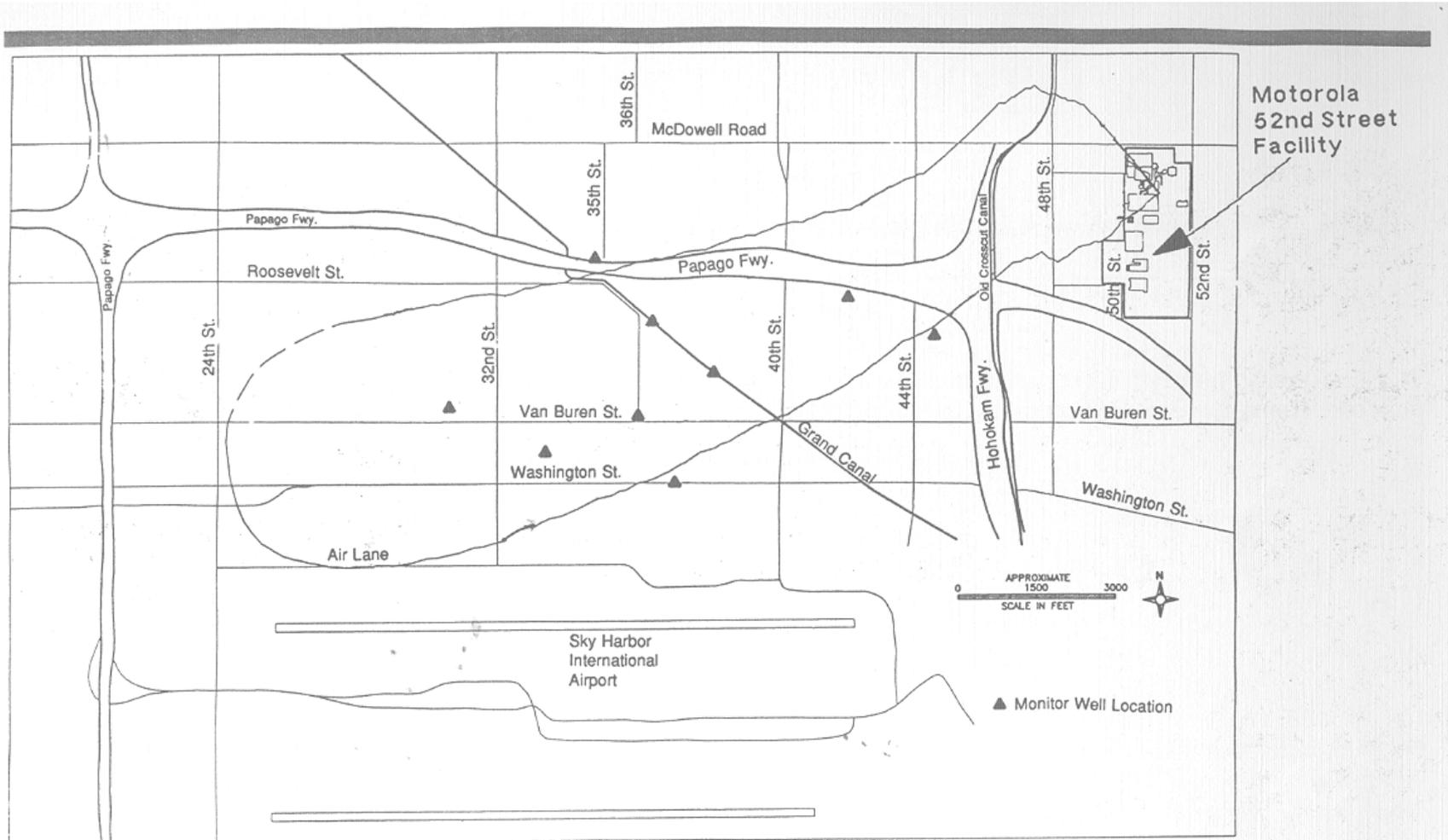


Figure 1: Site Location and Estimated Groundwater Contamination Plume

1991 Plume map!

# Interim remedies: Treatment plants

OU1 pump and  
treat plant: 1992

OU2 pump and  
treat plant: 2001

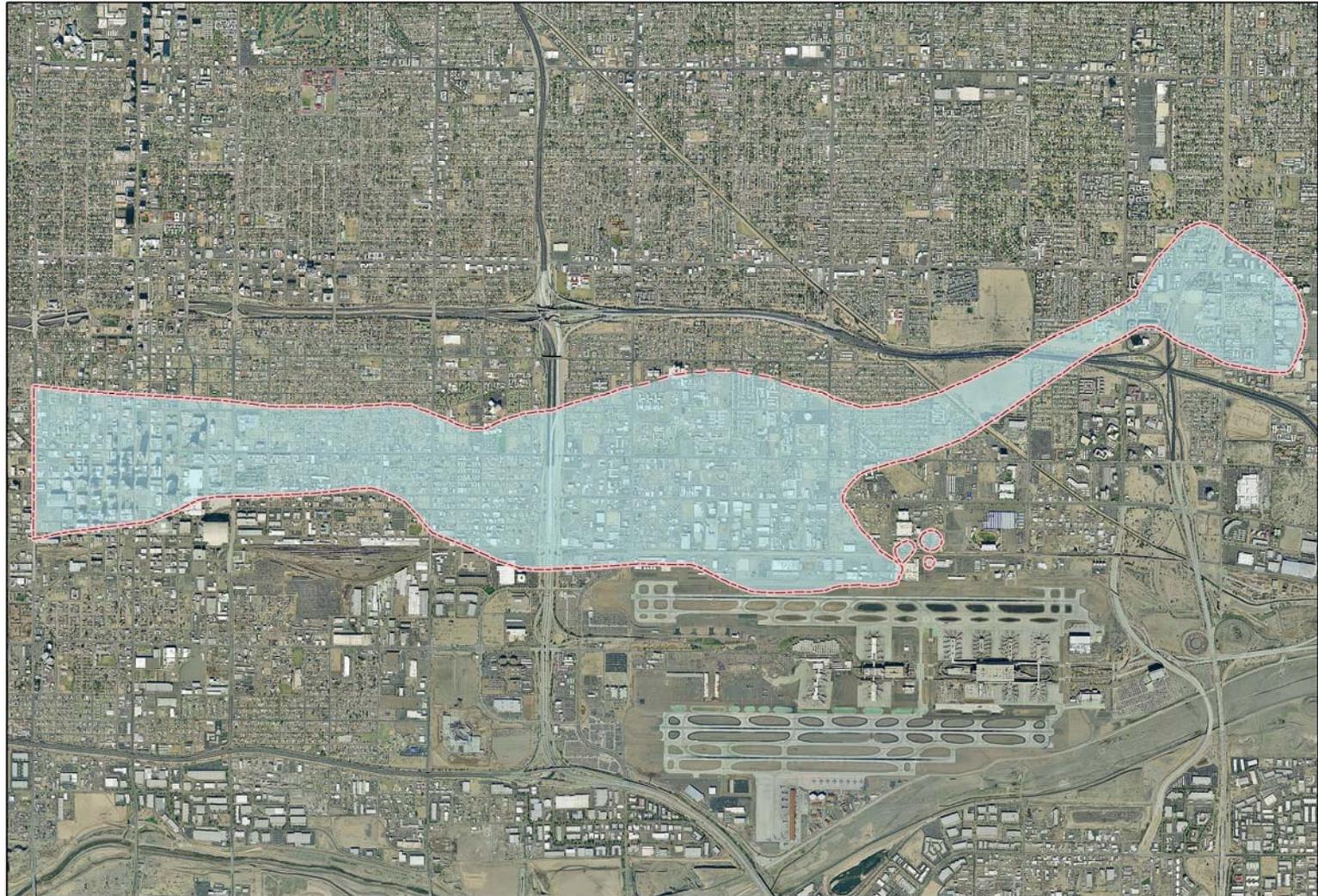


Both treatment plants send the treated water to beneficial use, such as manufacturing processes or irrigation



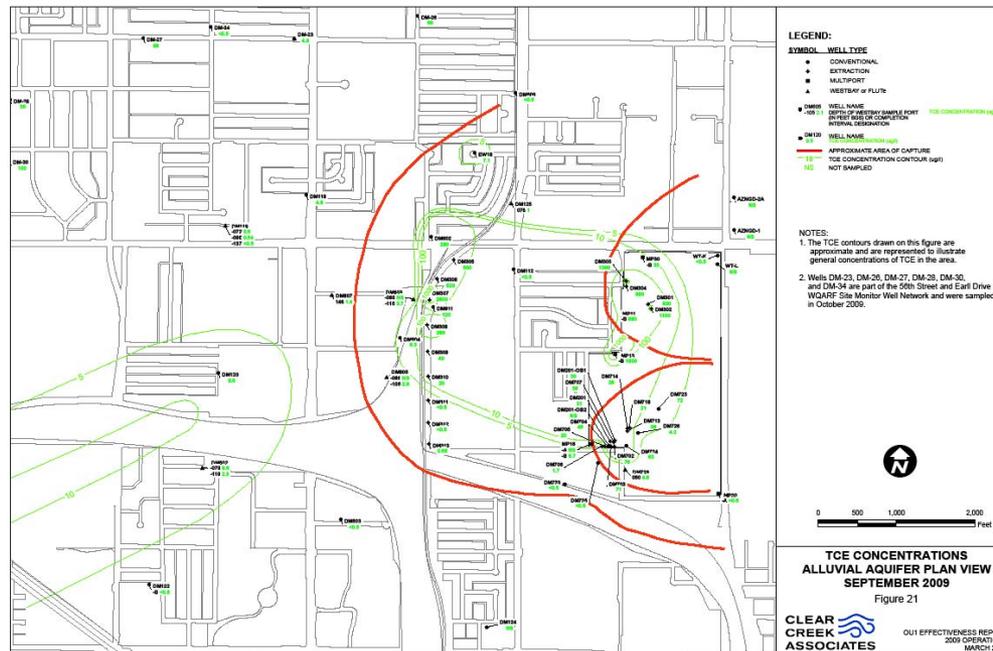
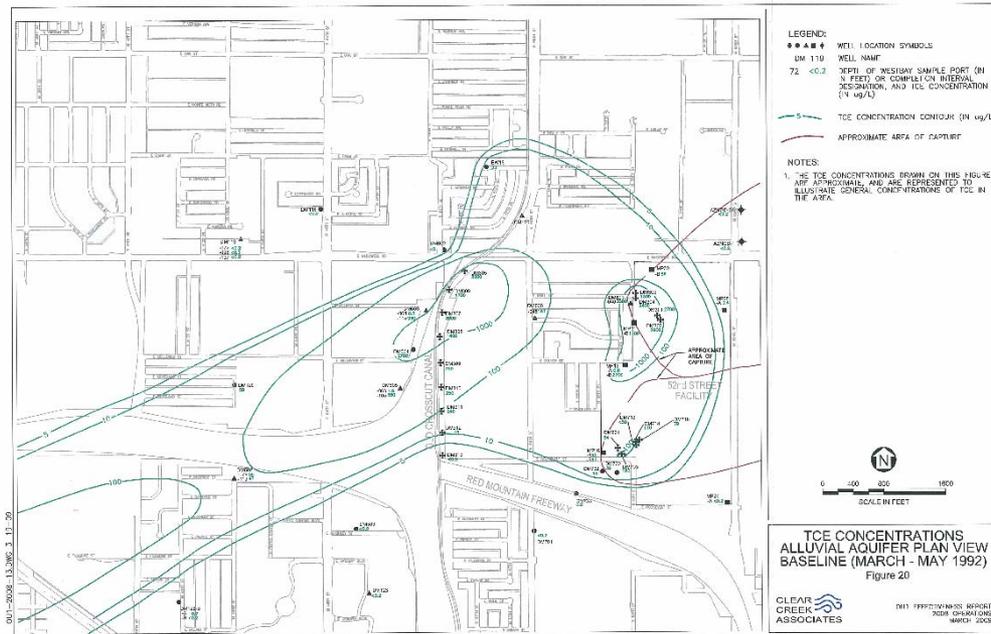
# Progress of treatment over time

## Draft updated plume map

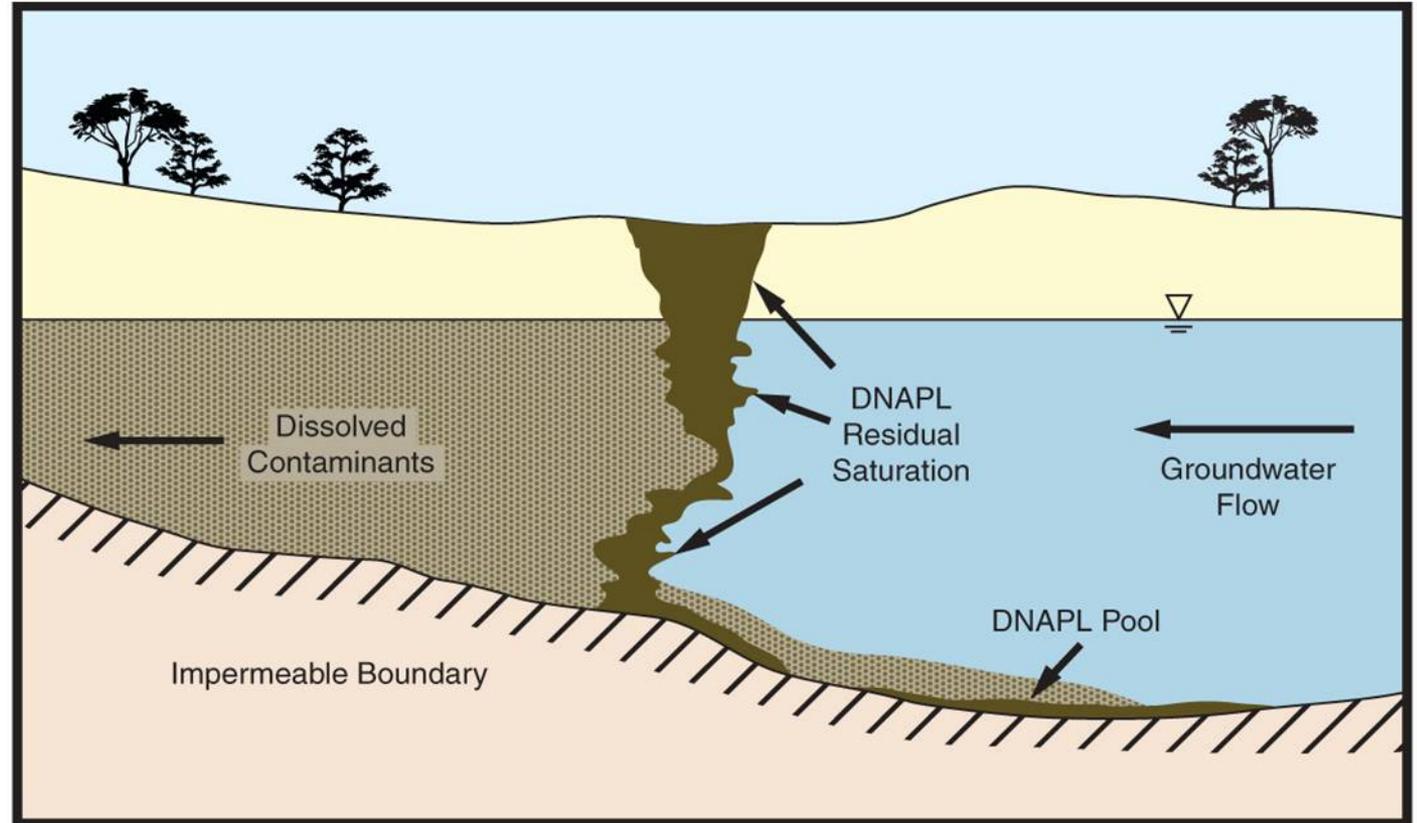
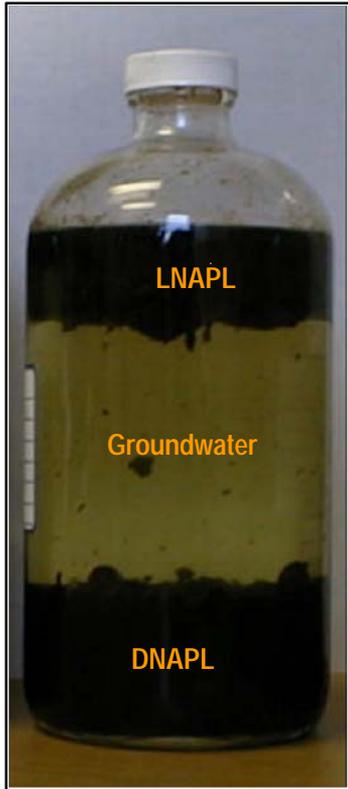




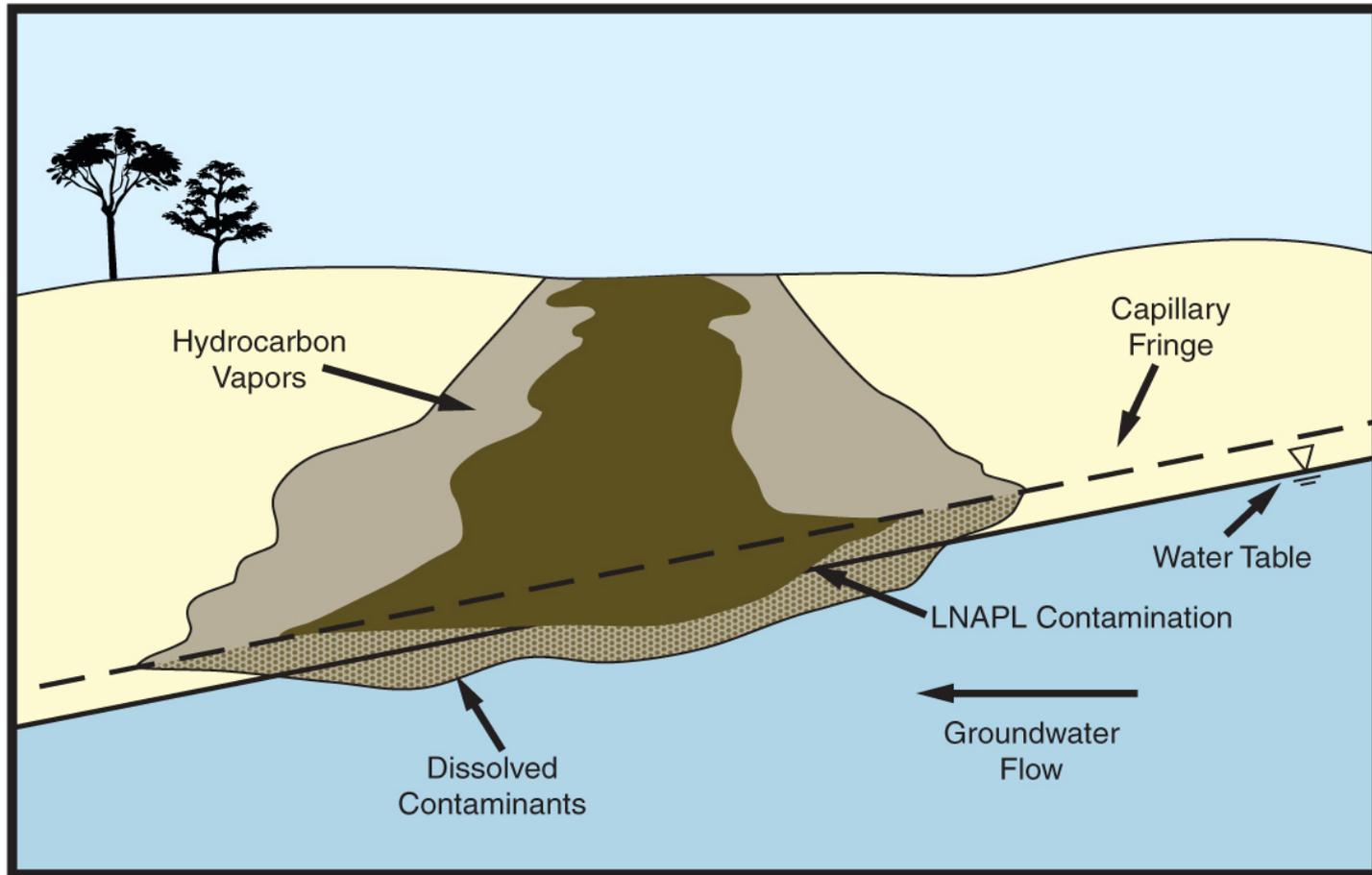
# OU1 concentrations 1992 vs. 2009



# DNAPL in Bedrock: the main challenge

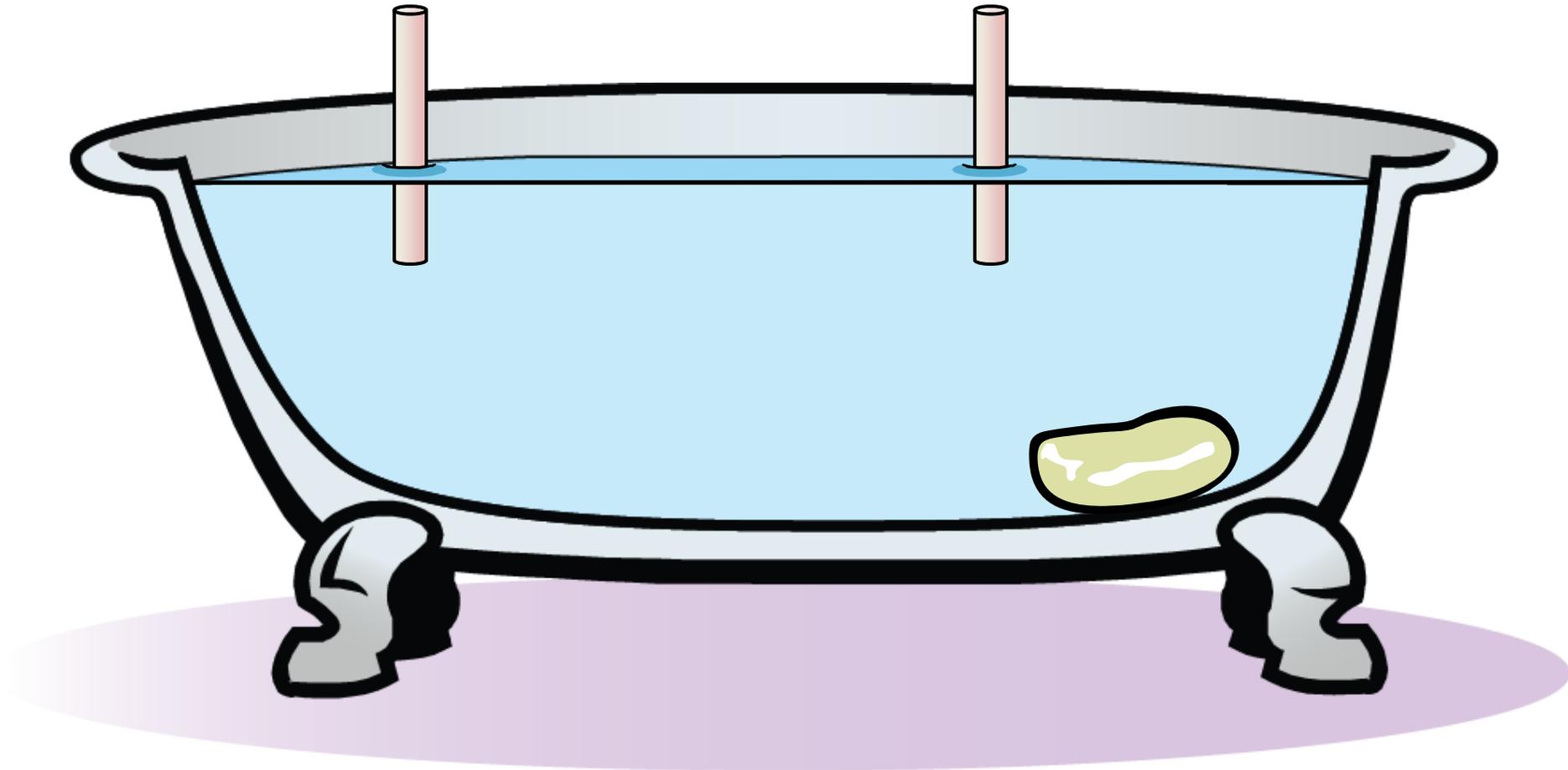


# LNAPL





# DNAPL in bedrock analogy







# FAQs

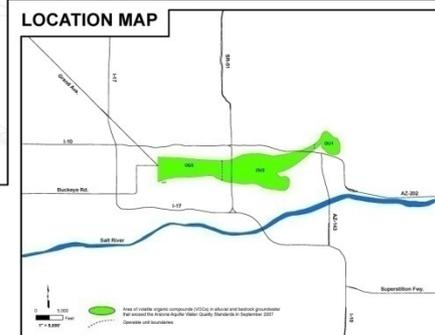
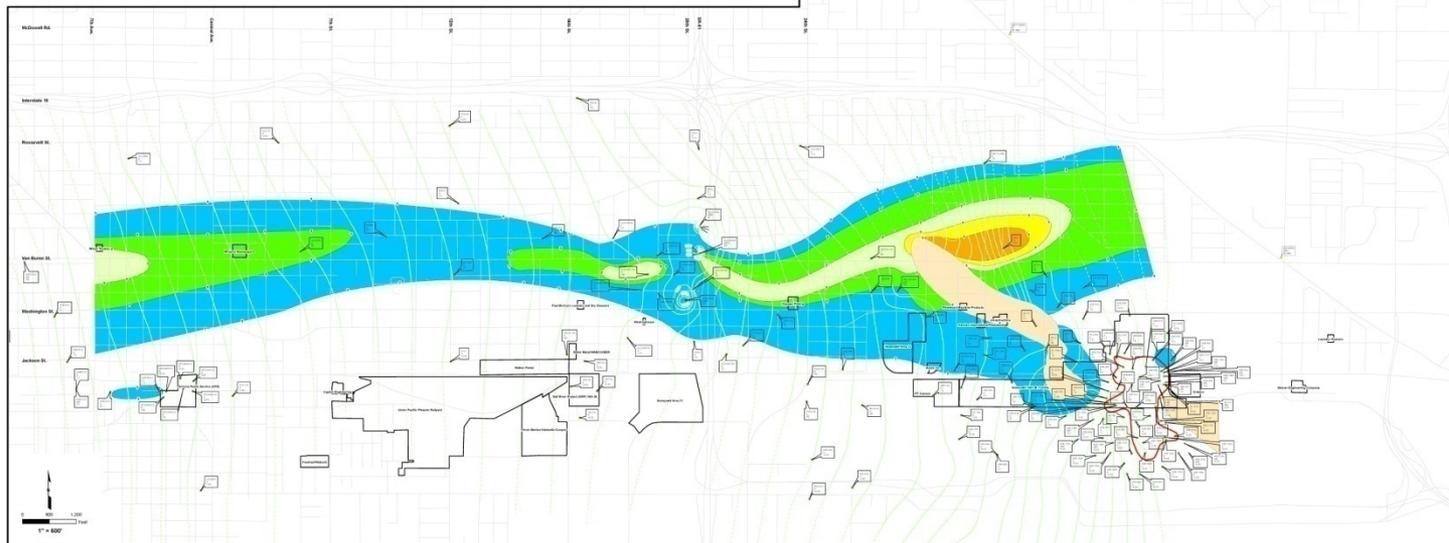
1. Why has the site been around for almost 30 years and is still not cleaned up?
2. Is it safe to eat vegetables or fruits grown in our gardens?
3. Is anyone drinking the water?
4. When will the site be cleaned up?

# Next meetings

- Technical Assistance Grant: Health workshop with Jennifer Botsford, ADHS: Tuesday June 1, 2010, 6-8pm, Gateway Community College MA 1100
- First Community Informational Group meeting: Wednesday June 16, Burton Barr library, 4<sup>th</sup> Floor 11:30am-2pm



# MOTOROLA 52ND STREET SUPERFUND SITE PHOENIX, ARIZONA SEPTEMBER 2008 TCE CONCENTRATION CONTOURS HYDROSTRATIGRAPHIC SUBUNIT A



### LEGEND

**GROUNDWATER WELLS**

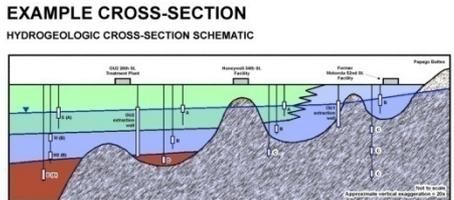
- AW-100: 100' fully cased with screen, AW and TCE concentrations
- AW-100: 100' fully cased with screen, AW and TCE concentrations
- AW-100: 100' fully cased with screen, AW and TCE concentrations
- AW-100: 100' fully cased with screen, AW and TCE concentrations
- AW-100: 100' fully cased with screen, AW and TCE concentrations

**OTHER FEATURES**

- Wellhead
- Well casing
- Wellhead
- Well casing
- Wellhead
- Well casing

**TCE CONCENTRATIONS  
(\*T = GROUNDWATER DATA GAUG EXIT)**

- 5-100 ug/L
- 100-1000 ug/L
- 1000-10000 ug/L
- 10000-100000 ug/L
- 100000-1000000 ug/L



### EXPLANATION OF HYDROSTRATIGRAPHIC UNITS (HSUs)

**A - Salt River Gravel Deposits:** Rounded gravel, cobbles, and boulders in a sandy matrix with minor silt and clay.

**B - Upper Basin Fill Deposits:** Interbedded fine and coarse grained unconsolidated sediments.

- Fine grained beds are typically sandy silt with clay.
- Coarse grained beds are sand with rounded pebbles, gravel, cobbles, and lesser amounts of silt and clay.

**D - Lower Basin Fill Deposits:** Predominantly fine-grained unconsolidated sediments with coarse grained interbeds.

- Fine grained beds are typically sandy silt with clay.
- Coarse grained beds are sand with rounded pebbles and gravel, with lesser amounts of cobbles, silt, and clay.

**C - Bedrock:** Fractured, tilted, and faulted mid-Tertiary sedimentary and volcanic rocks and pre-Cambrian metamorphic and igneous rocks.

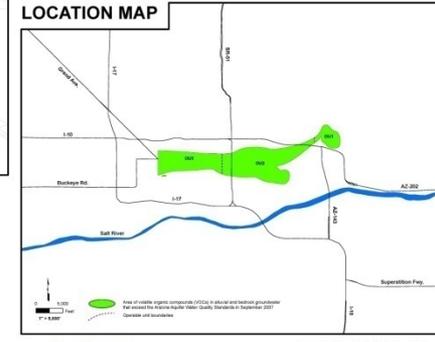
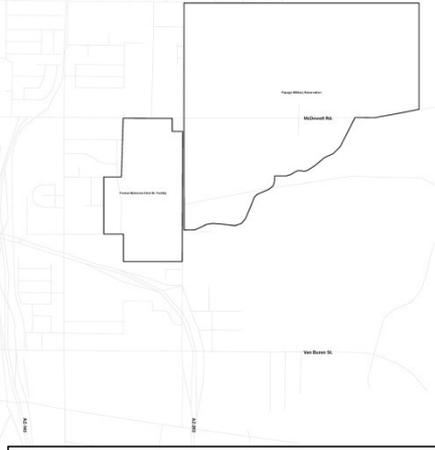
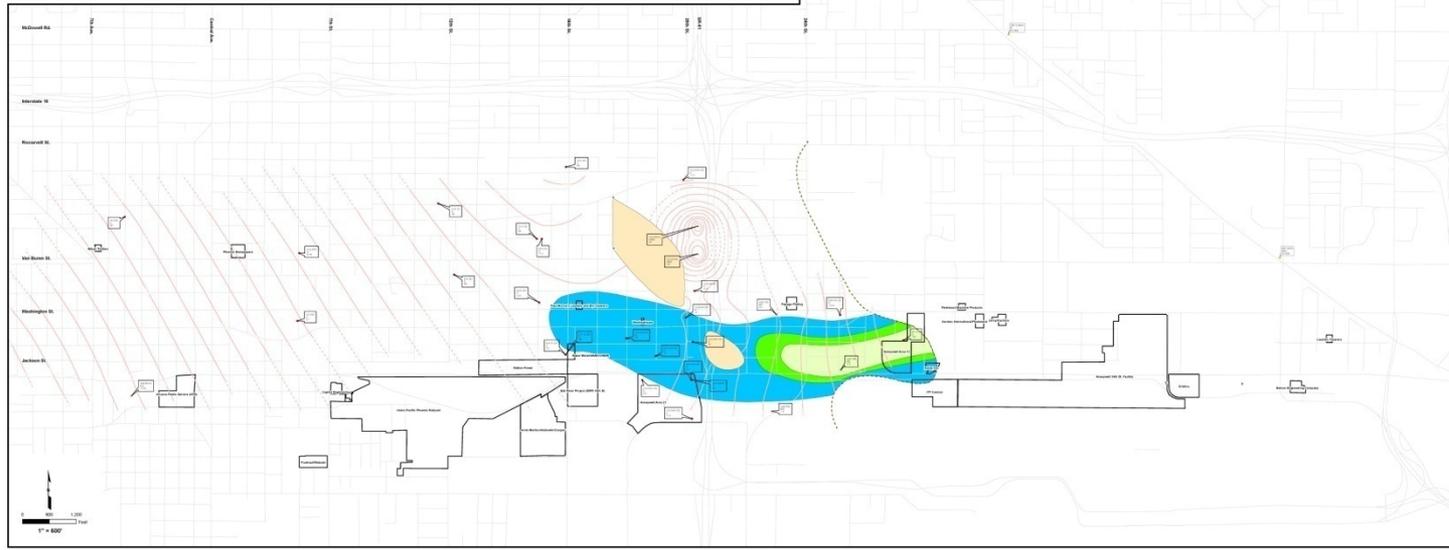
### NOTES

- All concentrations in ug/L (micrograms per liter)
- Samples collected during September 2008 site-wide sampling event. Concentration data were provided by the sampling party. Analytical data quality are reported as described in the reporting party's supplemental data verification/contamination has been provided by EEC.
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- For wells AW-100 located "AW", the query indicates that the presence of another contact with the 100' has not been indicated by EEC.
- For information regarding the groundwater elevation contours, refer to the map titled "September 2008 Groundwater Elevation Contours, Hydrostratigraphic Subunit A".
- The concentration plume extends to the west into the West Van Buren WQCAF. Please consult the West Van Buren WQCAF site-specific data for more information on the plume.
- All data were collected from the West Van Buren WQCAF site. Please see the groundwater map prepared for the West Van Buren WQCAF site.
- \*T = Operator Log





# MOTOROLA 52ND STREET SUPERFUND SITE PHOENIX, ARIZONA SEPTEMBER 2008 TCE CONCENTRATION CONTOURS HYDROSTRATIGRAPHIC SUBUNIT D



### LEGEND

**GROUNDWATER WELLS**

- 10" PVC fully screened with screen
- 4" PVC fully screened with screen
- 2" PVC fully screened with screen
- 1" PVC fully screened with screen
- 1/2" PVC fully screened with screen
- 1/4" PVC fully screened with screen
- 1/8" PVC fully screened with screen
- 1/16" PVC fully screened with screen
- 1/32" PVC fully screened with screen
- 1/64" PVC fully screened with screen
- 1/128" PVC fully screened with screen
- 1/256" PVC fully screened with screen
- 1/512" PVC fully screened with screen
- 1/1024" PVC fully screened with screen
- 1/2048" PVC fully screened with screen
- 1/4096" PVC fully screened with screen
- 1/8192" PVC fully screened with screen
- 1/16384" PVC fully screened with screen
- 1/32768" PVC fully screened with screen
- 1/65536" PVC fully screened with screen
- 1/131072" PVC fully screened with screen
- 1/262144" PVC fully screened with screen
- 1/524288" PVC fully screened with screen
- 1/1048576" PVC fully screened with screen
- 1/2097152" PVC fully screened with screen
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- 1/74106935232267443648355555563435968" PVC fully screened with screen
- 1/148213874645348872896711111125479936" PVC fully screened with screen
- 1/29642774928069774719374444450959872" PVC fully screened with screen
- 1/5928554985613954943874888890111919744" PVC fully screened with screen
- 1/1185710971222790988776977777213939488" PVC fully screened with screen
- 1/23714219424455819775555555427878976" PVC fully screened with screen
- 1/47428438848911639551111111855757792" PVC fully screened with screen
- 1/9485687769782327910222223711515584" PVC fully screened with screen
- 1/18971375395766558204444447423111168" PVC fully screened with screen
- 1/37942750791533116408888894846222336" PVC fully screened with screen
- 1/75885501583066232817777779692444672" PVC fully screened with screen
- 1/1517710316661324556355555938488944" PVC fully screened with screen
- 1/3035420633322649112711111187697888" PVC fully screened with screen
- 1/6070841266645298225422223541757776" PVC fully screened with screen
- 1/12141682532890596408844447083515552" PVC fully screened with screen
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- 1/7770677010499814968888885334755584" PVC fully screened with screen
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- 1/1243308321679970302222228557608448" PVC fully screened with screen
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- 1/497323328671988120088888142227444384" PVC fully screened with screen
- 1/9946466573439764017777772844488768" PVC fully screened with screen
- 1/1989293314687552803555555688897536" PVC fully screened with screen
- 1/39785866293751056071111111377795104" PVC fully screened with screen
- 1/7957173258750211214222222755590208" PVC fully screened with screen
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