

CHRONOLOGY OF INTEL REPORTS

Aloha Campus

8/82 thru Present

updated 1/19/96

8/11/82 FSI, Shallow Borings & Deep Test Well Installation, Phase I, Solvent Spill Study

SOW-25 shallow SBs & 5 shallow Mws

CONCLUSIONS-

- 1) soil is impacted by solvents
- 2) xylene contamination is relatively contained near water table
- 3) TCA contamination has greater distribution than xylene

10/6/82 (Revised from 9/22/82) FSI, Addendum Report, Solvent Spill Study

CONCLUSIONS-

- 1) AW-2, AW4, & AW-5= ND
- 2) AW-1- 240 ppb TCA
- 3) AW-3= 360ppb TCA

6/14/83 FSI, Results of MW Sampling & Analysis, Tasks A & B

SOW- sample 5 MWs

CONCLUSIONS-

- 1) AW-1, AW-, & AW-3= low levels of solvents
- 2) AW-4= ND
- 3) AW-6= higher levels of solvents

3/29/84 FSI, Results of MW Sampling & Analysis, Task A

SOW- sample 6 MWs

CONCLUSIONS-

- 1) AW-4 & AW-5=ND
- 2) AW-2= ND (J)
- 3) AW-1 & W-3= low levels of solvents
- 4) AW-6= higher levels of solvents

5/28/93 EMCON, GW Sampling, Solvent Release Assessment

SOW- sample 10 MWs in 2/94 as 1st round of scheduled quarterly sampling

CONCLUSIONS- see GW summary sheets

7/26/93 EMCON, GW Sampling, Solvent Release Assessment

SOW - sample 8 MWs as 2nd round of scheduled quarterly sampling

CONCLUSIONS- see GW summary sheets

2/10/94 EMCON, Monthly Progress Report No. 2- FAB 5 SOIL & GW SAMPLING

SOW- 9 HA SBs & 2 TMWs in vicinity of Fab 5

CONCLUSIONS-

- 1) no VOCs in shallow soil near Fab 5
- 2) very low or ND VOCs in GW near Fab 5

8/31/94 EMCON, Phase I RI Report

PURPOSE- Characterize GW & and soil quality associated with release from former UST VOCs

SOW-

- Task 1- Verify GW flow direction
- Task 2- Evaluate source area GW quality
- Task 3- Evaluate downgradient GW quality
- Task 4- Submit Phase I report

CONCLUSIONS

- 1) Average hydraulic conductivity (K) of Will Slit is 1×10^{-4} cm/sec.
- 2) East flow of GW has not been modified by construction of D-1 Bldg
- 3) Testing of 158 GW samples & 168 soil samples resulted in the detection of the following VOCs:

1,1-DCA	PCE
1,1-DCE	1,1,1-TCA
1,2-DCE	toluene
TCE	vinyl chloride

- 151 GW samples field GC screened
- 28 GW samples analyzed by GC/MS at fixed lab
- 156 Soil samples field GC screened

JMA's SUMMARY/CONCLUSIONS

1.0 Total VOC distribution in Soil

1.1 Upper Will Slit

- Max VOC= 189ppb at TB-7 near eastern property line.
- Bulk of contamination located in vicinity of suspected source area
- Contaminant migration to SE

1.2 Middle Will Slit

- Max VOC= 601ppb at TB-12 near suspected source area
- Bulk of contamination located in vicinity of suspected source area
- Contaminant migration to SE & most extensive contaminant migration horizon

1.3 Lower Will Slit

- Max VOC= 268ppb at TB-25 SE of suspected source
- Bulk of contamination located SE of suspected source area
- Contaminant migration to SE

2) Total VOC distribution in GW

1.1 Upper Will Slit

- Max VOC= 694ppb at TB-7 near eastern property line, paucity of GW data
- Insufficient data to estimate distribution of contamination
- Contaminant migration to SE

1.2 Middle Will Slit

- Max VOC= 1495ppb at TB-25 SE of suspected source area
- Bulk of contamination evenly distributed thruout at & downgradient from suspected source area
- Contaminant migration to SE & most extensive contaminant migration horizon

1.3 Lower Will Slit

- Max VOC= 1441ppb at TB-9 SE of suspected source
- Bulk of contamination located near or immediately downgradient from suspected source area
- Contaminant migration to SE

12/6/95 EMCON, Phase II RI Report

PURPOSE- Further characterize GW & and soil quality associated with release from former UST VOCs
SOW-

Task 1- Evaluate Potential Human-Health Risks to On-Site Workers Associated with Shallow VOCs at TB-3 & TB-17

Task 2- Estimate Subsurface VOC Mass

Task 3- Evaluate On-Site GW Quality in Area of TB-3, TB-9, & TB-25

Task 4- Evaluate the Possible Off-Site Extent of GW VOCs

CONCLUSIONS

Task 1- No unacceptable carcin or non-carcin hazards are posed to hypothetical trench workers

Task 2- Total mass of on-site impacted GW & soil (?) is between 3 & 97 lbs

Task 3- VOC impacted GW extends down as far as 65' bgs in the upper Valley Fill. The GW flow direction of the Valley Fill Unit is to the NW, transporting deep GW back into the site's interior

Task 4- 61 GW samples & 75 soil samples collected from 7 off-site Sbs in the Will Slt show that extensive VOC-impacted GW does not extend offsite to the east

RECOMMENDATIONS

1) Phase III should focus on characterizing the vertical & horizontal extent impacted Valley Fill GW & soil. Phase III should also clarify the relation between SE GW flow direction in the Will Slt & NW GW flow direction in the Valley Fill.

2) Further characterization of the Will Slt is not needed. GW contamination within the Will Slt will be hydraulically contained by 4 recently installed, on-site IRAM GW extraction wells.

JMA's SUMMARY/CONCLUSIONS