Previous

**MC EI Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

**Project Num. 920242**
**wbs 08001001**

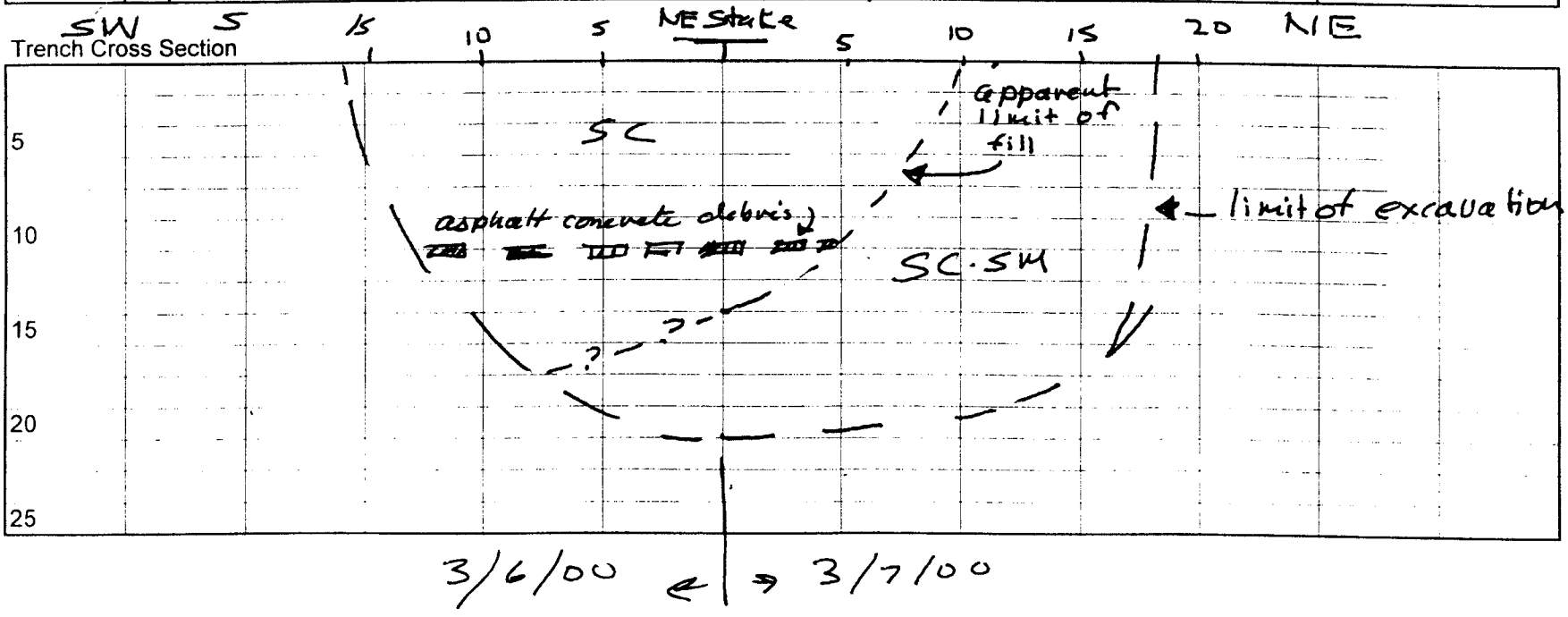
Trench Number 8E

Date of Excavation 3/6/00 and 3/7/00

**General Description:** N/D SAMPLE COLLECTED
Initial trench toward SE; however since purpose was to find boundary, stopped (3/6/00). Trenched toward NE (3-8-00) found boundary.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-18' SC | sandy CLAY (SC): Dark brown 10YR3/3; 60 to 70% fine to med. sand; 30 to 40% Silt and clay. | | |
| 0-18' SC SM | clayey silty SAND (SC SM): Yellowish brown 10YR5/4; 80-90% fine to med sand; 10 to 20% Silt & clay. | | |
| | NOTE ASPHALT CONCRETE at 10 to 12' Depth is 2"-3" thick and looks like wood or maybe a cover. | | |

Trench Cross Section



**MCAS El Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

**Project Number 920242**
**wbs 08001001**

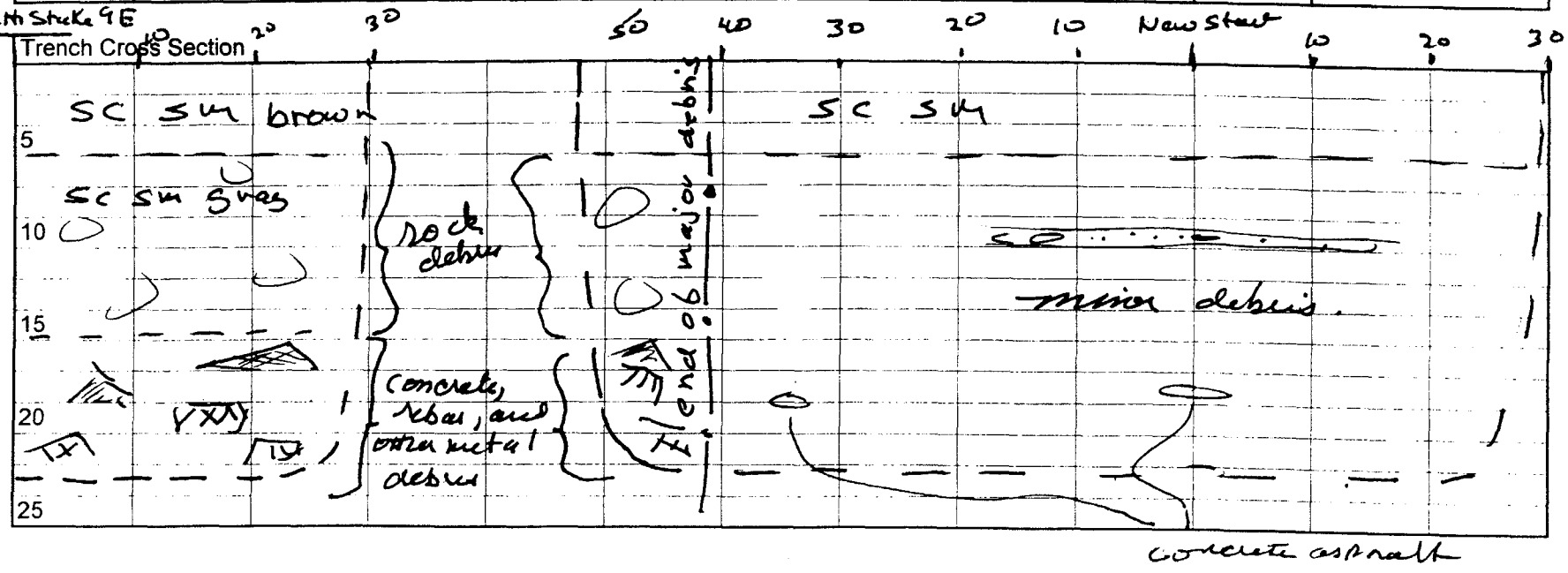
Trench Number 9E & 9E (SO) Date of Excavation 3-10-00

**General Description:** NOTE DRAWING to smaller horizontal scale. NO SAMPLE 9E on south part of original trench ℄. 9E (SO) extended south of original trench. Note drawing is close to scale.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-7' SC & SM | interlayered: Clayey SAND (SC): dark brown 10YR 3/2: micaceous, moist<br>silty SAND (SM): brown 10YR 4/2; 80% fine SAND, 20% Silt. DRY. | | |
| 7 to TD | Mixture of Silty SAND (SM) and clayey SAND (SC): olive gray 5Y 4/2; 50-80% Sand; 20-50% Silt & Clay micaceous<br>Rock debris shallow, concrete & metal debris deep. | | |

South Stake 9E

Trench Cross Section



**MC[illegible] El Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

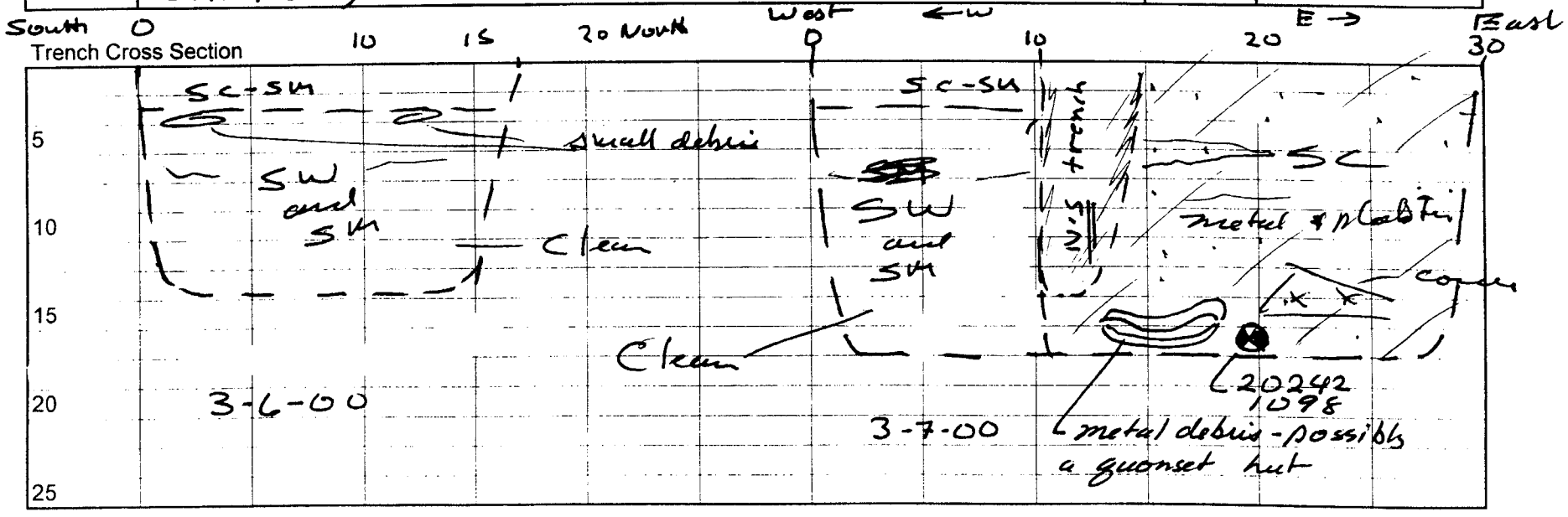
**Project Num[illegible] 20242**
**wbs 08001001**

Trench Number H1 Date of Excavation 3-6-00 and 3-7-00

**General Description:** 2 trenches: one north south (3-6-00) & one east west (3-7-00) two trenches intersect at North end. East west trench shows fill boundary.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-2.5 SC-SM | Clayey SAND (SC) SM: dark grayish brown 10YR 4/2; 80% sand 20% silt & clay; small metal fragment — shows contact | | |
| 2.5/2' SM | silty SAND (SM): brown 10YR 5/3 90% fine tomed sand 10% silt. DRY | | |
| 2.5-6 | gravelly SAND (SW): gray brown 10YR 6/2 | | |
| 2.5-16 | clayey SAND (SC) brown 10YR 4/2; 50% fine sand, 50% silt & clay mixed with debris | 1098 | |

Trench Cross Section

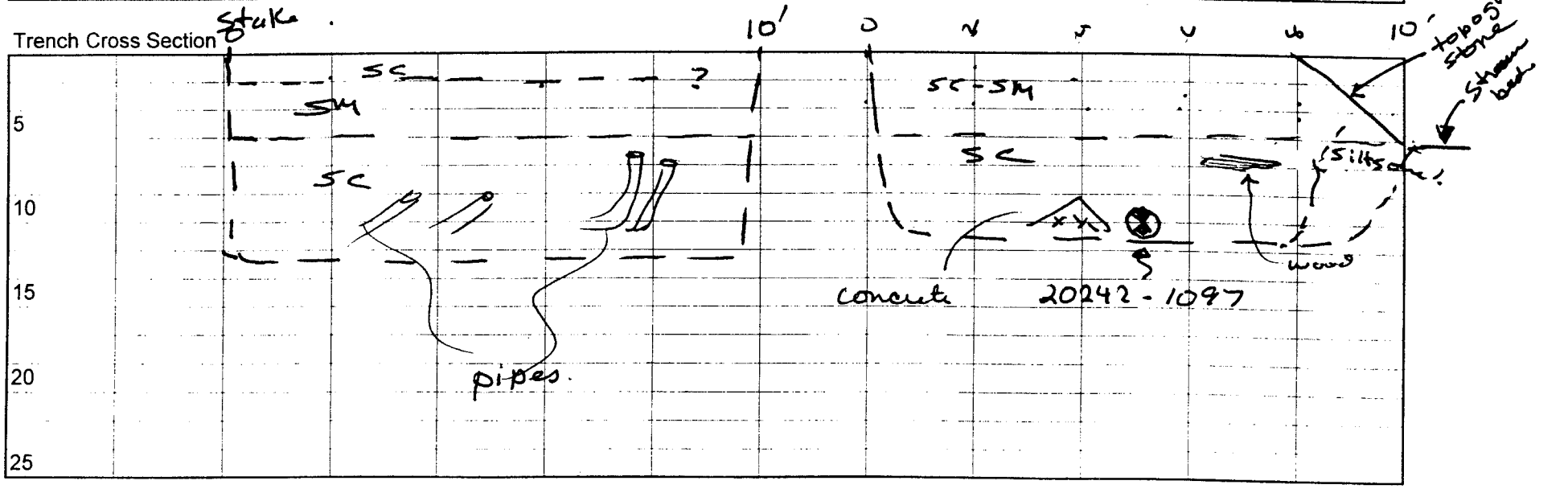


Trench Number H1-2 a+b  Date of Excavation 3-7-00

**General Description:** Two trenches extend from stake to slope for wash.

| Stratigraphic Description: | | Sample: | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-5 | Clayey SAND (SC): Brown | | |
| SC-SM | Silty SAND (SM): brown 10YR 4/2; 80% fine sand 20% silt + clay. moist clean. | | |
| 5-7 | Siltstone? yellowish brown 2.5Y 6/3 - ? | | |
| 7-10 | silty clayey SAND (SC ? SM): brown 10YR 4/2, similar to overlying units - with Debris. Debris = concrete, wood, metal, stainless steel | 20242/1097 | |

Trench Cross Section



**MCAS El Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

**Project Number 920242**
**wbs 08001001**

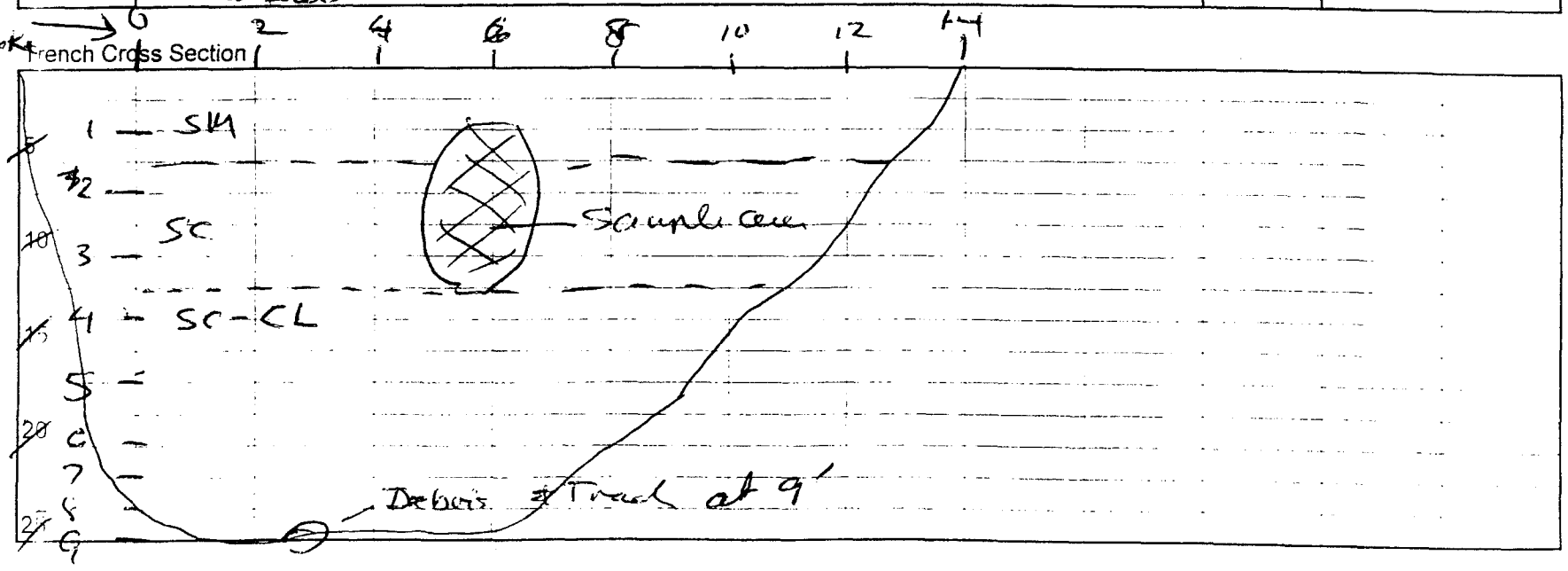
Trench Number ~~H1~~ ~~H-1~~ H3 GJB  Date of Excavation 3-7-00

**General Description:** Pot Hole to collect conductive soil.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| SM | Silty SAND (SM): brn 10YR 4/3: 80% fine-med sand 10% gravel 20% silt, moist | | |
| SC | Clayey SAND / sandy Clay: dk brn 10YR 3/3 (SC) | 20242 / 1095 | Priority Pols <VOCs & SVOCs> |
| SC-CL | Sandy CLAY (SC-CL) - grayish brown 2.5Y 5/2: varies from 50% sand + 50% clay to predom. clay some trash at upper contact - to clay. - stiff moist black CL. Concrete debris and Bac | | gradual |

N Stake

Trench Cross Section



MC El Toro, Aerial Photograph Anomaly Area 3
Trench Excavation Log

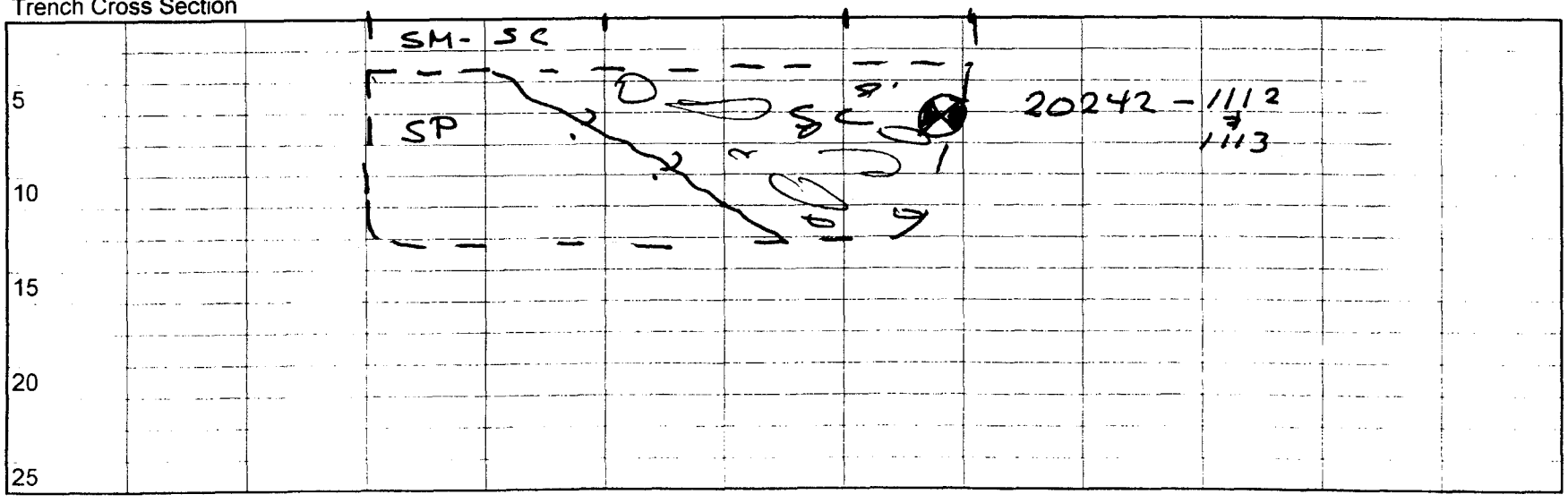
Project Nun. 920242
wbs 08001001

Trench Number H4 Date of Excavation 3-9-00

**General Description:** Pot hole extended ~~west~~ east to find trench boundary.

| Stratigraphic Description: | | Sample: | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-2' SM-SC | silty clayey SAND (SM-SC): dark brown 10YR 3/3; 80% fine sand 20% silt with trace of clay | | |
| 2-10' | SAND (SP): 10YR 5/3; 90% fine to med. SAND, 10% silt and gravel. DRY loose. | | |
| 2-10' | clayey SAND (SC): yell. brown 10YR 5/6; 60-70% SAND; 30-40% Silt & Clay. Looks like reworked Niguel — contains debris - concrete metal - milk container, baby milk bars. | | |

Trench Cross Section



**MC[illegible] El Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

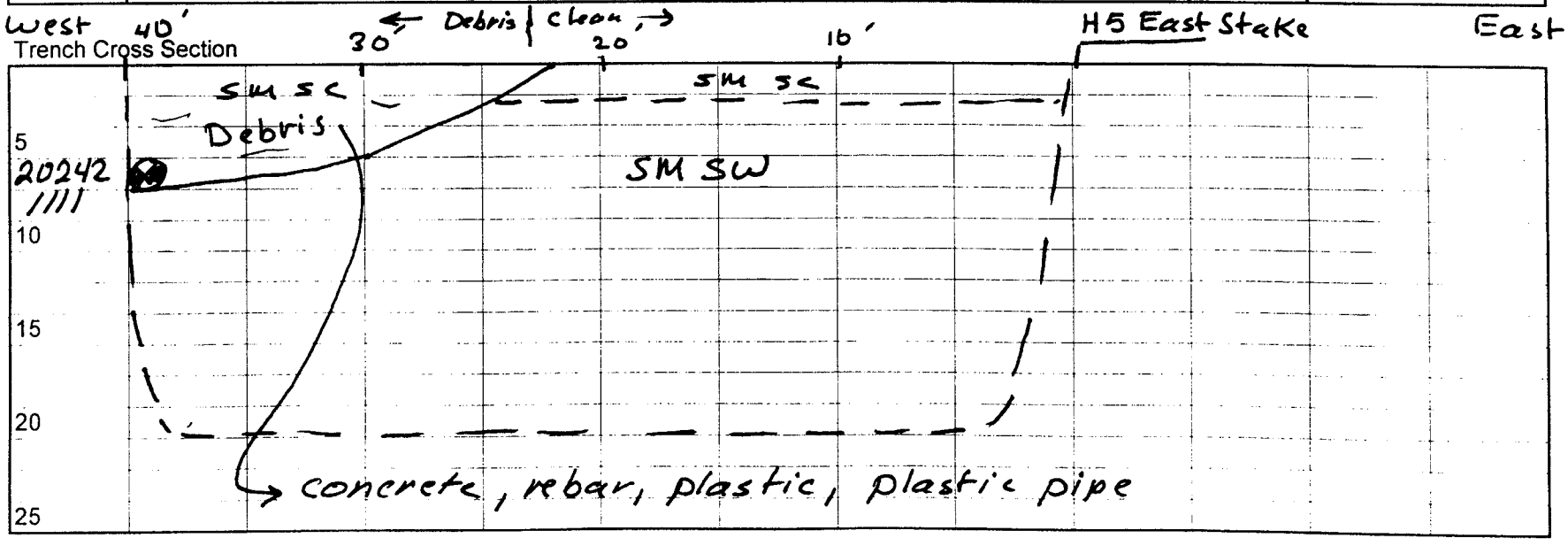
**Project Num[illegible] 20242**
**wbs 08001001**

Trench Number H5 Date of Excavation 3/1/00

**General Description:** Trench to find edge along Agua Chinon. Excavated from east stake toward the west.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-2 SM SC | very silty SAND trace of clay (SM SC): brown 10YR 3/3 60% SAND, 40% silt with trace of clay. On west end extends to 7 or 8 feet deep and contains debris (concrete, plastic, etc). | 20242 1111 | Priority Pollutants |
| 2-18 SM SW | silty SAND (SM SW): brown 10YR 4/3; 90% fine to coarse sand; 10% silt some gravel & caliche nodules, appears undisturbed. | | |

Trench Cross Section



**MCAS El Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

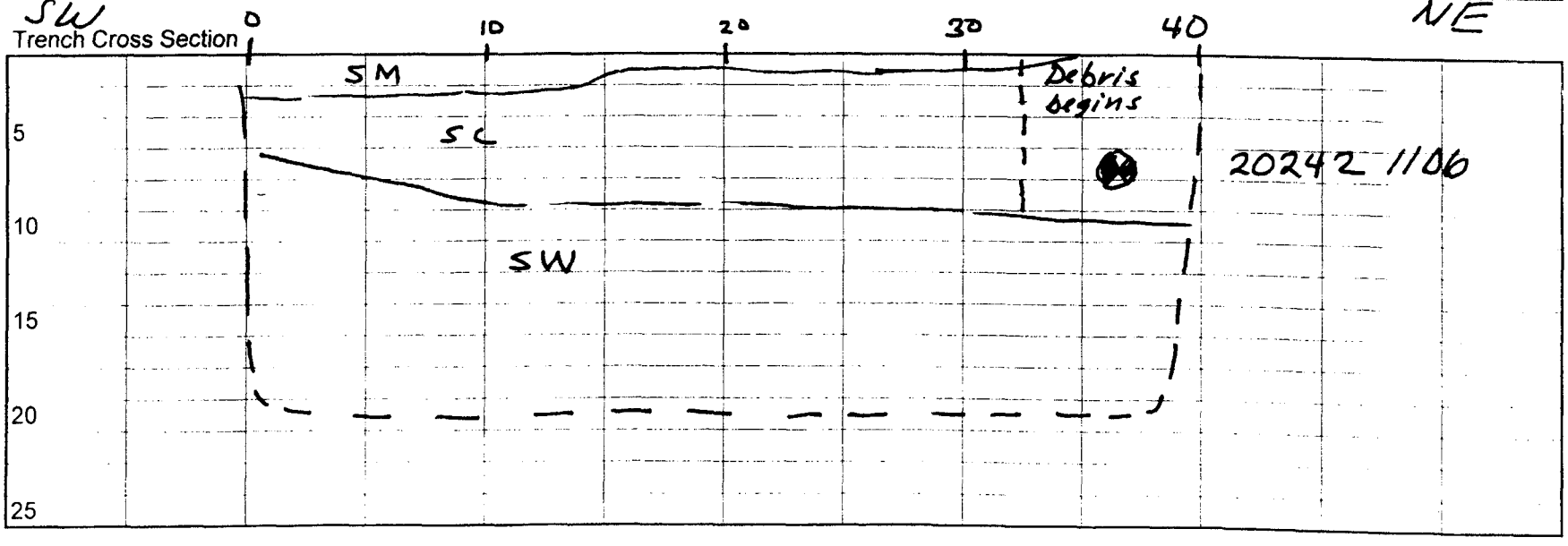
**Project Number 920242**
**wbs 08001001**

Trench Number H6 Date of Excavation 3-8-00

**General Description:**

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| 0-2 SM | Silty SAND (SM): 10YR 6/3; 90% med. sand 10% silt. | | |
| SC (2-8') | Clayey SAND (SC): very dark brown 10YR3/2; 60-70% fine sand 30-40% silt and clay. Contains debris in NE end of trench. — Sharp Contact — | 20242 1106 | Priority Pollutants |
| SW (8'+) | gravelly SAND (SW): 10YR 5/4; 80-90% med-coarse sand, 10% gravel, 10% silt. | | |

Trench Cross Section



**MCAS El( ), Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

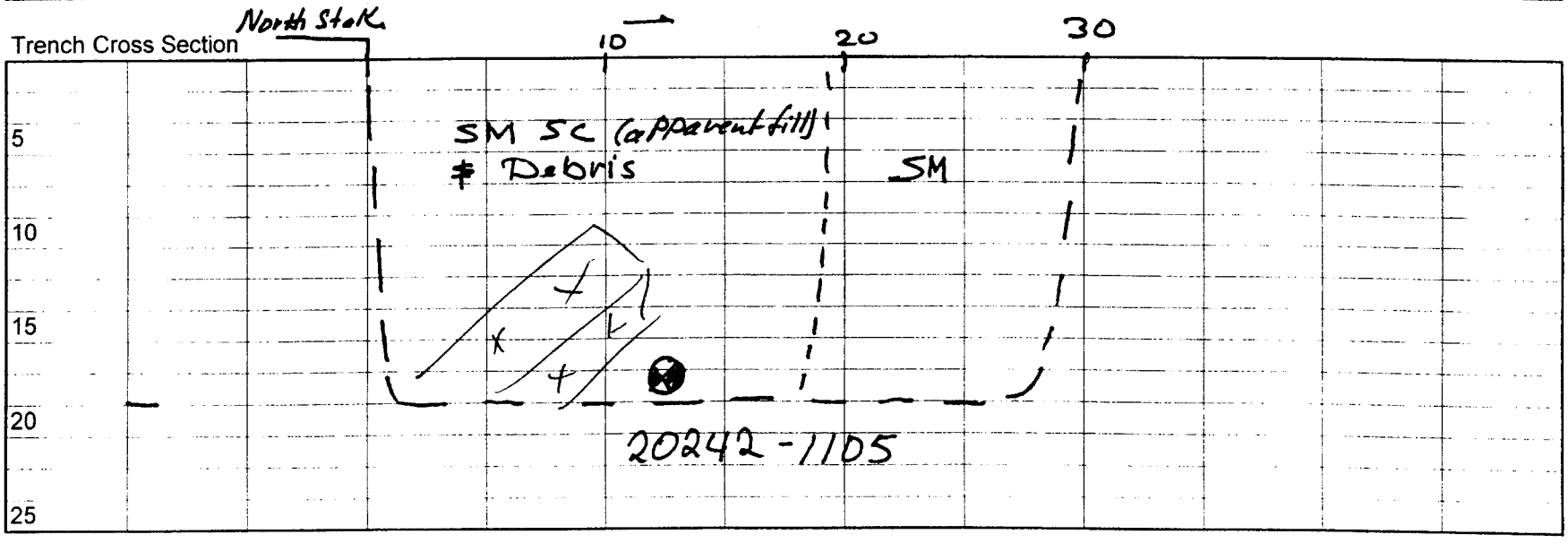
**Project Number 92(**
**wbs 08001001**

Trench Number H7 Date of Excavation 3-8-00

**General Description:**

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| SM-SC | Silty Clayey SAND (SM SC): Brown 10YR 4/2; with debris | 20242 1105 | Priority Pollutants |
| SM | Silty SAND (SM): 10YR 5/3; 90% fine to med. sand; 10% silt trace clay and gravel; loose. Dry. | | |

Trench Cross Section



**MCAS Toro, Aerial Photograph Anomaly Area 3**
**Trench Excavation Log**

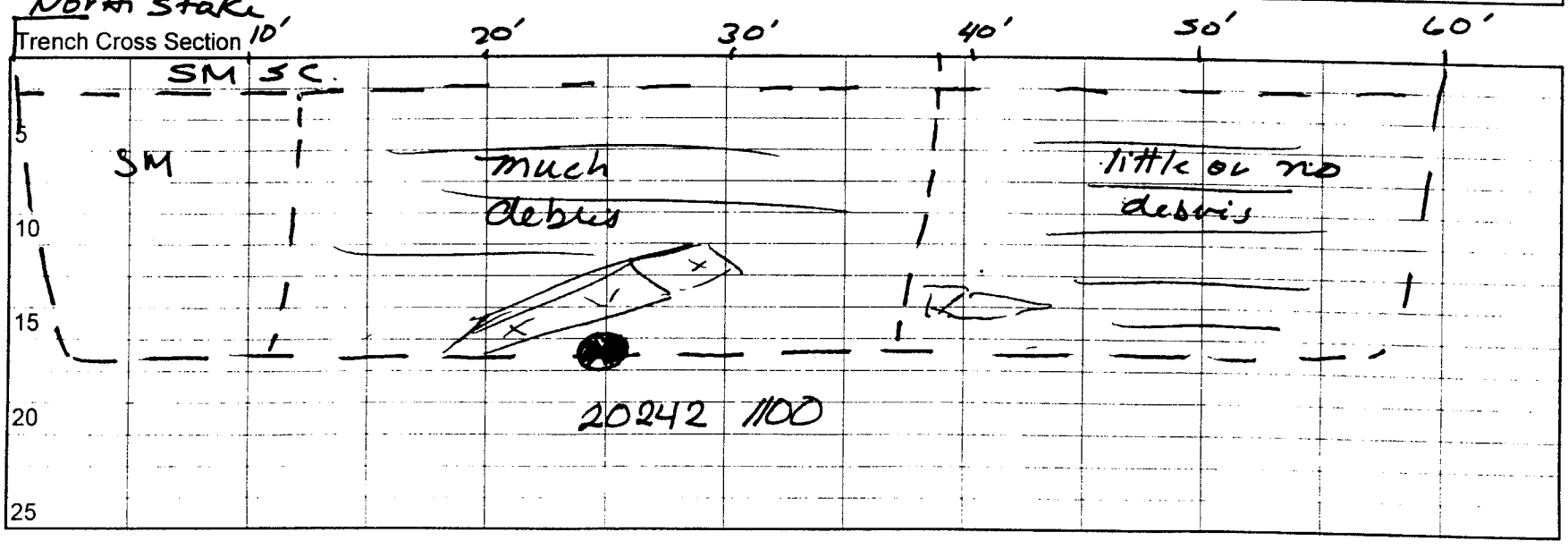
**Project Number 20242**
**wbs 08001001**

Trench Number H8 Date of Excavation 3-7-00

**General Description:** Trench to sample ~~non-conductive soil~~ non-conductive anomaly.

| **Stratigraphic Description:** | | **Sample:** | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| SM SC 0-2' | Silty SAND (SM-SC): brown 10YR 4/3; 80% fine sand 20% silt 3-7% gravel trace clay | | |
| 2-18 | Silty SAND (SM): brown 10YR 5/8; loose dry sand - 90% fine sand, 10% silt Dry - no clay. | | |
| 2-18 | Silty clayey SAND (SM SC): dark brown 10YR 3/3: 60% fine to med sand 40% silt & clay - layered/laminated | | |

Trench Cross Section



MC. El Toro, Aerial Photograph Anomaly Area 3
Trench Excavation Log

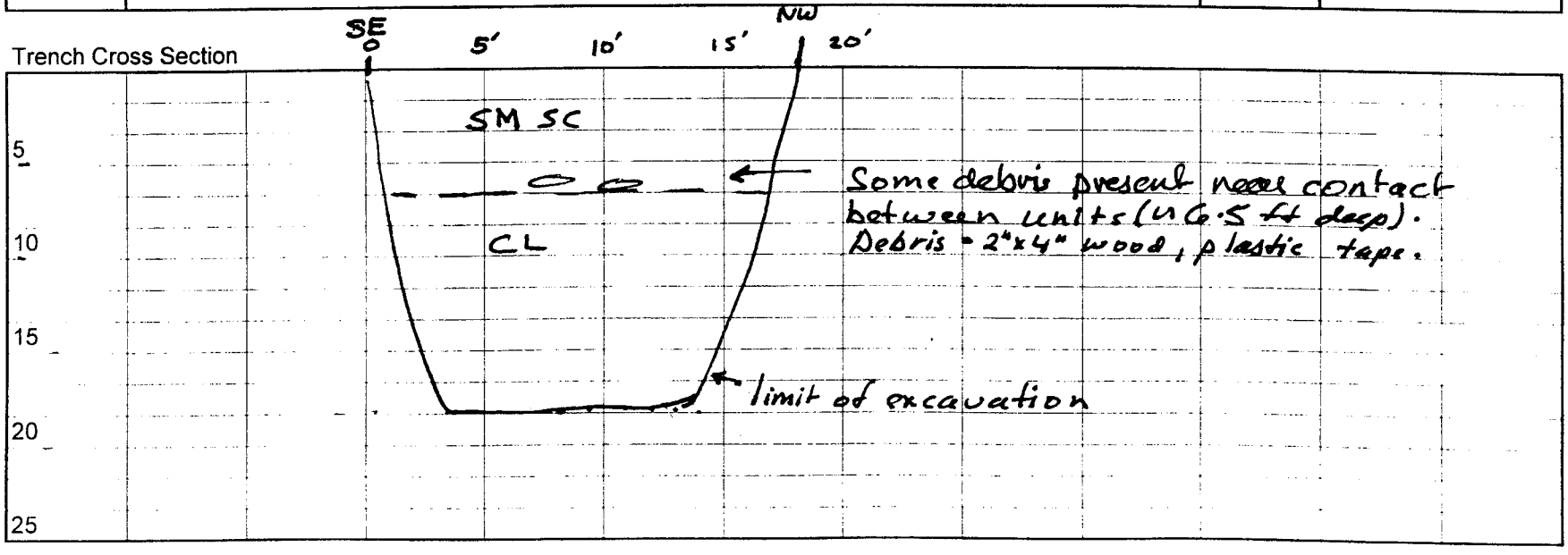
Project Num. 920242
wbs 08001001

Trench Number H-9 Date of Excavation 3/9/00

**General Description:** Trench located in middle of map area where no anomalies were indicated.

| Stratigraphic Description: | | Sample: | |
|---|---|---|---|
| SCS | Lithic Description | Number | Analyses |
| SM SC | 0-6.5' interbedded layers of: silty SAND (SM): Brown 10YR 4/2; 80% fine sand; 20% silt. 1 to 2 foot thick layers grayish clayey SAND (SC): very dark Brown 10YR 3/2; 60% fine sand, 40% clay & silt. | no sample collected | |
| CL | 6.5-18' silty CLAY (CL): greenish gray 5GY5/1; stiff, hard, few mottled dark yellowish orange in a few places; blocky fracture. | | |

Trench Cross Section



## *B-4 SUMMARY OF TRENCH SOIL ANALYSES*

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1096 | 20242-1099 | 20242-1101 | 20242-1102 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-1E-01 | AA3-1E-02 | AA3-1E-03 | AA3-2E-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/07/00 | 03/08/00 |
| Depth (feet below ground surface) | | | | | 16.0 | 22.0 | 20.0 | 4.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 160 | 61 | 12 U | 5600 |
| TPH as Gasoline | mg/kg | NE | NE | NE | 16.8 U | 17.5 U | 12.9 U | 25.1 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 73 U | 90 U | 78 U | 79 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 73 U | 90 U | 78 U | 79 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 73 U | 90 U | 78 U | 79 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 73 U | 90 U | 78 U | 79 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 73 U | 90 U | 78 U | 100 |
| Benzene | µg/kg | NE | 670 | 1500 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Chloroform | µg/kg | NE | 240 | 520 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 15 U | 18 U | 16 U | 16 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 7.3 U | 9 U | 7.8 U | 9.2 |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 7.3 U | 9 U | 7.8 U | 7.9 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1096 | 20242-1099 | 20242-1101 | 20242-1102 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-1E-01 | AA3-1E-02 | AA3-1E-03 | AA3-2E-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/07/00 | 03/08/00 |
| Depth (feet below ground surface) | | | | | 16.0 | 22.0 | 20.0 | 4.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 73 U | 90 U | 78 U | 79 U |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 7.3 U | 9 U | 7.8 U | 7.9 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 1700 U | 390 U | 400 U | 21000 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 1700 U | 390 U | 400 U | 21000 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 1700 U | 390 U | 400 U | 21000 U Y |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 1700 U | 390 U | 400 U | 21000 U Y X |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 4300 U | 990 U | 1000 U | 52000 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 1700 U | 390 U | 400 U | 21000 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 1700 U | 390 U | 400 U | 21000 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 1700 U | 390 U | 400 U | 21000 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 4300 U | 990 U | 1000 U | 52000 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 1700 U | 390 U | 400 U | 21000 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 1700 U | 390 U | 400 U | 21000 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 1700 U | 390 U | 400 U | 21000 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 1700 U | 390 U | 400 U | 21000 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 4300 U | 990 U | 1000 U | 52000 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 1700 U | 390 U | 400 U | 21000 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 1700 U | 390 U | 400 U | 21000 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 4300 U Y | 990 U | 1000 U | 52000 U Y X |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 1700 U | 390 U | 400 U | 21000 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 1700 U Y | 390 U | 400 U | 21000 U Y X |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 1700 U | 390 U | 400 U | 21000 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 4300 U | 990 U | 1000 U | 52000 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 1700 U | 390 U | 400 U | 21000 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 1700 U | 390 U | 400 U | 21000 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 1700 U | 390 U | 400 U | 21000 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1096 | | 20242-1099 | | 20242-1101 | | 20242-1102 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-1E-01 | | AA3-1E-02 | | AA3-1E-03 | | AA3-2E-01 | |
| Date Sampled | | | | | 03/07/00 | | 03/07/00 | | 03/07/00 | | 03/08/00 | |
| Depth (feet below ground surface) | | | | | 16.0 | | 22.0 | | 20.0 | | 4.0 | |
| | Unit | Background | Residential PRG | Industrial PRG | | | | | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 4300 U | | 990 U | | 1000 U | | 52000 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 4300 U | | 990 U | | 1000 U | | 52000 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 1700 U | B Y | 390 U | B | 400 U | B | 21000 U | B Y X |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 140 J | B Y | 39 U | B | 300 U | B Y X | 16000 U | B Y X |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 1700 U | B Y | 390 U | B | 400 U | B | 21000 U | B Y X |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 1700 U | B | 390 U | B | 400 U | B | 21000 U | B Y |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 180 U | | 39 U | | 400 U | Y | 21000 U | Y X |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 1700 U | | 390 U | | 400 U | | 21000 U | Y X |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 1700 U | B | 390 U | B | 400 U | B | 21000 U | B Y |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 180 U | B Y | 39 U | B | 300 U | B Y X | 16000 U | B Y X |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 1700 U | | 390 U | | 100 J | | 21000 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 1700 U | B | 390 U | B | 400 U | B | 21000 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 180 U | | 39 U | | 400 U | Y | 21000 U | Y X |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 1700 U | | 390 U | | 400 U | | 21000 U | Y |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 63 J | B | 39 U | B | 400 U | B | 21000 U | B Y X |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 180 U | Y | 39 U | | 300 U | Y | 16000 U | Y X |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 1700 U | | 390 U | | 400 U | | 21000 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 1700 U | | 390 U | | 400 U | | 21000 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1096 | 20242-1099 | 20242-1101 | 20242-1102 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-1E-01 | AA3-1E-02 | AA3-1E-03 | AA3-2E-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/07/00 | 03/08/00 |
| Depth (feet below ground surface) | | | | | 16.0 | 22.0 | 20.0 | 4.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 1700 U | 390 U | 400 U | 21000 U Y |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 850 U | 200 U | 400 U | 21000 U Y X |
| Phenanthrene | µg/kg | 18 | NE | NE | 1700 U B | 390 U B | 400 U B | 21000 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 1700 U | 390 U | 400 U | 21000 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 1700 U B | 390 U B | 400 U B | 21000 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 46 J B Y | 12 UJ B | 12 UJ B | 10.5 U B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 211 B Y X | 4.04 Y X | 6.78 Y X | 2.12 Y |
| Barium | mg/kg | 173 | 5400 | 100000 | 360 B | 156 | 156 | 79.4 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .63 U | .558 U | .618 U | .294 U |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 2.42 B | 1.2 U | 1.2 U | 1.05 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 53.1 B | 14.9 | 21.1 | 10.4 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 72.8 B | 6.74 | 4.97 | 5.33 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 2040 B | 12.4 B | 7.9 | 10.7 B |
| Lead | mg/kg | 15.1 | 400 | 1000 | 677 B Y | 4.42 | 5.1 | 9.36 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 1350 J B | 270 J | 185 J | 231 |
| Molybdenum | mg/kg | NE | 390 | 10000 | 490 J Y | 3.2 UJ | 2.4 UJ | 2.1 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 25.4 B | 10.7 | 11.5 | 13.7 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 3.4 B | 1.2 U B | 1.2 U B | 1.05 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.09 U B | 2.39 U B | 2.4 U B | 2.1 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 3.98 B | 1.2 U B | 1.22 U B | 1.05 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 38.1 | 43.4 | 43.2 | 35.6 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 6030 J B | 88 J B | 52.6 J | 45.9 J |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .105 U | .12 U | .12 U | .105 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1096 | 20242-1099 | 20242-1101 | 20242-1102 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-1E-01 | AA3-1E-02 | AA3-1E-03 | AA3-2E-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/07/00 | 03/08/00 |
| Depth (feet below ground surface) | | | | | 16.0 | 22.0 | 20.0 | 4.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | NA | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | NA | NA | NA | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1103 | 20242-1110 | 20242-1114 | 20242-1115 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-2E-02 | AA3-3E-01 | AA3-3E-02 | AA3-3E-03 |
| Date Sampled | | | | | 03/08/00 | 03/09/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 22.0 | 22.0 | 22.0 | 35.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 130 | 63 | 110 | 1100 |
| TPH as Gasoline | mg/kg | NE | NE | NE | 19.3 U | 12.5 U | 13 U | 11.4 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 66 U | 67 U | 52 J | 11 J |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 66 U | 67 U | 63 U | 59 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 66 U | 67 U | 63 U | 59 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 66 U | 67 U | 63 U | 59 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 50 J | 40 J | 230 J | 77 |
| Benzene | µg/kg | NE | 670 | 1500 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Chloroform | µg/kg | NE | 240 | 520 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 13 U | 13 U | 13 U | 12 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 7.7 | 6.7 U | 6.3 U | 2.7 J |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1103 | 20242-1110 | 20242-1114 | 20242-1115 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-2E-02 | AA3-3E-01 | AA3-3E-02 | AA3-3E-03 |
| Date Sampled | | | | | 03/08/00 | 03/09/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 22.0 | 22.0 | 22.0 | 35.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 66 U | 67 U | 63 U | 59 U |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 6.6 U | 6.7 U | 6.3 U | 5.9 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 2000 U | 400 U | 3800 U | 390 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 2000 U | 400 U | 3800 U | 390 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 2000 U | 400 U | 3800 U | 390 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 2000 U | 400 U | 3800 U Y | 390 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 5000 U | 1000 U | 9600 U | 970 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 2000 U | 400 U | 3800 U | 390 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 2000 U | 400 U | 3800 U | 390 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 2000 U | 400 U | 3800 U | 390 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 5000 U | 1000 U | 9600 U | 970 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 2000 U | 400 U | 3800 U | 390 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 2000 U | 400 U | 3800 U | 390 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 2000 U | 400 U | 3800 U | 390 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 2000 U | 400 U | 3800 U | 390 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 5000 U | 1000 U | 9600 U | 970 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 2000 U | 400 U | 3800 U | 390 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 2000 U | 400 U | 3800 U | 390 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 5000 U Y | 1000 U | 9600 U Y | 970 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 2000 U | 400 U | 3800 U | 390 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 2000 U Y | 400 U | 3800 U Y | 390 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 2000 U | 400 U | 3800 U | 390 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 5000 U | 1000 U | 9600 U | 970 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 2000 U | 400 U | 3800 U | 390 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 2000 U | 400 U | 3800 U | 390 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 2000 U | 400 U | 3800 U | 390 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1103 | | 20242-1110 | | 20242-1114 | | 20242-1115 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-2E-02 | | AA3-3E-01 | | AA3-3E-02 | | AA3-3E-03 | |
| Date Sampled | | | | | 03/08/00 | | 03/09/00 | | 03/09/00 | | 03/09/00 | |
| Depth (feet below ground surface) | | | | | 22.0 | | 22.0 | | 22.0 | | 35.0 | |
| | Unit | Background | Residential PRG | Industrial PRG | | | | | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 5000 U | | 1000 U | | 9600 U | | 970 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 5000 U | | 1000 U | | 9600 U | | 970 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 2000 U | B Y | 400 U | B | 3800 U | B Y X | 390 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 1500 U | B Y X | 310 U | B Y X | 2900 U | B Y X | 290 U | B Y X |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 2000 U | B Y | 400 U | B | 3800 U | B Y X | 390 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 2000 U | B | 400 U | B | 3800 U | B | 390 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 2000 U | Y X | 400 U | Y | 3800 U | Y X | 390 U | Y |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 2000 U | | 400 U | | 3800 U | Y | 390 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 2000 U | B | 400 U | B | 3800 U | B | 390 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 1500 U | B Y X | 310 U | B Y X | 2900 U | B Y X | 290 U | B Y X |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 2000 U | B | 400 U | B | 3800 U | B | 390 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 2000 U | Y X | 400 U | Y | 3800 U | Y X | 390 U | Y |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 2000 U | B Y | 400 U | B | 3800 U | B Y X | 390 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 1500 U | Y X | 310 U | Y | 2900 U | Y X | 290 U | Y |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 2000 U | | 400 U | | 3800 U | | 390 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 2000 U | | 400 U | | 3800 U | | 390 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1103 | 20242-1110 | 20242-1114 | 20242-1115 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-2E-02 | AA3-3E-01 | AA3-3E-02 | AA3-3E-03 |
| Date Sampled | | | | | 03/08/00 | 03/09/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 22.0 | 22.0 | 22.0 | 35.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 2000 U | 400 U | 3800 U | 390 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 2000 U | 400 U | 3800 U Y | 390 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 2000 U B | 400 U B | 3800 U B | 390 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 2000 U | 400 U | 3800 U | 390 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 2000 U B | 400 U B | 3800 U B | 390 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 12.1 U B | 12.2 U B | 11.5 U B | 11.7 U B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 6.47 Y X | 4.92 Y X | 6.56 Y X | 4.82 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 101 | 86.8 | 100 | 98.1 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .419 U | .35 U | .467 U | .499 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.35 | 1.22 U | 1.15 U | 1.17 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 23.8 | 16 | 14.1 | 11.2 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 4.03 | 2.21 | 4.31 | 4.36 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 17.2 B | 4.3 | 25.8 B | 7.91 |
| Lead | mg/kg | 15.1 | 400 | 1000 | 24.6 B | 2.96 | 6.13 | 4.39 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 175 | 124 | 169 | 107 |
| Molybdenum | mg/kg | NE | 390 | 10000 | 7.81 | 2.45 U | 2.3 U | 2.34 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 9.87 | 6.61 | 8.51 | 7.12 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.21 U B | 1.22 U B | 1.15 U B | 1.17 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.41 U B | 2.45 U B | 2.3 U B | 2.34 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 1.21 U B | 1.22 U B | 1.15 U B | 1.17 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 39.7 | 25.8 | 33.8 | 26.8 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 72 J | 34.7 | 37.6 | 32.5 |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .121 U | .122 U | .115 U | .117 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1103 | 20242-1110 | 20242-1114 | 20242-1115 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-2E-02 | AA3-3E-01 | AA3-3E-02 | AA3-3E-03 |
| Date Sampled | | | | | 03/08/00 | 03/09/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 22.0 | 22.0 | 22.0 | 35.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | NA | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | NA | 0 U | 0 U | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | NA | 600 U | 600 U | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1109 | 20242-1107 | 20242-1108 | 20242-1117 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-4E-01 | AA3-5E-01 | AA3-5E-02 | AA3-5E-03 |
| Date Sampled | | | | | 03/08/00 | 03/08/00 | 03/08/00 | 03/10/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 22.0 | 10.0 | 22.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 170 | 13 | 15 | 220 |
| TPH as Gasoline | mg/kg | NE | NE | NE | 12.4 U | 13.8 U | 9.99 U | 11.4 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 62 U | 52 U | 50 U | 10 J |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 62 U | 52 U | 50 U | 59 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 62 U | 52 U | 50 U | 59 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 62 U | 52 U | 50 U | 59 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 46 J | 46 J | 66 | 31 J |
| Benzene | µg/kg | NE | 670 | 1500 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Chloroform | µg/kg | NE | 240 | 520 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 6.2 U | 5.2 U | 5 U | 5.9 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 12 U | 10 U | 9.9 U | 12 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 6.2 U | 5.2 U | 5 U | 3.2 J |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 6.2 U | 5.2 U | 5 U | 5.9 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1109 | | 20242-1107 | 20242-1108 | 20242-1117 |
|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-4E-01 | | AA3-5E-01 | AA3-5E-02 | AA3-5E-03 |
| Date Sampled | | | | | 03/08/00 | | 03/08/00 | 03/08/00 | 03/10/00 |
| Depth (feet below ground surface) | | | | | 6.0 | | 22.0 | 10.0 | 22.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 62 U | | 52 U | 50 U | 59 U |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 6.2 U | | 5.2 U | 5 U | 5.9 U |
| ***EPA 8270*** | | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 1800 U | | 390 U | 380 U | 780 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 1800 U | | 390 U | 380 U | 780 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 1800 U | | 390 U | 380 U | 780 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 1800 U | | 390 U | 380 U | 780 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 4600 U | | 970 U | 950 U | 2000 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 1800 U | | 390 U | 380 U | 780 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 1800 U | | 390 U | 380 U | 780 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 1800 U | | 390 U | 380 U | 780 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 4600 U | | 970 U | 950 U | 2000 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 1800 U | | 390 U | 380 U | 780 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 1800 U | | 390 U | 380 U | 780 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 1800 U | | 390 U | 380 U | 780 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 1800 U | | 390 U | 380 U | 780 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 4600 U | | 970 U | 950 U | 2000 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 1800 U | | 390 U | 380 U | 780 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 1800 U | | 390 U | 380 U | 780 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 4600 U | Y | 970 U | 950 U | 2000 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 1800 U | | 390 U | 380 U | 780 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 1800 U | Y | 390 U | 380 U | 780 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 1800 U | | 390 U | 380 U | 780 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 4600 U | | 970 U | 950 U | 2000 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 1800 U | | 390 U | 380 U | 780 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 1800 U | | 390 U | 380 U | 780 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 1800 U | | 390 U | 380 U | 780 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1109 | | 20242-1107 | | 20242-1108 | | 20242-1117 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-4E-01 | | AA3-5E-01 | | AA3-5E-02 | | AA3-5E-03 | |
| Date Sampled | | | | | 03/08/00 | | 03/08/00 | | 03/08/00 | | 03/10/00 | |
| Depth (feet below ground surface) | | | | | 6.0 | | 22.0 | | 10.0 | | 22.0 | |
| | Unit | Background | Residential PRG | Industrial PRG | | | | | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 4600 U | | 970 U | | 950 U | | 2000 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 4600 U | | 970 U | | 950 U | | 2000 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 1800 U | | 390 U | | 380 U | | 780 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 1800 U | B Y | 390 U | B | 380 U | B | 780 U | B Y |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 190 U | B Y | 290 U | B Y X | 38 U | B | 590 U | B Y X |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 1800 U | B Y | 390 U | B | 380 U | B | 780 U | B Y |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 1800 U | | 390 U | | 380 U | | 780 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 1800 U | B | 390 U | B | 380 U | B | 780 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 1800 U | | 390 U | | 380 U | | 780 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 190 U | | 390 U | Y | 38 U | | 780 U | Y X |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 1800 U | B | 390 U | B | 380 U | B | 780 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 190 U | B Y | 290 U | B Y X | 38 U | B | 590 U | B Y X |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 1800 U | B | 390 U | B | 380 U | B | 780 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 150 J | | 390 U | Y | 38 U | | 780 U | Y |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 190 U | B | 390 U | B | 38 U | B | 780 U | B Y |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 190 U | Y | 290 U | Y | 38 U | | 590 U | Y X |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 1800 U | | 390 U | | 380 U | | 780 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 1800 U | | 390 U | | 380 U | | 780 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1109 | 20242-1107 | 20242-1108 | 20242-1117 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-4E-01 | AA3-5E-01 | AA3-5E-02 | AA3-5E-03 |
| Date Sampled | | | | | 03/08/00 | 03/08/00 | 03/08/00 | 03/10/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 22.0 | 10.0 | 22.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 1800 U | 390 U | 380 U | 780 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 900 U | 390 U | 190 U | 780 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 1800 U B | 390 U B | 380 U B | 780 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 1800 U | 390 U | 380 U | 780 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 1800 U B | 390 U B | 380 U B | 780 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.2 U B | 11.7 U B | 11.4 U B | 11.8 U B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 2.49 Y | 7.74 B Y X | 3.23 Y X | 3.25 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 76 | 68.5 | 83.5 | 88.6 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .298 U | .378 U | .391 U | .357 |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.12 U | 1.17 U | 1.14 U | 1.18 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 7.04 | 8.3 | 9.16 | 7.29 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 3.09 | 3.43 | 3.5 | 3.27 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 6.48 | 4.79 | 6.2 | 7.48 |
| Lead | mg/kg | 15.1 | 400 | 1000 | 9.72 | 3.7 | 3.56 | 4.73 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 156 | 91.2 | 123 | 138 |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.24 U | 2.35 U | 2.29 U | 2.37 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 5.03 | 5.32 | 5.15 | 7.28 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.12 U B | 1.17 U B | 1.14 U B | 1.18 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.24 U B | 2.35 U B | 2.29 U B | 2.37 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 1.12 U B | 1.17 U B | 1.14 U B | 1.18 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 19.7 | 20.8 | 22.8 | 20.6 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 35.9 | 21.9 | 32.5 | 37.5 |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .112 U | .117 U | .114 U | .118 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | 39 | NA | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | 2.7 UJ | NA | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | 0.99 UJ | NA | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | 0.86 UJ | NA | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | 0.68 U | NA | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | 1.5 UJ | NA | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | 0.66 U | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1109 | 20242-1107 | 20242-1108 | 20242-1117 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-4E-01 | AA3-5E-01 | AA3-5E-02 | AA3-5E-03 |
| Date Sampled | | | | | 03/08/00 | 03/08/00 | 03/08/00 | 03/10/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 22.0 | 10.0 | 22.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | 1.1 UJ | NA | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | 0.80 U | NA | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | 1.2 U | NA | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | 0.74 U | NA | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | 0.71 U | NA | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | 0.73 U | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | 0.78 U | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | 0.66 UJ | NA | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | 66 | NA | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | 6.8 J | NA | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | 4.1 J | NA | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | 1.6 U | NA | NA | NA |
| OCDD | pg/g | NE | NE | NE | 330 J | NA | NA | NA |
| OCDF | pg/g | NE | NE | NE | 10 J | NA | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | 1.2 U | NA | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | 2.0 U | NA | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | 0.78 U | NA | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | 0.66 UJ | NA | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | NA | NA | NA | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1118 (Dup) | 20242-1104 | 20242-1116 | 20242-1098 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-5E-03 | AA3-6E-01 | AA3-7E-01 | AA3-H1-01 |
| Date Sampled | | | | | 03/10/00 | 03/08/00 | 03/09/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 22.5 | 22.0 | 22.0 | 10.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 130 | 260 | 370 | 10.9 U |
| TPH as Gasoline | mg/kg | NE | NE | NE | 12.1 U | 7.68 U | 11.2 U | 12.5 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.9 U | 10 U | 5.2 U | 6 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.9 U | 10 U | 5.2 U | 6 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 13 J | 100 U | 52 U | 60 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 59 U | 100 U | 52 U | 60 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 59 U | 100 U | 52 U | 60 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 59 U | 100 U | 52 U | 60 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 98 | 100 J | 52 U | 60 U |
| Benzene | µg/kg | NE | 670 | 1500 | 5.9 U | 10 U | 5.2 U | 6 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.9 U | 10 U | 5.2 U | 6 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.9 U | 10 U | 5.2 U | 6 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.9 U | 10 U | 5.2 U | 6 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.9 U | 10 U | 5.2 U | 6 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.9 U | 10 U | 5.2 U | 6 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.9 U | 10 U | 5.2 U | 6 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.9 U | 10 U | 5.2 U | 6 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.9 U | 10 U | 5.2 U | 6 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 12 U | 21 U | 10 U | 12 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 34 | 11 | 3 J | 6 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.9 U | 10 U | 32 | 6 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1118 (Dup) | 20242-1104 | 20242-1116 | 20242-1098 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-5E-03 | AA3-6E-01 | AA3-7E-01 | AA3-H1-01 |
| Date Sampled | | | | | 03/10/00 | 03/08/00 | 03/09/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 22.5 | 22.0 | 22.0 | 10.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 5.9 U | 10 U | 5.2 U | 6 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.9 U | 10 U | 5.2 U | 6 U |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.9 U | 10 U | 5.2 U | 6 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.9 U | 10 U | 5.2 U | 6 U |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 5.9 U | 10 U | 5.2 U | 6 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 59 U | 100 U | 52 U | 60 U |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 5.9 U | 10 U | 5.2 U | 6 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.9 U | 10 U | 5.2 U | 6 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 390 U | 3800 U | 10000 U | 360 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 390 U | 3800 U | 10000 U | 360 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 390 U | 3800 U | 10000 U | 360 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 390 U | 3800 U Y | 10000 U Y X | 360 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 970 U | 9500 U | 26000 U | 910 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 390 U | 3800 U | 10000 U | 360 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 390 U | 3800 U | 10000 U | 360 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 390 U | 3800 U | 10000 U | 360 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 970 U | 9500 U | 26000 U | 910 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 390 U | 3800 U | 10000 U | 360 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 390 U | 3800 U | 10000 U | 360 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 390 U | 3800 U | 10000 U | 360 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 390 U | 3800 U | 10000 U | 360 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 970 U | 9500 U | 26000 U | 910 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 390 U | 3800 U | 10000 U | 360 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 390 U | 3800 U | 10000 U | 360 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 970 U | 9500 U Y | 26000 U Y | 910 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 390 U | 3800 U | 10000 U | 360 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 390 U | 3800 U Y | 10000 U Y X | 360 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 390 U | 3800 U | 10000 U | 360 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 970 U | 9500 U | 26000 U | 910 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 390 U | 3800 U | 10000 U | 360 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 390 U | 3800 U | 10000 U | 360 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 390 U | 3800 U | 10000 U | 360 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1118 (Dup) | | 20242-1104 | | 20242-1116 | | 20242-1098 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-5E-03 | | AA3-6E-01 | | AA3-7E-01 | | AA3-H1-01 | |
| Date Sampled | | | | | 03/10/00 | | 03/08/00 | | 03/09/00 | | 03/07/00 | |
| Depth (feet below ground surface) | | | | | 22.5 | | 22.0 | | 22.0 | | 10.0 | |
| | Unit | Background | Residential PRG | Industrial PRG | | | | | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 970 U | | 9500 U | | 26000 U | | 910 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 970 U | | 9500 U | | 26000 U | | 910 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 390 U | B | 3800 U | B Y X | 10000 U | B Y X | 360 U | B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 290 U | B Y X | 2900 U | B Y X | 1000 U | B Y X | 270 U | B Y |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 390 U | B | 3800 U | B Y X | 10000 U | B Y X | 360 U | B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 390 U | B | 3800 U | B | 10000 U | B Y | 360 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 390 U | Y | 3800 U | Y X | 1000 U | Y X | 360 U | Y |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 390 U | | 3800 U | Y | 10000 U | Y X | 360 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 390 U | B | 3800 U | B | 10000 U | B Y | 360 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 290 U | B Y X | 2900 U | B Y X | 1000 U | B Y X | 270 U | B Y |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 390 U | B | 3800 U | B | 10000 U | B | 360 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 390 U | Y | 3800 U | Y X | 1000 U | Y | 360 U | Y |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 390 U | | 3800 U | | 10000 U | Y | 360 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 390 U | B | 3800 U | B Y X | 1000 U | B Y | 360 U | B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 290 U | Y | 2900 U | Y X | 1000 U | Y X | 270 U | Y |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 390 U | | 3800 U | | 10000 U | | 360 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 390 U | | 3800 U | | 10000 U | | 360 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1118 (Dup) | 20242-1104 | 20242-1116 | 20242-1098 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-5E-03 | AA3-6E-01 | AA3-7E-01 | AA3-H1-01 |
| Date Sampled | | | | | 03/10/00 | 03/08/00 | 03/09/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 22.5 | 22.0 | 22.0 | 10.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 390 U | 3800 U | 10000 U | 360 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 390 U | 3800 U Y | 5100 U Y | 360 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 390 U B | 3800 U B | 10000 U B | 360 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 390 U | 3800 U | 10000 U | 360 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 390 U B | 3800 U B | 10000 U B | 360 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11.7 U B | 11.5 U B | 10.4 U B | 10.9 UJ B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 3.05 Y X | 2.99 Y X | 2.6 Y | 3.45 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 93.5 | 95.5 | 55.5 | 98.3 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .383 | .302 U | .29 | .419 U |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.17 U | 1.15 U | 1.84 | 1.09 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 8.08 | 9.34 | 10.8 | 12.3 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 3.6 | 3.55 | 6.97 | 4.32 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 7.12 | 6.92 | 11.1 B | 6.56 |
| Lead | mg/kg | 15.1 | 400 | 1000 | 3.93 | 5.53 | 122 B | 3.58 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 136 | 168 | 181 | 181 J |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.35 U | 2.29 U | 2.07 U | 2.19 UJ |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 7.4 | 6.79 | 8.26 | 8.07 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.17 U B | 1.15 U B | 1.04 U B | 1.09 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.35 U B | 2.29 U B | 2.07 U B | 2.19 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 1.17 U B | 1.15 U B | 1.04 U B | 1.09 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 22.6 | 25.9 | 21.6 | 32.6 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 34.7 | 39.2 J | 146 B | 36.4 J |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .117 U | .115 U | .104 U | .109 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification<br>Location Code<br>Date Sampled<br>Depth (feet below ground surface) | | | | | 20242-1118 (Dup)<br>AA3-5E-03<br>03/10/00<br>22.5 | 20242-1104<br>AA3-6E-01<br>03/08/00<br>22.0 | 20242-1116<br>AA3-7E-01<br>03/09/00<br>22.0 | 20242-1098<br>AA3-H1-01<br>03/07/00<br>10.0 |
|---|---|---|---|---|---|---|---|---|
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | NA | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | NA | NA | NA | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1097 | 20242-1095 | 20242-1112 | 20242-1113 (Dup) |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H2-01 | AA3-H3-01 | AA3-H4-01 | AA3-H4-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 4.0 | 7.0 | 7.5 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 150 | 11 U | 42 | 79 |
| TPH as Gasoline | mg/kg | NE | NE | NE | 12.2 U | 30.1 U | 11.9 U | 11.2 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 12 U | 16 U | 6.4 U | 6.5 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 12 U | 16 U | 6.4 U | 6.5 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 120 U | 160 U | 64 U | 65 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 120 U | 160 U | 64 U | 65 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 120 U | 160 U | 64 U | 65 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 120 U | 160 U | 64 U | 65 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 120 U | 160 U | 50 J | 80 |
| Benzene | µg/kg | NE | 670 | 1500 | 12 U | 16 U | 6.4 U | 1.7 J |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 12 U | 16 U | 6.4 U | 6.5 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 12 U | 16 U | 6.4 U | 6.5 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 12 U | 16 U | 6.4 U | 6.5 U |
| Chloroform | µg/kg | NE | 240 | 520 | 12 U | 16 U | 6.4 U | 6.5 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 12 U | 16 U | 6.4 U | 6.5 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 12 U | 16 U | 6.4 U | 6.5 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 12 U | 16 U | 6.4 U | 6.5 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 12 U | 16 U | 6.4 U | 6.5 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 24 U | 32 U | 13 U | 13 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 12 U | 16 U | 6.4 U | 6.5 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 12 U | 16 U | 6.4 U | 6.5 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1097 | | 20242-1095 | | 20242-1112 | | 20242-1113 (Dup) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H2-01 | | AA3-H3-01 | | AA3-H4-01 | | AA3-H4-01 | |
| Date Sampled | | | | | 03/07/00 | | 03/07/00 | | 03/09/00 | | 03/09/00 | |
| Depth (feet below ground surface) | | | | | 6.0 | | 4.0 | | 7.0 | | 7.5 | |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| Toluene | µg/kg | NE | 520000 | 520000 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 120 U | | 160 U | | 64 U | | 65 U | |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 12 U | | 16 U | | 6.4 U | | 6.5 U | |
| ***EPA 8270*** | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 4500 U | Y | 910 U | | 4500 U | Y | 4500 U | Y |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 1800 U | Y | 360 U | | 1800 U | Y | 1800 U | Y |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1097 | | 20242-1095 | | 20242-1112 | | 20242-1113 (Dup) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H2-01 | | AA3-H3-01 | | AA3-H4-01 | | AA3-H4-01 | |
| Date Sampled | | | | | 03/07/00 | | 03/07/00 | | 03/09/00 | | 03/09/00 | |
| Depth (feet below ground surface) | | | | | 6.0 | | 4.0 | | 7.0 | | 7.5 | |
| | Unit | Background | Residential PRG | Industrial PRG | | | | | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 4500 U | | 910 U | | 4500 U | | 4500 U | |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Acenaphthylene | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 1800 U | B Y | 360 U | B | 1800 U | B Y | 1800 U | B Y |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 1400 U | B Y X | 280 U | B Y | 1300 U | B Y X | 1400 U | B Y X |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 1800 U | B Y | 360 U | B | 1800 U | B Y | 1800 U | B Y |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 1800 U | B | 360 U | B | 1800 U | B | 1800 U | B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 1800 U | Y X | 360 U | Y | 1800 U | Y X | 1800 U | Y X |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 1800 U | B | 360 U | B | 1800 U | B | 1800 U | B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 1400 U | B Y X | 280 U | B Y | 1300 U | B Y X | 1400 U | B Y X |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 1800 U | B | 360 U | B | 1800 U | B | 1800 U | B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 1800 U | Y X | 360 U | Y | 1800 U | Y X | 1800 U | Y X |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 1800 U | B Y | 360 U | B | 1800 U | B Y | 1800 U | B Y |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 1400 U | Y X | 280 U | Y | 1300 U | Y X | 1400 U | Y X |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 1800 U | | 360 U | | 1800 U | | 1800 U | |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1097 | 20242-1095 | 20242-1112 | 20242-1113 (Dup) |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H2-01 | AA3-H3-01 | AA3-H4-01 | AA3-H4-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 4.0 | 7.0 | 7.5 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 1800 U | 360 U | 1800 U | 1800 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 1800 U | 360 U | 1800 U | 1800 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 1800 U B | 360 U B | 1800 U B | 1800 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 1800 U | 360 U | 1800 U | 1800 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 1800 U B | 360 U B | 1800 U B | 1800 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 11 UJ B | 11 UJ B | 10.7 U B | 10.9 U B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 4.63 Y X | 3.05 Y X | 4.59 Y X | 4.35 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 101 | 112 | 104 | 106 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .361 U | .459 U | .459 U | .407 U |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.1 U | 1.1 U | 1.07 U | 1.09 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 13.2 | 10.2 | 15.8 | 16.9 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 4.18 | 3.73 | 5.8 | 4.52 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 9.28 | 6.56 | 12.7 B | 12.6 B |
| Lead | mg/kg | 15.1 | 400 | 1000 | 12.4 | 5.47 | 14.7 | 11.9 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 214 J | 211 J | 250 | 213 |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.19 UJ | 2.2 UJ | 2.15 U | 2.17 U |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 8.79 | 7.14 | 11.6 | 10.3 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.1 U B | 1.1 U B | 1.07 U B | 1.09 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.19 U B | 2.2 U B | 2.15 U B | 2.17 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 1.32 U B | 1.19 U B | 1.07 U B | 1.09 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 27.3 | 27.4 | 29.5 | 26.9 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 43 J | 37.7 J | 50.7 | 45.9 |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .11 U | .11 U | .107 U | .109 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | NA | 4.3 J | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | NA | 1.7 U | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | NA | 0.72 U | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | NA | 0.64 U | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | NA | 0.41 U | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | NA | 0.68 U | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | 0.39 U | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1097 | 20242-1095 | 20242-1112 | 20242-1113 (Dup) |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H2-01 | AA3-H3-01 | AA3-H4-01 | AA3-H4-01 |
| Date Sampled | | | | | 03/07/00 | 03/07/00 | 03/09/00 | 03/09/00 |
| Depth (feet below ground surface) | | | | | 6.0 | 4.0 | 7.0 | 7.5 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | NA | 0.91 U | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | NA | 0.77 U | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | NA | 0.82 U | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | NA | 0.49 U | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | 0.42 U | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | NA | 0.48 U | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | NA | 0.79 U | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | NA | 0.42 U | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | NA | 8.6 | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | NA | 1.8 | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | NA | 0.88 U | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | NA | 0.77 U | NA | NA |
| OCDD | pg/g | NE | NE | NE | NA | 40 | NA | NA |
| OCDF | pg/g | NE | NE | NE | NA | 5.9 J | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | NA | 0.82 U | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | NA | 0.77 U | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | NA | 0.79 U | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | NA | 0.54 U | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | 0 U | 0 U | NA | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | 500 U | 500 U | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1111 | 20242-1106 | 20242-1105 | 20242-1100 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H5-01 | AA3-H6-01 | AA3-H7-01 | AA3-H8-01 |
| Date Sampled | | | | | 03/09/00 | 03/08/00 | 03/08/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 7.0 | 6.0 | 18.0 | 14.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| ***CA LUFT 8015M*** | | | | | | | | |
| TPH as Diesel | mg/kg | NE | NE | NE | 12 | 10.7 U | 150 | 10.6 U |
| TPH as Gasoline | mg/kg | NE | NE | NE | 11.4 U | 15.4 U | 28.7 U | 12.8 U |
| ***EPA 8260*** | | | | | | | | |
| 1,1,1-Trichloroethane | µg/kg | NE | 770000 | 1400000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,1,2,2-Tetrachloroethane | µg/kg | NE | 380 | 900 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,1,2-Trichloroethane | µg/kg | NE | 840 | 1900 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,1-Dichloroethane | µg/kg | NE | 590000 | 2100000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,1-Dichloroethene | µg/kg | NE | 54 | 120 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,2-Dichloroethane | µg/kg | NE | 350 | 760 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 1,2-Dichloropropane | µg/kg | NE | 350 | 770 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| 2-Butanone (MEK) | µg/kg | NE | 7300000 | 28000000 | 53 U | 53 U | 160 U | 59 U |
| 2-Chloroethyl vinyl ether | µg/kg | NE | NE | NE | 53 U | 53 U | 160 U | 59 U |
| 2-Hexanone | µg/kg | NE | NE | NE | 53 U | 53 U | 160 U | 59 U |
| 4-Methyl-2-pentanone (MIBK) | µg/kg | NE | 790000 | 2900000 | 53 U | 53 U | 160 U | 59 U |
| Acetone | µg/kg | NE | 1600000 | 6200000 | 37 J | 53 U | 33 J | 59 U |
| Benzene | µg/kg | NE | 670 | 1500 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Bromodichloromethane | µg/kg | NE | 1000 | 2400 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Bromoform | µg/kg | NE | 62000 | 310000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Bromomethane | µg/kg | NE | 3900 | 13000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Carbon disulfide | µg/kg | NE | 360000 | 720000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Carbon tetrachloride | µg/kg | NE | 240 | 530 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Chlorobenzene | µg/kg | NE | 150000 | 540000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Chloroethane | µg/kg | NE | 3000 | 6500 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Chloroform | µg/kg | NE | 240 | 520 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Chloromethane | µg/kg | NE | 1200 | 2700 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| cis-1,2-Dichloroethene | µg/kg | NE | 43000 | 150000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| cis-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Dibromochloromethane | µg/kg | NE | 1100 | 2700 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Ethylbenzene | µg/kg | NE | 230000 | 230000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Methyl tert-butyl ether (MTBE) | µg/kg | NE | NE | NE | 11 U | 11 U | 32 U | 12 U |
| Methylene chloride | µg/kg | NE | 8900 | 21000 | 5.3 U | 5.3 U | 14 J | 5.9 U |
| Styrene | µg/kg | NE | 1700000 | 1700000 | 5.3 U | 5.3 U | 16 U | 5.9 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1111 | 20242-1106 | 20242-1105 | 20242-1100 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H5-01 | AA3-H6-01 | AA3-H7-01 | AA3-H8-01 |
| Date Sampled | | | | | 03/09/00 | 03/08/00 | 03/08/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 7.0 | 6.0 | 18.0 | 14.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Tetrachloroethene | µg/kg | NE | 5700 | 19000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Toluene | µg/kg | NE | 520000 | 520000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| trans-1,2-Dichloroethene | µg/kg | NE | 63000 | 210000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| trans-1,3-Dichloropropene | µg/kg | NE | 82 | 180 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Trichloroethene | µg/kg | NE | 2800 | 6100 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Vinyl acetate | µg/kg | NE | 430000 | 1400000 | 53 U | 53 U | 160 U | 59 U |
| Vinyl chloride | µg/kg | NE | 22 | 49 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| Xylenes (total) | µg/kg | NE | 210000 | 210000 | 5.3 U | 5.3 U | 16 U | 5.9 U |
| ***EPA 8270*** | | | | | | | | |
| 1,2,4-Trichlorobenzene | µg/kg | NE | 650000 | 3000000 | 350 U | 350 U | 3500 U | 350 U |
| 1,2-Dichlorobenzene | µg/kg | NE | 370000 | 370000 | 350 U | 350 U | 3500 U | 350 U |
| 1,3-Dichlorobenzene | µg/kg | NE | 13000 | 52000 | 350 U | 350 U | 3500 U | 350 U |
| 1,4-Dichlorobenzene | µg/kg | NE | 3400 | 8100 | 350 U | 350 U | 3500 U Y | 350 U |
| 2,4,5-Trichlorophenol | µg/kg | NE | 6100000 | 88000000 | 880 U | 890 U | 8900 U | 880 U |
| 2,4,6-Trichlorophenol | µg/kg | NE | 44000 | 220000 | 350 U | 350 U | 3500 U | 350 U |
| 2,4-Dichlorophenol | µg/kg | NE | 180000 | 2600000 | 350 U | 350 U | 3500 U | 350 U |
| 2,4-Dimethylphenol | µg/kg | NE | 1200000 | 18000000 | 350 U | 350 U | 3500 U | 350 U |
| 2,4-Dinitrophenol | µg/kg | NE | 120000 | 1800000 | 880 U | 890 U | 8900 U | 880 U |
| 2,4-Dinitrotoluene | µg/kg | NE | 120000 | 1800000 | 350 U | 350 U | 3500 U | 350 U |
| 2,6-Dinitrotoluene | µg/kg | NE | 61000 | 880000 | 350 U | 350 U | 3500 U | 350 U |
| 2-Chloronaphthalene | µg/kg | NE | 4900000 | 27000000 | 350 U | 350 U | 3500 U | 350 U |
| 2-Chlorophenol | µg/kg | NE | 63000 | 240000 | 350 U | 350 U | 3500 U | 350 U |
| 2-Methyl-4,6-dinitrophenol | µg/kg | NE | NE | NE | 880 U | 890 U | 8900 U | 880 U |
| 2-Methylnaphthalene | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| 2-Methylphenol | µg/kg | NE | 3100000 | 44000000 | 350 U | 350 U | 3500 U | 350 U |
| 2-Nitroaniline | µg/kg | NE | 3500 | 50000 | 880 U | 890 U | 8900 U Y | 880 U |
| 2-Nitrophenol | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| 3,3'-Dichlorobenzidine | µg/kg | NE | 1100 | 5500 | 350 U | 350 U | 3500 U Y | 350 U |
| 3-Methyl-4-chlorophenol | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| 3-Nitroaniline | µg/kg | NE | NE | NE | 880 U | 890 U | 8900 U | 880 U |
| 4-Bromophenyl phenyl ether | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| 4-Chloroaniline | µg/kg | NE | 240000 | 3500000 | 350 U | 350 U | 3500 U | 350 U |
| 4-Chlorophenyl phenyl ether | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1111 | 20242-1106 | 20242-1105 | 20242-1100 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H5-01 | AA3-H6-01 | AA3-H7-01 | AA3-H8-01 |
| Date Sampled | | | | | 03/09/00 | 03/08/00 | 03/08/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 7.0 | 6.0 | 18.0 | 14.0 |
| | Unit | Background | Residential PRG | Industrial PRG | | | | |
| 4-Methylphenol | µg/kg | NE | 310000 | 4400000 | 350 U | 350 U | 3500 U | 350 U |
| 4-Nitroaniline | µg/kg | NE | NE | NE | 880 U | 890 U | 8900 U | 880 U |
| 4-Nitrophenol | µg/kg | NE | 490000 | 7000000 | 880 U | 890 U | 8900 U | 880 U |
| Acenaphthene | µg/kg | NE | 3700000 | 38000000 | 350 U | 350 U | 3500 U | 350 U |
| Acenaphthylene | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| Anthracene | µg/kg | NE | 22000000 | 100000000 | 350 U | 350 U | 3500 U | 350 U |
| Benzo[a]anthracene | µg/kg | 22 | 620 | 2900 | 270 J B | 350 U B | 3500 U B Y X | 350 U B |
| Benzo[a]pyrene | µg/kg | 27 | 62 | 290 | 230 B Y | 35 U B | 2700 U B Y X | 270 U B Y |
| Benzo[b]fluoranthene | µg/kg | 28 | 620 | 2900 | 440 B | 350 U B | 3500 U B Y X | 350 U B |
| Benzo[ghi]perylene | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| Benzo[k]fluoranthene | µg/kg | 24 | 6200 | 29000 | 350 U B | 350 U B | 3500 U B | 350 U B |
| Bis (2-chloroethoxy)methane | µg/kg | NE | NE | NE | 350 U | 350 U | 3500 U | 350 U |
| Bis (2-chloroethyl)ether | µg/kg | NE | 210 | 620 | 35 U | 35 U | 3500 U Y X | 350 U Y |
| Bis (2-chloroisopropyl)ether | µg/kg | NE | 2900 | 8100 | 350 U | 350 U | 3500 U Y | 350 U |
| Bis (2-ethylhexyl)phthalate | µg/kg | NE | 35000 | 180000 | 350 U | 350 U | 3500 U | 350 U |
| Butyl benzyl phthalate | µg/kg | NE | 12000000 | 100000000 | 350 U | 350 U | 3500 U | 350 U |
| Chrysene | µg/kg | 31 | 6100 | 290000 | 250 J B | 350 U B | 3500 U B | 350 U B |
| Di-n-butyl phthalate | µg/kg | NE | 6100000 | 88000000 | 350 U | 350 U | 3500 U | 350 U |
| Di-n-octyl phthalate | µg/kg | NE | 1200000 | 10000000 | 350 U | 350 U | 3500 U | 350 U |
| Dibenz[a,h]anthracene | µg/kg | 8 | 62 | 290 | 35 U B | 35 U B | 2700 U B Y X | 270 U B Y |
| Dibenzofuran | µg/kg | NE | 290000 | 5100000 | 350 U | 350 U | 3500 U | 350 U |
| Diethyl phthalate | µg/kg | NE | 49000000 | 100000000 | 260 J | 96 J | 3500 U | 350 U |
| Dimethyl phthalate | µg/kg | NE | 100000000 | 100000000 | 350 U | 350 U | 3500 U | 350 U |
| Fluoranthene | µg/kg | 45 | 2300000 | 30000000 | 600 B | 350 U B | 3500 U B | 350 U B |
| Fluorene | µg/kg | NE | 2600000 | 33000000 | 350 U | 350 U | 3500 U | 350 U |
| Hexachlorobenzene | µg/kg | NE | 300 | 1500 | 35 U | 35 U | 3500 U Y X | 350 U Y |
| Hexachlorobutadiene | µg/kg | NE | 6200 | 32000 | 350 U | 350 U | 3500 U | 350 U |
| Hexachlorocyclopentadiene | µg/kg | NE | 420000 | 5900000 | 350 U | 350 U | 3500 U | 350 U |
| Hexachloroethane | µg/kg | NE | 35000 | 180000 | 350 U | 350 U | 3500 U | 350 U |
| Indeno[1,2,3-cd]pyrene | µg/kg | 21 | 620 | 2900 | 81 B | 35 U B | 3500 U B Y X | 350 U B |
| N-Nitrosodi-n-propylamine | µg/kg | NE | 69 | 350 | 35 U | 35 U | 2700 U Y X | 270 U Y |
| N-Nitrosodiphenylamine | µg/kg | NE | 99000 | 500000 | 350 U | 350 U | 3500 U | 350 U |
| Naphthalene | µg/kg | NE | 56000 | 190000 | 350 U | 350 U | 3500 U | 350 U |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1111 | 20242-1106 | 20242-1105 | 20242-1100 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H5-01 | AA3-H6-01 | AA3-H7-01 | AA3-H8-01 |
| Date Sampled | | | | | 03/09/00 | 03/08/00 | 03/08/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 7.0 | 6.0 | 18.0 | 14.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| Nitrobenzene | µg/kg | NE | 20000 | 110000 | 350 U | 350 U | 3500 U | 350 U |
| Pentachlorophenol | µg/kg | NE | 3000 | 11000 | 180 U | 180 U | 3500 U Y | 350 U |
| Phenanthrene | µg/kg | 18 | NE | NE | 140 J B | 350 U B | 3500 U B | 350 U B |
| Phenol | µg/kg | NE | 37000000 | 100000000 | 350 U | 350 U | 3500 U | 350 U |
| Pyrene | µg/kg | 41 | 2300000 | 54000000 | 460 B | 350 U B | 3500 U B | 350 U B |
| ***EPA 6010*** | | | | | | | | |
| Antimony | mg/kg | 3.06 | 31 | 820 | 10.6 U B | 10.7 U B | 10.7 U B | 10.6 UJ B |
| Arsenic | mg/kg | 6.86 | 0.39* | 2.7 | 2.85 Y X | 1.81 Y | 1.85 Y | 3.98 Y X |
| Barium | mg/kg | 173 | 5400 | 100000 | 62.3 | 73 | 83.9 | 79.7 |
| Beryllium | mg/kg | 0.669 | 150 | 2200 | .215 U | .219 U | .253 U | .533 U |
| Cadmium | mg/kg | 2.35 | 9.0 | 810 | 1.06 U | 1.07 U | 1.07 U | 1.06 U |
| Chromium | mg/kg | 26.9 | 210 | 450 | 12.9 | 4.4 | 6.88 | 13.2 |
| Cobalt | mg/kg | 6.98 | 4700 | 100000 | 2.97 | 2.54 | 2.92 | 6.1 |
| Copper | mg/kg | 10.5 | 2900 | 76000 | 5.82 | 3.04 | 4.35 | 11.3 B |
| Lead | mg/kg | 15.1 | 400 | 1000 | 3.87 | 2.22 | 6.47 | 3.4 |
| Manganese | mg/kg | 291 | 1800 | 32000 | 145 | 144 | 149 | 125 J |
| Molybdenum | mg/kg | NE | 390 | 10000 | 2.13 U | 2.14 U | 2.14 U | 2.13 J |
| Nickel | mg/kg | 15.3 | 150 | 41000 | 7.98 | 2.14 U | 4.92 U | 9.71 |
| Selenium | mg/kg | 0.32 | 390 | 10000 | 1.06 U B | 1.07 U B | 1.07 U B | 1.06 U B |
| Silver | mg/kg | 0.539 | 390 | 10000 | 2.13 U B | 2.14 U B | 2.14 U B | 2.13 U B |
| Thallium | mg/kg | 0.42 | 5.5 | 140 | 1.06 U B | 1.07 U B | 1.07 U B | 1.06 U B |
| Vanadium | mg/kg | 71.8 | 550 | 14000 | 18 | 16.9 | 20 | 37.9 |
| Zinc | mg/kg | 77.9 | 23000 | 100000 | 26.2 | 26.2 | 27.5 J | 34.1 J |
| ***EPA 7471A*** | | | | | | | | |
| Mercury | mg/kg | 0.22 | 23 | 610 | .106 U | .107 U | .107 U | .106 U |
| ***EPA 8290*** | | | | | | | | |
| 1,2,3,4,6,7,8-HPCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,6,7,8-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8,9-HPCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,4,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
## Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

| Sample Identification | | | | | 20242-1111 | 20242-1106 | 20242-1105 | 20242-1100 |
|---|---|---|---|---|---|---|---|---|
| Location Code | | | | | AA3-H5-01 | AA3-H6-01 | AA3-H7-01 | AA3-H8-01 |
| Date Sampled | | | | | 03/09/00 | 03/08/00 | 03/08/00 | 03/07/00 |
| Depth (feet below ground surface) | | | | | 7.0 | 6.0 | 18.0 | 14.0 |
| | **Unit** | **Background** | **Residential PRG** | **Industrial PRG** | | | | |
| 1,2,3,7,8,9-HXCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8,9-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 1,2,3,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,6,7,8-HXCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,4,7,8-PECDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| 2,3,7,8-TCDD | pg/g | NE | 3.9 | 27 | NA | NA | NA | NA |
| 2,3,7,8-TCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HPCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| HXCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDD | pg/g | NE | NE | NE | NA | NA | NA | NA |
| OCDF | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| PECDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDDs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| TCDFs (total) | pg/g | NE | NE | NE | NA | NA | NA | NA |
| ***TEM*** | | | | | | | | |
| Asbestos | NA | NE | NE | NE | NA | NA | NA | NA |
| ***DHS-IC-REV 0*** | | | | | | | | |
| Perchlorate | µg/kg | NE | NE | NE | NA | NA | NA | NA |

# Table B-1
# Summary of Trench Soil Analyses— MSC R1 (Anomaly Area 3)

Explanation:
AA3 - Anomaly Area 3
B - result exceeds established background limits
CA LUFT - California Leaking Underground Fuel Tank
EPA - United States Environmental Protection Agency
J - estimated
M - Modified
MDL - method detection limit
mg/kg - milligrams per kilogram
NA - not analyzed
NE - not established
OHM - OHM Remediation Services Corp.
pg/g - picograms per gram
PRG - Preliminary Remediation Goal, EPA Region IX, October 1999
R - data is not usable
RL - reporting limit
TPH - total petroleum hydrocarbons
U - not detected above or equal to the stated reporting limit
UJ - the sample detection limit is an estimated value
X - result exceeds industrial PRGs
Y - result exceeds residential PRGs
µg/kg - micrograms per kilogram
* If the analyte had been detected bewteen the MDL and RL the actual value would have been reported and flagged with a "J" qualifier. For the samples in question, the laboratory did not detect analyte concentrations between the MDL and the RL. As a result, the samples are qualified as non-detect ("U").

*B-5 RADIOLOGICAL SURVEY*

INTERNATIONAL TECHNOLOGY CORPORATION

# RADIOLOGICAL SURVEY LOG

| SURVEY NUMBER | SURVEY DATE | SURVEY BY | DESCRIPTION |
|---|---|---|---|
| 030600-01 | 3-6-00 | G. CHURCH | ENTRANCE SURVEY CAT BACKHOE 416B # 8ZK09497 |
| 030600-02 | 3-6-00 | G. CHURCH | ENTRANCE SURVEY CAT EXCAVATOR 320L # 9KK02341 |
| 030600-03 | 3-6-00 | G. CHURCH | INITIAL CHARACTORIZATION OF SITE # 3 (DOSE)(TRENCH) |
| 030600-04 | 3-6-00 | G. CHURCH | INITIAL CHARACTORIZATION OF SITE # 3 ~~DOSE~~ POTHOLES (DOSE) |
| 030700-01 | 3-7-00 | G. CHURCH | DAILY SURVEY |
| 030700-02 | 3-7-00 | G. CHURCH | RELEASE SURVEY ON CAT 416B BACKHOE # 8ZK09497 |
| 030700-03 | 3-7-00/3-8-00 | G. CHURCH | CHARACTORIZATION OF EXCAVATED MATERIAL |
| 030800-01 | 3-8-00 | G. CHURCH | ENTRANCE SURVEY CAT BACKHOE 446B # 5BL01059 |
| 030800-02 | 3-8-00 | G. CHURCH | DAILY SURVEY |
| 030900-01 | 3-9-00 | G. CHURCH | DAILY SURVEY |
| 030900-02 | 3-9-00/3-10-00 | G. CHURCH | CHARACTORIZATION OF EXCAVATED MATERIAL |
| 031000-01 | 3-10-00 | G. CHURCH | RELEASE OF BACKHOE # 5BL01059 |
| 031000-02 | 3-10-00 | G. CHURCH | RELEASE OF TRACKHOE # 9KK02341 |
| 031000-03 | 3-10-00 | G. CHURCH | INITIAL CHARACTORIZATION OF SITE # 252 |
| 031100-01 | 3-11-00 | G. CHURCH | INITIAL CHARACTORIZATION OF SITE # 288 |
| 031100-02 | 3-11-00 | G. CHURCH | INITIAL CHARACTORIZATION OF SITE # 416 |
| | | | |
| | | | |
| | | | |

IT Corporation



# RADIOLOGICAL SURVEY FORM

Survey Number 030600-01

Survey Description: ENTRANCE SURVEY ON CAT BACKHOE 416B # 8ZK09497

Drawing Attached: Yes (No)

| Instrument (1) | |
|---|---|
| Instrument Model: | LIZ w/HP260 |
| Instrument Ser. #: | #4660 w/#012849 |
| Calibration Due: | 12-15-00 |
| Efficiency: | .11 |
| MDA: N/A | CF: 6.5 BKG: 50 |

| Instrument (3) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

Survey Date: 3-6-00

Survey by: [signature] 3-6-00

Signature Date

Print Name: GREGG D. CHURCH

Review By: /

Signature Date

| Instrument (2) | |
|---|---|
| Instrument Model: | N |
| Instrument Ser. #: | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Instrument (4) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| FRONT BUCKET | ≤ BKG | N/A | ≤ BKG | N/A | N/A | (1) | NOTE: SMEARABLE CONTAMINATION READINGS WERE DERIVED FROM GROSS AREA WIPES AND COUNTED W/ THE LIZ. ALL READINGS WERE AT OR BELOW BACKGROUND. [signature] |
| REAR BUCKET | | | | | | | |
| RF TIRE | | | | | | | |
| LF TIRE | | | | | | | |
| RR TIRE | | | | | | | |
| RF TIRE | | | | | | | |
| L. OUTRIGGER | | | | | | | |
| R. OUTRIGGER | | | | | | | |
| CAB | | | | | | | |
| | | | | N | | | |
| | | | | | A | | |

IT Corporation



# RADIOLOGICAL SURVEY FORM

Survey Number 030600-02

Survey Description: ENTRANCE SURVEY ON CAT EXCAVATOR 320L #9KK02341.

Drawing Attached: Yes (No)

Survey Date: 3-6-00

Survey by: [signature] 3-6-00
Signature Date

Print Name:

Review By:
Signature Date

**Instrument (1)**
Instrument Model: L12 w/ HP260
Instrument Ser. #: #46460 w/ #012899
Calibration Due: 12-15-00
Efficiency: .11
MDA: N/A CF: 6.5 BKG: 50

**Instrument (2)**
Instrument Model: N
Instrument Ser. #: A
Calibration Due:
Efficiency:
MDA: CF: BKG:

**Instrument (3)**
Instrument Mode: N
Instrument Ser. # A
Calibration Due:
Efficiency:
MDA: CF: BKG:

**Instrument (4)**
Instrument Mode: N
Instrument Ser. # A
Calibration Due:
Efficiency:
MDA: CF: BKG:

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| R. TRACK | ≤ BKG | N/A | ≤ BKG | N/A | N/A | (1) | NOTE: SMEARABLE READING WERE TAKEN W/ |
| L. TRACK | | | | | | | GROSS AREA WIPES, COUNTED W/ THE |
| BUCKET | | | | | | | L-12 AND ALL READINGS WERE AT OR |
| CAB | | | | | | | BELOW BACKGROUND. [signature] |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
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IT Corporation



# RADIOLOGICAL SURVEY FORM

Survey Number 030600-03

| | |
|---|---|
| Survey Description: | INITIAL DOSE RATE SURVEY OF SELECTED TRENCH LOCATIONS |
| Drawing Attached: | Yes / (No) |

| Instrument (1) | |
|---|---|
| Instrument Model: | L19 |
| Instrument Ser. #: | 152264 |
| Calibration Due: | 8-29-00 |
| Efficiency: | N/A |
| MDA: N/A | CF: N/A BKG: 8 uR/hr * |

| Instrument (3) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| | | |
|---|---|---|
| Survey Date: | 3-6-00 | |
| Survey by: | [signature] | 3-6-00 |
| | Signature | Date |
| Print Name: | | |
| Review By: | | |
| | Signature | Date |

| Instrument (2) | |
|---|---|
| Instrument Model: | N |
| Instrument Ser. #: | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Instrument (4) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| TRENCH# 1-E | | | | | 10-16 | (1) | ESTIMATED LENGTH ~120' |
| 2-E | | | | | 10-16 | | ~45' |
| 3-E | | | | | 13-18 | | ~75' |
| 4-E | | N | | | 12-17 | | ~60' |
| 5-E | | | | | 10-15 | | ~60' |
| 6-E | | | | | 12-18 | | ~120' |
| 7-E | | | | | 11-16 | | ~100' |
| 8-E | | | A | | 10-16 | | ~50' |
| H-5 | | | | | 10-16 | | ~40' |
| H-6 | | | | | 11-18 | | ~40' |
| H-7 | | | | | 12-17 | | ~50' |
| H-8 | | | | | 10-16 | | ~50' |
| N/A | | | | | N | A | N/A |

* - NOTE BACKGROUNDS IN UNAFFECTED AREAS AROUND SITE #3 WERE 12 to 20 uR/hr. DS

IT Corporation



# RADIOLOGICAL SURVEY FORM

Survey Number 030600-09

Survey Description: INITIAL SURVEY OF SELECTED POTHOLE LOCATIONS (DOSE RATE)

Drawing Attached: Yes (No)

| Instrument (1) | |
|---|---|
| Instrument Model: | L19 |
| Instrument Ser. #: | 152264 |
| Calibration Due: | 8-29-00 |
| Efficiency: | N/A |
| MDA: N/A | CF: N/A BKG: 8 uR/hr * |

| Instrument (3) | |
|---|---|
| Instrument Mode: | |
| Instrument Ser. # | |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

Survey Date: 3-6-00

Survey by: [signature] 13:00

Signature Date

Print Name:

Review By:

Signature Date

| Instrument (2) | |
|---|---|
| Instrument Model: | |
| Instrument Ser. #: | |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| Instrument (4) | |
|---|---|
| Instrument Mode: | |
| Instrument Ser. # | |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| POT HOLE # H-1 | N/A | N/A | N/A | N/A | 12-16 | (1) | RADIUS FROM ORIGINAL POINT ~ 30' |
| H-2 | | | | | 10-17 | | ~ 40' |
| H-3 | | | | | 9-16 | | ~ 30' |
| H-4 | | | | | 11-17 | | ~ 30' |

* - NOTE BACKGROUNDS IN UNAFFECTED AREAS AROUND SITE #3 WERE 12 to 20 uR/hr.

# CONTAMINATION/RADIATION SURVEY REPORT

| | |
|---|---|
| PROJECT NUMBER: | 920242 |
| LOCATION: | MCAS EL TORO |
| SURVEYOR: | G. Church |
| SITE # 3 | SURVEY NUMBER: 030700-01 |
| N/A | MAP ID: N/A |

DATE: 3-7-00 | TIME START: 1430 | TIME COMPLETE: 1500 | PAGE 1 OF 1

PERMISSIBLE LEVELS
Loose 20 dpm/100cm² Alpha 1000 dpm/100cm² Beta-Gamma
Total 100 dpm/100cm² Alpha 5000 dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)
☒ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (LOOSE) | α (TOTAL) | β-γ (LOOSE) | β-γ (TOTAL) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | N/A | L19 |
| Source Type and I.D. | Th230 | | Tc99 | | Cs-137 |
| Source Strength in dpm | 20400 | | 10100 | | ~1 µCi |
| Efficiency | .26 | | .17 | | |
| MDA in dpm/100 cm² | 16.08 | | 242 | | N/A |
| Background in cpm | 0.2 | | 68 | | 8 mrem/hr or µrem/hr |

REASON FOR SURVEY
☐ PROCEDURE-NO. N/A
☐ SPECIAL
☒ ROUTINE DAILY SURVEY

Contamination ☒ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐
Radiation ☒ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐

COMMENTS:

| | | |
|---|---|---|
| Contamination Survey INSTRUMENT SERIAL # | ALPHA (LOOSE) 2929 # 74076 | BETA-GAMMA (LOOSE) 2929 # 74076 |
| | ALPHA (TOTAL) N/A | BETA-GAMMA (TOTAL) N/A |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA L19 115224 |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

| Item # | Alpha Loose dpm/100cm² | Alpha Total N/A dpm/100cm² | Beta-Gamma Loose dpm/100cm² | Beta-Gamma Total N/A dpm/100cm² | Beta-Gamma mrem/hr ☐ mrem/hr ☒ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 3 | | -71 | | 10 | ACCESS CONTROL |
| 2 | 0 | | -53 | | 12 | TRACKHOE BUCKET |
| 3 | 0 | | 0 | | 14 | BACKHOE FRONT BUC. |
| 4 | 0 | | 24 | | 14 | -REAR BUC. |
| 5 | 0 | | -12 | | 12 | 1E-CONCRETE (1) |
| 6 | 0 | | -88 | | 13 | " " (2) |
| 7 | | | | | | |
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RADCON REVIEW [signature] DATE 3/13/00

CONTAMINATION / RADIATION SURVEY REPORT

PROJECT NUMBER: 920242

DATE: 3-7-00 | TIME START: 1500 | TIME COMPLETE: 1630 | PAGE 1 OF 1

LOCATION: MCAS EL TORO

SITE # 3

N/A

SURVEYOR: G. CHURCH

SURVEY NUMBER: 030700-02

MAP ID: N/A

PERMISSIBLE LEVELS: 20/100 dpm/100cm² Alpha; 1000/5000 dpm/100cm² Beta-Gamma

CSCA AREA CONTROL LEVELS: N/A dpm/100cm² Alpha; dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)

☒ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (Loose) | α (Fixed) | β-γ (Loose) | β-γ (Fixed) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | L12 | N/A |
| Source I.D. | Th-230 | | Tc-99 | Tc99 | |
| Source Strength | 20,100 dpm | dpm | 10,100 dpm | 10,100 dpm | μCi |
| Instrument Response | 5370 cpm | cpm | 1758 cpm | 1150 cpm | mrem/hr or μrem/hr |
| Efficiency | .26 | | .17 | .11 | |
| MDA | 1608 dpm | dpm | 242 dpm | N/A dpm | Sat. ☐ Unsat. ☐ |
| Background | 0.1 dpm cpm | dpm | 68 dpm cpm | 50 dpm cpm | mrem/hr or μrem/hr |

REASON FOR SURVEY: ☐ PROCEDURE-NO. N/A ☒ SPECIAL RELEASE SURVEY ON CAT BACKHOE 416 #8ZK09497 ☐ ROUTINE N/A

Contamination ☒ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

Radiation ☐ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

COMMENTS: * ND = Not Detectable

| Contamination Survey INSTRUMENT | SERIAL # | | |
|---|---|---|---|
| ALPHA (LOOSE) | 2929 # 74076 | BETA-GAMMA (LOOSE) | 2929 # 74076 |
| ALPHA (FIXED) | N/A | BETA-GAMMA (FIXED) | L12 # 46460 |
| Radiation Survey INSTRUMENT | SERIAL # | | |
| NEUTRON | N/A | BETA-GAMMA | N/A |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

| Item # | Alpha Equiv LOOSE dpm/100cm² | Alpha Equiv FIXED dpm/100cm² | Beta-Gamma Equiv LOOSE dpm/100cm² | Beta-Gamma Equiv FIXED dpm/100cm² | Beta-Gamma mrem/hr ☐ micro rem/hr ☐ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | N/A | 53 | ≤ BKG | N/A | BUCKET - FRONT |
| 2 | 0 | | 53 | | | - REAR |
| 3 | 0 | | 18 | | | CAB |
| 4 | 0 | | 29 | | | LF TIRE |
| 5 | 0 | | -71 | | | RR TIRE |
| 6 | 0 | | 18 | | | LEFT OUTRIGGER |
| 7 | | | | | | |
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RADCON REVIEW [signature] DATE 3-14-00

# RADIOLOGICAL SURVEY FORM

Survey Number 030700-03

| | |
|---|---|
| Survey Description: | ON CONTACT DOSE RATE SURVEY OF EXCAVATED MATERIAL |
| Drawing Attached: | Yes / No |

| Instrument (1) | |
|---|---|
| Instrument Model: | L19 |
| Instrument Ser. #: | 152264 |
| Calibration Due: | 8-29-00 |
| Efficiency: | N/A |
| MDA: N/A | CF: N/A BKG: 8uR/hr |

| Instrument (3) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| | |
|---|---|
| Survey Date: | 3/7/00 to 3-8-00 |
| Survey by: | 13-8-00 |
| | Signature Date |
| Print Name: | Greg D Church |
| Review By: | 13-14-00 |
| | Signature Date |

| Instrument (2) | |
|---|---|
| Instrument Model: | N |
| Instrument Ser. #: | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Instrument (4) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | |
| Calibration Due: | A |
| Efficiency: | |
| MDA: | CF: BKG: |

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| 1E | | | | | 13-20 | (1) | EXCAVATED MATERIAL |
| H1 | | | | | 13-16 | | |
| H2 | | N | | | 15-18 | | |
| 4E | | | | | 12-18 | | |
| 8E | | | | | 10-16 | | |
| H3 | | | | | 13-20 | | |
| H8 | | | A | | 15-20 | | |
| 2E | | | | | 10-15 | | |
| 6E | | | | | 13-18 | | |
| H7 | | | | | 15-20 | | |
| 5E | | | | | 12-17 | | 22 uR/hr on granite rock |
| H6 | | | | | 10-17 | | |
| 4E | | | | | 12-18 | | |

| CONTAMINATION / RADIATION SURVEY REPORT | PROJECT NUMBER: 920242 | DATE: 3-8-00 | TIME START: 0715 | TIME COMPLETE: 0740 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| LOCATION: MCAS EL TORO | SURVEYOR: G. CHURCH | | | | |
| SITE #3 | SURVEY NUMBER: 030800-01 | | | | |
| N/A | MAP ID: N/A | | | | |

| PERMISSIBLE LEVELS | CSCA AREA CONTROL LEVELS | ☐ OTHER (SEE COMMENTS) |
|---|---|---|
| 20/100 dpm/100cm² Alpha<br>1000/5000 dpm/100cm² Beta-Gamma | N/A dpm/100cm² Alpha<br>N/A dpm/100cm² Beta-Gamma | ☒ NO ACTION REQUIRED |

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (Loose) | α (Fixed) | β-γ (Loose) | β-γ (Fixed) | Beta-Gamma N/A |
| Instrument | 2929 | N/A | 2929 | L12 | |
| Source I.D. | Th-230 | | Tc-99 | Tc99 | |
| Source Strength | 20,400 dpm | dpm | 10,100 dpm | 10,100 dpm | μCi |
| Instrument Response | 5370 cpm | cpm | 1758 cpm | 1150 cpm | mrem/hr or μrem/hr |
| Efficiency | .26 | | .17 | .11 | |
| MDA | 16.08 dpm | dpm | 242 dpm | N/A dpm | Sat. ☐ Unsat. ☐ |
| Background | 0.2 ~~dpm~~ cpm | dpm | 68 ~~dpm~~ cpm | 50 ~~dpm~~ cpm | mrem/hr or μrem/hr |

REASON FOR SURVEY
- ☐ PROCEDURE-NO. N/A
- ☒ SPECIAL ENTRANCE ON 44B CAT BACKHOE #5BLD1059
- ☐ ROUTINE N/A

Contamination ☒ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

Radiation ☐ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

COMMENTS: * ND = Not Detectable

| Contamination Survey INSTRUMENT SERIAL # | ALPHA (LOOSE) 2929 #74076 | BETA-GAMMA (LOOSE) 2929 #74076 |
|---|---|---|
| | ALPHA (FIXED) N/A | BETA-GAMMA (FIXED) L12 #46460 |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA N/A |

| Item # | Alpha Equiv Loose dpm/100cm² | Alpha Equiv dpm/100cm² | Beta-Gamma Equiv Loose dpm/100cm² | Beta-Gamma Equiv Fixed dpm/100cm² | Beta-Gamma mrem/hr. ☐ micro rem/hr ☐ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | N/A | 0 | ≤BKG | N/A | BUCKET - FRONT |
| 2 | 0 | | 35 | | | - REAR |
| 3 | 0 | | -24 | | | CAB |
| 4 | 0 | | -12 | | | TIRE - RIGHT FRONT |
| 5 | 0 | | 6 | | | - LEFT REAR |
| 6 | 0 | | -71 | | | OUTRIGGERS |
| 7 | | | | | | |
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THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

RADCON REVIEW [signature] DATE 3-14-00

# CONTAMINATION/RADIATION SURVEY REPORT

| | |
|---|---|
| PROJECT NUMBER: | 920242 |
| LOCATION: | MCAS EL TORO |
| SURVEYOR: | G. CHURCH |
| SITE #3 | |
| SURVEY NUMBER: | 030860-02 |
| N/A | |
| MAP ID: | N/A |

DATE: 3-8-00 | TIME START: 1520 | TIME COMPLETE: 1600 | PAGE 1 OF 1

PERMISSIBLE LEVELS
Loose 20 dpm/100cm² Alpha 1000 dpm/100cm² Beta-Gamma
Total 100 dpm/100cm² Alpha 5000 dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)
☒ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (LOOSE) | α (TOTAL) | β-γ (LOOSE) | β-γ (TOTAL) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | N/A | L19 |
| Source Type and I.D. | Th-230 | | Tc-99 | | Cs-137 |
| Source Strength in dpm | 20400 | | 10100 | | ~1 µCi |
| Efficiency | .26 | | .17 | | |
| MDA in dpm/100 cm² | 1608 | | 242 | | N/A |
| Background in cpm | 0.2 | | 68 | | 8 mrem/hr or µrem/hr |

REASON FOR SURVEY
☐ PROCEDURE-NO. N/A
☐ SPECIAL
☒ ROUTINE DAILY SURVEY

Contamination ☒ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐
Radiation ☒ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐

COMMENTS:

| | | |
|---|---|---|
| Contamination Survey INSTRUMENT SERIAL # | ALPHA (LOOSE) 2929 # 74076 | BETA-GAMMA (LOOSE) 2929 # 74076 |
| | ALPHA (TOTAL) N/A | BETA-GAMMA (TOTAL) N/A |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA L19 # 152264 |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

| Item # | Alpha Loose dpm/100cm² | Alpha Total N/A dpm/100cm² | Beta-Gamma Loose dpm/100cm² | Beta-Gamma Total N/A dpm/100cm² | Beta-Gamma mrem/hr ☐ micro rem/hr ☒ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | | -76 | | 10-15 | TRENCH-2E |
| 2 | 0 | | -18 | | 12-16 | 4E |
| 3 | 3 | | -6 | | 10-16 | 6E |
| 4 | 0 | | 59 | | 11-18 | 8E |
| 5 | 3 | | -94 | | 11-15 | H4 |
| 6 | 0 | | -82 | | 10-15 | H6 |
| 7 | | | | | | |
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RADCON REVIEW [signature] DATE 3/13/00

# CONTAMINATION/RADIATION SURVEY REPORT

| | |
|---|---|
| PROJECT NUMBER: | 920242 |
| LOCATION: | MCAS EL TORO |
| SURVEYOR: | G. CHURCH |
| SITE #3 | |
| SURVEY NUMBER: | 030900-01 |
| N/A | |
| MAP ID: | N/A |

| | |
|---|---|
| DATE: | 3-9-00 |
| TIME START: | 1520 |
| TIME COMPLETE: | 1600 |
| PAGE | 1 OF 1 |

PERMISSIBLE LEVELS
Loose 20 dpm/100cm² Alpha 1000 dpm/100cm² Beta-Gamma
Total 100 dpm/100cm² Alpha 5000 dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)
☐ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (LOOSE) | α (TOTAL) | β-γ (LOOSE) | β-γ (TOTAL) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | N/A | L19 |
| Source Type and I.D. | Th230 | | Tc99 | | Cs-137 |
| Source Strength in dpm | 20400 | | 10100 | | ~1 µCi |
| Efficiency | .26 | | .17 | | |
| MDA in dpm/100 cm² | 16.08 | | 242 | | N/A |
| Background in cpm | 0.2 | | 68 | | 8 mrem/hr or µrem/hr |

REASON FOR SURVEY
☐ PROCEDURE-NO. N/A
☐ SPECIAL
☒ ROUTINE DAILY SURVEY

Contamination ☑ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐
Radiation ☒ By Shift ☐ Daily ☒ Weekly ☐ Monthly ☐

COMMENTS:

| Contamination Survey INSTRUMENT SERIAL # | ALPHA (LOOSE) 2929 # 74076 | BETA-GAMMA (LOOSE) 2929 # 74076 |
|---|---|---|
| | ALPHA (TOTAL) N/A | BETA-GAMMA (TOTAL) N/A |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA L12 # 1522LA |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

| Item # | Alpha Loose dpm/100cm² | Alpha Total N/A dpm/100cm² | Beta-Gamma Loose dpm/100cm² | Beta-Gamma Total N/A dpm/100cm² | Beta-Gamma mrem/hr ☐ micro rem/hr ☒ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | | -59 | | 10 | PORTA JOHN |
| 2 | 0 | | -29 | | 10-17 | TRENCH H5 |
| 3 | 0 | | -71 | | 12 | ACCESS CONTROL |
| 4 | 0 | | 18 | | 13 | TRACHOE |
| 5 | 0 | | -6 | | 12 | BACHHOE |
| 6 | 0 | | 6 | | 9 | COUNTING LAB |
| 7 | | | | | | |
| 8 | | | | | | |
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RADCON REVIEW [signature] DATE 3/13/00

# RADIOLOGICAL SURVEY FORM

Survey Number 030900-02

| | |
|---|---|
| Survey Description: | ON CONTACT DOSE RATE SURVEY OF EXCAVATED MATERIAL |
| Drawing Attached: | Yes / No (No) |

| Instrument (1) | |
|---|---|
| Instrument Model: | U19 |
| Instrument Ser. #: | 152264 |
| Calibration Due: | 8-29-00 |
| Efficiency: | N/A |
| MDA: N/A | CF: N/A BKG: 8 uR/hr |

| Instrument (3) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | A |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| | |
|---|---|
| Survey Date: | 3-9-00 to 3-10-00 |
| Survey by: | 13-10-00 |
| | Signature Date |
| Print Name: | Glen D Church |
| Review By: | 13-14-00 |
| | Signature Date |

| Instrument (2) | |
|---|---|
| Instrument Model: | N |
| Instrument Ser. #: | A |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| Instrument (4) | |
|---|---|
| Instrument Mode: | N |
| Instrument Ser. # | A |
| Calibration Due: | |
| Efficiency: | |
| MDA: | CF: BKG: |

| Survey Point | Smearable Contamination beta/gamma dpm/100cm^2 | Smearable Contamination alpha dpm/100cm^2 | Fixed Contamination beta/gamma dpm/100cm^2 | Fixed Contamination alpha dpm/100cm^2 | Radiation Level (uR/Hr) | Instrument Used | Additional Comments |
|---|---|---|---|---|---|---|---|
| H5 | | | | | 10-15 | 1 | EXCAVATED MATERIAL |
| 3E | | N | | | 12-18 | | |
| H4 | | | | | 10-18 | | |
| 7E | | | | | 12-17 | | |
| H9 | | | A | | 15-20 | | |
| 5E | | | | | 16-20 | | |
| 9E | | | | | 10-16 | | |
| UNMARKED TRENCH | | | | | 10-18 | | |
| | | | N | N | | | |
| | | | | | | A | |

CONTAMINATION / RADIATION SURVEY REPORT

PROJECT NUMBER: 920242

LOCATION: MCAS EL TORO

SITE # 3

N/A

SURVEYOR: G. CHURCH

SURVEY NUMBER: 031000-01

MAP ID: N/A

DATE: 3-10-00 | TIME START: 1210 | TIME COMPLETE: 1630 | PAGE 1 OF 1

PERMISSIBLE LEVELS
20/100 dpm/100cm² Alpha
1000/5000 dpm/100cm² Beta-Gamma

CSCA AREA CONTROL LEVELS
N/A dpm/100cm² Alpha
N/A dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)
☒ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (Loose) | α (Fixed) | β-γ (Loose) | β-γ (Fixed) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | L12 | N/A |
| Source I.D. | Th-230 | | Tc99 | Tc99 | |
| Source Strength | 2040 dpm | dpm | 10,100 dpm | 10,100 dpm | μCi |
| Instrument Response | 538 cpm | cpm | 1758 cpm | 1150 cpm | mrem/hr or μrem/hr |
| Efficiency | .26 | | .17 | .11 | |
| MDA | 16.08 dpm | dpm | 242 dpm | N/A dpm | Sat. ☐ Unsat. ☐ |
| Background | 0.2 dpm cpm | dpm | 68 dpm cpm | 50 dpm cpm | mrem/hr or μrem/hr |

REASON FOR SURVEY
☐ PROCEDURE-NO. N/A
☒ SPECIAL RELEASE OF CAT 446B BACKHOE # 5BLD1069
☐ ROUTINE N/A

Contamination ☒ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

Radiation ☐ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

COMMENTS: * ND = Not Detectable

| Contamination Survey INSTRUMENT SERIAL # | | |
|---|---|---|
| | ALPHA (LOOSE) 2929 # 74076 | BETA-GAMMA (LOOSE) 2929 # 74076 |
| | ALPHA (FIXED) N/A | BETA-GAMMA (FIXED) L12 # 46460 |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA N/A |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

| Item # | Alpha Equiv LOOSE dpm/100cm² | Alpha Equiv dpm/100cm² | Beta-Gamma Equiv LOOSE dpm/100cm² | Beta-Gamma Equiv FIXED dpm/100cm² | Beta-Gamma mrem/hr. ☐ micro rem/hr ☐ Neutron ☐ | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | N/A | -12 | ≤BKG | N/A | BUCKET - FRONT |
| 2 | 0 | | -88 | | | - REAR |
| 3 | 0 | | -35 | | | TIRES - LEFT |
| 4 | 0 | | -59 | | | - RIGHT |
| 5 | 0 | | -53 | | | CAB |
| 6 | 0 | | 9 | | | OUTRIGGERS |
| 7 | | | | | | |
| 8 | | | | | | |
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RADCON REVIEW [signature] DATE 3-14-00

# CONTAMINATION/RADIATION SURVEY REPORT

| | |
|---|---|
| PROJECT NUMBER: | 920242 |
| LOCATION: | MCAS EL TORO |
| SURVEYOR: | G. CHURCH |
| SITE # 3 | SURVEY NUMBER: 031000-02 |
| N/A | MAP ID: N/A |

PERMISSIBLE LEVELS
Loose 20 dpm/100cm² Alpha 1000 dpm/100cm² Beta-Gamma
Total 100 dpm/100cm² Alpha 5000 dpm/100cm² Beta-Gamma

☐ OTHER (SEE COMMENTS)
☒ NO ACTION REQUIRED

| Source Check Data | Contamination Surveys | | | | Radiation Surveys |
|---|---|---|---|---|---|
| | α (LOOSE) | α (TOTAL) | β-γ (LOOSE) | β-γ (TOTAL) | Beta-Gamma |
| Instrument | 2929 | N/A | 2929 | L12 | N/A |
| Source Type and I.D. | Th230 | | Tc99 | Tc99 | |
| Source Strength in dpm | 20400 | | 10,100 | 10,100 | µCi |
| Efficiency | .26 | | .17 | .11 | |
| MDA in dpm/100 cm² | 16.08 | | 242 | N/A | |
| Background in cpm | 0.2 | | 68 | 50 | mrem/hr µrem/hr |

REASON FOR SURVEY
☐ PROCEDURE-NO. N/A
☒ SPECIAL RELEASE ON CAT 320L TRACKHOE # 9KK02341
☐ ROUTINE N/A

Contamination ☒ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐
Radiation ☐ By Shift ☐ Daily ☐ Weekly ☐ Monthly ☐

COMMENTS:

| | | |
|---|---|---|
| Contamination Survey INSTRUMENT SERIAL # | ALPHA (LOOSE) 2929 # 74076 | BETA-GAMMA (LOOSE) 2929 # 74076 |
| | ALPHA (TOTAL) N/A | BETA-GAMMA (TOTAL) L12 # 46460 |
| Radiation Survey INSTRUMENT SERIAL # | NEUTRON N/A | BETA-GAMMA N/A |

THE KNOWING & WILLFUL RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL STATUTES.

DATE: 3-10-00 TIME START: 1220 TIME COMPLETE: 1640 PAGE 1 OF 1

| Item # | Alpha Loose dpm/100cm² | Alpha Total N/A | Beta-Gamma Loose dpm/100cm² | Beta-Gamma Total dpm/100cm² | Beta-Gamma ☐ scaler. ☐ micro rem/hr ☐ Neutron | Item or Location |
|---|---|---|---|---|---|---|
| 1 | 0 | | -35 | ≤BKG | N/A | TRACKS - RIGHT |
| 2 | 0 | | -6 | | | - LEFT |
| 3 | 0 | | -47 | | | CAB |
| 4 | 7 | | 6 | | | ENGINE |
| 5 | 0 | | -29 | | | BUCKET |
| 6 | 3 | | -29 | | | UNDER CARRIAGE |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
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| 25 | | | | | | |

RADCON REVIEW [signature] DATE 3/13/00

**IT CORPORATION**
*Member of The IT Group*

**Nuclear Radiation Instrumentation Division**

# CERTIFICATE OF INSTRUMENT CALIBRATION

CUSTOMER INFORMATION:

IT CORP

INSTRUMENT INFORMATION: Work Order # 12147

Inst. Make Ludlum Model # 19 Unit / Serial # 82249 / 152264

Probe Make N/A Model # _____ IT ID / Serial # _____

CALIBRATION DATA:

Electronic ✓ Source ✓ Efficiency _____ As Found HV 600 Plateau Determine ____ yes ✓ no

HV at Calibration 600 Pulse size 80 mV

| Scale | ELECTRONIC Input CPM | As Found | Left | SOURCE Field mR/hr uR/hr | As Found | Left |
|---|---|---|---|---|---|---|
| 5000 | 430 K | | | 2.5 | 2.3 | 2.5 |
| " | 180 K | | | 1.0 | 1.0 | 1.0 |
| | 680 K | | | 4.0 | 4.0 | 4.0 |
| 500 | 43 K | | | .25 | .23 | .25 |
| " | 18 K | | | .1 | .1 | .1 |
| " | 68 K | | | ~~.08~~ .4 | .4 | .4 |
| 250 | 21.5 K | | | .125 | .120 | .125 |
| " | 9 K | | | .05 | .05 | .05 |
| " | 34 K | | | .2 | .2 | .2 |
| 50 | 4.3 K | | | .025 | .023 | .025 |
| " | 1.8 K | | | .01 | .01 | .01 |
| " | 6.8 K | | | .04 | .04 | .04 |
| 25 | 2.15 K | | | .012 | .012 | ~~.005~~ .012 |
| " | .9 K | | | .005 | .005 | .005 |
| " | 3.4 K | | | .02 | .02 | .02 |

N/A

EFFICIENCY

| Alpha | Beta/ Gamma |
|---|---|
| Toe _____ | Toe _____ |
| Center _____ | Center _____ |
| Heel _____ | Heel _____ |
| Avg. (cpm) _____ | Avg. (cpm) _____ |
| Bkg. (cpm) _____ | Bkg. (cpm) _____ |
| _____ net (cpm) | _____ net (cpm) |
| ÷ | ÷ |
| _____ actual dpm | _____ actual dpm |
| _____ % Efficiency | _____ % Efficiency |

N/A

Pulser Make Ludlum
Model # 500
Serial # 63822
Cal. Date 9-Dec-99

Source ID 10247
Isotope Cs-137
Activity ≈ 3 Ci

Source ID _____
Isotope _____
Geometry 2π 4π
Uncertainty _____

Comments:

Calibrated by Jennilyn Crews (Name) _____ (Signature) 2/29/00 (Date)

Calibration Due 8/29/00 Reviewed by _____

1570 Bear Creek Road • Oak Ridge, Tennessee 37830 • (865) 482-6497 fax (865) 482-1890

Designer and Manufacturer of Scientific and Industrial Instruments

# CERTIFICATE OF CALIBRATION

Unit 82301

**LUDLUM MEASUREMENTS, INC.**
POST OFFICE BOX 810 PH. 915-235-5494
501 OAK STREET FAX NO. 915-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER IT CORPORATION (OAK RIDGE) ORDER NO. 241468/244813

Mfg. Ludlum Measurements, Inc. Model 12 Serial No. 46460

~~Ludlum Measurements, Inc.~~ Eberline BH Model HP-260 Serial No. RV012849

Cal. Date 15-Dec-99 Cal Due Date 15-Dec-00 Cal. Interval 1 Year Meterface 129

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 74 °F RH 20 % Alt 713.8 mm Hg

☐ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☑ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Meter Zeroed ☐ Background Subtract ☐ Input Sens. Linearity
☑ F/S Resp. ck ☑ Reset ck. ☐ Window Operation ☑ Geotropism
☑ Audio ck. ☐ Alarm Setting ck. ☑ Batt. ck. (Min. Volt) 2.2 VDC

☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 900 V Input Sens. 36 mV Det. Oper. 900 V at 36 mV Threshold Dial Ratio = mV

☐ HV Readout (2 points) Ref./Inst. / V Ref./Inst. / V

**COMMENTS:**
Instrument calibrated with a 5 foot cable.

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

| RANGE/MULTIPLIER | REFERENCE CAL. POINT | INSTRUMENT REC'D "AS FOUND READING" | INSTRUMENT METER READING* |
|---|---|---|---|
| X 1000 | 400 K cpm | N/A | 400 |
| X 1000 | 100 K cpm | | 100 |
| X 100 | 40 K cpm | | 400 |
| X 100 | 10 K cpm | | 100 |
| X 10 | 4 K cpm | | 400 |
| X 10 | 1 K cpm | | 100 |
| X 1 | 400 cpm | | 400 |
| X 1 | 100 cpm | | 100 |

*Uncertainty within ± 10% C.F. within ± 20% ALL Range(s) Calibrated Electronically

| | REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* | | REFERENCE CAL. POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
|---|---|---|---|---|---|---|---|
| Digital Readout | | | | Log Scale | | | |

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978 State of Texas Calibration License No. LO-1963

**Reference Instruments and/or Sources:**

Cs-137 Gamma S/N ☐ 1162 ☑ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☑ E551 ☐ Neutron Am-241 Be S/N T-304

☐ Alpha S/N ☐ Beta S/N ☐ Other

m 500 S/N 57885 ☐ Oscilloscope S/N ☑ Multimeter S/N 71300353

Calibrated By: Bill Henson Date 15-Dec-99

Reviewed By: Rhonda Harris Date 15 Dec 99

FORM C22A 07/30/99

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.

Designer and Manufacturer
of
Scientific and Industrial
Instruments

**LUDLUM MEASUREMENTS, INC.**
POST OFFICE BOX 810 PH. 915-235-5494
501 OAK STREET FAX NO. 915-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

# CONVERSION CHART

Customer IT CORPORATION (OAK RIDGE) Date 15-Dec-99 Order #. 241468/244813

Model 12 Serial No. 46460 Detector Model HP-260 Serial No. RN012849

Source Cs-137 194.6 mCi Cs-137 20 mCi High Voltage 900 V

Input Sensitivity 36 mV

| Reference Point | "As Found" Readings (CPM): Meter Reading | Range/Scale | After Adjustment Readings (CPM): Meter Reading | Range/Scale |
|---|---|---|---|---|
| 150 mR/hr | N/A | | 265 | X1000 |
| 50 mR/hr | | | 135 | " |
| 15 mR/hr | | | 485 | X100 |
| 5 mR/hr | | | 175 | " |
| 1.5 mR/hr | | | 60 | X100 |
| 1.0 mR/hr | | | 340 | X10 |
| | | | | |
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| | | | | |
| | | | | |

Signature: Bill Henson Date 15-Dec-99

FORM C17-1A 05/20/98

Designer and Manufacturer of Scientific and Industrial Instruments

# CERTIFICATE OF CALIBRATION

**LUDLUM MEASUREMENTS, INC.**
POST OFFICE BOX 810 PH. 915-235-5494
501 OAK STREET FAX NO. 915-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

CUSTOMER IT CORPORATION OAK RIDGE ORDER NO. 241941/245287

Ludlum Measurements, Inc. Model 2929 Unit 82283 Serial No. 74076

Mfg. Ludlum Measurements, Inc. Model 43-10-1 Serial No. PR136255

Cal. Date 14-Jan-00 Cal Due Date 14-Jan-01 Cal. Interval 1 Year Meterface 122

Check mark ☑ applies to applicable instr. and/or detector IAW mfg. spec. T. 72 °F RH 20 % Alt 721.8 mm Hg

☐ New Instrument Instrument Received ☐ Within Toler. +-10% ☐ 10-20% ☐ Out of Tol. ☑ Requiring Repair ☐ Other-See comments

☑ Mechanical ck. ☑ Window Operation

☑ Audio ck.

☑ Meter Zeroed Alpha Sensitivity 175 mV Beta Sensitivity 4 mV Beta Window 50 mV

☑ Calibrated in accordance with LMI SOP 14.8 rev 12/05/89. ☐ Calibrated in accordance with LMI SOP 14.9 rev 12/19/89.

Instrument Volt Set 875 V = 3.41 on High Voltage dial. High Voltage set with detector connected.

☑ HV Readout (2 points) Ref./Inst. 500 / 500 V Ref./Inst. 2034 / 2000 V

**COMMENTS:**
Instrument calibrated with 39"CtoC cable

Gamma Calibration: GM detectors positioned perpendicular to source except for M 44-9 in which the front of probe faces source.

| Alpha Channel Digital Readout | REFERENCE CAL POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
|---|---|---|---|
| | 400K cpm | N/A | 399842 |
| | 40K cpm | | 39992 |
| | 4K cpm | | 3999 |
| | 400 cpm | | 400 |
| | 40 cpm | | 40 |

| Beta/Gamma Channel Digital Readout | REFERENCE CAL POINT | INSTRUMENT RECEIVED | INSTRUMENT METER READING* |
|---|---|---|---|
| | 400K cpm | N/A | 399933 |
| | 40K cpm | | 39997 |
| | 4K cpm | | 3999 |
| | 400 cpm | | 400 |
| | 40 cpm | | 40 |

*Uncertainty within ± 10% C.F. within ± 20%

Ludlum Measurements, Inc. certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology, or to the calibration facilities of other International Standards Organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ANSI/NCSL Z540-1-1994 and ANSI N323-1978. State of Texas Calibration License No. LO-1963

**Reference Instruments and/or Sources:**

Cs-137 Gamma S/N ☐ 1162 ☐ G112 ☐ M565 ☐ 5105 ☐ T1008 ☐ T879 ☐ E552 ☐ E551 ☐ Neutron Am-241 Be S/N T-304

☑ Alpha S/N Pu-239 8743 ☑ Beta S/N C-14 E20C Tc-99 635/83 ☐ Other

☑ m 500 S/N 121025 ☐ Oscilloscope S/N ☑ Multimeter S/N 73760305

Calibrated By: Ronald [illegible] Date 14-Jan-00

Reviewed By: Rhonda Hamm Date 18 Jan 00

This certificate shall not be reproduced except in full, without the written approval of Ludlum Measurements, Inc.
FORM C25 12/29/1999

☐ Passed Dielectric (Hi-Pot) and Continuity Test

Designer and Manufacturer
of
Scientific and Industrial
Instruments

**LUDLUM MEASUREMENTS, INC.**
POST OFFICE BOX 810 PH. 915-235-5494
501 OAK STREET FAX NO. 915-235-4672
SWEETWATER, TEXAS 79556, U.S.A.

## *Bench Test Data For Detector*

Detector 43-10-1 Serial No. PR136255 Order #. 241941/245287

Customer IT CORPORATION OAK RIDGE Alpha Input Sensitivity 175 mV

Counter 2929 Serial No. ~~74073~~ RH 74076 Beta Input Sensitivity 4 mV

Count Time 1Minute Beta Window 50 mV

Other Distance Source to Detector Tray

| High Voltage | Background Alpha | Background Beta | Isotope Pu-239 Size 12800cpm Alpha | Isotope Pu-239 Size 12800cpm Beta | Isotope C-14 Size 0.165μCi Alpha | Isotope C-14 Size 0.165μCi Beta | Isotope Tc-99 Size 14300cpm Alpha | Isotope Tc-99 Size 14300cpm Beta |
|---|---|---|---|---|---|---|---|---|
| 825 | 0 | 37 | 10375 | 309 | 1 | 24678 | 9 | 7984 |
| 850 | 0 | 68 | 10368 | 422 | 0 | 30193 | 11 | 8506 |
| 875 | 0 | 65 | 10428 | 569 | 0 | 37750 | 14 | 8980 |
| 900 | 0 | 101 | 10265 | 1024 | 0 | 40607 | 5 | 9104 |

☐ Gas Proportional detector count rate decreased ≤ 10% after 15 hour static test using 39" cable.

☐ Gas proportional detector count rate decreased ≤ 10% after 5 hour static test using 39" cable and alpha/beta counter.

Signature Ronald [illegible] Date 14-Jan-00

FORM C4B 12/09/97

**Safety & Security Instruments**
*A Division of Science Applications International Corporation*
*An Employee-Owned Company*

# CERTIFICATE OF CALIBRATION

DATE OF CALIBRATION: October 8, 1999 SAIC JOB NO.: 19598

CALIBRATION DUE DATE: October 8, 2000

CUSTOMER: IT Corporation P.O. NO.: Credit Card

MODEL NO.: H-809VII SERIAL NO.: 6080 Unit # 82867

CAL PROCEDURE USED: 4015 REV. A

BAROMETRIC PRESSURE: 29.98 °Hg CORRECTED TO: 29.92°Hg

TEMPERATURE: 70°F CORRECTED TO: 70°F

FILTER PAPER USED: 0750-09 CARTRIDGE USED: N/A

FLOW ELEMENT: HFM229/LS-ID5A SERIAL NO.: 25
(Flow Element consists of mass flowmeter and laminar flow element)
Last Calibration Date: 07-08-1999 Calibration Due Date: 01-07-2000

HASTINGS POWER SUPPLY: Model 40 SERIAL NO.: 113035
Calibration: Not Required

| REFERENCE CFM | CALIBRATION DATA AS LEFT CFM | CALIBRATION DATA AS FOUND CFM |
|---|---|---|
| 5.0 | 4.8 | 4.8 |
| 10.0 | 9.6 | 9.6 |
| 15.0 | 14.9 | 14.9 |
| 20.0 | 20.1 | 20.1 |
| 25.0 | 25.0 | 25.0 |
| 30.0 | 30.1 | 30.1 |

Unit was Received __X__ Within _____ Outside of ±5% Accuracy.

This is to certify that SAIC Safety & Security Instruments in San Diego, California, has on this date, certified this instrument to be within ±5% accuracy at full scale. The laminar flow element referenced above bears Letters of Certification traceable to the National Institute of Standards and Technology. The accuracy of the standards used is more than four times that of the items being calibrated at full scale.

CALIBRATED BY: [illegible] QUALITY ASSURANCE: Sandy A. Brown

*16701 West Bernardo Drive, San Diego, California 92127 (800) 962-1632 or (619) 646-9830*

Eberline
INSTRUMENTS

Eberline Eastern Service Center
372 Miami Street
West Columbia, SC 29170
800 234-4212 / 803 822-8843
www.eberlineinst.com

# CERTIFICATION OF CALIBRATION

Instrument RM-14SA / HP-260

Serial Number 849 u# 82291

Calibration Standards: Cs-137 10mCi S/N 733
Cs-137 10 Ci S/N 375

Test Equipment: MP-2 S/N 192
FLUKE 8010A S/N 4530050
FLUKE 80K-40 S/N HVP-004

| Range | Calibration Point | Reading |
|---|---|---|
| X1K | 1 mR/hr | 4000 CPM |
| X10K | 10 mR/hr | 40K CPM |
| X100K | 100 mR/hr | 400K CPM |

All ranges have been checked with a pulser to read within 2% (of full scale) of nominal values.

Overrange >5M CPM High Voltage 900 Volts

Dead Time 50 μSeconds Input Sensitivity 10 mV

Calibration Standards used have calibration traceable to N.I.S.T.

Date 2-11-00 Signature Victor M Johnson

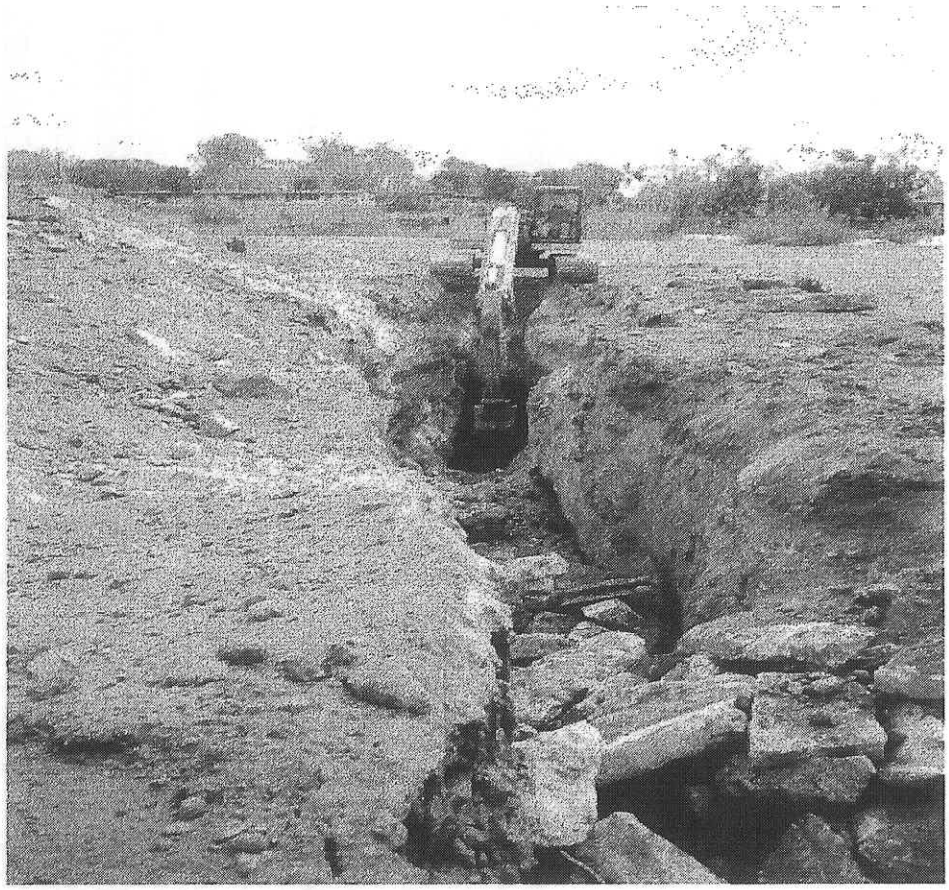
EIS TEST 3

Victor M Johnson

P.O. Number

2-16-00 EIS Q.C. 1

*Attachment C*
*Photographs*



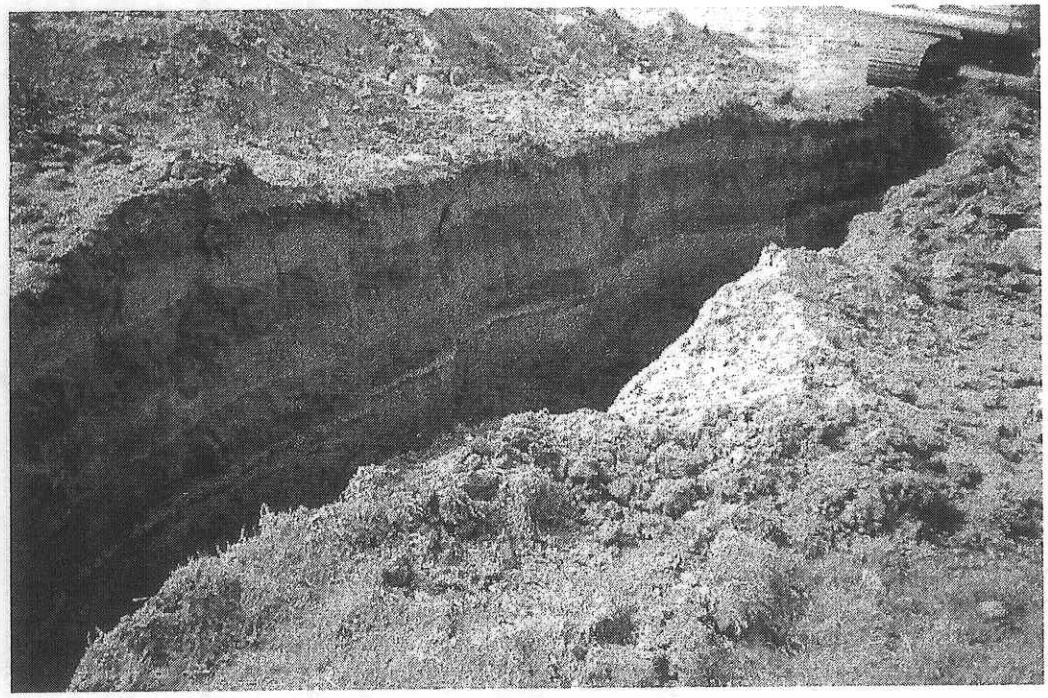
Trench 5E, view toward northeast. Note Debris

Trench 3E

Trench 3E Asbestos pipe uncovered in trench

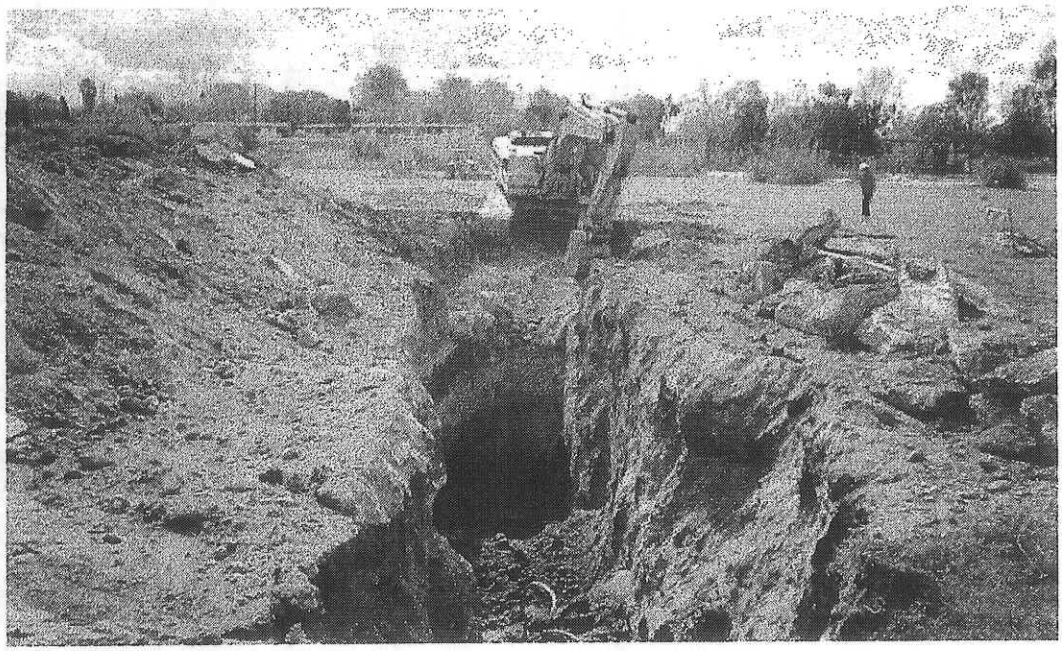
Trench 5E Concrete debris

Trench 3E North end

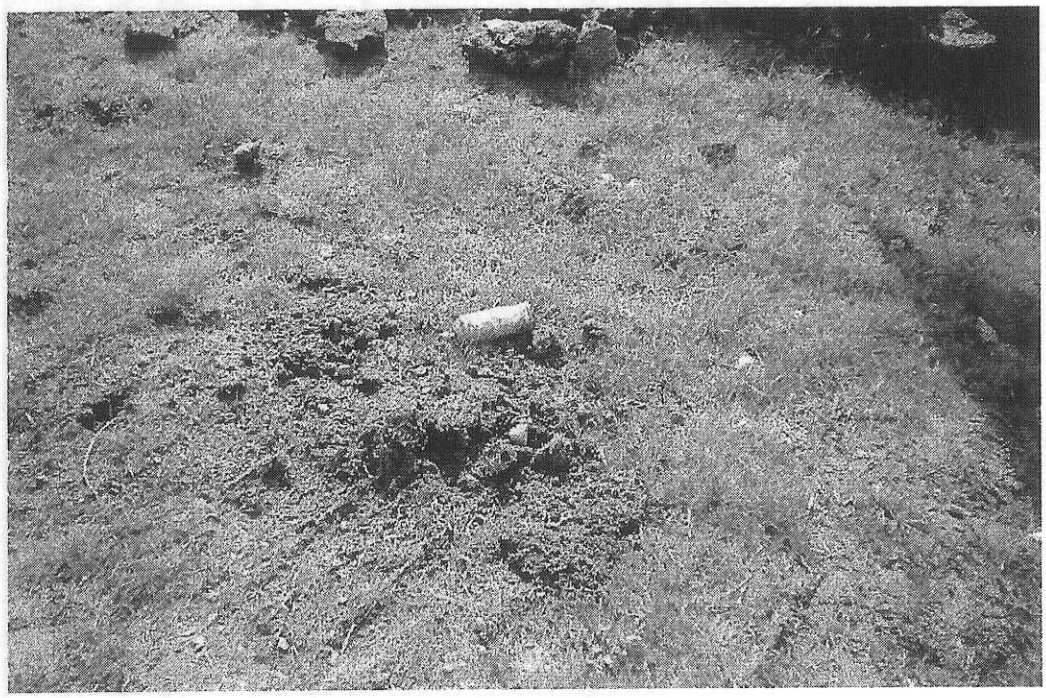


Trench 3E - Stratified shallow layers

Trench 3E Asphalt and concrete debris.



Trench 3E - Benching down to increase depth of excavation



Trench 3E - Aersol can uncovered in trench.

Trench 1E - Reinforced concrete debris

Trench 5E Excavator removing soil, backhoe filling in trench.

Trench 9E view to the south

Backhoe Excavation H6, view toward east, debris in trench