# DRAFT

# PROPOSED SUBSURFACE INTERIM MEASURES/ INTERIM REMEDIAL ACTION PLAN/ ENVIRONMENTAL ASSESSMENT AND DECISION DOCUMENT

## OPERABLE UNIT NO. 2

U.S. DEPARTMENT OF ENERGY

Rocky Flats Plant
Golden, Colorado

## ENVIRONMENTAL RESTORATION PROGRAM

**02 March 1992**

**Volume II - Appendices**

REVIEWED FOR CLASSIFICATION/UCNI
By F. J. Curran U-NU
Date 2-27-92

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## VOLUME II

U.S. Department of Energy
Rocky Flats Plant
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02 MARCH 1992

DRAFT

Prepared by:

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Rocky Flats Plant
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REVIEWED FOR CLASSIFICATION/~~UCNI~~
By F. J. Curran U-NO
Date 2-27-92

## PREFACE TO APPENDICES

The analytical data presented in Subsurface IM/IRAP/EA Appendices A and B were obtained from the Rocky Flats Environmental Database System (RFEDS). The data often include qualifiers to aid the reader in assessment of the contaminant concentrations reported. These qualifiers are defined in many of the data tables presented in the appendices. The five most common data qualifiers are briefly discussed here for the benefit of the reader.

B = Present in blank. As part of the laboratory Quality Assurance/Quality Control Program, sealed samples of distilled water accompany environmental samples as they are handled within the analytical laboratory. The distilled water samples are called laboratory blanks and are analyzed along with the environmental samples. The purpose of blank analysis is to reveal contamination of the associated environmental samples with chemicals used in the laboratory. Blank analysis often indicates the presence of volatile organic compounds commonly used as laboratory solvents (e.g., acetone and methylene chloride). When analysis of a laboratory blank associated with an environmental sample reveals the presence of a chemical, the concentration of that chemical in the environmental sample is reported with an upper case "B" (e.g., 20B parts per billion).

D = All compounds identified in an analysis at a secondary deletion faction.

E = Estimated. Laboratory analysis indicates that the contaminant concentration is above the detection limit, but its value can only be estimated due to instrument signal interference (i.e., the presence of other chemicals) and/or the concentration is above the upper range of calibration of the instrument. The accuracy of concentration measurements that are "Estimated" vary from analysis to analysis. Estimated results are reported as the numerical value followed by the upper case "E" (e.g., 70E parts per billion).

J = Present below detection limit. Laboratory analysis indicates the chemical in question is present in the sample, but at a level below the method detection limit. In this case, the concentration of the chemical can only be estimated. The accuracy of concentration estimates that are below the method detection limit vary from analysis to analysis. The estimated value is reported with an upper case "J" (e.g., 2J parts per billion).

U = Not detected. The sample was analyzed for the chemical in question, but was not detected. The result is reported as the numerical value of the method detection limit followed by an upper case "U" (e.g., 5U parts per billion).

The method detection limit for a chemical is specific to the sample analysis performed and is a function of the analysis method, instrument detection limit, and sample dilution factor. As a result, the method detection limit reported for a given chemical may vary from analysis to analysis. For example, non-detect analyses for trichloroethylene may be reported as 5U and 20U for two separate analyses.

## RADIONUCLIDE AND VOLATILE ORGANIC COMPOUND DATA

The concentration units of radionuclides in soils are reported in pCi/gram (g) with the exception of tritium which is reported in pCi/$\ell$ due to the analytical procedure. The concentration of VOC data is reported in micrograms per kilogram ($\mu$g/kg).

Uranium that is reported as the sum of all isotopes ($U_{283\text{-}234}$, $U_{235,238}$). The concentration units of the radionuclide and volatile organic compound (VOC) data in ground water and surface water are reported picoCuries per liter (pCi/$\ell$) and micrograms per liter ($\mu$g/$\ell$), respectively.

The reported concentrations of radionuclides in soil and ground water include values that are less than the corresponding calculated minimum detectable concentration and in some cases, values less than zero. Negative values result when the measured value for laboratory reagent blank (i.e., background radioactivity) is subtracted from an analytical result that was measured as a smaller value than the reagent blank. These resulting negative values are included in any arithmetic calculations on the data sit.

Radionuclide concentration data is reported in the form of a $\pm$ b. For a single measurement "a" is the reagent blank corrected value; for multiple measurement "9" represents the average value (arithmetic mean). The error term "b" accounts for the propagated statistical counting uncertainty for the sample and the associated reagent blank at the 95% confidence level. These error terms represent a minimum estimate of error for the data.

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## GLOSSARY OF ACRONYMS

| | |
|---|---|
| Am | Americium |
| ARA | Applicable or Relevant and Appropriate Requirement |
| AS | Analytical Sampling Location |
| AT | Analytical Transmitter |
| BH | Borehole |
| CAA | Clean Air Act |
| $CCl_4$ | Carbon Tetrachloride |
| CDH | Colorado Department of Health |
| CEARP | Comprehensive Environmental Assessment and Response Program |
| CEDE | Committed Effective Dose Equivalent |
| CEQ | Council of Environmental Quality |
| CERCLA | Comprehensive Environmental Resource, Compensation and Liability Act of 1980 |
| CFR | Code of Federal Regulations |
| CMS | Corrective Measures Study |
| COE | U.S. Army Corps of Engineers |
| CWA | Clean Water Act |
| d/m/g | disintegrations per minute per gram |
| DNAPL | Dense Non-Aqueous Phase Liquid |
| DOE | U.S. Department of Energy |
| DOT | U.S. Department of Transportation |
| DQO | Data Quality Objective |
| DRCOG | Denver Regional Council of Governments |
| EA | Environmental Assessment |
| EPA | U.S. Environmental Protection Agency |
| ER | Environmental Restoration (Program) |
| ERHSPP | Environmental Restoration Health and Safety Program Plan |
| ESA | Endangered Species Act |
| FFACO | Federal Facility Agreement and Consent Order |
| FI | Flow Indicator |
| FR | Federal Register |
| FS | Feasibility Study |
| ft/ft | feet per foot |
| GAC | Granular Activated Carbon |
| HA | High Alarm |
| HEPA | High Efficiency Air Particulate |
| HI | Hazard Index |
| HS | Health and Safety (Department) |
| IAG | Inter-Agency Agreement |
| IHSS | Individual Hazardous Substance Site |
| IM/IRAP | Interim Measures/Interim Remedial Action Plan |

## GLOSSARY OF ACRONYMS
(continued)

| | |
|---|---|
| LI | Level Indicator |
| mg/ℓ | milligrams per liter |
| mrem | milli radiation equivalent man |
| NCP | National Contingency Plan |
| NEPA | National Environmental Policy Act of 1969 |
| NPDES | National Pollutant Discharge Elimination System |
| 1,1,1-TCA | 1,1,1-Trichloroethane |
| OSA | Operational Safety Analysis |
| OSWER | Office of Solid Waste and Emergency Response |
| OU2 | Operable Unit No. 2 |
| PA | Protected Area |
| PCE | Tetrachloroethene |
| pCi/g | picocurie per gram |
| pCi/ℓ | picocurie per liter |
| PI | Pressure Indicator |
| PPCD | Plan for Prevention of Contaminant Dispersion |
| PSHSP | Project Specific Health and Safety Plan |
| Pu | Plutonium |
| PVC | Polyvinyl Chloride |
| QA/QC | Quality Assurance/Quality Control |
| RCRA | Resource Conservation and Recovery Act of 1986 |
| rem | radiation equivalent man |
| RFI | RCRA Facility Investigation |
| RFP | Rocky Flats Plant |
| RI | Remedial Investigation |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| SID | South Interceptor Ditch |
| SOP | Standard Operating Procedure |
| TCE | Tricholoroethene |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TI | Temperature Indicator |
| U | Uranium |
| USC | United States Code |
| USFWS | U.S. Fish and Wildlife Coordination Act |
| UV | Ultra-violet |
| VOC | Volatile Organic Compound |
| μg/ℓ | micrograms per liter |

# APPENDIX A

## SOIL SAMPLING RESULTS

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# APPENDIX A-1

## SOIL SAMPLING RESULTS
## RAW DATA

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# SOIL SAMPLING RESULTS
# VOLATILE ORGANIC COMPOUNDS

Soil Boring Volatile Organic Results
903 Pad Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B318889 | 17-NOV-89 | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | 4 U | | 4 U | |
| BH2287 | 9-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH2387 | 7-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH2487 | 8-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH2587 | 18-JUN-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH2687 | 16-JUL-87 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | 6 U | 6 U | 6 U | |
| BH2787 | 6-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH2887 | 13-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 10 U | 10 U | 10 U | 4 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B318889 | 17-NOV-89 | 9 U | 9 U | 9 U | 9 U | 4 U | 4 U | 4 U | 9 U | 4 U | 4 U | 4 U | 9 U |
| BH2287 | 9-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 48.00 JB | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH2387 | 7-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 110.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH2487 | 8-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 30.00 JB | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH2587 | 18-JUN-87 | 50.00 U | 50.00 U | 50.00 U | 110 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH2687 | 16-JUL-87 | 12 U | 12 U | 12 U | 23 | 6 U | 6 U | 6 U | 12 U | 6 U | 6 U | 6 U | 12 U |
| BH2787 | 6-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 140.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH2887 | 13-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 5 U | 10 U | 5 U | 5 U | 17 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B318889 | 17-NOV-89 | 4 U | 9 U | 4 U | 4 U | 12 B | 4 U | 4 U | 4 U | 4 U | 4 U | 9 U | 9 U |
| BH2287 | 9-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH2387 | 7-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 6.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH2487 | 8-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 6.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH2587 | 18-JUN-87 | 25.00 U | 50.00 U | 25.00 U | 11 J | 19 J | 25.00 U | 130 | 6 J | 60 | 97 | 50.00 U | 50.00 U |
| BH2687 | 16-JUL-87 | 6 U | 12 U | 6 U | 6 U | 20 B | 6 U | 6 U | 6 U | 6 U | 6 U | 12 U | 12 U |
| BH2787 | 6-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 7.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH2887 | 13-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
903 Pad Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3087 | 16-JUN-87 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3087 | 16-JUN-87 | 10 U | 10 U | 10 U | 124.2 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3087 | 16-JUN-87 | 5 U | 10 U | 5 U | 5 U | 31.6 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
J=Present below detection limit
E=Estimated Value
B=Present in blank
A=Acceptable with qualifications
V=Valid and acceptable
R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
Mound Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 29.00 | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3387 | 30-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3487 | 29-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3587 | 27-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3587 | 28-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3687 | 20-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3787 | 17-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH3887 | 14-JUL-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 99.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3387 | 30-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 130.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3487 | 29-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 210.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3587 | 27-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 310.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3587 | 28-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3687 | 20-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 19.00 J | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3787 | 17-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 48.00 JB | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH3887 | 14-JUL-87 | 50.00 U | 50.00 U | 50.00 U | 86.00 JB | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 9.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3387 | 30-JUL-87 | 25.00 U | 10.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3487 | 29-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 10.00 J | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3587 | 27-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 6.00 J | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3587 | 28-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3687 | 20-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 7.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3787 | 17-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 17.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH3887 | 14-JUL-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 12.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B217389 | 26-SEP-89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| B217589 | 17-OCT-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218189 | 06-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218189 | 07-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218189 | 08-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218589 | 10-OCT-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218589 | 10-NOV-89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| B218689 | 13-NOV-89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| B218689 | 14-NOV-89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B217389 | 26-SEP-89 | 12 U | 12 U | 12 U | 12 U | 6 U | 6 U | 6 U | 12 U | 6 U | 6 U | 6 U | 12 U |
| B217589 | 17-OCT-89 | 11 U | 11 U | 11 U | 11 U | 5 U | 5 U | 5 U | 11 U | 5 U | 5 U | 5 U | 11 U |
| B218189 | 06-NOV-89 | 9 U | 9 U | 9 U | 9 U | 5 U | 5 U | 5 U | 9 U | 5 U | 5 U | 5 U | 9 U |
| B218189 | 07-NOV-89 | 9 U | 9 U | 9 U | 9 U | 5 U | 5 U | 5 U | 9 U | 5 U | 5 U | 5 U | 9 U |
| B218189 | 08-NOV-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B218589 | 10-OCT-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B218589 | 10-NOV-89 | 11 U | 11 U | 11 U | 11 U | 6 U | 6 U | 6 U | 11 U | 6 U | 6 U | 6 U | 11 U |
| B218689 | 13-NOV-89 | 12 U | 12 U | 12 U | 12 U | 6 U | 6 U | 6 U | 12 U | 6 U | 6 U | 6 U | 12 U |
| B218689 | 14-NOV-89 | 11 U | 11 U | 11 U | 11 U | 6 U | 6 U | 6 U | 11 U | 6 U | 6 U | 6 U | 11 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B217389 | 26-SEP-89 | 6 U | 12 U | 6 U | 6 U | 3 JB | 6 U | 6 U | 1 J | 6 U | 6 U | 12 U | 12 U |
| B217589 | 17-OCT-89 | 5 U | 11 U | 5 U | 5 U | 69 B | 5 U | 5 U | 2 J | 5 U | 5 U | 11 U | 11 U |
| B218189 | 06-NOV-89 | 5 U | 9 U | 5 U | 5 U | 15 B | 5 U | 5 U | 5 U | 5 U | 5 U | 9 U | 9 U |
| B218189 | 07-NOV-89 | 5 U | 9 U | 5 U | 5 U | 19 B | 5 U | 5 U | 5 U | 5 U | 5 U | 9 U | 9 U |
| B218189 | 08-NOV-89 | 5 U | 10 U | 5 U | 5 U | 11 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B218589 | 10-OCT-89 | 5 U | 10 U | 5 U | 5 U | 210 E | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B218589 | 10-NOV-89 | 6 U | 11 U | 6 U | 6 U | 77 B | 6 U | 6 U | 1 JB | 6 U | 6 U | 11 U | 11 U |
| B218689 | 13-NOV-89 | 6 U | 12 U | 6 U | 6 U | 11 B | 6 U | 6 U | 6 U | 6 U | 6 U | 12 U | 12 U |
| B218689 | 14-NOV-89 | 6 U | 11 U | 6 U | 6 U | 14 B | 6 U | 6 U | 1 JB | 6 U | 6 U | 11 U | 11 U |

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A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 15-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218789 | 16-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218989 | 27-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B319789 | 18-JAN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| BH3987 | 12-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 14.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4087 | 13-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4187 | 17-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4287 | 18-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4287 | 19-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 15-NOV-89 | 11 U | 11 U | 11 U | 11 U | 5 U | 5 U | 5 U | 11 U | 5 U | 5 U | 5 U | 11 U |
| B218789 | 16-NOV-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B218989 | 27-NOV-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B319789 | 18-JAN-90 | 11 U | 11 U | 11 U | 10 J | 5 U | 5 U | 5 U | 11 U | 5 U | 5 U | 5 U | 11 U |
| BH3987 | 12-AUG-87 | 40.00 J | 50.00 U | 50.00 U | 79.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4087 | 13-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 140.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4187 | 17-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 150.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4287 | 18-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 71.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4287 | 19-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 110.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 15-NOV-89 | 5 U | 11 U | 5 U | 5 U | 24 B | 5 U | 5 U | 5 U | 5 U | 5 U | 11 U | 11 U |
| B218789 | 16-NOV-89 | 5 U | 10 U | 5 U | 5 U | 7 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B218989 | 27-NOV-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B319789 | 18-JAN-90 | 5 U | 11 U | 5 U | 3 J | 9 | 5 U | 5 U | 3 J | 5 U | 5 U | 11 U | 11 U |
| BH3987 | 12-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4087 | 13-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4187 | 17-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4287 | 18-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4287 | 19-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4287 | 21-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4387 | 04-JUN-87 | 6.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4387 | 04-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4387 | 08-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4487 | 09-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4587 | 28-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4587 | 31-AUG-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4687 | 3-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4687 | 02-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4287 | 21-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 78.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4387 | 04-JUN-87 | 130.00 | 50.00 U | 50.00 U | 330.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4387 | 04-SEP-87 | 120.00 | 50.00 U | 50.00 U | 300.00 | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4387 | 08-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 130.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4487 | 09-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 160.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4587 | 28-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4587 | 31-AUG-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4687 | 3-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 210.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4687 | 02-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4287 | 21-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4387 | 04-JUN-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 14.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4387 | 04-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 8.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4387 | 08-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 17.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4487 | 09-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 7.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4587 | 28-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4587 | 31-AUG-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4687 | 3-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 5.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4687 | 02-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4787 | 11-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4787 | 14-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 12.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4787 | 15-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 51.00 | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4887 | 16-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 8.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4887 | 17-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4987 | 18-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 23.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH4987 | 21-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 15.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5087 | 17-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5187 | 18-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4787 | 11-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 77.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4787 | 14-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 410.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4787 | 15-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 190.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4887 | 16-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 100.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4887 | 17-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 220.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4987 | 18-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 300.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH4987 | 21-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 91.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5087 | 17-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 1000.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5187 | 18-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 1700.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4787 | 11-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4787 | 14-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 12.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4787 | 15-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 12.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4887 | 16-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 11.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4887 | 17-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4987 | 18-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH4987 | 21-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 6.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5087 | 17-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5187 | 18-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5187 | 22-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 7.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5287 | 22-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 7.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5387 | 11-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5387 | 14-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 8.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5487 | 15-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 120.00 | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5487 | 16-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 8.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5487 | 18-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 46.00 | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5487 | 21-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 22.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5587 | 15-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 14.00 J | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5187 | 22-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 300.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5287 | 22-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 43.00 JB | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5387 | 11-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 75.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5387 | 14-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 900.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5487 | 15-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 300.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5487 | 16-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 270.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5487 | 18-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 1600.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5487 | 21-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 190.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5587 | 15-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 810.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5187 | 22-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 6.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5287 | 22-SEP-87 | 25.00 U | 00.00 U | 25.00 U | 25.00 U | 6.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5387 | 11-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 11.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5387 | 14-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 10.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5487 | 15-SEP-87 | 5.00 J | 50.00 U | 25.00 U | 25.00 U | 7.00 JB | 25.00 U | 25.00 U | 25.00 U | 13.00 J | 25.00 U | 50.00 U | 50.00 U |
| BH5487 | 16-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 11.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5487 | 18-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5487 | 21-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 14.00 JB | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5587 | 15-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 6.00 JB | 25.00 U | 25.00 U | 25.00 U | 5.00 J | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Volatile Organic Results
East Trenches Area
Results reported in ug/kg*

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5687 | 10-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |
| BH5687 | 11-SEP-87 | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | | 25.00 U | 25.00 U | 25.00 U | 25.00 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5687 | 10-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |
| BH5687 | 11-SEP-87 | 50.00 U | 50.00 U | 50.00 U | 74.00 B | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5687 | 10-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |
| BH5687 | 11-SEP-87 | 25.00 U | 50.00 U | 25.00 U | 25.00 U | 5.00 J | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 25.00 U | 50.00 U | 50.00 U |

U=Analyzed but not detected J=Present below detection limit E=Estimated Value B=Present in blank
A=Acceptable with qualifications V=Valid and acceptable R=Rejected
*='87 data reported on wet-weight basis; '89 data reported on dry-weight basis

# SOIL SAMPLING RESULTS
# TOTAL METALS

Soil Boring Total Metal Results
903 Pad Area
Results reported in mg/kg**

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 5890 | 12.0 U | 3.3 | 39.9 U | 1.0 U | 1.0 U | 13900 | 200 U | 16.0 | 10 U | 7.0 | 6740 | 3.5 | 20.0 U |
| B318889 | 17-NOV-89 | 5920 | 11.2 U | 2.5 | 50.8 | 0.94 U | 0.94 U | 64800 | 468 U | 5.9 | 9.4 U | 6.7 | 5550 | 2.2 | 18.7 U |
| BH2287 | 9-JUL-87 | 14000 | 12.00 U | 2.6 | 61 | 1.00 U | 1.4 | 70100 | | 5.8 | 10.00 U | 5.00 U | 10200 | 1.6 | |
| BH2387 | 7-JUL-87 | 12000 | 12.00 U | 6.4 | 212 | 1.00 U | 3.2 | 3650 | | 18 | 10.00 U | 19 | 16800 | 7.5 | |
| BH2487 | 8-JUL-87 | 4040 | 6.3 U | 11 | .035 | 1.140 | 1.140 U | 1600 | | 3.64 | 4.54 U | 4.54 U | 4020 | 16.9 | 11.3 U |
| BH2587 | 18-JUN-87 | 17400 | 12.00 U | 5.4 | 119 | 1.00 U | 4.6 | 4220 | | 20 | 10.00 U | 9.5 | 18500 | 12.3 | |
| BH2687 | 16-JUL-87 | 16300 | 6.8 U | 17.8 | 216 | 1.22 U | 1.22 U | 24700 | | 15.6 | 5.61 | 19.8 | 12500 | 22.8 | 12.71 |
| BH2787 | 6-JUL-87 | 18900 | 12.00 U | 8.7 | 100 | 1.00 U | 5.4 | 2840 | | 19 | 10.00 U | 8.2 | 16100 | 8.0 | |
| BH2887 | 13-JUL-87 | 6930 | 12 U | 3.5 | 99 | 1.00 U | 1.6 | 4560 | | 6.7 | 10.00 U | 5.00 U | 5660 | 9.9 | |
| BH3087 | 16-JUN-87 | 5320 | 5.6 U | 7.88 | 66 | 1 U | 1 U | 79000 | | 6.2 | 4 U | 6.4 | 6040 | 5.18 | 10 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 1550 | 144 | 0.10 U | 20.0 U | 11.9 | 998 U | 1.0 U | 2.0 U | 998 U | 200 U | 2.1 U | 20.0 U | 17.4 | 29.4 |
| B318889 | 17-NOV-89 | 1900 | 72.8 | 0.10 U | 18.7 U | 7.7 | 936 U | 0.84 U | 1.9 U | 936 U | 71.5 | 1.7 U | 18.7 U | 21.9 | 23.4 |
| BH2287 | 9-JUL-87 | 3600 | 109 | 0.18 | | 8.00 U | 1140 | 1.00 U | 2.00 U | 1000 U | 74 | 2.00 U | | 16 | 18 |
| BH2387 | 7-JUL-87 | 3180 | 1080 | 0.19 | | 16 | 1930 | 1.00 U | 2.00 U | 1000 U | 14 J | 2.00 U | | 40 | 37 |
| BH2487 | 8-JUL-87 | 752 | 39.3 | .10 U | | 5.45 U | 649 | .35 U | .46 U | 175 | 5.32 | .48 U | | 9.32 | 10.9 |
| BH2587 | 18-JUN-87 | 3400 | 246 | 0.1 U | | 9.8 | 3020 | 1.00 U | 2.00 U | 1000 U | 20 U | 2.00 U | | 35 | 49 |
| BH2687 | 16-JUL-87 | 3700 | 169 | .10 U | | 13.4 | 1635 | .31 U | .51 U | 427 | 87.6 | .530 U | | 50.5 | 48.5 |
| BH2787 | 6-JUL-87 | 3350 | 356 | 0.1 U | | 10 | 2320 | 1.00 U | 2.00 U | 1000 U | 12.2 J | 2.00 U | | 39 | 40 |
| BH2887 | 13-JUL-87 | 1270 | 35 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 17 J | 2.00 U | | 11 | 30 |
| BH3087 | 16-JUN-87 | 1680 | 117 | .10 U | | 9 | 1022 | .4 U | .4 U | 232 | 70.2 | .44 U | | 12.4 | 12.2 |

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U=Analyzed by not detected J=Present below detection limit E=Estimated Value
**= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Total Metal Results
Mound Area
Results reported in mg/kg**

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 4720 | 12.00 U | 8.4 | 73 | 1.00 U | 1.00 U | 32400 | | 4.1 | 10.00 U | 7.6 | 9240 | 7.1 | |
| BH3387 | 30-JUL-87 | 23200 | 12.00 U | 11 | 76 | 1.00 U | 3.7 | 25800 | | 13 | 10.00 U | 5.4 | 18900 | 5.2 | |
| BH3487 | 29-JUL-87 | 12600 | 12.00 U | 7.3 | 89 | 1.00 U | 1.1 | 116000 | | 6.5 | 10.00 U | 5.00 U | 10300 | 5.1 | |
| BH3587 | 27-JUL-87 | 8300 | 12.00 U | 13 | 50 | 1.00 U | 1.00 U | 77900 | | 8.3 | 10.00 U | 5.00 U | 7130 | 3.5 | |
| BH3587 | 28-JUL-87 | 11900 | 12.00 U | 7.4 | 54 | 1.00 U | 2.2 | 7600 | | 13 | 10.00 U | 8.2 | 17500 | 3.7 | |
| BH3687 | 20-JUL-87 | 9020 | 12.00 U | 5.3 | 100 | 1.00 U | 1.3 | 136000 | | 2.00 U | 10.00 U | 5.00 U | 7760 | 9.4 | |
| BH3787 | 17-JUL-87 | 9580 | 12.00 U | 7.5 | 57 | 1.00 U | 3.2 | 15800 | | 11 | 10.00 U | 6.4 | 11600 | 5.0 | |
| BH3887 | 14-JUL-87 | 8580 | 12.00 U | 9.6 | 59 | 1.00 U | 2.2 | 48600 | | 2.00 U | 10.00 U | 5.00 U | 7160 | 7.5 | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 1440 | 230 | 0.13 | | 10 | 1000 U | 1.00 U | 2.00 U | 1000 U | 30 | 2.00 U | | 26 | 46 |
| BH3387 | 30-JUL-87 | 5260 | 146 | 0.1 U | | 8.0 | 1750 | 1.00 U | 2.00 U | 1000 U | 24 | 2.00 U | | 21 | 34 |
| BH3487 | 29-JUL-87 | 2900 | 113 | 0.1 U | | 8.00 U | 1230 | 1.00 U | 2.00 U | 1000 U | 58 | 2.00 U | | 18 | 18 |
| BH3587 | 27-JUL-87 | 1880 | 78 | 0.1 U | | 8.7 | 1000 U | 1.00 U | 2.00 U | 1000 U | 43 | 2.00 U | | 17 | 12 |
| BH3587 | 28-JUL-87 | 3030 | 162 | 0.1 U | | 14 | 1020 | 1.00 U | 2.00 U | 1000 U | 36 | 2.00 U | | 33 | 31 |
| BH3687 | 20-JUL-87 | 3160 | 100 | 0.1 U | | 8.00 U | 1100 | 1.00 U | 2.00 U | 1000 U | 120 | 2.00 U | | 13 | 20 |
| BH3787 | 17-JUL-87 | 2640 | 160 | 0.1 U | | 15 | 1470 | 1.00 U | 2.00 U | 1000 U | 32 | 2.00 U | | 19 | 31 |
| BH3887 | 14-JUL-87 | 1890 | 122 | 0.1 U | | 11 | 1000 U | 1.00 U | 2.00 U | 1000 U | 36 | 2.00 U | | 12 | 19 |

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Soil Boring Total Metal Results
East Trenches Area
Results reported in mg/kg**

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B217389 | 26-SEP-89 | 9050 | 13.0 U | 4.7 | 110 | 1.1 U | 1.1 U | 143000 | 216 U | 7.1 | 10.8 U | 5.4 U | 6130 | 4.7 | 21.6 U |
| B217589 | 17-OCT-89 | 9780 | 15.3 | 4.8 | 52.7 | 1.1 U | 1.1 U | 1600 | 214 U | 18.6 | 10.7 U | 6.0 | 8240 | 11.1 | 21.4 U |
| B218189 | 06-NOV-89 | 7920 | 11.6 U | 2.2 U | 99.2 | 1.1 | 0.96 U | 75600 | 482 U | 8.2 | 9.6 U | 13.0 | 7490 | 4.5 | 19.3 U |
| B218189 | 08-NOV-89 | 1650 | 12.5 U | 1.7 U | 41.6 U | 1.0 U | 1.0 U | 3010 | 520 U | 2.1 U | 10.4 U | 6.0 | 1140 | 6.7 | 20.8 U |
| B218589 | 10-OCT-89 | 10200 | 12.5 U | 4.0 | 112 | 1.0 U | 1.0 U | 109000 | 209 U | 8.4 | 10.4 U | 5.2 U | 8000 | 4.6 | 20.9 U |
| B218689 | 13-NOV-89 | 8230 | 12.8 U | 3.2 | 87.6 | 1.1 U | 1.1 U | 109000 | 212 U | 8.6 | 10.6 U | 5.3 U | 5380 | 3.5 | 21.2 U |
| B218789 | 15-NOV-89 | 5410 | 12.4 U | 2.5 | 41.3 U | 1.0 U | 1.0 U | 17800 | 207 U | 7.8 | 10.3 U | 8.4 | 5550 | 3.1 | 20.7 U |
| B218789 | 16-NOV-89 | 4810 | 12.8 | 3.9 | 41.1 U | 1.0 U | 1.0 U | 1110 | 206 U | 8.5 | 10.3 U | 6.6 | 7380 | 4.3 | 20.6 U |
| B218989 | 27-NOV-89 | 6060 | 102 U | 5.1 | 72.8 | 0.41 U | 0.81 U | 25800 | 204 U | 7.7 | 4.1 U | 5.5 | 6710 | 5.0 | 5.3 |
| B319789 | 18-JAN-90 | 10800 | 106 U | 6.1 | 96.5 | 1.2 | 0.85 U | 54000 | 1000 U | 9.8 | 7.4 | 8.3 | 8920 | 6.1 | 7.0 |
| B319789 | 22-JAN-90 | 9520 | 115 U | 9.3 | 79.2 | 1.7 | 0.92 U | 3580 | 1000 U | 14.6 | 12.8 | 13.7 | 12600 | 14.8 | 5.5 |
| BH3987 | 12-AUG-87 | 15500 | 12.00 U | 26 | 66 | 1.00 U | 6.2 | 16100 | | 8.7 | 10.00 U | 8.2 | 15400 | 6.2 | |
| BH4087 | 13-AUG-87 | 7900 | 12.00 U | 15 | 69 | 1.00 U | 2.2 | 32000 | | 7.7 | 10.00 U | 9.8 | 10700 | 8.5 | |
| BH4187 | 17-AUG-87 | 6960 | 12.00 U | 12 | 52 | 1.00 U | 1.4 | 27300 | | 32 | 10.00 U | 5.9 | 9220 | 4.4 | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B217389 | 26-SEP-89 | 4830 | 141 | 0.14 | 21.6 U | 15.4 | 1080 U | 6.5 | 2.2 U | 1080 U | 279 | 4.6 U | 21.6 U | 20.5 | 33.3 |
| B217589 | 17-OCT-89 | 1200 | 113 | 0.22 | 21.4 U | 8.6 U | 1130 | 1.1 U | 2.1 U | 1070 U | 214 U | 2.1 U | 21.4 U | 22.8 | 130 |
| B218189 | 06-NOV-89 | 2420 | 115 | 0.13 U | 19.3 U | 11.7 | 1650 | 1.1 U | 1.9 U | 965 U | 67.0 | 2.2 U | 29.1 | 22.2 | 21.2 |
| B218189 | 08-NOV-89 | 1040 U | 6.9 | 0.11 U | 20.8 U | 8.3 U | 1040 U | 0.85 U | 2.1 U | 1040 U | 24.1 | 1.7 U | 20.8 U | 10.4 U | 14.0 |
| B218589 | 10-OCT-89 | 2970 | 82.4 | 0.13 | 20.9 U | 15.5 | 1040 U | 1.0 U | 2.1 U | 1040 U | 209 U | 2.1 U | 20.9 U | 20.3 | 65.8 |
| B218689 | 13-NOV-89 | 2420 | 75.7 | 0.33 | 21.2 U | 12.8 | 1060 U | 1.0 U | 2.1 U | 1060 U | 212 U | 2.1 U | 21.2 U | 17.6 | 59.4 |
| B218789 | 15-NOV-89 | 1400 | 59.1 | 0.24 | 20.7 U | 10.3 | 1030 U | 1.0 U | 2.1 U | 1030 U | 207 U | 2.1 U | 20.7 U | 14.4 | 56.1 |
| B218789 | 16-NOV-89 | 1030 U | 137 | 0.24 | 20.6 U | 8.2 U | 1030 U | 1.0 U | 2.1 U | 1030 U | 206 U | 2.1 U | 20.6 U | 19.9 | 72.9 |
| B218989 | 27-NOV-89 | 1400 | 101 | 0.080 | 102 U | 12.3 | 891 | 0.42 U | 6.1 U | 60.5 | 34.3 | 0.62 U | 204 U | 17.0 | 15.3 |
| B319789 | 18-JAN-90 | 2610 | 244 | 0.095 | 106 U | 23.9 | 1360 | 2.0 U | 6.4 U | 71.6 | 62.6 | 0.60 U | 212 U | 20.3 | 17.5 |
| B319789 | 22-JAN-90 | 2540 | 220 | 0.12 U | 115 U | 33.2 | 1610 | 2.5 U | 6.9 U | 90.1 | 42.0 | 0.74 U | 231 U | 36.1 | 56.7 |
| BH3987 | 12-AUG-87 | 2660 | 69 | 0.1 U | | 14 | 1340 | 1.00 U | 2.00 U | 1000 U | 23 | 2.00 U | | 33 | 26 |
| BH4087 | 13-AUG-87 | 2090 | 526 | 0.1 U | | 19 | 1000 U | 1.00 U | 2.00 U | 1000 U | 28 | 2.00 U | | 28 | 25 |
| BH4187 | 17-AUG-87 | 1540 | 213 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 26 | 2.00 U | | 17 | 15 |

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Soil Boring Total Metal Results
East Trenches Area
Results reported in mg/kg**

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4287 | 18-AUG-87 | 9570 | 12.00 U | 15 | 69 | 1.00 U | 2.2 | 52700 | | 14 | 10.00 U | 11 | 8420 | 3.9 | |
| BH4287 | 19-AUG-87 | 4900 | 12.00 U | 9.3 | 46 | 1.00 U | 1.00 U | 2160 | | 4.0 | 10.00 U | 7.8 | 6000 | 8.0 | |
| BH4287 | 21-AUG-87 | 1700 | 12.00 U | 9.0 | 40.00 U | 1.00 U | 1.00 U | 1000.00 | | 3.2 | 10.00 U | 5.00 U | 3470 | 1.7 | |
| BH4387 | 04-JUN-87 | 4660 | 12.00 U | 2.2 | 40.00 U | 1.00 U | 1.7 | 3216 | | 17 | 10.00 U | 5.9 | 7040 | 1.6 | |
| BH4387 | 04-SEP-87 | 6420 | 12.00 U | 2.8 | 45.5 | 1.00 U | 2.2 | 79300 | | 2.4 | 10.00 U | 5.00 U | 8130 | 2.7 | |
| BH4387 | 08-SEP-87 | 6400 | 12.00 U | 2.00 U | 40.00 U | 1.00 U | 2.8 | 1589 | | 34 | 10.00 U | 6.5 | 8010 | 2.4 | |
| BH4487 | 09-SEP-87 | 9070 | 12.00 U | 4.9 | 40.00 U | 1.00 U | 2.1 | 1830 | | 9.0 | 10.00 U | 10 | 9100 | 6.4 | |
| BH4587 | 31-AUG-87 | 10300 | 12.00 U | 10 | 40 | 1.00 U | 3.4 | 58800 | | 12 | 10.00 U | 5.00 U | 15700 | 6.4 | |
| BH4687 | 2-SEP-87 | 8830 | 12.00 U | 3.0 | 82.8 | 1.00 U | 2.3 | 11684 | | 16 | 10.00 U | 8.1 | 9650 | 4.1 | |
| BH4687 | 3-SEP-87 | 7960 | 12.00 U | 2.0 | 151.4 | 1.1 | 6.2 | 4409 | | 8.6 | 11 | 27 | 42700 | 8.8 | |
| BH4787 | 11-SEP-87 | 9440 | 12.00 U | 11.7 | 68 | 1.00 U | 1.4 | 108000 | | 4.8 | 10.00 U | 5.00 U | 8900 | 4.6 | |
| BH4787 | 14-SEP-87 | 6760 | 12.00 U | 4.3 | 40.00 U | 1.00 U | 1.00 U | 1640 | | 16 | 10.00 U | 8.2 | 9930 | 4.8 | |
| BH4787 | 15-SEP-87 | 5640 | 12.00 U | 3.4 | 58 | 1.00 U | 1.00 U | 4000 | | 6.9 | 11.8 | 5.00 U | 5950 | 7.6 | |
| BH4887 | 16-SEP-87 | 12700 | 12.00 U | 22.8 | 56.6 | 1.00 U | 2.4 | 109000 | | 9.3 | 10.00 U | 5.00 U | 10200 | 5.4 | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4287 | 18-AUG-87 | 2240 | 121 | 0.1 U | | 16 | 1240 | 1.00 U | 2.00 U | 1000 U | 54 | 2.00 U | | 24 | 17 |
| BH4287 | 19-AUG-87 | 1000.00 | 156 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 19 J | 2.00 U | | 21 | 27 |
| BH4287 | 21-AUG-87 | 1000.00 | 34 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 11 | 12 |
| BH4387 | 04-JUN-87 | 1171 | 107 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 14 | 5.1 |
| BH4387 | 04-SEP-87 | 1984 | 50 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 27 | 2.00 U | | 14 | 4.00 U |
| BH4387 | 08-SEP-87 | 1296 | 92 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 15 | 9.4 |
| BH4487 | 09-SEP-87 | 1520 | 145 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 15 | 6.7 |
| BH4587 | 31-AUG-87 | 3020 | 101 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 48 | 2.00 U | | 27 | 20 |
| BH4687 | 2-SEP-87 | 1581 | 249 | 0.1 U | | 10 | 1063 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 21 | 9.5 |
| BH4687 | 3-SEP-87 | 1798 | 584 | 0.18 | | 40 | 1000 U | 1.00 U | 2.00 U | 1372 | 26 | 2.00 U | | 51 | 124 |
| BH4787 | 11-SEP-87 | 2640 | 57 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 79 | 2.00 U | | 18 | 8.5 |
| BH4787 | 14-SEP-87 | 1850 | 138 | 0.1 U | | 9.7 | 1140 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 16 | 18.8 |
| BH4787 | 15-SEP-87 | 1530 | 73.1 | 0.1 U | | 26.8 | 1000 U | 1.00 U | 2.00 U | 1000 U | 33.7 | 2.00 U | | 12.6 | 33.4 |
| BH4887 | 16-SEP-87 | 3110 | 63.6 | 0.1 U | | 11.9 | 1200 | 1.00 U | 2.00 U | 1000 U | 76.8 | 2.00 U | | 25.1 | 21 |

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Soil Boring Total Metal Results
East Trenches Area
Results reported in mg/kg**

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4887 | 17-SEP-87 | 10300 | 12.00 U | 12.3 | 40.00 U | 1.00 U | 1.6 | 4920 | | 6.0 | 10.00 U | 5.00 U | 5300 | 10.6 | |
| BH4987 | 18-SEP-87 | 9250 | 12.00 U | 13.7 | 42 | 1.00 U | 2.4 | 23000 | | 15.2 | 10.00 U | 10.5 | 9690 | 2.8 | |
| BH4987 | 21-SEP-87 | 6640 | 12.00 U | 3.8 | 40.00 U | 1.00 U | 1.00 U | 1760 | | 7.5 | 10.00 U | 6.2 | 8830 | 2.9 | |
| BH5087 | 17-SEP-87 | 9560 | 12.00 U | 11.4 | 40.00 U | 1.00 U | 2.7 | 2450 | | 11.3 | 10.00 U | 13.1 | 14800 | 1.2 | |
| BH5187 | 18-SEP-87 | 25300 | 12.00 U | 28.4 | 99 | 1.00 U | 5.6 | 4080 | | 20.6 | 10.00 U | 11.2 | 20200 | 45.6 | |
| BH5187 | 22-SEP-87 | 12000 | 12.00 U | 3.4 | 40.00 U | 1.00 U | 1.00 U | 26100 | | 13.3 | 10.00 U | 7.5 | 10500 | 3.6 | |
| BH5287 | 22-SEP-87 | 12600 | 12.00 U | 4.8 | 112 | 1.00 U | 1.2 | 175000 | | 9.1 | 10.00 U | 5.00 U | 8780 | 4.3 | |
| BH5387 | 11-SEP-87 | 9850 | 12.00 U | 8.9 | 140 | 1.00 U | 2.3 | 75600 | | 7.3 | 10.00 U | 6.9 | 9320 | 7.2 | |
| BH5387 | 14-SEP-87 | 5530 | 12.00 U | 3.0 | 40.00 U | 1.00 U | 1.00 U | 1170 | | 6.1 | 10.00 U | 6.3 | 8000 | 2.5 | |
| BH5487 | 15-SEP-87 | 3620 | 12.00 U | 3.1 | 154 | 1.00 U | 1.00 U | 169000 | | 2.00 U | 10.00 U | 5.00 U | 3830 | 1.8 | |
| BH5487 | 16-SEP-87 | 15100 | 12.00 U | 29.6 | 53.4 | 1.00 U | 2.1 | 58300 | | 10.5 | 10.00 U | 8.2 | 14600 | 3.6 | |
| BH5487 | 18-SEP-87 | 24200 | 12.00 U | 30.8 | 79 | 1.1 | 5.5 | 4620 | | 24.6 | 10.00 U | 17.3 | 19700 | 6.8 | |
| BH5487 | 21-SEP-87 | 11900 | 12.00 U | 5.5 | 64.8 | 1.00 U | 1.9 | 2540 | | 10.4 | 10.00 U | 11.8 | 12000 | 5.5 | |
| BH5587 | 15-SEP-87 | 11900 | 12.00 U | 12.7 | 91 | 1.00 U | 2.4 | 80000 | | 3.8 | 10.00 U | 5.00 U | 10100 | 2.1 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH4887 | 17-SEP-87 | 1970 | 15.7 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 29.1 | 2.00 U | | 13.8 | 20.6 |
| BH4987 | 18-SEP-87 | 1800 | 170 | 0.30 | | 25.5 | 1260 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 22.2 | 14.8 |
| BH4987 | 21-SEP-87 | 1360 | 147 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 22.9 | 17.6 |
| BH5087 | 17-SEP-87 | 1710 | 203 | 0.12 | | 12.5 | 1250 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 36 | 19.8 |
| BH5187 | 18-SEP-87 | 2810 | 144 | 0.15 | | 15.8 | 2620 | 1.00 U | 2.00 U | 1000 U | 27 | 2.00 U | | 36.2 | 36.2 |
| BH5187 | 22-SEP-87 | 2840 | 75.4 | 0.14 | | 8.00 U | 1310 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 13.8 | 16.9 |
| BH5287 | 22-SEP-87 | 4070 | 68.4 | 0.15 | | 9.6 | 1400 | 1.00 U | 2.00 U | 1000 U | 170 | 2.00 U | | 18.8 | 17.8 |
| BH5387 | 11-SEP-87 | 2350 | 228 | 0.1 U | | 8.5 | 1970 | 1.00 U | 2.00 U | 1000 U | 59 | 2.00 U | | 28 | 30 |
| BH5387 | 14-SEP-87 | 2470 | 74.1 | 0.1 U | | 8.00 U | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 15.1 | 14.6 |
| BH5487 | 15-SEP-87 | 2630 | 37.1 | 0.1 U | | 9.2 | 1000 U | 1.00 U | 2.00 U | 1000 U | 196 | 2.00 U | | 11 | 10.3 |
| BH5487 | 16-SEP-87 | 3500 | 79.4 | 0.1 U | | 12 | 1620 | 1.00 U | 2.00 U | 1000 U | 45.6 | 2.00 U | | 36.7 | 23.9 |
| BH5487 | 18-SEP-87 | 4950 | 165 | 0.1 U | | 16 | 4170 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 40.2 | 48.2 |
| BH5487 | 21-SEP-87 | 2490 | 164 | 0.1 U | | 8.5 | 1760 | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 21.5 | 26.7 |
| BH5587 | 15-SEP-87 | 2710 | 78.4 | 0.1 U | | 19.5 | 1250 | 1.00 U | 2.00 U | 1000 U | 72.7 | 2.00 U | | 25.2 | 20.2 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5687 | 10-SEP-87 | 5860 | 12.00 U | 4.7 | 40.00 U | 1.00 U | 1.4 | 13300 | | 14 | 10.00 U | 11 | 8500 | 2.4 | |
| BH5687 | 11-SEP-87 | 4090 | 12.00 U | 7.1 | 40.00 U | 1.00 U | 1.00 U | 4630 | | 5.8 | 10.00 U | 6.7 | 8150 | 3.1 | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH5687 | 10-SEP-87 | 1380 | 292 | 0.1 U | | 8.0 | 1000 U | 1.00 U | 2.00 U | 1000 U | 16 J | 2.00 U | | 22 | 4.4 |
| BH5687 | 11-SEP-87 | 1120 | 94 | 0.1 U | | 8.8 | 1000 U | 1.00 U | 2.00 U | 1000 U | 20.00 U | 2.00 U | | 25 | 11 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed by not detected J=Present below detection limit E=Estimated Value
**= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

# SOIL SAMPLING RESULTS
# INORGANIC COMPOUNDS

Soil Boring Inorganic Results
903 Pad Area
Results reported in mg/kg* except PH

| Well Number | Date Sampled | Cyanide | Sulfide | Nitrate/Nitrite | Oil and Grease | PH |
|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | | 2 U | 3.1 | | 7.8 |
| B318889 | 17-NOV-89 | | 2 U | 1.7 | | 8.4 |
| BH2287 | 9-JUL-87 | 1.25 U | 200 U | | 1.7 U | 8.75 |
| BH2387 | 7-JUL-87 | 10.4 | 200 U | | 1.7 U | 8.15 |
| BH2487 | 8-JUL-87 | 1.49 | 200 U | | 261 | 7.43 |
| BH2587 | 18-JUN-87 | 2.5 U | 200 U | | 1.7 U | 8.50 |
| BH2687 | 16-JUL-87 | 0.25 U | 200 U | | 5 U | 8.28 |
| BH2787 | 6-JUL-87 | 19.8 | 200 U | | 1.7 U | 8.35 |
| BH2887 | 13-JUL-87 | 1.25 U | 200 U | | 1.7 U | 8.35 |
| BH3087 | 16-JUN-87 | 1.25 U | 200 U | | 1.7 U | 8.35 |

U=Analyzed but not detected J=Present below detection limit E=Estimated value
*= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Inorganic Results
Mound Area
Results reported in mg/kg* except PH

| Well Number | Date Sampled | Cyanide | Sulfide | Nitrate/Nitrite | Oil and Grease | PH |
|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 2.5 U | | | | 8.97 |
| BH3387 | 30-JUL-87 | 2.5 U | 200 U | | | 8.75 |
| BH3487 | 29-JUL-87 | 2.5 U | 200 U | | | 8.78 |
| BH3587 | 27-JUL-87 | 2.5 U | 200 U | | | 8.94 |
| BH3587 | 28-JUL-87 | 2.5 U | 200 U | | | 8.75 |
| BH3687 | 20-JUL-87 | 2.5 U | 200 U | | 1.7 U | 9.25 |
| BH3787 | 17-JUL-87 | 2.5 U | 200 U | | 1.7 U | 8.83 |
| BH3887 | 14-JUL-87 | 1.25 U | 200 U | | 1.7 U | 9.17 |

U=Analyzed but not detected J=Present below detection limit E=Estimated value
*= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Inorganic Results
East Trenches Area
Results reported in mg/kg* except PH

| Well Number | Date Sampled | Cyanide | Sulfide | Nitrate/Nitrite | Oil and Grease | PH |
|---|---|---|---|---|---|---|
| B215389 | 31-OCT-89 | | 2 U | 1.0 | | 8.7 |
| B215389 | 06-NOV-89 | | 2 U | 1.2 U | | 7.9 |
| B217389 | 26-SEP-89 | | 2 U | 1.7 | | 8.4 |
| B217589 | 17-OCT-89 | | 4 | 1.9 | | 7.0 |
| B218189 | 06-NOV-89 | | 3 U | 1.8 | | 7.7 |
| B218189 | 08-NOV-89 | | 2 U | 1.3 | | 8.4 |
| B218589 | 10-OCT-89 | | 2 U | 2.4 | | 7.8 |
| B218689 | 13-NOV-89 | | 2 U | 2.6 | | 8.6 |
| B218789 | 15-NOV-89 | | 2 U | 1.1 U | | 8.4 |
| B218789 | 16-NOV-89 | | 2 U | 1.1 U | | 8.7 |
| B218989 | 27-NOV-89 | | 2 U | 1.1 U | | 8.0 |
| B319789 | 18-JAN-90 | | 2 | 1.6 | | 6.9 |
| B319789 | 22-JAN-90 | | 2 U | 4.3 | | 7.9 |
| BH3987 | 12-AUG-87 | 2.5 | 200 U | | 1.7 | 7.87 |
| BH4087 | 13-AUG-87 | 2.5 | 200 U | | 1.7 | 8.67 |
| BH4187 | 17-AUG-87 | 2.5 U | 200 U | | 1.7 U | 8.57 |
| BH4287 | 18-AUG-87 | 2.5 U | 200 U | | 1.7 U | 8.37 |
| BH4287 | 19-AUG-87 | 2.5 U | 200 U | | 1.7 U | 7.91 |
| BH4287 | 21-AUG-87 | 2.5 U | 200 U | | 1.7 U | 8.05 |
| BH4387 | 04-JUN-87 | 2.5 U | 200 U | | 1.7 U | 8.80 |
| BH4387 | 04-SEP-87 | 2.5 U | 200 U | | 1.7 U | |
| BH4387 | 08-SEP-87 | 2.5 U | 200 U | | | 8.20 |
| BH4487 | 09-SEP-87 | 2.5 U | 200 U | | 1.7 U | 7.70 |
| BH4587 | 31-AUG-87 | 2.5 U | 200 U | | 1.7 U | 8.87 |
| BH4687 | 2-SEP-87 | 2.5 U | 200 U | | 1.7 U | 8.34 |
| BH4687 | 3-SEP-87 | 2.5 U | 200 U | | 1.7 U | 8.11 |
| BH4787 | 11-SEP-87 | 2.5 U | 200 U | | | 8.22 |
| BH4787 | 14-SEP-87 | | 200 U | | | 7.84 |
| BH4787 | 15-SEP-87 | 2.5 U | 200 U | | | 8.53 |
| BH4887 | 16-SEP-87 | | 200 U | | | 7.65 |
| BH4887 | 17-SEP-87 | | 200 U | | | 7.52 |
| BH4987 | 18-SEP-87 | | 200 U | | 15.0 | 7.74 |
| BH4987 | 21-SEP-87 | | 200 U | | | 7.42 |
| BH5087 | 17-SEP-87 | | 200 U | | | 7.78 |
| BH5187 | 18-SEP-87 | 3.33 | 200 U | | | 8.02 |
| BH5187 | 22-SEP-87 | | 200 U | | | 7.42 |
| BH5287 | 22-SEP-87 | | 200 U | | | 7.83 |

U=Analyzed but not detected J=Present below detection limit E=Estimated value
*= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

Soil Boring Inorganic Results
East Trenches Area
Results reported in mg/kg* except PH

| Well Number | Date Sampled | Cyanide | Sulfide | Nitrate/Nitrite | Oil and Grease | PH |
|---|---|---|---|---|---|---|
| BH5387 | 11-SEP-87 | 2.5 U | 200 U | | | 7.55 |
| BH5387 | 14-SEP-87 | | 200 U | | | 8.41 |
| BH5487 | 15-SEP-87 | 2.5 U | 200 U | | | 8.54 |
| BH5487 | 16-SEP-87 | | 200 U | | | 8.38 |
| BH5487 | 18-SEP-87 | | 200 U | | | 7.65 |
| BH5487 | 21-SEP-87 | | 200 U | | | 7.65 |
| BH5587 | 15-SEP-87 | 2.5 U | 200 U | | | 7.43 |
| BH5687 | 10-SEP-87 | | 200 U | | 1.7 U | 8.73 |
| BH5687 | 11-SEP-87 | 2.5 U | 200 U | | | 8.59 |

U=Analyzed but not detected J=Present below detection limit E=Estimated value
*= '87 data reported on wet-weight basis; '89 data reported on dry-weight basis

# SOIL SAMPLING RESULTS
# RADIONUCLIDES

Soil Boring Radiochemistry Results
903 Pad Area

| Well Number | Date Sampled | Gross Alpha (pCi/g) | Gross Beta (pCi/g) | Uranium Total* (pCi/g) | Strontium 90 (pCi/g) | Plutonium 239/240 (pCi/g) | Americium 241 (pCi/g) | Tritium (pCi/l) |
|---|---|---|---|---|---|---|---|---|
| B315289 | 26-OCT-89 | 41.8 +/- 6.1 | 19.8 +/- 4.2 | 0.34 | 0.15 +/- 0.57 | 13.0 +/- 0.2 | | 36500 +/- 1500 |
| B318889 | 17-NOV-89 | | | 1.05 | -0.06 +/- 0.29 | 0.020 +/- 0.010 | | -140 +/- 200 |
| BH2287 | 9-JUL-87 | 32 +/- 14 | 22 +/- 6 | 0.61 | -0.1 +/- 0.4 | 0.06 +/- 0.08 | 0.02 +/- 0.10 | 140 |
| BH2387 | 7-JUL-87 | 30 +/- 12 | 16 +/- 6 | 0.38 | 1.1 +/- 0.5 | 1.1 +/- 0.2 | 0.10 +/- 0.12 | -290 |
| BH2487 | 8-JUL-87 | 300 +/- 40 | 26 +/- 6 | 0.75 | -0.1 +/- 0.6 | 94 +/- 6 | 11 +/- 2 | 90 |
| BH2587 | 18-JUN-87 | 29 +/- 13 | 27 +/- 6 | 2.09 | 0.4 +/- 0.5 | 0.06 +/- 0.07 | -0.03 +/- 0.08 | 150 |
| BH2687 | 16-JUL-87 | 190 +/- 30 | 20 +/- 6 | 2.1 | 0.0 +/- 0.4 | 83 +/- 2 | 12 +/- 1 | 20 |
| BH2787 | 6-JUL-87 | 40 +/- 14 | 26 +/- 6 | 0.27 | 0.8 +/- 0.5 | 3.8 +/- 0.4 | 0.44 +/- 0.15 | 30 |
| BH2887 | 13-JUL-87 | 39 +/- 14 | 21 +/- 6 | 2.5 | -0.1 +/- 0.5 | 2.0 +/- 0.3 | 0.24 +/- 0.17 | -30 |
| BH3087 | 16-JUN-87 | 480 +/- 50 | 5.4 +/- 5.4 | 1.35 | 0.1 +/- 0.4 | 180 +/- 10 | 22 +/- 6 | -100 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Soil Boring Radiochemistry Results
Mound Area

| Well Number | Date Sampled | Gross Alpha (pCi/g) | Gross Beta (pCi/g) | Uranium Total* (pCi/g) | Strontium 90 (pCi/g) | Plutonium 239/240 (pCi/g) | Americium 241 (pCi/g) | Tritium (pCi/l) |
|---|---|---|---|---|---|---|---|---|
| BH3287 | 3-AUG-87 | 25 +/- 14 | 14 +/- 6 | 1.09 | -0.1 +/- 0.6 | 0.33 +/- 0.17 | -0.06 +/- 0.11 | 80 |
| BH3387 | 30-JUL-87 | 25 +/- 14 | 24 +/- 7 | 0.78 | 0.6 +/- 0.6 | 0.14 +/- 0.20 | 0.04 +/- 0.13 | 230 |
| BH3487 | 29-JUL-87 | 18 +/- 13 | 16 +/- 6 | 0.7 | 0.0 +/- 0.5 | -0.08 +/- 0.16 | -0.02 +/- 0.07 | -20 |
| BH3587 | 27-JUL-87 | 17 +/- 13 | 9.8 +/- 6.2 | 0.93 | -0.4 +/- 0.6 | 1.5 +/- 0.2 | 0.40 +/- 0.19 | 40 |
| BH3587 | 28-JUL-87 | 18 +/- 12 | 15 +/- 6 | 1.53 | 0.2 +/- 0.6 | 0.06 +/- 0.13 | 0.02 +/- 0.04 | 220 |
| BH3687 | 20-JUL-87 | 12 +/- 11 | 15 +/- 6 | 2.9 | 0.1 +/- 0.5 | 0.53 +/- 0.16 | 0.04 +/- 0.18 | -100 |
| BH3787 | 17-JUL-87 | 29 +/- 13 | 22 +/- 6 | 1.09 | 0.0 +/- 0.4 | -0.06 +/- 0.07 | -0.02 +/- 0.16 | -180 |
| BH3887 | 14-JUL-87 | 17 +/- 11 | 25 +/- 6 | 0.8 | 0.1 +/- 0.5 | 0.08 +/- 0.13 | -0.01 +/- 0.02 | 120 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Soil Boring Radiochemistry Results
East Trenches Area

| Well Number | Date Sampled | Gross Alpha (pCi/g) | Gross Beta (pCi/g) | Uranium Total* (pCi/g) | Strontium 90 (pCi/g) | Plutonium 239/240 (pCi/g) | Americium 241 (pCi/g) | Tritium (pCi/l) |
|---|---|---|---|---|---|---|---|---|
| B215389 | 31-OCT-89 | 9.0 +/- 3.0 | 14.4 +/- 3.7 | 1.9 | 0.37 +/- 0.37 | 0.131 +/- 0.036 | 0.031 +/- 0.015 | -150 +/- 290 |
| B217389 | 26-SEP-89 | 11.2 +/- 2.9 | 27.4 +/- 4.9 | 2.3 | 0.26 +/- 0.33 | 0.364 +/- 0.045 | | -30 +/- 270 |
| B217589 | 17-OCT-89 | 15.2 +/- 4.0 | 22.9 +/- 4.0 | 0.77 | 0.52 +/- 0.48 | 0.645 +/- 0.047 | | 500 +/- 550 |
| B218189 | 06-NOV-89 | 13.1 +/- 4.2 | 6.9 +/- 3.2 | 0.92 | 0.19 +/- 0.37 | .118 +/- .033 | 0.068 +/- 0.025 | 220 +/- 280 |
| B218189 | 08-NOV-89 | 51.1 +/- 6.6 | 29.6 +/- 4.5 | 1.84 | 0.27 +/- 0.35 | 0.011 +/- 0.008 | 0.005 +/- 0.007 | -210 +/- 270 |
| B218589 | 10-OCT-89 | 25.0 +/- 5.2 | 21.2 +/- 4.5 | 0.75 | 0.20 +/- 0.36 | 0.633 +/- 0.072 | | 170 +/- 200 |
| B218689 | 13-NOV-89 | 19.6 +/- 5.2 | 19.0 +/- 4.3 | 1.09 | 0.35 +/- 0.38 | 2.864 +/- 0.285 | | 270 +/- 90 |
| B218789 | 15-NOV-89 | 8.6 +/- 2.1 | 11.5 +/- 4.1 | 0.77 | 0.27 +/- 0.27 | 1.604 +/- 0.164 | 0.256 +/- 0.054 | 470 +/- 220 |
| B218789 | 16-NOV-89 | 10.7 +/- 1.7 | 15.5 +/- 4.1 | 0.56 | 0.17 +/- 0.36 | 0.015 +/- 0.009 | 0.002 +/- 0.004 | 130 +/- 190 |
| B218989 | 27-NOV-89 | | | 0.59 | 0.08 +/- 0.38 | 0.020 +/- 0.014 | | 200 +/- 220 |
| B319789 | 18-JAN-90 | 4.2 +/- 3.0 | 10.3 +/- 3.7 | 1.31 | 0.42 +/- 0.30 | 0.018 +/- 0.008 | 0.003 +/- 0.007 | |
| B319789 | 22-JAN-90 | 6.4 +/- 4.3 | 22.6 +/- 4.7 | 1.31 | 0.12 +/- 0.57 | 0.005 +/- 0.005 | 0.005 +/- 0.010 | |
| BH3987 | 12-AUG-87 | 31 +/- 14 | 21 +/- 6 | | 0.5 +/- 0.5 | 0.03 +/- 0.10 | 0.01 +/- 0.09 | 110 |
| BH4087 | 13-AUG-87 | 26 +/- 13 | 24 +/- 7 | | 0.8 +/- 0.3 | -0.03 +/- 0.10 | 0.12 +/- 0.10 | -230 |
| BH4187 | 17-AUG-87 | 13 +/- 10 | 16 +/- 6 | 1.59 | 0.2 +/- 0.5 | 0.17 +/- 0.18 | -0.01 +/- 0.08 | -290 |
| BH4287 | 18-AUG-87 | 23 +/- 11 | 23 +/- 6 | 0.89 | 0.2 +/- 0.4 | 0.18 +/- 0.14 | 0.07 +/- 0.09 | -190 |
| BH4287 | 19-AUG-87 | 16 +/- 10 | 20 +/- 6 | 1.58 | 0.0 +/- 0.4 | -0.09 +/- 0.11 | 0.00 +/- 0.09 | 390 |
| BH4287 | 21-AUG-87 | 30 +/- 11 | 9.9 +/- 5.3 | 0.65 | 0.2 +/- 0.4 | -0.06 +/- 0.11 | -0.01 +/- 0.08 | 170 |
| BH4387 | 04-JUN-87 | 24 +/- 14 | 17 +/- 6 | 0.87 | 0.5 +/- 0.6 | -0.03 +/- 0.09 | 0.01 +/- 0.08 | -300 |
| BH4387 | 04-SEP-87 | 14 +/- 13 | 20 +/- 6 | 0.87 | 0.1 +/- 0.5 | 0.09 +/- 0.12 | -0.03 +/- 0.07 | 180 |
| BH4387 | 08-SEP-87 | 15 +/- 12 | 21 +/- 6 | 1.17 | -0.3 +/- 0.5 | -0.04 +/- 0.09 | 0.04 +/- 0.10 | -100 |
| BH4487 | 09-SEP-87 | 40 +/- 14 | 27 +/- 6 | 1.61 | 0.1 +/- 0.5 | 0.07 +/- 0.09 | -0.02 +/- 0.08 | 190 |
| BH4587 | 31-AUG-87 | 23 +/- 10 | 20 +/- 6 | 0.89 | 0.1 +/- 0.4 | 0.09 +/- 0.11 | 0.03 +/- 0.11 | 50 |
| BH4687 | 2-SEP-87 | 30 +/- 11 | 18 +/- 6 | 1.41 | 0.0 +/- 0.6 | 0.06 +/- 0.17 | -0.02 +/- 0.06 | 20 |
| BH4687 | 3-SEP-87 | 42 +/- 16 | 31 +/- 6 | 1.33 | -0.5 +/- 1.0 | 0.09 +/- 0.12 | 0.03 +/- 0.10 | 220 |
| BH4787 | 11-SEP-87 | 20 +/- 13 | 22 +/- 6 | 1.11 | -0.1 +/- 0.5 | 0.01 +/- 0.13 | 0.06 +/- 0.09 | 90 |
| BH4787 | 14-SEP-87 | 17 +/- 11 | 16 +/- 6 | 0.84 | 0.4 +/- 0.6 | 0.03 +/- 0.10 | 0.09 +/- 0.11 | -300 |
| BH4787 | 15-SEP-87 | 21 +/- 11 | 21 +/- 6 | 1.45 | 0.3 +/- 0.7 | 0.01 +/- 0.10 | -0.02 +/- 0.09 | -180 |
| BH4887 | 16-SEP-87 | 12 +/- 13 | 18 +/- 6 | 0.97 | 0.2 +/- 0.3 | 0.15 +/- 0.14 | 0.02 +/- 0.07 | -10 |
| BH4887 | 17-SEP-87 | 15 +/- 12 | 25 +/- 6 | 0.96 | 0.0 +/- 0.5 | 0.03 +/- 0.10 | 0.03 +/- 0.07 | 140 |
| BH4987 | 18-SEP-87 | 21 +/- 12 | 14 +/- 6 | 1.02 | 0.0 +/- 0.4 | 0.10 +/- 0.13 | 0.02 +/- 0.07 | -40 |
| BH4987 | 21-SEP-87 | 36 +/- 15 | 18 +/- 6 | 0.54 | -0.1 +/- 0.5 | -0.01 +/- 0.11 | 0.04 +/- 0.07 | 180 |
| BH5087 | 17-SEP-87 | 11 +/- 10 | 18 +/- 6 | 0.96 | -0.1 +/- 0.6 | -0.01 +/- 0.11 | 0.02 +/- 0.06 | -260 |
| BH5187 | 22-SEP-87 | 24 +/- 14 | 31 +/- 6 | 1.06 | 0.2 +/- 0.4 | -0.06 +/- 0.08 | 0.05 +/- 0.10 | 110 |
| BH5287 | 22-SEP-87 | 11 +/- 13 | 16 +/- 6 | 1.74 | -0.2 +/- 0.4 | 0.58 +/- 0.17 | 0.14 +/- 0.10 | 100 |
| BH5387 | 11-SEP-87 | 28 +/- 14 | 22 +/- 7 | 1.35 | 0.3 +/- 0.5 | 6.0 +/- 0.2) | 0.53 +/- 0.20 | 230 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Soil Boring Radiochemistry Results
East Trenches Area

| Well Number | Date Sampled | Gross Alpha (pCi/g) | Gross Beta (pCi/g) | Uranium Total* (pCi/g) | Strontium 90 (pCi/g) | Plutonium 239/240 (pCi/g) | Americium 241 (pCi/g) | Tritium (pCi/l) |
|---|---|---|---|---|---|---|---|---|
| BH5387 | 14-SEP-87 | 19 +/- 12 | 19 +/- 6 | 1.06 | 0.0 +/- 0.5 | 0.03 +/- 0.15 | 0.03 +/- 0.09 | 0 |
| BH5487 | 15-SEP-87 | 5.5 +/- 6.6 | 11 +/- 5 | 0.94 | 0.2 +/- 0.5 | 0.31 +/- 0.14 | 0.05 +/- 0.09 | -30 |
| BH5487 | 16-SEP-87 | 14 +/- 13 | 20 +/- 6 | 0.88 | -0.2 +/- 0.5 | 0.02 +/- 0.09 | -0.04 +/- 0.05 | 130 |
| BH5487 | 18-SEP-87 | 23 +/- 13 | 12 +/- 6 | 0.75 | 0.3 +/- 0.5 | 0.00 +/- 0.09 | -0.03 +/- 0.05 | 170 |
| BH5487 | 21-SEP-87 | 14 +/- 12 | 27 +/- 6 | 0.78 | 0.1 +/- 0.5 | -0.01 +/- 0.09 | 0.06 +/- 0.08 | 120 |
| BH5587 | 15-SEP-87 | 23 +/- 12 | 20 +/- 6 | 0.86 | -0.1 +/- 0.5 | 0.06 +/- 0.09 | -0.03 +/- 0.08 | 30 |
| BH5687 | 10-SEP-87 | 16 +/- 10 | 20 +/- 6 | 0.89 | 0.1 +/- 0.4 | -0.07 +/- 0.12 | 0.04 +/- 0.06 | -270 |
| BH5687 | 11-SEP-87 | 54 +/- 17 | 27 +/- 6 | 7.3 | 0.5 +/- 0.6 | -0.04 +/- 0.12 | 0.08 +/- 0.10 | -250 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

# APPENDIX A-2

## SOIL SAMPLING RESULTS
## SUMMARY TABLES

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# SOIL SAMPLING RESULTS
# SUMMARY TABLES FOR VOLATILE ORGANIC COMPOUNDS

Summary Table for Soil-Boring Volatile Organic Contaminants
903 Pad Area
Results reported in ug/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 10 | 10 | 0 | 17.05 | 9 U | |
| Bromomethane | 10 | 10 | 0 | 17.05 | 9 U | |
| Vinyl Chloride | 10 | 10 | 0 | 17.05 | 9 U | |
| Chloroethane | 10 | 10 | 0 | 17.05 | 9 U | |
| Methylene Chloride | 10 | 2 | 8 | 14.36 | 6.00 J | 31.6 B |
| Acetone | 10 | 2 | 8 | 61.87 | 4 J | 140.00 B |
| Carbon Disulfide | 10 | 10 | 0 | 8.50 | 4 U | |
| 1,1-Dichloroethene | 10 | 10 | 0 | 8.50 | 4 U | |
| 1,1-Dichloroethane | 10 | 10 | 0 | 8.50 | 4 U | |
| Trans-1,2-Dichloroethene | 8 | 8 | 0 | 10.06 | 5 U | |
| 1,2-Dichloroethene (total) | 2 | 2 | 0 | 2.25 | 4 U | |
| Chloroform | 10 | 10 | 0 | 8.50 | 4 U | |
| 1,2-Dichloroethane | 10 | 10 | 0 | 8.50 | 4 U | |
| 2-Butanone | 10 | 10 | 0 | 17.05 | 9 U | |
| 1,1,1-Trichloroethane | 10 | 10 | 0 | 8.50 | 4 U | |
| Carbon Tetrachloride | 10 | 10 | 0 | 8.50 | 4 U | |
| Vinyl Acetate | 10 | 10 | 0 | 17.05 | 9 U | |
| Bromodichloromethane | 10 | 10 | 0 | 8.50 | 4 U | |
| 1,2-Dichloropropane | 10 | 10 | 0 | 8.50 | 4 U | |
| cis-1,3-Dichloropropene | 10 | 10 | 0 | 8.50 | 4 U | |
| Trichloroethene | 10 | 9 | 1 | 16.95 | 4 U | 97 |
| Dibromochloromethane | 10 | 10 | 0 | 8.50 | 4 U | |
| 1,1,2-Trichloroethane | 10 | 10 | 0 | 8.50 | 4 U | |
| Benzene | 10 | 10 | 0 | 8.50 | 4 U | |
| Trans-1,3-Dichloropropene | 10 | 10 | 0 | 8.50 | 4 U | |
| 2-Chloroethylvinylether | 0 | 0 | 0 | | | |
| Bromoform | 10 | 10 | 0 | 8.50 | 4 U | |
| 4-Methyl-2-pentanone | 10 | 10 | 0 | 17.05 | 9 U | |
| 2-Hexanone | 10 | 10 | 0 | 17.05 | 9 U | |
| Tetrachloroethene | 10 | 9 | 1 | 20.25 | 4 U | 130 |
| 1,1,2,2-Tetrachloroethane | 10 | 10 | 0 | 8.50 | 4 U | |
| Toluene | 10 | 9 | 1 | 7.85 | 4 U | 6 J |
| Chlorobenzene | 10 | 10 | 0 | 8.50 | 4 U | |
| Ethylbenzene | 10 | 9 | 1 | 8.35 | 4 U | 11 J |
| Styrene | 10 | 10 | 0 | 8.50 | 4 U | |
| Total Xylenes | 10 | 9 | 1 | 13.25 | 4 U | 60 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B315289, B318889, BH2287, BH2387, BH2487, BH2587, BH2687, BH2787, BH2887, BH3087

Summary Table for Soil-Boring Volatile Organic Contaminants
Mound Area
Results reported in ug/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 8 | 8 | 0 | 22.14 | 10.00 U | |
| Bromomethane | 8 | 8 | 0 | 25.00 | 50.00 U | |
| Vinyl Chloride | 8 | 8 | 0 | 25.00 | 50.00 U | |
| Chloroethane | 8 | 8 | 0 | 25.00 | 50.00 U | |
| Methylene Chloride | 8 | 4 | 4 | 11.79 | 7.00 J | 17.00 JB |
| Acetone | 8 | 1 | 7 | 108.5 | 19.00 J | 310.00 |
| Carbon Disulfide | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,1-Dichloroethene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,1-Dichloroethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Trans-1,2-Dichloroethene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,2-Dichloroethene (total) | 0 | 0 | 0 | | | |
| Chloroform | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,2-Dichloroethane | 8 | 7 | 1 | 14.86 | 25.00 U | 29.00 |
| 2-Butanone | 8 | 8 | 0 | 25.00 | 50.00 U | |
| 1,1,1-Trichloroethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Carbon Tetrachloride | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Vinyl Acetate | 8 | 8 | 0 | 25.00 | 50.00 U | |
| Bromodichloromethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,2-Dichloropropane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| cis-1,3-Dichloropropene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Trichloroethene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Dibromochloromethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,1,2-Trichloroethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Benzene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Trans-1,3-Dichloropropene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 2-Chloroethylvinylether | 0 | 0 | 0 | | | |
| Bromoform | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 4-Methyl-2-pentanone | 8 | 8 | 0 | 25.00 | 50.00 U | |
| 2-Hexanone | 8 | 8 | 0 | 25.00 | 50.00 U | |
| Tetrachloroethene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| 1,1,2,2-Tetrachloroethane | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Toluene | 8 | 6 | 2 | 11.68 | 6.00 J | 10.00 J |
| Chlorobenzene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Ethylbenzene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Styrene | 8 | 8 | 0 | 12.50 | 25.00 U | |
| Total Xylenes | 8 | 8 | 0 | 12.50 | 25.00 U | |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: BH3287, BH3387, BH3487, BH3587, BH3687, BH3787, BH3887

Summary Table for Soil-Boring Volatile Organic Contaminants
East Trenches Area
Results reported in ug/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 47 | 47 | 0 | 18.72 | 00.00 U | |
| Bromomethane | 47 | 47 | 0 | 18.96 | 9 U | |
| Vinyl Chloride | 47 | 47 | 0 | 18.96 | 9 U | |
| Chloroethane | 47 | 47 | 0 | 18.96 | 9 U | |
| Methylene Chloride | 47 | 17 | 30 | 17.64 | 3 JB | 210 E |
| Acetone | 47 | 16 | 31 | 216.1 | 9 U | 1700.00 B |
| Carbon Disulfide | 47 | 47 | 0 | 9.47 | 5 U | |
| 1,1-Dichloroethene | 47 | 47 | 0 | 9.47 | 5 U | |
| 1,1-Dichloroethane | 47 | 47 | 0 | 9.47 | 5 U | |
| Trans-1,2-Dichloroethene | 34 | 34 | 0 | 12.50 | 25.00 U | |
| 1,2-Dichloroethene (total) | 13 | 13 | 0 | 2.66 | 5 U | |
| Chloroform | 47 | 46 | 1 | 9.40 | 5 U | 5.00 J |
| 1,2-Dichloroethane | 47 | 33 | 14 | 11.24 | 5 U | 120.00 |
| 2-Butanone | 47 | 44 | 3 | 22.10 | 9 U | 130.00 |
| 1,1,1-Trichloroethane | 47 | 46 | 1 | 9.39 | 5 U | 6.00 J |
| Carbon Tetrachloride | 47 | 47 | 0 | 9.47 | 5 U | |
| Vinyl Acetate | 47 | 47 | 0 | 18.96 | 9 U | |
| Bromodichloromethane | 47 | 47 | 0 | 9.47 | 5 U | |
| 1,2-Dichloropropane | 47 | 47 | 0 | 9.47 | 5 U | |
| cis-1,3-Dichloropropene | 47 | 47 | 0 | 9.47 | 5 U | |
| Trichloroethene | 47 | 47 | 0 | 9.47 | 5 U | |
| Dibromochloromethane | 47 | 47 | 0 | 9.47 | 5 U | |
| 1,1,2-Trichloroethane | 47 | 47 | 0 | 9.47 | 5 U | |
| Benzene | 47 | 47 | 0 | 9.47 | 5 U | |
| Trans-1,3-Dichloropropene | 47 | 47 | 0 | 9.47 | 5 U | |
| 2-Chloroethylvinylether | 0 | 0 | 0 | | | |
| Bromoform | 47 | 47 | 0 | 9.47 | 5 U | |
| 4-Methyl-2-pentanone | 47 | 47 | 0 | 18.96 | 9 U | |
| 2-Hexanone | 47 | 47 | 0 | 18.96 | 9 U | |
| Tetrachloroethene | 47 | 47 | 0 | 9.47 | 5 U | |
| 1,1,2,2-Tetrachloroethane | 47 | 47 | 0 | 9.47 | 5 U | |
| Toluene | 47 | 42 | 5 | 9.32 | 1 J | 3 J |
| Chlorobenzene | 47 | 47 | 0 | 9.47 | 5 U | |
| Ethylbenzene | 47 | 46 | 1 | 9.49 | 3 J | 3 J |
| Styrene | 47 | 47 | 0 | 9.47 | 5 U | |
| Total Xylenes | 47 | 45 | 2 | 9.19 | 5 U | 13.00 J |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B217389, B217589, B218189, B218589, B218689, B218789, B218989, B319789, BH3987, BH4087, BH4187, BH4287, BH4387, BH4487,

# SOIL SAMPLING RESULTS
# SUMMARY TABLES FOR TOTAL METALS

Summary Table for Soil Boring Total Metal Contaminants
903 Pad Area
Results reported in mg/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 10 | 0 | 10 | 10670.00 | 4040 | 18900 |
| Antimony (Sb) | 10 | 10 | 0 | 5.0950 | 5.6 U | |
| Arsenic (As) | 10 | 0 | 10 | 6.9080 | 2.5 | 17.8 |
| Barium (Ba) | 10 | 1 | 9 | 94.3785 | .035 | 216 |
| Beryllium (Be) | 10 | 9 | 1 | 0.5720 | 0.94 U | 1.140 |
| Cadmium (Cd) | 10 | 5 | 5 | 1.8850 | 0.94 U | 5.4 |
| Calcium (Ca) | 10 | 0 | 10 | 26937.00 | 1600 | 79000 |
| Cesium (Cs) | 2 | 2 | 0 | 167.0000 | 200 U | |
| Chromium (Cr) | 10 | 0 | 10 | 11.6840 | 3.64 | 20 |
| Cobalt (Co) | 10 | 9 | 1 | 4.4580 | 4 U | 5.61 |
| Copper (Cu) | 10 | 3 | 7 | 8.3870 | 4.54 U | 19.8 |
| Iron (Fe) | 10 | 0 | 10 | 10211.00 | 4020 | 18500 |
| Lead (Pb) | 10 | 0 | 10 | 8.9880 | 1.6 | 22.8 |
| Lithium (Li) | 5 | 4 | 1 | 8.5420 | 10 U | 12.71 |
| Magnesium (Mg) | 10 | 0 | 10 | 2438.200 | 752 | 3700 |
| Manganese (Mn) | 10 | 0 | 10 | 236.8100 | 35 | 1080 |
| Mercury (Hg) | 10 | 8 | 2 | 0.0770 | 0.10 U | 0.19 |
| Molybdenum(Mo) | 2 | 2 | 0 | 9.6750 | 18.7 U | |
| Nickel (Ni) | 10 | 3 | 7 | 8.8525 | 5.45 U | 16 |
| Potassium (K ) | 10 | 3 | 7 | 1318.300 | 649 | 3020 |
| Selenium (Se) | 10 | 10 | 0 | 0.3950 | .31 U | |
| Silver (Ag) | 10 | 10 | 0 | 0.7635 | .4 U | |
| Sodium (Na) | 10 | 7 | 3 | 430.1000 | 175 | 427 |
| Strontium (Sr) | 10 | 2 | 8 | 46.1820 | 5.32 | 87.6 |
| Thallium (Tl) | 10 | 10 | 0 | 0.7625 | .44 U | |
| Tin (Sn) | 2 | 2 | 0 | 9.6750 | 18.7 U | |
| Vanadium (V ) | 10 | 0 | 10 | 25.2520 | 9.32 | 50.5 |
| Zinc (Zn) | 10 | 0 | 10 | 29.8400 | 10.9 | 49 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B315289, B318889, BH2287, BH2387, BH2487, BH2587, BH2687, BH2787, BH2887, BH3087

Summary Table for Soil Boring Total Metal Contaminants
Mound Area
Results reported in mg/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 8 | 0 | 8 | 11114.29 | 4720 | 23200 |
| Antimony (Sb) | 8 | 8 | 0 | 6.0000 | 12.00 U | |
| Arsenic (As) | 8 | 0 | 8 | 8.4714 | 5.3 | 13 |
| Barium (Ba) | 8 | 0 | 8 | 72.2857 | 50 | 100 |
| Beryllium (Be) | 8 | 8 | 0 | 0.5000 | 1.00 U | |
| Cadmium (Cd) | 8 | 2 | 6 | 1.9071 | 1.00 U | 3.7 |
| Calcium (Ca) | 8 | 0 | 8 | 59621.43 | 7600 | 136000 |
| Cesium (Cs) | 0 | 0 | 0 | | | |
| Chromium (Cr) | 8 | 2 | 6 | 6.7500 | 2.00 U | 13 |
| Cobalt (Co) | 8 | 8 | 0 | 5.0000 | 10.00 U | |
| Copper (Cu) | 8 | 4 | 4 | 4.6071 | 5.00 U | 8.2 |
| Iron (Fe) | 8 | 0 | 8 | 11039.29 | 7130 | 18900 |
| Lead (Pb) | 8 | 0 | 8 | 6.1286 | 3.5 | 9.4 |
| Lithium (Li) | 0 | 0 | 0 | | | |
| Magnesium (Mg) | 8 | 0 | 8 | 2820.714 | 1440 | 5260 |
| Manganese (Mn) | 8 | 0 | 8 | 141.5714 | 78 | 230 |
| Mercury (Hg) | 8 | 7 | 1 | 0.0614 | 0.1 U | 0.13 |
| Molybdenum(Mo) | 0 | 0 | 0 | | | |
| Nickel (Ni) | 8 | 2 | 6 | 9.0500 | 8.0 | 15 |
| Potassium (K ) | 8 | 3 | 5 | 1044.286 | 1000 U | 1750 |
| Selenium (Se) | 8 | 8 | 0 | 0.5000 | 1.00 U | |
| Silver (Ag) | 8 | 8 | 0 | 1.0000 | 2.00 U | |
| Sodium (Na) | 8 | 8 | 0 | 500.0000 | 1000 U | |
| Strontium (Sr) | 8 | 0 | 8 | 48.5000 | 24 | 120 |
| Thallium (Tl) | 8 | 8 | 0 | 1.0000 | 2.00 U | |
| Tin (Sn) | 0 | 0 | 0 | | | |
| Vanadium (V ) | 8 | 0 | 8 | 19.1429 | 12 | 33 |
| Zinc (Zn) | 8 | 0 | 8 | 27.0714 | 12 | 46 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: BH3287, BH3387, BH3487, BH3587, BH3687, BH3787, BH3887

Summary Table for Soil Boring Total Metal Contaminants
East Trenches Area
Results reported in mg/kg

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 44 | 0 | 44 | 9173.910 | 1650 | 25300 |
| Antimony (Sb) | 44 | 42 | 2 | 10.1625 | 11.6 U | 15.3 |
| Arsenic (As) | 44 | 3 | 41 | 8.6093 | 1.7 U | 30.8 |
| Barium (Ba) | 44 | 15 | 29 | 62.6699 | 40.00 U | 154 |
| Beryllium (Be) | 44 | 39 | 5 | 0.5598 | 0.41 U | 1.7 |
| Cadmium (Cd) | 44 | 20 | 24 | 1.7418 | 0.81 U | 6.2 |
| Calcium (Ca) | 44 | 1 | 43 | 43932.30 | 1000.00 U | 175000 |
| Cesium (Cs) | 11 | 11 | 0 | 172.6563 | 204 U | |
| Chromium (Cr) | 44 | 2 | 42 | 10.7519 | 2.00 U | 34 |
| Cobalt (Co) | 44 | 40 | 4 | 5.3391 | 4.1 U | 12.8 |
| Copper (Cu) | 44 | 13 | 31 | 6.9833 | 5.00 U | 27 |
| Iron (Fe) | 44 | 0 | 44 | 9992.404 | 1140 | 42700 |
| Lead (Pb) | 44 | 0 | 44 | 5.9426 | 1.2 | 45.6 |
| Lithium (Li) | 11 | 8 | 3 | 9.3063 | 5.3 | 7.0 |
| Magnesium (Mg) | 44 | 4 | 40 | 2207.686 | 1000.00 U | 4950 |
| Manganese (Mn) | 44 | 0 | 44 | 144.7580 | 6.9 | 584 |
| Mercury (Hg) | 44 | 30 | 14 | 0.1013 | 0.080 | 0.33 |
| Molybdenum(Mo) | 11 | 11 | 0 | 21.1438 | 19.3 U | |
| Nickel (Ni) | 44 | 16 | 28 | 11.5288 | 8.00 U | 40 |
| Potassium (K ) | 44 | 24 | 20 | 927.6923 | 891 | 4170 |
| Selenium (Se) | 44 | 43 | 1 | 0.7451 | 0.42 U | 6.5 |
| Silver (Ag) | 44 | 44 | 0 | 1.1798 | 1.9 U | |
| Sodium (Na) | 44 | 40 | 4 | 489.1769 | 60.5 | 1372 |
| Strontium (Sr) | 44 | 19 | 25 | 58.3147 | 16 J | 279 |
| Thallium (Tl) | 44 | 44 | 0 | 1.0046 | 0.60 U | |
| Tin (Sn) | 11 | 10 | 1 | 35.6719 | 20.6 U | 29.1 |
| Vanadium (V ) | 44 | 1 | 43 | 22.3532 | 10.4 U | 51 |
| Zinc (Zn) | 44 | 1 | 43 | 30.9798 | 4.00 U | 130 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B217389, B217589, B218189, B218589, B218689, B218789, B218989, B319789, BH3987, BH4087, BH4187, BH4287, BH4387, BH4487,

# SOIL SAMPLING RESULTS
# SUMMARY TABLES FOR INORGANIC COMPOUNDS

Summary Table of Soil Boring Inorganic Contaminants
903 Pad Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 10 | 0 | 10 | 8.2360 | 7.43 | 8.75 |
| Sulfide | (mg/kg) | 10 | 10 | 0 | 80.2000 | 2 U | |
| Cyanide, Total | (mg/kg) | 8 | 5 | 3 | 4.3675 | 0.25 U | 19.8 |
| Oil and Grease | (mg/kg) | 8 | 7 | 1 | 33.5750 | 1.7 U | 261 |
| Nitrate-Nitrite as N | (mg/kg) | 2 | 0 | 2 | 2.4000 | 1.7 | 3.1 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B315289, B318889, BH2287, BH2387, BH2487, BH2587, BH2687, BH2787, BH2887, BH3087

Summary Table of Soil Boring Inorganic Contaminants
Mound Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 8 | 0 | 8 | 8.9421 | 8.75 | 9.25 |
| Sulfide | (mg/kg) | 7 | 7 | 0 | 100.0000 | 200 U | |
| Cyanide, Total | (mg/kg) | 8 | 8 | 0 | 1.1607 | 1.25 U | |
| Oil and Grease | (mg/kg) | 3 | 3 | 0 | 0.8500 | 1.7 U | |
| Nitrate-Nitrite as N | (mg/kg) | 0 | 0 | 0 | ******** | | |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: BH3287, BH3387, BH3487, BH3587, BH3687, BH3787, BH3887

Summary Table of Soil Boring Inorganic Contaminants
East Trenches Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 45 | 0 | 45 | 8.0530 | 6.9 | 8.87 |
| Sulfide | (mg/kg) | 46 | 44 | 2 | 67.1389 | 2 U | 4 |
| Cyanide, Total | (mg/kg) | 20 | 17 | 3 | 1.5771 | 2.5 | 3.33 |
| Oil and Grease | (mg/kg) | 14 | 11 | 3 | 2.4350 | 1.7 | 15.0 |
| Nitrate-Nitrite as N | (mg/kg) | 13 | 4 | 9 | 1.6667 | 1.0 | 4.3 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: B215389, B217389, B217589, B218189, B218589, B218689, B218789, B218989, B319789, BH3987, BH4087, BH4187, BH4287, BH4387, BH4487, BH4587, BH4687, BH4787, BH4887, BH4987, BH5087, BH5187, BH5287, BH5387, BH5487, BH5587, BH5687

# APPENDIX B

## GROUND-WATER SAMPLING RESULTS

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# APPENDIX B-1

## GROUND-WATER SAMPLING RESULTS
## RAW DATA

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# GROUND-WATER SAMPLING RESULTS
# VOLATILE ORGANIC COMPOUNDS

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | | 5 U | 5 U | 13 | 5 U | 10 U |
| 0171 | 09-MAR-87 | 4 | | 4 U | | 12 | 4 U | 38 | | | | | |
| 0171 | 30-APR-87 | 4 U | | 4 U | | 22 | 24 | 4 U | | | | | |
| 0171 | 01-MAY-87 | 4 U | | 4 U | | 22 | 24 | 4 U | | | | | |
| 0171 | 21-MAY-87 | 4 U | | 4 U | | 4 U | 400 | 4 U | | | | | |
| 0171 | 02-JUL-87 | 2892 | | 4 U | | 535 | 4 U | 346 | | | | | |
| 0171 | 14-OCT-87 | 5 U | | 5 U | | 13 | 5 U | 5 U | | | | | |
| 0171 | 26-FEB-88 | 5 U | 5 U | 5 U | 5 U | 12 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0171 | 18-APR-88 | 192 | 5 U | 5 U | 5 U | 7 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 10 U | 10 U | 10 U | 26 B | 5 U | 5 U | 5 U | 10 U | 3 J | 1600 | 5 U | 10 U |
| 0171 | 09-MAR-87 | | | | | | | | | | 4800 | | |
| 0171 | 30-APR-87 | | | | | | | | | | 2300 | | |
| 0171 | 01-MAY-87 | | | | | | | | | | 2300 | | |
| 0171 | 21-MAY-87 | | | | | | | | | | 3000 | | |
| 0171 | 02-JUL-87 | | | | | | | | | | 1405 | | |
| 0171 | 14-OCT-87 | | | | | | | | | | 440 | | |
| 0171 | 26-FEB-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 467 | 5 U | 10 U |
| 0171 | 18-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 964 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 180 | 10 U | 5 U | 5 U | 15 | 5 U | 65 | 5 U | 5 U | 350 | 10 U | 10 U |
| 0171 | 09-MAR-87 | 220 | | | | | | 50 | | | 1120 | | |
| 0171 | 30-APR-87 | 18 | | | | | | 108 | | | 1200 | | |
| 0171 | 01-MAY-87 | 18 | | | | | | 108 | | | 1200 | | |
| 0171 | 21-MAY-87 | 4 U | | | | | | 800 | | | 2000 | | |
| 0171 | 02-JUL-87 | 1525 | | | | | | 147 | | | 691 | | |
| 0171 | 14-OCT-87 | 612 | | | | | | 132 | | | 222 | | |
| 0171 | 26-FEB-88 | 634 | 10 U | 5 U | 5 U | 14 | 5 U | 100 | 5 U | 5 U | 326 | 10 U | 10 U |
| 0171 | 18-APR-88 | 455 | 10 U | 5 U | 5 U | 5 U | 5 U | 111 | 5 U | 5 U | 378 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 25-JUL-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0171 | 31-OCT-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0171 | 02-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0171 | 02-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 J | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0171 | 08-AUG-89 | 2 J | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0171 | 29-NOV-89 | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | | 100 U | |
| 0171 | 23-FEB-90 | 2 J | 5 U | 5 U | 5 U | 5 | 5 U | 28 | 5 U | 5 U | | 5 U | |
| 0171 | 20-NOV-90 | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 30 | 25 U | 25 U | | 25 U | |
| 0171 | 17-APR-91 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 32 J | 50 U | 50 U | | 50 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 25-JUL-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 830 | 5 U | 10 U |
| 0171 | 31-OCT-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 790 | 5 U | 10 U |
| 0171 | 02-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 600 | 5 U | 10 U |
| 0171 | 02-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 690 J | 5 U | 10 U |
| 0171 | 08-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 560 | 5 U | 10 U |
| 0171 | 29-NOV-89 | 200 U | 200 U | 200 U | 200 U | 100 U | 100 U | 100 U | 200 U | 100 U | 3300 | 100 U | 200 U |
| 0171 | 23-FEB-90 | 10 U | 10 U | 10 U | 7 J | 5 U | 5 U | 5 U | 10 U | 2 J | 1500 | 5 U | 10 U |
| 0171 | 20-NOV-90 | 50 U | 50 U | 50 U | 50 U | 25 U | 25 U | 25 U | 50 U | 25 U | 860 | 25 U | 50 U |
| 0171 | 17-APR-91 | 100 U | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 1400 | 50 U | 100 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 25-JUL-88 | 290 | 10 U | 5 U | 5 U | 5 U | 5 U | 54 | 5 U | 5 U | 203 | 10 U | 10 U |
| 0171 | 31-OCT-88 | 50 U | 10 U | 5 U | 5 U | 8 | 5 U | 110 | 5 U | 5 U | 290 | 10 U | 10 U |
| 0171 | 02-FEB-89 | 330 | 10 U | 5 U | 5 U | 5 U | 5 U | 78 | 5 U | 5 U | 290 | 10 U | 10 U |
| 0171 | 02-MAY-89 | 200 | 10 U | 5 U | 5 U | 5 U | 5 U | 69 | 5 U | 5 U | 230 | 10 U | 10 U |
| 0171 | 08-AUG-89 | 220 | 10 U | 5 U | 5 U | 2 J | 5 U | 62 | 5 U | 5 U | 180 | 10 U | 10 U |
| 0171 | 29-NOV-89 | 170 | 200 U | 100 U | 100 U | 93 JB | 100 U | 180 | 100 U | 100 U | 560 | 200 U | 200 U |
| 0171 | 23-FEB-90 | 150 B | 10 U | 5 U | 5 U | 8 B | 5 U | 98 | 5 U | 5 U | 360 | 10 U | 10 U |
| 0171 | 20-NOV-90 | 130 | 50 U | 25 U | 25 U | 51 B | 25 U | 64 | 25 U | 25 U | 290 | 50 U | 50 U |
| 0171 | 17-APR-91 | 140 | 100 U | 50 U | 50 U | 50 U | 50 U | 97 | 50 U | 50 U | 360 | 100 U | 100 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 10-SEP-91 | 30 BJ | 72 U | 72 U | 72 U | 72 U | 72 U | | 72 U | 72 U | 72 U | 72 U | |
| 0271 | __-AUG-86 | 4 J | 5 U | 5 U | 2 J | 2 J | 5 U | | 5 U | 5 U | 79 | 5 U | 10 U |
| 0271 | 11-MAR-87 | 4 U | | 4 U | | 4 U | 4 U | 50 | | | | | |
| 0271 | 09-APR-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0271 | 21-MAY-87 | 4 U | | 4 U | | 160 | 4 U | 4 U | | | | | |
| 0271 | 02-JUL-87 | 4 U | | 4 U | | 673 | 4 U | 4 U | | | | | |
| 0271 | 26-FEB-88 | 5 U | 5 U | 51 | 12 | 8 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0271 | 20-APR-88 | 5 U | 5 U | 5 U | 14 | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0271 | 25-JUL-88 | 5 U | 5 U | 5 U | 21 | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 10-SEP-91 | 140 U | 140 U | 140 U | 45 BJ | 72 U | 72 U | 72 U | 140 U | 72 U | 1800 | 72 U | 140 U |
| 0271 | __-AUG-86 | 4 J | 10 U | 10 U | 43 B | 5 U | 5 U | 5 U | 10 U | 2 J | 5 U | 5 U | 10 U |
| 0271 | 11-MAR-87 | | | | | | | | | | 4 U | | |
| 0271 | 09-APR-87 | | | | | | | | | | 4 U | | |
| 0271 | 21-MAY-87 | | | | | | | | | | 40 | | |
| 0271 | 02-JUL-87 | | | | | | | | | | 4 U | | |
| 0271 | 26-FEB-88 | 10 U | 47 | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 20-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 25-JUL-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 10-SEP-91 | 170 | 140 U | 72 U | 72 U | 15 BJ | 72 U | 100 | 72 U | 72 U | 370 | 140 U | 140 U |
| 0271 | __-AUG-86 | 79 | 10 U | 5 U | 5 U | 2 J | 5 U | 15 | 1 J | 5 U | 4500 | 10 U | 1 J |
| 0271 | 11-MAR-87 | 260 | | | | | | 4 | | | 28800 | | |
| 0271 | 09-APR-87 | 400 | | | | | | 1000 | | | 26000 | | |
| 0271 | 21-MAY-87 | 60 | | | | | | 440 | | | 24800 | | |
| 0271 | 02-JUL-87 | 4 U | | | | | | 192 | | | 9440 | | |
| 0271 | 26-FEB-88 | 231 | 10 U | 5 U | 5 U | 12 | 5 U | 5 U | 5 U | 5 U | 7750 | 10 U | 10 U |
| 0271 | 20-APR-88 | 227 | 10 U | 5 U | 5 U | 5 U | 5 U | 30 | 5 U | 5 U | 6837 | 10 U | 10 U |
| 0271 | 25-JUL-88 | 276 | 10 U | 5 U | 5 U | 5 U | 5 U | 57 | 5 U | 5 U | 8520 | 10 U | 10 U |

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J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0271 | 31-OCT-88 | 26 | 5 U | 9 | 28 | 10 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0271 | 01-FEB-89 | 5 U | 5 U | 5 U | 11 | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0271 | 01-MAY-89 | 5 U | 5 U | 5 U | 8 | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0271 | 08-AUG-89 | 16 | 5 U | 6 | 12 | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 30-NOV-89 | 120 U | 120 U | 120 U | 120 U | 120 U | 120 U | 380 | 120 U | 120 U | | 120 U | 250 U |
| 0271 | 21-NOV-90 | 37 | 4 J | 4 BJ | 38 | 5 | 2 J | 290 DJ | 3 J | 5 U | | 5 U | |
| 0271 | 19-APR-91 | 25 U | 25 U | 7 J | 13 J | 25 U | 25 U | 100 | 25 U | 25 U | | 25 U | |
| 0271 | 10-SEP-91 | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | | 250 U | 250 U | 140 J | 250 U | |
| 1187 | 17-FEB-88 | 277 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0271 | 31-OCT-88 | 10 U | 10 U | 10 U | 10 U | 2 J | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 01-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 01-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 08-AUG-89 | 10 U | 10 U | 10 U | 10 U | 0.9 J | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 30-NOV-89 | 250 U | 250 U | 250 U | 250 U | 120 U | 120 U | 120 U | 250 U | 120 U | 120 U | 120 U | 250 U |
| 0271 | 21-NOV-90 | 10 U | 10 U | 10 U | 7 BJ | 2 J | 1 J | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0271 | 19-APR-91 | 50 U | 50 U | 50 U | 16 J | 25 U | 25 U | 25 U | 50 U | 25 U | 25 U | 25 U | 50 U |
| 0271 | 10-SEP-91 | 500 U | 500 U | 500 U | 500 U | 250 U | 250 U | 250 U | 500 U | 250 U | 250 U | 250 U | 500 U |
| 1187 | 17-FEB-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 495 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0271 | 31-OCT-88 | 500 U | 10 U | 5 U | 5 U | 6 | 5 U | 81 | 5 U | 5 U | 8200 | 10 U | 10 U |
| 0271 | 01-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 16 | 5 U | 5 U | 1200 | 10 U | 10 U |
| 0271 | 01-MAY-89 | 7 | 10 U | 5 U | 5 U | 5 U | 5 U | 8 | 5 U | 5 U | 440 | 10 U | 10 U |
| 0271 | 08-AUG-89 | 160 | 10 U | 5 U | 5 U | 1 J | 5 U | 27 | 5 U | 5 U | 4400 | 10 U | 10 U |
| 0271 | 30-NOV-89 | 120 U | 250 U | 120 U | 120 U | 61 JB | 120 U | 34 J | 120 U | 120 U | 6600 E | 250 U | 250 U |
| 0271 | 21-NOV-90 | 200 DJ | 10 U | 5 U | 5 U | 2 BJ | 5 U | 100 | 1 J | 5 U | 7500 D | 10 U | 10 U |
| 0271 | 19-APR-91 | 58 | 50 U | 25 U | 25 U | 25 U | 25 U | 33 | 25 U | 25 U | 2200 D | 50 U | 50 U |
| 0271 | 10-SEP-91 | 120 J | 500 U | 250 U | 250 U | 110 BJ | 250 U | 250 U | 250 U | 250 U | 5800 | 500 U | 500 U |
| 1187 | 17-FEB-88 | 129 | 10 U | 5 U | 5 U | 5 U | 5 U | 20 | 5 U | 5 U | 824 | 10 U | 10 U |

U=Analyzed but not detected
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E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 13-APR-88 | 301 | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1187 | 08-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1187 | 07-AUG-89 | 3 J | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 1187 | 23-JAN-90 | 7 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1187 | 15-JUN-90 | 4 J | 5 U | 5 U | 5 U | 4 J | 5 U | 8 | 5 U | 5 U | | 5 U | |
| 1187 | 18-SEP-90 | 5 | 5 U | 5 U | 5 U | 8 | 5 U | 10 | 5 U | 5 U | | 5 U | |
| 1187 | 28-NOV-90 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | | 50 U | |
| 1187 | 15-JAN-91 | 5 | 5 U | 5 U | 5 U | 12 | 5 U | 18 | 5 U | 5 U | | 5 U | |
| 1187 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 12 | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 13-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 436 | 5 U | 10 U |
| 1187 | 08-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 605 | 5 U | 10 U |
| 1187 | 07-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 270 | 5 U | 10 U |
| 1187 | 23-JAN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 520 | 5 U | 10 U |
| 1187 | 15-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 670 | 5 U | 10 U |
| 1187 | 18-SEP-90 | 10 U | 10 U | 10 U | 5 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 1000 D | 5 U | 10 U |
| 1187 | 28-NOV-90 | 150 B | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 660 | 50 U | 100 U |
| 1187 | 15-JAN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 750 D | 5 U | 10 U |
| 1187 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 400 D | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 13-APR-88 | 121 | 10 U | 5 U | 5 U | 5 U | 5 U | 28 | 5 U | 5 U | 573 | 10 U | 10 U |
| 1187 | 08-AUG-88 | 129 | 10 U | 5 U | 5 U | 5 U | 5 U | 26 | 5 U | 5 U | 1090 | 10 U | 10 U |
| 1187 | 07-AUG-89 | 88 | 10 U | 5 U | 5 U | 5 U | 5 U | 18 | 5 U | 0.8 J | 560 | 10 U | 10 U |
| 1187 | 23-JAN-90 | 96 | 10 U | 5 U | 5 U | 5 U | 5 U | 40 | 4 J | 5 U | 1200 | 10 U | 10 U |
| 1187 | 15-JUN-90 | 79 | 10 U | 5 U | 5 U | 3 JB | 5 U | 32 | 5 U | 5 U | 1800 | 10 U | 10 U |
| 1187 | 18-SEP-90 | 92 | 10 U | 5 U | 5 U | 9 B | 5 U | 46 B | 1 J | 5 U | 2900 D | 10 U | 10 U |
| 1187 | 28-NOV-90 | 86 | 100 U | 50 U | 50 U | 50 U | 50 U | 41 J | 50 U | 50 U | 1900 | 100 U | 100 U |
| 1187 | 15-JAN-91 | 96 | 10 U | 5 U | 5 U | 1 J | 5 U | 62 | 5 U | 5 U | 2500 D | 10 U | 10 U |
| 1187 | 16-APR-91 | 82 | 10 U | 5 U | 5 U | 5 U | 5 U | 49 | 5 U | 5 U | 1400 D | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
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V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 06-SEP-91 | 27 BJ | 100 U | 100 U | 100 U | 100 U | 100 U | | 100 U | 100 U | 100 U | 100 U | |
| 1287 | 31-AUG-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 1287 | 25-FEB-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1287 | 20-APR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1287 | 25-JUL-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1287 | 14-NOV-89 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | | 10 U | |
| 1287 | 24-JAN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 7 | 5 U | 5 U | | 5 U | |
| 1287 | 14-JUN-90 | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1287 | 20-SEP-90 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 2 J | 10 U | 10 U | | 10 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 06-SEP-91 | 200 U | 200 U | 200 U | 200 U | 100 U | 100 U | 100 U | 200 U | 100 U | 610 | 100 U | 200 U |
| 1287 | 31-AUG-87 | | | | | | | | | | 58 | | |
| 1287 | 25-FEB-88 | 10 U | 5 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 20 | 5 U | 10 U |
| 1287 | 20-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 43 | 5 U | 10 U |
| 1287 | 25-JUL-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 27 | 5 U | 10 U |
| 1287 | 14-NOV-89 | 20 U | 20 U | 20 U | 20 U | 10 U | 10 U | 10 U | 20 U | 10 U | 10 U | 10 U | 20 U |
| 1287 | 24-JAN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 22 | 5 U | 10 U |
| 1287 | 14-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 13 | 5 U | 10 U |
| 1287 | 20-SEP-90 | 20 U | 20 U | 20 U | 5 BJ | 10 U | 10 U | 10 U | 20 U | 10 U | 9 J | 10 U | 20 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1187 | 06-SEP-91 | 92 J | 200 U | 100 U | 100 U | 100 U | 100 U | 45 J | 100 U | 100 U | 3300 | 200 U | 200 U |
| 1287 | 31-AUG-87 | 33 | | | | | | 43 | | | 3570 | | |
| 1287 | 25-FEB-88 | 17 | 10 U | 5 U | 5 U | 9 | 5 U | 34 | 5 U | 5 U | 547 | 10 U | 10 U |
| 1287 | 20-APR-88 | 17 | 10 U | 5 U | 5 U | 5 U | 5 U | 57 | 5 U | 5 U | 751 | 10 U | 10 U |
| 1287 | 25-JUL-88 | 17 | 10 U | 5 U | 5 U | 5 U | 5 U | 42 | 5 U | 5 U | 528 | 10 U | 10 U |
| 1287 | 14-NOV-89 | 10 U | 20 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 310 | 20 U | 20 U |
| 1287 | 24-JAN-90 | 15 | 10 U | 5 U | 5 U | 5 U | 5 U | 37 | 5 U | 5 U | 360 | 10 U | 10 U |
| 1287 | 14-JUN-90 | 9 | 10 U | 5 U | 5 U | 2 JB | 5 U | 38 | 5 U | 5 U | 220 | 10 U | 10 U |
| 1287 | 20-SEP-90 | 8 J | 20 U | 10 U | 10 U | 10 U | 10 U | 28 | 10 U | 10 U | 170 | 20 U | 20 U |

U=Analyzed but not detected
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R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1287 | 28-NOV-90 | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | | 5 U | |
| 1287 | 15-JAN-91 | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | | 5 U | |
| 1287 | 09-SEP-91 | 17 U | 17 U | 17 U | 17 U | 17 U | 17 U | | 17 U | 17 U | 17 U | 17 U | |
| 1487 | 31-AUG-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 1487 | 29-FEB-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1487 | 08-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1487 | 26-OCT-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1487 | 25-JAN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1487 | 24-APR-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1287 | 28-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 12 | 5 U | 10 U |
| 1287 | 15-JAN-91 | 10 U | 10 U | 10 U | 15 B | 5 U | 5 U | 5 U | 10 U | 5 U | 17 | 5 U | 10 U |
| 1287 | 09-SEP-91 | 33 U | 33 U | 33 U | 33 U | 17 U | 17 U | 17 U | 33 U | 17 U | 17 U | 17 U | 33 U |
| 1487 | 31-AUG-87 | | | | | | | | | | 404 | | |
| 1487 | 29-FEB-88 | 10 U | 10 U | 10 U | 26 | 5 U | 5 U | 5 U | 10 U | 5 U | 38 | 5 U | 10 U |
| 1487 | 08-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 110 | 5 U | 10 U |
| 1487 | 26-OCT-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 77 | 5 U | 10 U |
| 1487 | 25-JAN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 150 | 5 U | 10 U |
| 1487 | 24-APR-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 160 J | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1287 | 28-NOV-90 | 10 | 10 U | 5 U | 5 U | 5 U | 5 U | 32 | 5 U | 5 U | 330 D | 10 U | 10 U |
| 1287 | 15-JAN-91 | 12 | 10 U | 5 U | 5 U | 5 U | 5 U | 54 | 5 U | 5 U | 360 D | 10 U | 10 U |
| 1287 | 09-SEP-91 | 10 J | 33 U | 17 U | 17 U | 15 BJ | 17 U | 27 | 17 U | 17 U | 560 | 33 U | 33 U |
| 1487 | 31-AUG-87 | 23 | | | | | | 5 U | | | 109 | | |
| 1487 | 29-FEB-88 | 7 | 10 U | 5 U | 5 U | 7 | 5 U | 5 U | 5 U | 5 U | 28 | 10 U | 10 U |
| 1487 | 08-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 54 | 10 U | 10 U |
| 1487 | 26-OCT-88 | 8 B | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 36 | 10 U | 10 U |
| 1487 | 25-JAN-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 54 J | 10 U | 10 U |
| 1487 | 24-APR-89 | 16 | 10 U | 5 U | 5 U | 6 U | 5 U | 4 J | 5 U | 5 U | 68 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1487 | 02-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 1487 | 28-NOV-89 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | | 10 U | |
| 1487 | 14-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1487 | 18-SEP-90 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | | 10 U | |
| 1487 | 20-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1487 | 11-JAN-91 | 1 J | 5 U | 5 U | 5 U | 3 J | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 1487 | 15-APR-91 | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 1 J | 5 U | 5 U | | 5 U | |
| 1487 | 05-SEP-91 | 12 U | 12 U | 12 U | 12 U | 12 U | 12 U | | 12 U | 12 U | 12 U | 12 U | |
| 1587 | 10-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1487 | 02-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 100 | 5 U | 10 U |
| 1487 | 28-NOV-89 | 20 U | 20 U | 20 U | 20 U | 10 U | 10 U | 10 U | 20 U | 10 U | 450 | 10 U | 20 U |
| 1487 | 14-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 380 | 5 U | 10 U |
| 1487 | 18-SEP-90 | 20 U | 20 U | 20 U | 11 BJ | 10 U | 10 U | 10 U | 20 U | 10 U | 130 | 10 U | 20 U |
| 1487 | 20-NOV-90 | 10 U | 10 U | 10 U | 5 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 180 | 5 U | 10 U |
| 1487 | 11-JAN-91 | 10 U | 10 U | 10 U | 14 B | 5 U | 5 U | 5 U | 10 U | 5 U | 430 D | 5 U | 10 U |
| 1487 | 15-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 300 D | 5 U | 10 U |
| 1487 | 05-SEP-91 | 25 U | 25 U | 25 U | 26 | 12 U | 12 U | 12 U | 25 U | 12 U | 350 | 12 U | 25 U |
| 1587 | 10-SEP-87 | | | | | | | | | | 4080 | | |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1487 | 02-AUG-89 | 11 | 10 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | 34 | 10 U | 10 U |
| 1487 | 28-NOV-89 | 36 | 20 U | 10 U | 10 U | 7 JB | 10 U | 4 J | 10 U | 10 U | 120 | 20 U | 20 U |
| 1487 | 14-JUN-90 | 38 | 10 U | 5 U | 5 U | 5 B | 5 U | 7 | 2 J | 5 U | 170 | 10 U | 10 U |
| 1487 | 18-SEP-90 | 20 | 20 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 59 | 20 U | 20 U |
| 1487 | 20-NOV-90 | 12 | 10 U | 5 U | 5 U | 1 BJ | 5 U | 2 J | 5 U | 5 U | 54 | 10 U | 10 U |
| 1487 | 11-JAN-91 | 36 | 10 U | 5 U | 5 U | 5 U | 5 U | 8 | 5 U | 5 U | 160 D | 10 U | 10 U |
| 1487 | 15-APR-91 | 27 | 10 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 110 | 10 U | 10 U |
| 1487 | 05-SEP-91 | 31 | 25 U | 12 U | 12 U | 8 BJ | 12 U | 4 J | 12 U | 12 U | 120 | 25 U | 25 U |
| 1587 | 10-SEP-87 | 5 U | | | | | | 900 | | | 510 | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 29-FEB-88 | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1587 | 20-APR-88 | 5 U | 5 U | 5 U | 5 U | 9 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1587 | 01-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 J | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1587 | 02-AUG-89 | 2 J | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 1587 | 24-JAN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1587 | 25-JUN-90 | 2 J | 5 U | 5 U | 5 U | 4 J | 5 U | 160 | 5 U | 5 U | | 5 U | |
| 1587 | 18-SEP-90 | 7 | 5 U | 5 U | 5 U | 10 | 5 U | 220 D | 5 U | 5 U | | 5 U | |
| 1587 | 27-NOV-90 | 6 | 5 U | 4 J | 5 U | 8 | 5 U | 140 | 5 U | 5 U | | 5 U | |
| 1587 | 09-JAN-91 | 3 J | 3 J | 5 U | 5 U | 5 | 5 U | 150 | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 29-FEB-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1591 | 5 U | 10 U |
| 1587 | 20-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 4305 | 5 U | 10 U |
| 1587 | 01-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1100 J | 5 U | 10 U |
| 1587 | 02-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1200 | 5 U | 10 U |
| 1587 | 24-JAN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1400 | 5 U | 10 U |
| 1587 | 25-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 2000 | 5 U | 10 U |
| 1587 | 18-SEP-90 | 4 BJ | 10 U | 10 U | 2 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 6400 DE | 5 U | 10 U |
| 1587 | 27-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 3700 D | 5 U | 10 U |
| 1587 | 09-JAN-91 | 10 U | 10 U | 10 U | 6 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 2500 D | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 29-FEB-88 | 35 | 10 U | 5 U | 5 U | 8 | 5 U | 212 | 5 U | 5 U | 96 | 10 U | 10 U |
| 1587 | 20-APR-88 | 42 | 10 U | 5 U | 5 U | 5 U | 5 U | 782 | 5 U | 5 U | 269 | 10 U | 10 U |
| 1587 | 01-MAY-89 | 21 | 10 U | 5 U | 5 U | 5 U | 5 U | 190 | 5 U | 5 U | 120 | 10 U | 10 U |
| 1587 | 02-AUG-89 | 36 | 10 U | 5 U | 5 U | 5 U | 5 U | 200 | 5 U | 5 U | 110 | 10 U | 10 U |
| 1587 | 24-JAN-90 | 35 | 10 U | 5 U | 5 U | 5 U | 5 U | 140 | 5 U | 5 U | 74 | 10 U | 10 U |
| 1587 | 25-JUN-90 | 31 | 10 U | 5 U | 5 U | 4 J | 5 U | 300 | 5 U | 5 U | 140 | 10 U | 10 U |
| 1587 | 18-SEP-90 | 59 | 10 U | 5 U | 5 U | 6 B | 5 U | 410 BE | 5 U | 5 U | 230 D | 10 U | 10 U |
| 1587 | 27-NOV-90 | 38 | 10 U | 5 U | 5 U | 5 U | 5 U | 180 DJ | 5 U | 5 U | 150 | 10 U | 10 U |
| 1587 | 09-JAN-91 | 56 | 10 U | 5 U | 5 U | 3 J | 5 U | 220 D | 5 U | 5 U | 160 | 10 U | 10 U |

U=Analyzed but not detected
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E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 15-APR-91 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 31 J | 50 U | 50 U | | 50 U | |
| 1587 | 03-SEP-91 | 75 U | 75 U | 75 U | 75 U | 75 U | 75 U | 75 U | 75 U | 75 U | | 75 U | |
| 1687 | 10-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 1687 | 29-FEB-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1687 | 20-APR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1687 | 09-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1687 | 31-OCT-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1687 | 07-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 01-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 15-APR-91 | 100 U | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 1100 | 50 U | 100 U |
| 1587 | 03-SEP-91 | 150 U | 150 U | 150 U | 150 U | 75 U | 75 U | 75 U | 150 U | 75 U | 1600 | 75 U | 150 U |
| 1687 | 10-SEP-87 | | | | | | | | | | 5 U | | |
| 1687 | 29-FEB-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 20-APR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 09-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 31-OCT-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 07-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 01-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1587 | 15-APR-91 | 15 J | 100 U | 50 U | 50 U | 50 U | 50 U | 71 | 50 U | 50 U | 49 J | 100 U | 100 U |
| 1587 | 03-SEP-91 | 19 J | 150 U | 75 U | 75 U | 75 U | 75 U | 160 | 75 U | 75 U | 81 | 150 U | 150 U |
| 1687 | 10-SEP-87 | 5 U | | | | | | 5 U | | | 5 U | | |
| 1687 | 29-FEB-88 | 5 U | 10 U | 5 U | 5 U | 8 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 20-APR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 09-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 31-OCT-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 07-FEB-89 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 01-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
903 Pad Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1687 | 02-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 06-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 17-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 26-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 18-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 28-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 09-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1687 | 05-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1687 | 02-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 06-NOV-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 17-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 26-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 18-SEP-90 | 10 U | 10 U | 10 U | 4 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 28-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 09-JAN-91 | 10 U | 10 U | 10 U | 5 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1687 | 05-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1687 | 02-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 06-NOV-89 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 17-MAR-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 26-JUN-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 18-SEP-90 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 28-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 09-JAN-91 | 5 U | 10 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 16-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1687 | 05-SEP-91 | 5 U | 10 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
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Ground Water Volatile Organic Results
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| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2687 | 20-NOV-87 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2687 | 20-NOV-87 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2687 | 20-NOV-87 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 38 | 5 U | 10 U |
| 0174 | __-NOV-86 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | | 50 U | 50 U | 37 J | 50 U | 100 U |
| 0174 | 11-MAR-87 | 16 | | 4 U | | 18 | 4 U | 15 | | | | | |
| 0174 | 22-MAY-87 | 4 U | | 4 U | | 4 U | 20 | 4 U | | | | | |
| 0174 | 23-JUL-87 | 4 U | | 4 U | | 90 | 4 U | 4 U | | | | | |
| 0174 | 03-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0174 | 09-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0174 | 11-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0174 | 03-JAN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 10 U | 10 U | 10 U | 3 BJ | 5 U | 5 U | 5 U | 10 U | 3 J | 5 U | 5 U | 10 U |
| 0174 | __-NOV-86 | 100 U | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 50 U | 50 U | 100 U |
| 0174 | 11-MAR-87 | | | | | | | | | | 4 U | | |
| 0174 | 22-MAY-87 | | | | | | | | | | 4 U | | |
| 0174 | 23-JUL-87 | | | | | | | | | | 4 U | | |
| 0174 | 03-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 09-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 11-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 03-JAN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 4 J | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 4 J | 10 U | 5 U | 5 U | 2 J | 5 U | 120000 | 2 J | 5 U | 7000 | 10 U | 10 U |
| 0174 | __-NOV-86 | 50 U | 100 U | 50 U | 50 U | 50 J | 50 U | 24000 | 50 U | 50 U | 2400 | 100 U | 100 U |
| 0174 | 11-MAR-87 | 5 | | | | | | 80000 | | | 8000 | | |
| 0174 | 22-MAY-87 | 38 | | | | | | 528000 | | | 18000 | | |
| 0174 | 23-JUL-87 | 4 U | | | | | | 115 | | | 114 | | |
| 0174 | 03-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 33600 | 5 U | 5 U | 4405 | 10 U | 10 U |
| 0174 | 09-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 32850 | 5 U | 5 U | 1800 | 10 U | 10 U |
| 0174 | 11-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 49600 U | 5 U | 5 U | 1995 | 10 U | 10 U |
| 0174 | 03-JAN-89 | 6 B | 10 U | 5 U | 5 U | 4 JB | 9 | 31000 | 5 JB | 5 U | 2200 | 10 U | 10 U |

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A=Acceptable with qualifications
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V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 02-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0174 | 04-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0174 | 10-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 17-NOV-89 | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | | 1200 U | |
| 0174 | 09-FEB-90 | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | | 2500 U | 5000 U |
| 0174 | 05-MAY-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 28 | 5 U | 5 U | | 5 U | |
| 0174 | 15-NOV-90 | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | 1200 U | | 1200 U | |
| 0174 | 10-MAY-91 | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | | 500 U | |
| 0174 | 15-AUG-91 | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | | 2500 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 02-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 04-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 10-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 17-NOV-89 | 2500 U | 2500 U | 2500 U | 2500 U | 1200 U | 1200 U | 1200 U | 2500 U | 1200 U | 1200 U | 1200 U | 2500 U |
| 0174 | 09-FEB-90 | 5000 U | 5000 U | 5000 U | 5000 U | 2500 U | 2500 U | 2500 U | 5000 U | 2500 U | 2500 U | 2500 U | 5000 U |
| 0174 | 05-MAY-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0174 | 15-NOV-90 | 2500 U | 2500 U | 2500 U | 2500 U | 1200 U | 1200 U | 1200 U | 2500 U | 1200 U | 1200 U | 1200 U | 2500 U |
| 0174 | 10-MAY-91 | 1000 U | 1000 U | 1000 U | 1000 U | 500 U | 500 U | 500 U | 1000 U | 500 U | 500 U | 500 U | 1000 U |
| 0174 | 15-AUG-91 | 5000 U | 5000 U | 5000 U | 8200 B | 2500 U | 2500 U | 2500 U | 5000 U | 2500 U | 2500 U | 2500 U | 5000 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 02-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 33000 | 5 U | 5 U | 1800 | 10 U | 10 U |
| 0174 | 04-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 45000 | 5 U | 5 U | 1800 | 10 U | 10 U |
| 0174 | 10-AUG-89 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 44000 | 0.9 J | 5 U | 840 | 10 U | 10 U |
| 0174 | 17-NOV-89 | 1200 U | 2500 U | 1200 U | 1200 U | 1300 B | 1200 U | 47000 | 1200 U | 1200 U | 2400 | 2500 U | 2500 U |
| 0174 | 09-FEB-90 | 2500 U | 5000 U | 2500 U | 2500 U | 2500 U | 2500 U | 20000 | 2500 U | 2500 U | 1000 J | 5000 U | 5000 U |
| 0174 | 05-MAY-90 | 5 U | 10 U | 5 U | 5 U | 19 | 5 U | 39000 | 5 U | 5 U | 2800 | 10 U | 10 U |
| 0174 | 15-NOV-90 | 1200 U | 2500 U | 1200 U | 1200 U | 4100 B | 1200 U | 37000 B | 1200 U | 1200 U | 2100 | 2500 U | 2500 U |
| 0174 | 10-MAY-91 | 500 U | 1000 U | 500 U | 500 U | 500 U | 500 U | 50000 D | 500 U | 500 U | 2500 | 1000 U | 1000 U |
| 0174 | 15-AUG-91 | 2500 U | 5000 U | 2500 U | 2500 U | 900 BJ | 2500 U | 84000 | 2500 U | 2500 U | 7800 | 5000 U | 5000 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 03-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1787 | 09-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1787 | 15-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1787 | 03-JAN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1787 | 07-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1787 | 03-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1787 | 01-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 14 | 5 U | 5 U | | 5 U | |
| 1787 | 29-JAN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1787 | 06-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 03-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 32 | 5 U | 10 U |
| 1787 | 09-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 80 | 5 U | 10 U |
| 1787 | 15-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 45 | 5 U | 10 U |
| 1787 | 03-JAN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 77 | 5 U | 10 U |
| 1787 | 07-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 71 | 5 U | 10 U |
| 1787 | 03-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 47 J | 5 U | 10 U |
| 1787 | 01-NOV-89 | 10 U | 10 U | 10 U | 28 | 5 U | 5 U | 5 U | 10 U | 5 U | 54 | 5 U | 10 U |
| 1787 | 29-JAN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 50 | 5 U | 10 U |
| 1787 | 06-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 37 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 03-MAR-88 | 17 | 10 U | 5 U | 5 U | 5 U | 5 U | 111 | 5 U | 5 U | 14 | 10 U | 10 U |
| 1787 | 09-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 235 | 5 U | 5 U | 27 | 10 U | 10 U |
| 1787 | 15-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 99 | 5 U | 5 U | 12 | 10 U | 10 U |
| 1787 | 03-JAN-89 | 13 B | 10 U | 5 U | 5 U | 6 B | 5 U | 190 | 5 B | 5 U | 26 | 10 U | 10 U |
| 1787 | 07-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 140 | 5 U | 5 U | 21 | 10 U | 10 U |
| 1787 | 03-MAY-89 | 4 J | 10 U | 5 U | 5 U | 5 U | 5 U | 160 | 5 U | 5 U | 17 | 10 U | 10 U |
| 1787 | 01-NOV-89 | 5 | 10 U | 5 U | 5 U | 16 | 5 U | 5 U | 4 J | 5 U | 5 U | 10 U | 10 U |
| 1787 | 29-JAN-90 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 51 | 5 U | 5 U | 13 | 10 U | 10 U |
| 1787 | 06-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 J | 5 U | 46 | 5 U | 5 U | 8 | 10 U | 10 U |

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A=Acceptable with qualifications
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E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 06-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | | 5 U | |
| 1787 | 09-MAR-91 | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | | 5 U | |
| 1787 | 13-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1787 | 19-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | | 5 U | |
| 1887 | 07-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1887 | 05-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1887 | 15-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1887 | 03-JAN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 1887 | 07-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 06-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 25 | 5 U | 10 U |
| 1787 | 09-MAR-91 | 10 U | 10 U | 10 U | 2 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 24 | 5 U | 10 U |
| 1787 | 13-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 28 | 5 U | 10 U |
| 1787 | 19-AUG-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 27 | 5 U | 10 U |
| 1887 | 07-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 05-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 15-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 03-JAN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 07-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1787 | 06-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 29 | 5 U | 5 U | 6 | 10 U | 10 U |
| 1787 | 09-MAR-91 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 26 | 2 BJ | 5 U | 6 | 10 U | 10 U |
| 1787 | 13-MAY-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 25 | 5 U | 5 U | 7 | 10 U | 10 U |
| 1787 | 19-AUG-91 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 34 | 5 U | 5 U | 6 | 10 U | 10 U |
| 1887 | 07-MAR-88 | 29 | 10 U | 5 U | 5 U | 5 U | 5 U | 16 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 05-MAY-88 | 12 | 10 U | 5 U | 5 U | 5 U | 5 U | 32 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 15-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 03-JAN-89 | 4 JB | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 B | 5 U | 5 U | 10 U | 10 U |
| 1887 | 07-FEB-89 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
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Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 03-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 09-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 02-NOV-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 08-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 05-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 29-AUG-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 23-OCT-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1887 | 19-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 1887 | 10-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 03-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 09-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 02-NOV-89 | 10 U | 10 U | 10 U | 9 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 08-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 05-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 29-AUG-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 23-OCT-90 | 10 U | 10 U | 10 U | 6 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 19-MAR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1887 | 10-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 03-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 57 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 09-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 02-NOV-89 | 5 U | 10 U | 5 U | 5 U | 7 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 08-MAR-90 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 4 J | 10 U | 10 U |
| 1887 | 05-JUN-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 28 | 10 U | 10 U |
| 1887 | 29-AUG-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 23-OCT-90 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 19-MAR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1887 | 10-MAY-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 20-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1987 | 22-MAY-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 1987 | 25-JUL-90 | 13 J | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | 25 U | | 25 U | |
| 1987 | 15-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 03-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2087 | 09-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2087 | 11-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2087 | 08-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2087 | 07-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 20-AUG-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1987 | 22-MAY-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 1987 | 25-JUL-90 | 50 U | 50 U | 50 U | 50 U | 25 U | 25 U | 25 U | 50 U | 25 U | 25 U | 25 U | 50 U |
| 1987 | 15-AUG-91 | 10 U | 10 U | 10 U | 16 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 03-MAR-88 | 10 U | 10 U | 10 U | 13 | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 09-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 11-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 08-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 07-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1887 | 20-AUG-91 | 5 U | 10 U | 5 U | 5 U | 1 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 1987 | 22-MAY-90 | 5 U | 10 U | 5 U | 5 U | 14 | 5 U | 790 | 5 U | 5 U | 70 | 10 U | 10 U |
| 1987 | 25-JUL-90 | 25 U | 50 U | 25 U | 25 U | 40 B | 25 U | 860 | 25 U | 25 U | 58 | 50 U | 50 U |
| 1987 | 15-AUG-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 880 D | 5 U | 5 U | 110 | 10 U | 10 U |
| 2087 | 03-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 70 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 09-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 11-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 08-NOV-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 07-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 J | 5 U | 3 J | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 03-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 09-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 13-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 09-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2087 | 22-MAY-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 27-JUL-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 08-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2087 | 19-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 2087 | 10-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 03-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 09-AUG-89 | 10 U | 10 U | 10 U | 19 | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 13-DEC-89 | 10 U | 10 U | 10 U | 22 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 09-FEB-90 | 10 U | 10 U | 10 U | 6 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 22-MAY-90 | 10 U | 10 U | 10 U | 9 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 27-JUL-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 08-NOV-90 | 10 U | 10 U | 10 U | 4 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 19-MAR-91 | 10 U | 10 U | 10 U | 3 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2087 | 10-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 03-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 370E | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 09-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 140 | 5 U | 5 U | 3 J | 10 U | 10 U |
| 2087 | 13-DEC-89 | 5 U | 10 U | 5 U | 5 U | 11 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 09-FEB-90 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 39 | 5 U | 5 U | 2 J | 10 U | 10 U |
| 2087 | 22-MAY-90 | 5 U | 10 U | 5 U | 5 U | 6 B | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 27-JUL-90 | 5 U | 10 U | 5 U | 5 U | 4 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 08-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 11 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 19-MAR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2087 | 10-MAY-91 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
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V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 15-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 10-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 2387 | 02-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2387 | 09-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2387 | 10-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2387 | 03-JAN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2387 | 07-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 03-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 07-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 15-AUG-91 | 10 U | 10 U | 10 U | 18 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 10-SEP-87 | | | | | | | | | | 5 U | | |
| 2387 | 02-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 09-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 10-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 03-JAN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 07-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 03-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 07-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1 J | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 15-AUG-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 10-SEP-87 | 5 U | | | | | | 5 U | | | 5 U | | |
| 2387 | 02-MAR-88 | 5 U | 10 U | 5 U | 5 U | 8 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 09-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 19 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 10-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 03-JAN-89 | 3 JB | 10 U | 5 U | 5 U | 6 B | 5 U | 3 J | 5 B | 5 U | 5 U | 10 U | 10 U |
| 2387 | 07-FEB-89 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 03-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 74 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 07-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2387 | 04-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 20-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 01-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 09-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 08-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 19-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2387 | 19-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4386 | 11-MAR-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 4386 | 03-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2387 | 04-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 20-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 01-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 09-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 08-MAR-91 | 10 U | 10 U | 4 J | 24 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 19-APR-91 | 6 J | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2387 | 19-AUG-91 | 10 U | 10 U | 10 U | 4 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4386 | 11-MAR-87 | | | | | | | | | | 6 | | |
| 4386 | 03-JUN-87 | | | | | | | | | | 4 U | | |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2387 | 04-DEC-89 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 20-FEB-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 01-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 09-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 08-MAR-91 | 5 U | 10 U | 5 U | 5 U | 2 BJ | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2387 | 19-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 10 U | 10 U |
| 2387 | 19-AUG-91 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4386 | 11-MAR-87 | 4 U | | | | | | 4 U | | | 8 | | |
| 4386 | 03-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
Mound Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4386 | 26-AUG-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 4386 | 05-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4386 | 20-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4386 | 26-AUG-87 | | | | | | | | | | 5 U | | |
| 4386 | 05-JUN-90 | 10 U | 10 U | 10 U | 29 B | 5 U | 5 U | 5 U | 10 U | 5 U | 2 J | 5 U | 10 U |
| 4386 | 20-AUG-91 | 10 U | 10 U | 10 U | 4 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 3 J | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4386 | 26-AUG-87 | 5 U | | | | | | 5 U | | | 5 U | | |
| 4386 | 05-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4386 | 20-AUG-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0286 | 01-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0286 | 20-JUL-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0286 | 31-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 02-JUN-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0286 | 26-JUN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 30-JUN-89 | 9 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 11-JUL-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 03-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | | | | | | | | | | 4 U | | |
| 0286 | 01-JUN-87 | | | | | | | | | | 4 U | | |
| 0286 | 20-JUL-87 | | | | | | | | | | 4 U | | |
| 0286 | 31-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 02-JUN-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 26-JUN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 30-JUN-89 | 10 U | 10 U | 10 U | 2 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 11-JUL-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 03-AUG-89 | 10 U | 10 U | 10 U | 17 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0286 | 01-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0286 | 20-JUL-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0286 | 31-MAR-88 | 5 U | 10 U | 5 U | 5 U | 24 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 02-JUN-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 26-JUN-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 30-JUN-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 11-JUL-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 03-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 18-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 19-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 07-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 06-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 15-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 19-JUN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0286 | 11-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0374 | __-AUG-86 | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U | | 5 U | 5 U | 2 J | 5 U | 10 U |
| 0374 | 17-MAR-87 | 10 | | 4 U | | 8 | 4 U | 5 | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 18-DEC-89 | 10 U | 10 U | 10 U | 19 | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 19-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 07-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 06-SEP-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 15-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 19-JUN-91 | 10 U | 10 U | 10 U | 4 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0286 | 11-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0374 | __-AUG-86 | 10 U | 10 U | 10 U | 4 J | 5 U | 5 U | 5 U | 10 U | 2 J | 280 | 5 U | 10 U |
| 0374 | 17-MAR-87 | | | | | | | | | | 1200 | | |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 18-DEC-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 19-MAR-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 07-JUN-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 06-SEP-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 15-NOV-90 | 5 U | 10 U | 5 U | 5 U | 1 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 19-JUN-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0286 | 11-SEP-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0374 | __-AUG-86 | 19 | 10 U | 5 U | 5 U | 4 J | 5 U | 450 | 5 U | 5 U | 240 | 10 U | 10 U |
| 0374 | 17-MAR-87 | 35 | | | | | | 480 | | | 200 | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 03-JUN-87 | 4 U | | 4 U | | 32 | 120 | 4 U | | | | | |
| 0374 | 03-SEP-87 | 22 | | 5 U | | 22 | 5 U | 5 U | | | | | |
| 0374 | 03-MAR-88 | 25 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0374 | 04-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0374 | 19-AUG-88 | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0374 | 10-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0374 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0374 | 21-AUG-89 | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0374 | 11-SEP-89 | 4 J | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 03-JUN-87 | | | | | | | | | | 1200 | | |
| 0374 | 03-SEP-87 | | | | | | | | | | 1885 | | |
| 0374 | 03-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 461 | 5 U | 10 U |
| 0374 | 04-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 380 | 5 U | 10 U |
| 0374 | 19-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 495 | 5 U | 10 U |
| 0374 | 10-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1755 | 5 U | 10 U |
| 0374 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1100 | 5 U | 10 U |
| 0374 | 21-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 290 | 5 U | 10 U |
| 0374 | 11-SEP-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 470 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 03-JUN-87 | 6 | | | | | | 1080 | | | 400 | | |
| 0374 | 03-SEP-87 | 45 | | | | | | 345 | | | 218 | | |
| 0374 | 03-MAR-88 | 20 | 10 U | 5 U | 5 U | 5 U | 5 U | 103 | 5 U | 5 U | 55 | 10 U | 10 U |
| 0374 | 04-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 103 | 5 U | 5 U | 133 | 10 U | 10 U |
| 0374 | 19-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 118 | 5 U | 5 U | 49 | 10 U | 10 U |
| 0374 | 10-NOV-88 | 10 | 10 U | 5 U | 5 U | 5 U | 5 U | 100 | 5 U | 5 U | 812 | 10 U | 10 U |
| 0374 | 08-MAY-89 | 11 J | 10 U | 5 U | 5 U | 5 U | 5 U | 50 | 5 U | 5 U | 25 | 10 U | 10 U |
| 0374 | 21-AUG-89 | 14 | 10 U | 5 U | 5 U | 5 U | 5 U | 75 | 5 U | 5 U | 31 | 10 U | 10 U |
| 0374 | 11-SEP-89 | 18 | 10 U | 5 U | 5 U | 5 U | 5 U | 110 | 5 U | 5 U | 58 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 25-MAY-90 | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 12 | 5 U | 5 U | | 5 U | |
| 0374 | 01-AUG-90 | 4 J | 2 J | 5 U | 5 U | 3 J | 5 U | 8 | 5 U | 5 U | | 5 U | |
| 0374 | 16-NOV-90 | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0374 | 24-APR-91 | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0374 | 22-AUG-91 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 4 J | 10 U | 10 U | | 10 U | |
| 0386 | __-SEP-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 12-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0386 | 08-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0386 | 24-JUL-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 25-MAY-90 | 10 U | 10 U | 10 U | 8 J | 5 U | 5 U | 5 U | 10 U | 5 U | 650 | 5 U | 10 U |
| 0374 | 01-AUG-90 | 10 U | 10 U | 10 U | 8 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 420 D | 5 U | 10 U |
| 0374 | 16-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 640 D | 5 U | 10 U |
| 0374 | 24-APR-91 | 10 U | 10 U | 10 U | 2 J | 5 U | 5 U | 5 U | 10 U | 5 U | 160 | 5 U | 10 U |
| 0374 | 22-AUG-91 | 20 U | 20 U | 20 U | 20 U | 10 U | 10 U | 10 U | 20 U | 10 U | 230 | 10 U | 20 U |
| 0386 | __-SEP-86 | 10 U | 10 U | 10 U | 8 BJ | 5 U | 5 U | 5 U | 10 U | 3 J | 5 U | 5 U | 10 U |
| 0386 | 12-MAY-87 | | | | | | | | | | 4 U | | |
| 0386 | 08-JUN-87 | | | | | | | | | | 4 U | | |
| 0386 | 24-JUL-87 | | | | | | | | | | 4 U | | |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 25-MAY-90 | 21 | 10 U | 5 U | 5 U | 6 | 5 U | 160 | 5 U | 5 U | 85 | 10 U | 10 U |
| 0374 | 01-AUG-90 | 14 | 10 U | 5 U | 5 U | 3 J | 5 U | 100 | 5 U | 5 U | 59 | 10 U | 10 U |
| 0374 | 16-NOV-90 | 15 | 10 U | 5 U | 5 U | 5 U | 5 U | 140 | 5 U | 5 U | 73 | 10 U | 10 U |
| 0374 | 24-APR-91 | 11 | 10 U | 5 U | 5 U | 5 U | 5 U | 36 | 5 U | 5 U | 20 | 10 U | 10 U |
| 0374 | 22-AUG-91 | 11 | 20 U | 10 U | 10 U | 10 U | 10 U | 53 | 10 U | 10 U | 32 | 20 U | 20 U |
| 0386 | __-SEP-86 | 5 U | 10 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 12-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0386 | 08-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0386 | 24-JUL-87 | 4 U | | | | | | 4 U | | | 4 U | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 14-DEC-87 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 31-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 02-JUN-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0386 | 05-OCT-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0386 | 21-DEC-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 0386 | 29-MAR-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 26-JUN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 29-JUN-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 12-JUL-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 14-DEC-87 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 31-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 02-JUN-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 05-OCT-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 21-DEC-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 29-MAR-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 26-JUN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 29-JUN-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 12-JUL-89 | 10 U | 1 JB | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 14-DEC-87 | 5 U | 10 U | 5 U | 5 U | 13.00 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 31-MAR-88 | 5 U | 10 U | 5 U | 5 U | 24 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 02-JUN-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 05-OCT-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 21-DEC-88 | 2 JB | 10 U | 5 U | 5 U | 4 JB | 5 U | 5 U | 4 JB | 5 U | 5 U | 10 U | 10 U |
| 0386 | 29-MAR-89 | 5 U | 10 U | 5 U | 5 U | 7 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 26-JUN-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 29-JUN-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 12-JUL-89 | 5 U | 10 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
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D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
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| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 02-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 18-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 23-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 08-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 06-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 15-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 14-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0386 | 20-JUN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 0774 | __-AUG-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tet trachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 02-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 18-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 23-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 08-JUN-90 | 10 U | 10 U | 10 U | 6 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 06-SEP-90 | 10 U | 10 U | 10 U | 8 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 15-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 14-MAR-91 | 10 U | 10 U | 10 U | 14 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0386 | 20-JUN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 0774 | __-AUG-86 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 3 BJ | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 02-AUG-89 | 5 U | 10 U | 5 U | 5 U | 6 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 18-DEC-89 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 23-MAR-90 | 5 U | 10 U | 5 U | 5 U | 4 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 08-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 06-SEP-90 | 5 U | 10 U | 5 U | 5 U | 8 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 15-NOV-90 | 5 U | 10 U | 5 U | 5 U | 2 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 14-MAR-91 | 5 U | 10 U | 5 U | 5 U | 16 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0386 | 20-JUN-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 0774 | __-AUG-86 | 5 U | 10 U | 5 U | 5 U | 7 | 5 U | 16 | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0774 | 07-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 0774 | 28-MAY-87 | 4 U | | 4 U | | 4 U | 6 | 4 U | | | | | |
| 0774 | 08-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 2274 | __-SEP-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | 10 U |
| 2274 | 13-MAR-87 | 4 U | | 4 U | | 4 U | 24 | 4 U | | | | | |
| 2274 | 01-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 2274 | 17-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2274 | 21-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 2274 | 20-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0774 | 07-MAY-87 | | | | | | | | | | 4 U | | |
| 0774 | 28-MAY-87 | | | | | | | | | | 4 U | | |
| 0774 | 08-SEP-87 | | | | | | | | | | 150 | | |
| 2274 | __-SEP-86 | 10 U | 10 U | 10 U | 3 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 23 | 5 U | 10 U |
| 2274 | 13-MAR-87 | | | | | | | | | | 64 | | |
| 2274 | 01-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2274 | 17-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 58 | 5 U | 10 U |
| 2274 | 21-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 32 | 5 U | 10 U |
| 2274 | 20-SEP-90 | 5 BJ | 10 U | 10 U | 3 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 120 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0774 | 07-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 0774 | 28-MAY-87 | 4 U | | | | | | 16 | | | 4 U | | |
| 0774 | 08-SEP-87 | 7 | | | | | | 36 | | | 16 | | |
| 2274 | __-SEP-86 | 5 U | 10 U | 5 U | 5 U | 3 J | 5 U | 6 | 5 U | 5 U | 7 | 10 U | 10 U |
| 2274 | 13-MAR-87 | 12 | | | | | | 92 | | | 32 | | |
| 2274 | 01-DEC-89 | 28 | 10 U | 5 U | 5 U | 4 JB | 5 U | 19 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2274 | 17-MAR-90 | 14 | 10 U | 5 U | 5 U | 5 U | 5 U | 14 | 5 U | 5 U | 13 | 10 U | 10 U |
| 2274 | 21-JUN-90 | 15 | 10 U | 5 U | 5 U | 2 JB | 5 U | 14 | 5 U | 5 U | 9 | 10 U | 10 U |
| 2274 | 20-SEP-90 | 17 | 10 U | 5 U | 5 U | 3 BJ | 5 U | 22 | 5 U | 5 U | 16 | 10 U | 2 J |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2274 | 03-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 2274 | 23-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 2274 | 09-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 2487 | 07-JUN-90 | 40 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2587 | 10-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 2587 | 03-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2587 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2587 | 16-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2587 | 10-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2274 | 03-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 100 | 5 U | 10 U |
| 2274 | 23-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 34 | 5 U | 10 U |
| 2274 | 09-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 91 | 5 U | 10 U |
| 2487 | 07-JUN-90 | 10 U | 10 U | 10 U | 1 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2587 | 10-SEP-87 | | | | | | | | | | 61 | | |
| 2587 | 03-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 110 | 5 U | 10 U |
| 2587 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 160 | 5 U | 10 U |
| 2587 | 16-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 121 | 5 U | 10 U |
| 2587 | 10-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 835 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2274 | 03-NOV-90 | 17 | 10 U | 5 U | 5 U | 5 U | 5 U | 22 | 5 U | 5 U | 15 | 10 U | 10 U |
| 2274 | 23-MAY-91 | 18 | 10 U | 5 U | 5 U | 5 U | 5 U | 12 | 5 U | 5 U | 10 | 10 U | 10 U |
| 2274 | 09-SEP-91 | 12 | 10 U | 5 U | 5 U | 5 U | 5 U | 15 | 5 U | 5 U | 13 | 10 U | 10 U |
| 2487 | 07-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2587 | 10-SEP-87 | 18 | | | | | | 320 | | | 56 | | |
| 2587 | 03-MAR-88 | 4 J | 10 U | 5 U | 5 U | 5 U | 5 U | 598 | 5 U | 5 U | 83 | 10 U | 10 U |
| 2587 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 680 | 5 U | 5 U | 115 | 10 U | 10 U |
| 2587 | 16-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 457 | 5 U | 5 U | 123 | 10 U | 10 U |
| 2587 | 10-NOV-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 433 | 5 U | 5 U | 258 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2587 | 15-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2587 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2587 | 17-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 2587 | 01-FEB-90 | 5 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2587 | 11-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2587 | 05-NOV-90 | 12 U | 12 U | 12 U | 12 U | 12 U | 12 U | 44 | 12 U | 12 U | | 12 U | |
| 2587 | 09-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 17 | 5 U | 5 U | | 5 U | |
| 2587 | 22-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 14 | 5 U | 5 U | | 5 U | |
| 2587 | 10-SEP-91 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | | 10 U | 10 U | 6 J | 10 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2587 | 15-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 180 | 5 U | 10 U |
| 2587 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 290 | 5 U | 10 U |
| 2587 | 17-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 110 | 5 U | 10 U |
| 2587 | 01-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2587 | 11-JUN-90 | 10 U | 10 U | 10 U | 2 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 66 | 5 U | 10 U |
| 2587 | 05-NOV-90 | 25 U | 25 U | 25 U | 15 BJ | 12 U | 12 U | 12 U | 25 U | 12 U | 64 | 12 U | 25 U |
| 2587 | 09-MAR-91 | 10 U | 10 U | 10 U | 6 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 170 | 5 U | 10 U |
| 2587 | 22-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 130 | 5 U | 10 U |
| 2587 | 10-SEP-91 | 20 U | 20 U | 20 U | 20 U | 10 U | 10 U | 10 U | 20 U | 10 U | 10 U | 10 U | 20 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2587 | 15-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 360 | 5 U | 5 U | 110 | 10 U | 10 U |
| 2587 | 08-MAY-89 | 5 J | 10 U | 5 U | 5 U | 5 U | 5 U | 840 | 5 U | 5 U | 120 | 10 U | 10 U |
| 2587 | 17-AUG-89 | 3 J | 10 U | 5 U | 5 U | 5 U | 5 U | 330 | 5 U | 5 U | 92 | 10 U | 10 U |
| 2587 | 01-FEB-90 | 5 U | 10 U | 5 U | 5 U | 6 B | 5 U | 2 J | 5 U | 5 U | 4 JB | 10 U | 10 U |
| 2587 | 11-JUN-90 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 340 | 5 U | 5 U | 54 | 10 U | 10 U |
| 2587 | 05-NOV-90 | 10 J | 25 U | 12 U | 12 U | 14 B | 12 U | 280 | 12 U | 12 U | 48 | 25 U | 25 U |
| 2587 | 09-MAR-91 | 3 J | 10 U | 5 U | 5 U | 3 J | 5 U | 330 D | 5 U | 5 U | 63 | 10 U | 10 U |
| 2587 | 22-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 330 D | 5 U | 5 U | 61 | 10 U | 10 U |
| 2587 | 10-SEP-91 | 10 U | 20 U | 10 U | 10 U | 5 BJ | 10 U | 280 | 10 U | 10 U | 33 | 20 U | 20 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2787 | 23-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2787 | 17-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2787 | 10-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2787 | 21-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 2787 | 05-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2787 | 12-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2787 | 27-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 14-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2887 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2787 | 23-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 8 | 5 U | 10 U |
| 2787 | 17-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 7 | 5 U | 10 U |
| 2787 | 10-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 15 | 5 U | 10 U |
| 2787 | 21-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 14 | 5 U | 10 U |
| 2787 | 05-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 17 | 5 U | 10 U |
| 2787 | 12-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 9 | 5 U | 10 U |
| 2787 | 27-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 12 | 5 U | 10 U |
| 2887 | 14-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2787 | 23-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 44 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2787 | 17-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 3 JB | 5 U | 16 | 3 JB | 5 U | 5 U | 10 U | 10 U |
| 2787 | 10-MAY-89 | 3 J | 10 U | 5 U | 5 U | 5 U | 5 U | 31 | 5 U | 5 U | 4 J | 10 U | 10 U |
| 2787 | 21-AUG-89 | 2 J | 10 U | 5 U | 5 U | 5 U | 5 U | 18 | 5 U | 5 U | 3 J | 10 U | 10 U |
| 2787 | 05-DEC-89 | 5 U | 10 U | 5 U | 5 U | 7 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2787 | 12-MAR-90 | 1 J | 10 U | 5 U | 5 U | 7 B | 5 U | 10 | 5 U | 5 U | 2 J | 10 U | 10 U |
| 2787 | 27-JUN-90 | 2 J | 10 U | 5 U | 5 U | 3 JB | 5 U | 13 | 5 U | 5 U | 2 J | 10 U | 10 U |
| 2887 | 14-MAR-88 | 27 | 10 U | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
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V=Valid and acceptable
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Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 22-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 16-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 2887 | 20-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 21-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 06-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 14-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 26-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 19-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 22-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 16-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 20-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 21-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 06-DEC-89 | 10 U | 10 U | 10 U | 27 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 14-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 26-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 19-SEP-90 | 8 BJ | 10 U | 9 BJ | 7 BJ | 5 U | 5 U | 5 U | 10 U | 12 | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 22-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 16-NOV-88 | 3 JB | 10 U | 5 U | 5 U | 4 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 20-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 08-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 21-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 06-DEC-89 | 5 U | 10 U | 5 U | 5 U | 7 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 14-MAR-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 26-JUN-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 19-SEP-90 | 5 U | 10 U | 5 U | 5 U | 8 B | 5 U | 5 U | 10 B | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 28-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 15-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 2887 | 04-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 10-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3187 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3187 | 25-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 22-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3187 | 22-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 28-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 15-JAN-91 | 10 U | 10 U | 10 U | 28 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 2887 | 04-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 10-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 25-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 22-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 22-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2887 | 28-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 15-JAN-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 16-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 2887 | 04-SEP-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 10-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 25-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 22-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 4 JB | 5 U | 5 U | 3 JB | 5 U | 5 U | 10 U | 10 U |
| 3187 | 22-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3187 | 10-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 14-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 13-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 27-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 18-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 21-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 11-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3187 | 10-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5.00 U | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tet trachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3187 | 10-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 14-DEC-89 | 10 U | 10 U | 10 U | 11 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 13-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 27-JUN-90 | 10 U | 10 U | 10 U | 5 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 18-SEP-90 | 5 BJ | 10 U | 10 U | 5 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 21-NOV-90 | 7 BJ | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 11-JAN-91 | 10 U | 10 U | 10 U | 4 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3187 | 10-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3187 | 10-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 14-DEC-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 13-MAR-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 27-JUN-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 18-SEP-90 | 5 U | 10 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 21-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 10 U | 10 U |
| 3187 | 11-JAN-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 16-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3187 | 10-SEP-91 | 5 U | 10 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 09-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3287 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3287 | 23-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 17-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3287 | 22-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 12-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 21-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 22-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 19-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 09-MAR-88 | 10 U | 10 U | 35 | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 23-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 17-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 22-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 12-DEC-89 | 10 U | 10 U | 10 U | 8 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 21-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3287 | 22-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 4 J | 5 U | 10 U |
| 3287 | 19-SEP-90 | 10 B | 10 U | 1 J | 12 B | 5 U | 5 U | 5 U | 10 U | 5 U | 20 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 09-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 44 | 10 U | 10 U |
| 3287 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 20 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 23-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 17-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 22-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 12-DEC-89 | 5 U | 10 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 21-FEB-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 22-JUN-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 19-SEP-90 | 2 J | 10 U | 5 U | 5 U | 12 B | 5 U | 26 B | 5 U | 5 U | 7 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 29-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 15-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3287 | 03-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3387 | 26-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3387 | 05-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 3487 | 09-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3487 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3487 | 24-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 29-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 | 5 U | 10 U |
| 3287 | 15-JAN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 8 | 5 U | 10 U |
| 3287 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 2 J | 5 U | 10 U |
| 3287 | 03-SEP-91 | 10 U | 10 U | 10 U | 10 U | 6 | 5 U | 5 U | 10 U | 5 U | 5 U | 9 | 10 U |
| 3387 | 26-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 42 | 5 U | 10 U |
| 3387 | 05-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 58 | 5 U | 10 U |
| 3487 | 09-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 24-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3287 | 29-NOV-90 | 1 J | 10 U | 5 U | 5 U | 5 U | 5 U | 11 | 1 J | 5 U | 3 J | 10 U | 10 U |
| 3287 | 15-JAN-91 | 1 J | 10 U | 5 U | 5 U | 2 J | 5 U | 20 | 5 U | 5 U | 3 J | 10 U | 10 U |
| 3287 | 16-APR-91 | 1 J | 10 U | 5 U | 5 U | 5 U | 5 U | 7 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3287 | 03-SEP-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 8 | 5 U | 7 | 10 U | 10 U |
| 3387 | 26-JUN-90 | 19 | 10 U | 5 U | 5 U | 5 U | 5 U | 17 | 5 U | 5 U | 6 | 10 U | 10 U |
| 3387 | 05-SEP-91 | 5 | 10 U | 5 U | 5 U | 5 U | 5 U | 21 | 5 U | 5 U | 9 | 10 U | 10 U |
| 3487 | 09-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 3 J | 10 U | 10 U |
| 3487 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 24-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-SEP-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3487 | 16-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3487 | 20-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 10-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 23-AUG-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 13-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 21-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 26-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 18-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-SEP-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 16-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 20-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 10-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 23-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 13-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 21-MAR-90 | 10 U | 10 U | 10 U | 4 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 26-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 18-SEP-90 | 3 BJ | 10 U | 10 U | 10 B | 5 U | 5 U | 5 U | 10 U | 5 U | 7 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-SEP-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 16-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 JB | 5 U | 5 U | 10 U | 10 U |
| 3487 | 20-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 10-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 | 10 U | 10 U |
| 3487 | 23-AUG-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 J | 10 U | 10 U |
| 3487 | 13-DEC-89 | 5 U | 10 U | 5 U | 5 U | 8 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 21-MAR-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 2 J | 10 U | 10 U |
| 3487 | 26-JUN-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 18-SEP-90 | 5 U | 10 U | 5 U | 5 U | 6 B | 5 U | 4 BJ | 5 U | 5 U | 1 J | 10 U | 10 U |

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A=Acceptable with qualifications
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V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 15-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3487 | 05-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 3687 | 09-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3687 | 04-MAY-88 | 5 U | 5 U | 5 U | 5 U | 230 | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3687 | 19-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3687 | 10-NOV-88 | 8 | 5 U | 5 U | 5 U | 506 | 5 U | 92 | 5 U | 5 U | | 5 U | 10 U |
| 3687 | 15-FEB-89 | 63 | 5 U | 5 U | 5 U | 32 | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 15-JAN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3487 | 05-SEP-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3687 | 09-MAR-88 | 10 U | 975 | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 545 | 5 U | 10 U |
| 3687 | 04-MAY-88 | 10 U | 10 U | 10 U | 11 | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3687 | 19-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 37 | 5 U | 10 U |
| 3687 | 10-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1611 | 5 U | 10 U |
| 3687 | 15-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 620 | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 28-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 15-JAN-91 | 5 U | 10 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 16-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3487 | 05-SEP-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3687 | 09-MAR-88 | 1370 | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 131820 | 10 U | 10 U |
| 3687 | 04-MAY-88 | 2810 | 10 U | 5 U | 5 U | 5 U | 5 U | 2450 | 5 U | 5 U | 221860 | 10 U | 10 U |
| 3687 | 19-AUG-88 | 56 | 10 U | 5 U | 5 U | 5 U | 5 U | 34 | 5 U | 5 U | 71150 | 10 U | 10 U |
| 3687 | 10-NOV-88 | 486 | 10 U | 5 U | 5 U | 5 U | 5 U | 396 | 5 U | 5 U | 2451 | 10 U | 10 U |
| 3687 | 15-FEB-89 | 270 | 10 U | 5 U | 5 U | 5 U | 5 U | 260 | 5 U | 5 U | 49000 | 10 U | 10 U |

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Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 22 J | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3687 | 11-SEP-89 | 200 | 5 U | 5 U | 6 | 150 | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 3687 | 10-NOV-89 | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | | 2500 U | |
| 3687 | 05-MAR-90 | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | | 1000 U | |
| 3687 | 05-JUN-90 | 130 | 5 U | 5 U | 3 J | 67 | 5 U | 42 | 5 U | 5 U | | 5 U | |
| 3687 | 29-AUG-90 | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | | 2500 U | |
| 3687 | 12-NOV-90 | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | 1000 U | | 1000 U | |
| 3687 | 08-MAR-91 | 140 | 5 U | 5 | 4 J | 63 | 2 J | 60 | 5 U | 5 U | | 5 U | |
| 3687 | 19-APR-91 | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | | 250 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 610 | 5 U | 10 U |
| 3687 | 11-SEP-89 | 9 J | 8 J | 10 U | 190 | 1 J | 5 U | 5 U | 10 U | 5 U | 550 | 5 U | 10 U |
| 3687 | 10-NOV-89 | 5000 U | 5000 U | 5000 U | 5000 U | 2500 U | 2500 U | 2500 U | 5000 U | 2500 U | 2500 U | 2500 U | 5000 U |
| 3687 | 05-MAR-90 | 2000 U | 2000 U | 2000 U | 860 JB | 1000 U | 1000 U | 1000 U | 2000 U | 1000 U | 410 J | 1000 U | 2000 U |
| 3687 | 05-JUN-90 | 10 U | 10 U | 8 J | 16 B | 5 U | 5 U | 5 U | 10 U | 5 U | 770 | 5 U | 10 U |
| 3687 | 29-AUG-90 | 5000 U | 5000 U | 5000 U | 4100 BJ | 2500 U | 2500 U | 2500 U | 5000 U | 2500 U | 940 J | 2500 U | 5000 U |
| 3687 | 12-NOV-90 | 2000 U | 2000 U | 2000 U | 2000 U | 1000 U | 1000 U | 1000 U | 2000 U | 1000 U | 470 J | 1000 U | 2000 U |
| 3687 | 08-MAR-91 | 10 U | 10 U | 10 | 37 B | 5 U | 1 J | 5 U | 10 U | 5 U | 770 D | 5 U | 10 U |
| 3687 | 19-APR-91 | 500 U | 500 U | 500 U | 500 U | 250 U | 250 U | 250 U | 500 U | 250 U | 800 | 250 U | 500 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 08-MAY-89 | 290E | 10 U | 5 U | 5 U | 5 U | 5 U | 350E | 2 J | 5 U | 12000 | 10 U | 10 U |
| 3687 | 11-SEP-89 | 1300 | 10 U | 5 U | 5 U | 19 | 5 U | 520 | 13 | 5 U | 110000 | 10 U | 10 U |
| 3687 | 10-NOV-89 | 2500 U | 5000 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 2500 U | 18000 | 5000 U | 5000 U |
| 3687 | 05-MAR-90 | 610 J | 2000 U | 1000 U | 1000 U | 1600 B | 1000 U | 490 J | 1000 U | 1000 U | 47000 B | 2000 U | 2000 U |
| 3687 | 05-JUN-90 | 850 | 10 U | 5 U | 5 U | 19 B | 5 U | 610 | 5 | 5 U | 57000 | 10 U | 10 U |
| 3687 | 29-AUG-90 | 1100 J | 5000 U | 2500 U | 2500 U | 1400 BJ | 2500 U | 1100 J | 2500 U | 2500 U | 96000 | 5000 U | 5000 U |
| 3687 | 12-NOV-90 | 540 J | 2000 U | 1000 U | 1000 U | 1600 B | 1000 U | 440 J | 1000 U | 1000 U | 39000 | 2000 U | 2000 U |
| 3687 | 08-MAR-91 | 930 D | 10 U | 5 U | 5 U | 14 B | 5 U | 610 D | 10 B | 5 U | 45000 DE | 10 U | 10 U |
| 3687 | 19-APR-91 | 350 | 500 U | 250 U | 250 U | 250 U | 250 U | 470 | 250 U | 250 U | 38000 D | 500 U | 500 U |

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R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 23-AUG-91 | 130 | 100 U | 100 U | 100 U | 57 J | 100 U | 40 J | 100 U | 100 U | | 100 U | |
| 3986 | __-SEP-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 06-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 3986 | 03-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 3986 | 03-SEP-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 3986 | 12-DEC-87 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 09-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3986 | 04-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3986 | 19-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 23-AUG-91 | 200 U | 200 U | 200 U | 25 BJ | 100 U | 100 U | 100 U | 200 U | 100 U | 870 | 100 U | 200 U |
| 3986 | __-SEP-86 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 06-MAY-87 | | | | | | | | | | 4 U | | |
| 3986 | 03-JUN-87 | | | | | | | | | | 4 U | | |
| 3986 | 03-SEP-87 | | | | | | | | | | 5 U | | |
| 3986 | 12-DEC-87 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 09-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 04-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 2292 | 5 U | 10 U |
| 3986 | 19-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 23-AUG-91 | 840 | 200 U | 100 U | 100 U | 27 J | 100 U | 770 | 100 U | 100 U | 68000 D | 200 U | 200 U |
| 3986 | __-SEP-86 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 06-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 3986 | 03-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 3986 | 03-SEP-87 | 5 U | | | | | | 5 U | | | 5 U | | |
| 3986 | 12-DEC-87 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 09-MAR-88 | 5 U | 10 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 10 U | 10 U |
| 3986 | 04-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 845 | 5 U | 5 U | 310 | 10 U | 10 U |
| 3986 | 19-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

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J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 10-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 3986 | 15-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 21-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 5 U | | 5 U | |
| 3986 | 04-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 09-AUG-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 01-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 3986 | 19-MAR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 3986 | 14-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 10-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 15-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 21-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 04-JUN-90 | 10 U | 10 U | 10 U | 27 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 09-AUG-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 01-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 19-MAR-91 | 10 U | 10 U | 10 U | 4 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 3986 | 14-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloro ethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 10-NOV-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 | 5 U | 5 U | 418 | 10 U | 10 U |
| 3986 | 15-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 08-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 21-FEB-90 | 5 U | 10 U | 5 U | 5 U | 3 JB | 5 U | 3 J | 5 U | 5 U | 1 J | 10 U | 10 U |
| 3986 | 04-JUN-90 | 5 U | 10 U | 5 U | 5 U | 18 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 09-AUG-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 01-NOV-90 | 5 U | 10 U | 5 U | 5 U | 7 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 19-MAR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 3986 | 14-MAY-91 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 16-AUG-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 06-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 4086 | 01-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 4086 | 10-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4086 | 12-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4086 | 24-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 16-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4086 | 15-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 10-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 16-AUG-91 | 10 U | 10 U | 10 U | 12 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 06-MAY-87 | | | | | | | | | | 4 U | | |
| 4086 | 01-JUN-87 | | | | | | | | | | 4 U | | |
| 4086 | 10-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 12-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 24-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 16-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 15-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 10-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 16-AUG-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 06-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 4086 | 01-JUN-87 | 4 U | | | | | | 130 | | | 4 U | | |
| 4086 | 10-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 12-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 24-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 16-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 3 JB | 5 U | 5 U | 4 JB | 5 U | 5 U | 10 U | 10 U |
| 4086 | 15-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 10-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4086 | 13-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 19-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 20-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 28-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 11-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 16-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4086 | 06-SEP-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | |
| 4186 | __-SEP-86 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 06-MAY-87 | 4 U | | 4 U | | 4 U | 5 U | 4 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4086 | 13-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 19-FEB-90 | 10 U | 10 U | 10 U | 2 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 20-SEP-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 28-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 11-JAN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 16-APR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4086 | 06-SEP-91 | 10 U | 10 U | 10 U | 6 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | __-SEP-86 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 06-MAY-87 | | | | | | | | | | 4 U | | |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4086 | 13-DEC-89 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 19-FEB-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 20-SEP-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 28-NOV-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 11-JAN-91 | 5 U | 10 U | 5 U | 5 U | 2 J | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 16-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4086 | 06-SEP-91 | 5 U | 10 U | 5 U | 5 U | 1 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | __-SEP-86 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 06-MAY-87 | 4 U | | | | | | 160 | | | 4 U | | |

U=Analyzed but not detected
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J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 01-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 4186 | 20-JUL-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 4186 | 10-MAR-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4186 | 04-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 7 | 5 U | 5 U | | 5 U | 10 U |
| 4186 | 22-NOV-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4186 | 20-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 10-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 07-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 19-FEB-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 01-JUN-87 | | | | | | | | | | 4 U | | |
| 4186 | 20-JUL-87 | | | | | | | | | | 4 U | | |
| 4186 | 10-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 04-MAY-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 22-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 20-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 10-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 07-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 19-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 01-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 4186 | 20-JUL-87 | 4 U | | | | | | 11 | | | 4 U | | |
| 4186 | 10-MAR-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 04-MAY-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 50 | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 22-NOV-88 | 2 JB | 10 U | 5 U | 5 U | 4 JB | 5 U | 5 U | 4 JB | 5 U | 5 U | 10 U | 10 U |
| 4186 | 20-FEB-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 3 J | 10 U | 10 U |
| 4186 | 10-MAY-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 07-DEC-89 | 5 U | 10 U | 5 U | 5 U | 6 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 19-FEB-90 | 5 U | 10 U | 5 U | 5 U | 5 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
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E=Estimated Value
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Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 22-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 17-SEP-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 20-NOV-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 10-JAN-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4186 | 15-APR-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4286 | __-SEP-86 | 4 J | 5 U | 5 U | 5 U | 4 J | 5 U | | 5 U | 5 U | 53 | 5 U | 10 U |
| 4286 | 12-MAR-87 | 4 U | | 4 U | | 4 U | 4 U | 17 | | | | | |
| 4286 | 26-MAY-87 | 4 U | | 4 U | | 4 U | 320 | 4 U | | | | | |
| 4286 | 03-SEP-87 | 5 U | | 5 U | | 26 | 5 U | 5 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 22-JUN-90 | 10 U | 10 U | 10 U | 18 B | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4186 | 17-SEP-90 | 5 BJ | 10 U | 10 U | 5 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 3 J | 5 U | 10 U |
| 4186 | 20-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 2 J | 5 U | 10 U |
| 4186 | 10-JAN-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 7 | 5 U | 10 U |
| 4186 | 15-APR-91 | 10 U | 10 U | 10 U | 14 | 5 U | 5 U | 5 U | 10 U | 5 U | 4 J | 5 U | 10 U |
| 4286 | __-SEP-86 | 5 BJ | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1560 | 5 U | 10 U |
| 4286 | 12-MAR-87 | | | | | | | | | | 750 | | |
| 4286 | 26-MAY-87 | | | | | | | | | | 3300 | | |
| 4286 | 03-SEP-87 | | | | | | | | | | 4835 | | |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 22-JUN-90 | 5 U | 10 U | 5 U | 5 U | 6 B | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4186 | 17-SEP-90 | 1 J | 10 U | 5 U | 5 U | 7 B | 5 U | 4 BJ | 1 J | 5 U | 5 U | 10 U | 10 U |
| 4186 | 20-NOV-90 | 2 J | 10 U | 5 U | 5 U | 3 BJ | 5 U | 2 J | 3 J | 5 U | 5 U | 10 U | 10 U |
| 4186 | 10-JAN-91 | 1 J | 10 U | 5 U | 5 U | 2 J | 5 U | 14 | 5 U | 5 U | 2 J | 10 U | 10 U |
| 4186 | 15-APR-91 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 8 | 5 U | 5 U | 2 J | 10 U | 10 U |
| 4286 | __-SEP-86 | 159 | 10 U | 5 U | 5 U | 6 | 5 U | 320 | 5 U | 5 U | 260 | 10 U | 10 U |
| 4286 | 12-MAR-87 | 40 | | | | | | 152 | | | 110 | | |
| 4286 | 26-MAY-87 | 100 | | | | | | 3200 | | | 1400 | | |
| 4286 | 03-SEP-87 | 107 | | | | | | 1040 | | | 870 | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 14-OCT-87 | 5 U | | 5 U | | 5 U | 5 U | 5 U | | | | | |
| 4286 | 03-MAR-88 | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4286 | 04-MAY-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4286 | 25-AUG-88 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4286 | 17-NOV-88 | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U | 5 U | 5 U | 5 U | | 5 U | 10 U |
| 4286 | 20-FEB-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4286 | 08-MAY-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 4286 | 17-AUG-89 | 5 U | 5 U | 5 U | 5 U | 4 J | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U |
| 4286 | 06-DEC-89 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | | 50 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 14-OCT-87 | | | | | | | | | | 1695 | | |
| 4286 | 03-MAR-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1741 | 5 U | 10 U |
| 4286 | 04-MAY-88 | 10 U | 10 U | 10 U | 5 J | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 4286 | 25-AUG-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1353 | 5 U | 10 U |
| 4286 | 17-NOV-88 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1300 | 5 U | 10 U |
| 4286 | 20-FEB-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 760 | 5 U | 10 U |
| 4286 | 08-MAY-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1100 | 5 U | 10 U |
| 4286 | 17-AUG-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1000 | 5 U | 10 U |
| 4286 | 06-DEC-89 | 100 U | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 770 | 50 U | 100 U |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 14-OCT-87 | 41 | | | | | | 626 | | | 197 | | |
| 4286 | 03-MAR-88 | 43 | 10 U | 5 U | 5 U | 5 U | 5 U | 516 | 5 U | 5 U | 274 | 10 U | 10 U |
| 4286 | 04-MAY-88 | 57 | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 4286 | 25-AUG-88 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 382 | 5 U | 5 U | 153 | 10 U | 10 U |
| 4286 | 17-NOV-88 | 21 B | 10 U | 5 U | 5 U | 2 JB | 5 U | 310 | 4 JB | 5 U | 140 | 10 U | 10 U |
| 4286 | 20-FEB-89 | 20 | 10 U | 5 U | 5 U | 5 U | 5 U | 180 | 5 U | 5 U | 95 | 10 U | 10 U |
| 4286 | 08-MAY-89 | 21 J | 10 U | 5 U | 5 U | 5 U | 5 U | 300 | 5 U | 5 U | 190 | 10 U | 10 U |
| 4286 | 17-AUG-89 | 33 | 10 U | 5 U | 5 U | 5 U | 5 U | 230 | 5 U | 5 U | 180 | 10 U | 10 U |
| 4286 | 06-DEC-89 | 50 U | 100 U | 50 U | 50 U | 50 U | 50 U | 130 | 50 U | 50 U | 50 U | 100 U | 100 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 30-JAN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 47 | 5 U | 5 U | | 5 U | |
| 4286 | 11-JUN-90 | 5 U | 5 U | 5 U | 5 U | 2 J | 5 U | 59 | 5 U | 5 U | | 5 U | |
| 4286 | 24-AUG-90 | 1 J | 5 U | 5 U | 5 U | 2 J | 5 U | 63 | 5 U | 5 U | | 5 U | |
| 4286 | 16-NOV-90 | 2 J | 5 U | 5 U | 5 U | 2 J | 5 U | 49 | 5 U | 5 U | | 5 U | |
| 4286 | 08-MAR-91 | 5 U | 5 U | 5 U | 5 U | 1 J | 5 U | 37 | 5 U | 5 U | | 5 U | |
| 4286 | 17-MAY-91 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 32 | 5 U | 5 U | | 5 U | |
| 6786 | 11-MAY-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 6786 | 01-JUN-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |
| 6786 | 20-JUL-87 | 4 U | | 4 U | | 4 U | 4 U | 4 U | | | | | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 30-JAN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 600 | 5 U | 10 U |
| 4286 | 11-JUN-90 | 10 U | 10 U | 10 U | 2 JB | 5 U | 5 U | 5 U | 10 U | 5 U | 1000 | 5 U | 10 U |
| 4286 | 24-AUG-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1000 E | 5 U | 10 U |
| 4286 | 16-NOV-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 700 D | 5 U | 10 U |
| 4286 | 08-MAR-91 | 10 U | 10 U | 10 U | 7 BJ | 5 U | 5 U | 5 U | 10 U | 5 U | 500 D | 5 U | 10 U |
| 4286 | 17-MAY-91 | 10 U | 10 U | 10 U | 18 B | 5 U | 5 U | 5 U | 10 U | 5 U | 420 D | 5 U | 10 U |
| 6786 | 11-MAY-87 | | | | | | | | | | 4 U | | |
| 6786 | 01-JUN-87 | | | | | | | | | | 4 U | | |
| 6786 | 20-JUL-87 | | | | | | | | | | 4 U | | |

| Well Number | Date Sampled | Chloroform | Chloro methane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 30-JAN-90 | 15 | 10 U | 5 U | 5 U | 5 U | 5 U | 160 | 5 U | 5 U | 88 | 10 U | 10 U |
| 4286 | 11-JUN-90 | 20 | 10 U | 5 U | 5 U | 3 JB | 5 U | 190 | 5 U | 5 U | 95 | 10 U | 10 U |
| 4286 | 24-AUG-90 | 20 | 10 U | 5 U | 5 U | 4 BJ | 5 U | 220 E | 5 U | 5 U | 100 | 10 U | 10 U |
| 4286 | 16-NOV-90 | 14 | 10 U | 5 U | 5 U | 5 U | 5 U | 170 | 5 U | 5 U | 80 | 10 U | 10 U |
| 4286 | 08-MAR-91 | 19 | 10 U | 5 U | 5 U | 14 B | 5 U | 120 | 2 BJ | 2 BJ | 340 D | 10 U | 10 U |
| 4286 | 17-MAY-91 | 11 | 10 U | 5 U | 5 U | 5 U | 5 U | 99 | 5 U | 5 U | 53 | 10 U | 10 U |
| 6786 | 11-MAY-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 6786 | 01-JUN-87 | 4 U | | | | | | 4 U | | | 4 U | | |
| 6786 | 20-JUL-87 | 4 U | | | | | | 4 U | | | 4 U | | |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6786 | 13-DEC-89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 6786 | 08-FEB-90 | 25 | 5 UJ | 5 U | 5 U | 18 | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 6786 | 12-JUN-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 6786 | 22-AUG-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 6786 | 05-OCT-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218789 | 14-MAR-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| B218789 | 25-MAY-90 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 95 | 5 U | 5 U | | 5 U | |
| B218789 | 13-SEP-90 | 50 U | 50 U | 50 U | 50 U | 50 U | 50 U | | 50 U | 50 U | 50 U | 50 U | |
| B218789 | 22-OCT-90 | 5 U | 5 U | 5 U | 5 U | 3 J | 5 U | 75 | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6786 | 13-DEC-89 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 6786 | 08-FEB-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1 J | 5 U | 10 U |
| 6786 | 12-JUN-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 6786 | 22-AUG-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| 6786 | 05-OCT-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 10 U |
| B218789 | 14-MAR-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 730 | 5 U | 10 U |
| B218789 | 25-MAY-90 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 560 | 5 U | 10 U |
| B218789 | 13-SEP-90 | 100 U | 100 U | 100 U | 100 U | 50 U | 50 U | 50 U | 100 U | 50 U | 920 | 11 BJ | 100 U |
| B218789 | 22-OCT-90 | 10 U | 10 U | 10 U | 16 B | 5 U | 5 U | 5 U | 10 U | 5 U | 960 D | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6786 | 13-DEC-89 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 6786 | 08-FEB-90 | 5 U | 10 U | 5 U | 5 U | 4 JB | 5 U | 4 J | 5 U | 5 U | 33 | 10 U | 10 U |
| 6786 | 12-JUN-90 | 5 U | 10 U | 5 U | 5 U | 2 JB | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 6786 | 22-AUG-90 | 5 U | 10 U | 5 U | 5 U | 3 BJ | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| 6786 | 05-OCT-90 | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 10 U |
| B218789 | 14-MAR-90 | 18 | 10 U | 5 U | 5 U | 5 U | 5 U | 170 | 5 U | 5 U | 92 | 10 U | 10 U |
| B218789 | 25-MAY-90 | 18 | 10 U | 5 U | 5 U | 5 U | 5 U | 210 | 5 U | 5 U | 100 | 10 U | 10 U |
| B218789 | 13-SEP-90 | 18 J | 100 U | 50 U | 50 U | 11 J | 50 U | 200 | 30 J | 50 U | 79 | 100 U | 100 U |
| B218789 | 22-OCT-90 | 16 | 10 U | 5 U | 5 U | 6 B | 5 U | 200 D | 5 U | 5 U | 99 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

Ground Water Volatile Organic Results
East Trenches Area
Results reported in ug/l

| Well Number | Date Sampled | 1,1,1-Trichloroethane | 1,1,2,2-Tetrachlorethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | 1,2-Dichloroethene | 1,2-Dichloropropane | cis-1,3-Dichloropropene | trans-1,2-Dichloroethene | trans-1,3-Dichloropropene | 2-Chloroethyl Vinyl Ether |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 08-MAR-91 | 5 U | 15 | 5 U | 5 U | 4 J | 5 U | 90 | 5 U | 5 U | | 5 U | |
| B218789 | 21-MAY-91 | 2 J | 5 U | 5 U | 5 U | 4 J | 5 U | 90 | 5 U | 5 U | | 5 U | |
| B218789 | 20-AUG-91 | 5 U | 4 J | 5 U | 5 U | 7 | 5 U | 170 | 5 U | 5 U | | 5 U | |

| Well Number | Date Sampled | 2-Butanone | 2-Hexanone | 4-Methyl-2 pentanone | Acetone | Benzene | Bromodichloromethane | Bromoform | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 08-MAR-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 830 D | 5 U | 10 U |
| B218789 | 21-MAY-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1500 D | 5 U | 10 U |
| B218789 | 20-AUG-91 | 10 U | 10 U | 10 U | 10 U | 5 U | 5 U | 5 U | 10 U | 5 U | 1600 D | 5 U | 10 U |

| Well Number | Date Sampled | Chloroform | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 08-MAR-91 | 36 | 10 U | 5 U | 5 U | 5 B | 5 U | 170 D | 5 U | 5 U | 100 D | 10 U | 10 U |
| B218789 | 21-MAY-91 | 18 | 10 U | 5 U | 5 U | 2 BJ | 5 U | 280 D | 5 U | 5 U | 110 | 10 U | 10 U |
| B218789 | 20-AUG-91 | 22 | 10 U | 5 U | 5 U | 5 U | 5 U | 270 D | 5 U | 5 U | 160 | 10 U | 10 U |

U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid and acceptable
E=Estimated Value
R=Rejected
D=Diluted Sample

# GROUND-WATER SAMPLING RESULTS
# DISSOLVED METALS

Ground Water Dissolved Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 84 | 0.1 U | 0.01 U | 0.17 | 0.025 U | 0.27 U | 0.01 U | |
| 0171 | 09-MAR-87 | 0.029 U | 0.06 U | 0.01 U | 0.3006 | 0.005 U | 0.005 U | 74.2379 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.436 | 0.005 U | |
| 0171 | 30-APR-87 | 0.029 U | 0.06 U | 0.01 U | 0.2387 | 0.005 U | 0.005 U | 71.7187 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.2571 | 0.005 U | |
| 0171 | 01-MAY-87 | | 0.06 U | 0.01 U | | | 0.005 U | | 0.2 U | | | | | 0.005 U | |
| 0171 | 21-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.2969 | 0.005 U | 0.005 U | 86.5157 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 1.233 | 0.02 | |
| 0171 | 02-JUL-87 | 0.0505 | 0.02 U | 0.005 U | 0.299 | 0.005 U | 0.001 U | 79.9108 | 0.02 U | 0.01 U | 0.022 U | 0.0138 | 0.7001 | 0.005 U | |
| 0171 | 15-OCT-87 | 0.0619 | 0.02 U | 0.005 U | 0.2754 | 0.002 J | 0.0007 J | 61.9404 | 0.02 U | 0.0208 | 0.022 U | 0.0063 U | 0.2821 | 0.002 J | 0.04 J |
| 0171 | 26-FEB-88 | 0.029 U | 0.022 | 0.005 U | 0.2707 | 0.005 U | 0.001 U | 62.734 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.2209 | 0.005 U | 0.1 U |
| 0171 | 19-APR-88 | 0.029 U | 0.034 U | 0.005 U | 0.2153 | 0.001 U | 0.005 U | 62.7596 | 0.02 U | 0.01 U | 0.022 U | 0.0155 | 0.9135 | 0.005 U | 0.1 U |
| 0171 | 26-JUL-88 | 0.029 U | 0.0357 | 0.005 U | 0.295 | 0.001 U | 0.005 U | 76.0152 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.3598 | 0.005 U | |
| 0171 | 31-OCT-88 | 0.0412 | 0.034 U | 0.005 U | 0.2943 | 0.001 U | 0.005 U | 75.7906 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.068 | 0.005 U | |
| 0171 | 02-FEB-89 | 0.0193 J | 0.05 U | 0.001 U | 0.2967 | 0.002 U | 0.005 U | 76.9057 | 0.005 U | 0.0093 J | 0.029 U | 0.0114 | 0.221 | 0.001 U | |
| 0171 | 02-MAY-89 | 0.0261 J | 0.05 U | .001 U | 0.2785 | 0.002 U | 0.005 U | 71.9889 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 0171 | 08-AUG-89 | | 0.05 U | | 0.2795 | 0.002 U | 0.005 U | 70.6931 | | 0.009 U | 0.029 U | 0.004 U | 0.035 U | | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 15 | 0.143 | 0.0002 U | 0.1 U | 0.04 U | 1.66 | 0.015 | 0.02 | 11.2 | 0.58 | 0.01 U | | 0.05 U | 0.04 U |
| 0171 | 09-MAR-87 | 14.5046 | 0.1243 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 16.5882 | 0.4816 | 0.01 U | | 0.024 U | 0.02 U |
| 0171 | 30-APR-87 | 16.2021 | 0.1025 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 18.9527 | 0.5248 | 0.01 U | | 0.024 U | 0.02 U |
| 0171 | 01-MAY-87 | | | 0.0002 U | | | 5 U | 0.005 U | | | | 0.01 U | | | 0.02 U |
| 0171 | 21-MAY-87 | 14.9964 | 0.1627 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 19.9155 | 0.4885 | 0.01 U | | 0.024 U | 0.0417 |
| 0171 | 02-JUL-87 | 13.5221 | 0.1437 | 0.0002 U | 0.022 U | 0.0502 | 1.2 | 0.005 U | 0.0076 U | 19.1208 | 0.5254 | 0.01 U | | 0.024 U | 0.031 |
| 0171 | 15-OCT-87 | 13.7303 | 0.0773 | 0.0002 U | 0.022 U | 0.037 U | 1.6 | 0.005 U | 0.0076 U | 17.111 | 0.4912 | 0.01 U | | 0.0243 | 0.0395 |
| 0171 | 26-FEB-88 | 14.4334 | 0.0953 | 0.0002 U | 0.022 U | 0.037 U | 1.5 | 0.005 U | 0.0076 U | 17.831 | 0.4952 | 0.01 U | | 0.024 U | 0.0268 |
| 0171 | 19-APR-88 | 14.0425 | 0.0963 | 0.0002 U | 0.022 U | 0.037 U | 1.3 | 0.003 J | 0.0076 U | 16.936 | 0.4521 | 0.01 U | | 0.036 U | 0.0259 |
| 0171 | 26-JUL-88 | 14.9166 | 0.1247 | 0.0002 U | 0.022 U | 0.037 U | 1.2 | 0.005 U | 0.0076 U | 19.9541 | 0.4989 | 0.01 U | | 0.036 U | 0.02 U |
| 0171 | 31-OCT-88 | 13.9217 | 0.111 | 0.0002 U | 0.022 U | 0.037 U | 2.6 | 0.005 U | 0.0076 U | 19.3502 | 0.5496 | 0.01 U | | 0.036 U | 0.024 |
| 0171 | 02-FEB-89 | 15.2646 | 0.1109 | 0.0002 U | 0.027 U | 0.0336 J | 1.2 J | .0019 J | 0.0049 J | 18.7601 | 0.5169 | 0.001 U | | 0.034 U | 0.008 U |
| 0171 | 02-MAY-89 | 14.258 | 0.1147 | .0002 U | 0.027 U | .022 U | 1.35 J | .001 U | 0.004 U | 17.5609 | 0.5274 | .001 U | | 0.034 U | 0.008 U |
| 0171 | 08-AUG-89 | 13.5688 | 0.0945 | | 0.027 U | 0.022 U | | | 0.004 U | 16.3534 | 0.511 | | | 0.034 U | 0.008 U |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 29-NOV-89 | .2 U | .06 U | .01 U | .318 | .005 U | .005 U | 77.1 | 1.0 U | .01 U | .05 U | .025 U | .403 | .005 U | .1 U |
| 0171 | 23-FEB-90 | 0.2 U | 0.06 U | 0.01 U | 0.303 | 0.005 U | 0.005 U | 76.7 | 2.5 U | 0.01 U | 0.05 U | 0.025 U | 0.151 | 0.003 U | 0.1 U |
| 0171 | 17-APR-91 | 0.0544 B | 0.0115 B | 0.002 U | 0.291 | 0.001 U | 0.002 U | 79 | 0.112 U | 0.0082 B | 0.003 U | 0.0022 B | 0.318 | 0.001 U | 0.0684 B |
| 0171 | 10-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.278 | 0.002 U | 0.003 U | 77.4 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0016 B | 0.05 U |
| 0271 | __-AUG-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 84 | 0.1 U | 0.01 U | 0.11 | 0.025 U | 53.4 | 0.088 U | |
| 0271 | 11-MAR-87 | 0.029 U | 0.06 U | 0.01 U | 0.1175 | 0.005 U | 0.005 U | 65.6058 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.9181 | 0.005 U | |
| 0271 | 09-APR-87 | 0.029 U | 0.06 U | 0.01 U | 0.0748 | 0.005 U | 0.005 U | 66.4747 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 0271 | 21-MAY-87 | 0.0643 | 0.06 U | 0.01 U | 0.0829 | 0.005 U | 0.005 U | 86.2693 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.7071 | 0.019 | |
| 0271 | 02-JUL-87 | 0.0367 | 0.02 U | 0.003 J | 0.0909 | 0.005 U | 0.001 U | 95.630 | 0.02 U | 0.01 U | 0.022 U | 0.0169 | 0.0132 | 0.005 U | |
| 0271 | 26-FEB-88 | 0.029 U | 0.02 U | 0.005 U | 0.1105 | 0.005 U | 0.001 U | 116.9765 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0172 | 0.005 U | 0.07 J |
| 0271 | 21-APR-88 | 0.0359 | 0.034 U | 0.005 U | 0.1058 | 0.001 U | 0.005 U | 179.8336 | 0.02 U | 0.0288 | 0.022 U | 0.0084 | 0.0996 | 0.005 U | 0.07 J |
| 0271 | 26-JUL-88 | 0.029 U | 0.071 | 0.005 U | 0.1196 | 0.001 U | 0.005 U | 201.1006 | 0.02 U | 0.0134 | 0.022 U | 0.0063 U | 0.101 | 0.005 U | |
| 0271 | 08-AUG-89 | 0.037 J | 0.05 U | | 0.1207 J | 0.002 U | 0.005 U | 173.4174 | | 0.009 U | 0.029 U | 0.004 U | 0.035 U | | |
| 0271 | 26-FEB-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 90 | 2.5 U | 0.01 U | 0.05 U | 0.025 U | 75.2 | 0.003 U | 0.1 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 29-NOV-89 | 14.6 | .121 | .0003 | .1 U | .04 U | 5.0 U | .005 U | .01 U | 16.5 | 1.0 U | .01 U | .1 U | .05 U | .02 U |
| 0171 | 23-FEB-90 | 15.6 | 0.0992 | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 17.7 | 0.527 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 0171 | 17-APR-91 | 15.5 | 0.123 | 0.0002 U | 0.003 U | 0.004 U | 1.56 BE | 0.002 UN | 0.0057 B | 17.3 | 0.534 | 0.001 B | 0.0259 B | 0.0067 B | 0.0085 B |
| 0171 | 10-SEP-91 | 14.8 | 0.095 | 0.0002 U | 0.01 U | 0.01 U | 2.0 U | 0.001 U | 0.005 U | 18 | 0.506 | 0.001 U | 0.1 U | 0.01 U | 0.01 U |
| 0271 | __-AUG-86 | 12.5 | 0.8 | 0.00024 | 0.192 | 0.04 U | 2.2 | 0.018 | 0.02 | 135 | 0.57 | 0.01 U | | 0.05 U | 0.04 U |
| 0271 | 11-MAR-87 | 16.474 | 0.1551 | 0.0002 U | 0.022 U | 0.037 U | 5.0 U | 0.021 | 0.0076 U | 187.0130 | 0.5942 | 0.01 U | | 0.024 U | 0.04 |
| 0271 | 09-APR-87 | 20.0582 | 0.0456 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.03 | 0.0076 U | 187.6075 | 0.607 | 0.01 U | | 0.024 U | 0.04 |
| 0271 | 21-MAY-87 | 22.6418 | 0.0428 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.036 | 0.0076 U | 195.6574 | 0.6492 | 0.01 U | | 0.024 U | 0.0346 |
| 0271 | 02-JUL-87 | 25.7632 | 0.0333 | 0.0003 | 0.022 U | 0.037 U | 2.6 | 0.026 | 0.0076 U | 221.1795 | 0.8473 | 0.01 U | | 0.024 U | 0.0351 |
| 0271 | 26-FEB-88 | 34.9517 | 0.1469 | 0.0002 U | 0.022 U | 0.0478 | 2.7 | 0.03 | 0.0076 U | 213.6941 | 1.0162 | 0.01 U | | 0.024 U | 0.0209 |
| 0271 | 21-APR-88 | 45.8643 | 0.0946 | 0.0002 U | 0.022 U | 0.05 | 2.1 | 0.04 | 0.0076 U | 234.7011 | 1.2316 | 0.01 U | | 0.036 U | 0.0522 |
| 0271 | 26-JUL-88 | 17.722 | 0.1636 | 0.0002 U | 0.022 U | 0.037 U | 2.4 | 0.028 | 0.0076 U | 259.5513 | 1.4771 | 0.01 U | | 0.036 U | 0.0411 |
| 0271 | 08-AUG-89 | 43.6386 | 0.1094 | | 0.027 U | 0.0364 B | | | 0.004 U | 233.6380 | 1.6067 | | | 0.034 U | 0.008 U |
| 0271 | 26-FEB-90 | 24.1 | 0.93 | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.01 U | 0.01 U | 236 | 0.77 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |

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U=Analyzed but not detected J=Present below detection limit E=Estimated Value
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Ground Water Dissolved Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0271 | 21-NOV-90 | 0.156 B | 0.0523 B | 0.002 U | 0.114 BE | 0.001 U | 0.0053 | 324 | 0.076 U | 0.0407 | 0.0142 B | 0.0104 B | 0.756 | 0.001 U | 0.107 |
| 0271 | 19-APR-91 | 0.0698 B | 0.006 U | 0.002 U | 0.127 B | 0.001 U | 0.002 U | 237 | 0.112 U | 0.003 U | 0.003 U | 0.011 U | 53.2 * | 0.001 U | 0.121 |
| 0271 | 10-SEP-91 | 0.139 B | 0.05 U | 0.002 U | 0.113 B | 0.0042 B | 0.003 U | 260 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 39.5 | 0.0011 B | 0.125 |
| 1187 | 18-SEP-87 | 0.029 U | 0.02 U | 0.005 U | 0.1299 | 0.005 U | 0.001 U | 116.9472 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.003 J | 0.07 |
| 1187 | 18-FEB-88 | 0.029 U | 0.02 U | 0.005 U | 0.1049 | 0.005 U | 0.001 U | 98.4283 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0224 | 0.005 U | 0.06 J |
| 1187 | 01-DEC-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 90 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 1187 | 15-JUN-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 105 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 1187 | 28-NOV-90 | 0.0596 B | 0.0318 B | 0.002 U | 0.0824 B | 0.001 U | 0.002 U | 109 | 0.076 U | 0.017 | 0.0043 B | 0.0098 B | 0.0997 B | 0.001 UW | 0.0566 B |
| 1187 | 06-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.243 | 0.002 U | 0.0051 | 98.2 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0014 B | 0.05 U |
| 1287 | 02-SEP-87 | 0.0852 | 0.02 U | 0.005 U | 0.0843 | 0.005 U | 0.0005 J | 35.195 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0385 | 0.005 U | 0.13 |
| 1287 | 26-FEB-88 | 0.029 U | 0.02 U | 0.005 U | 0.0434 | 0.005 U | 0.001 U | 31.0631 | 0.02 U | 0.01 U | 0.022 U | 0.0088 | 0.0169 | 0.005 U | 0.11 |
| 1287 | 21-APR-88 | 0.047 | 0.034 U | 0.005 U | 0.0332 | 0.001 U | 0.005 U | 36.1776 | 0.02 U | 0.01 U | 0.022 U | 0.0098 | 0.0811 | 0.005 U | 0.1 U |
| 1287 | 26-JUL-88 | 0.0351 | 0.034 U | 0.005 U | 0.0508 | 0.001 U | 0.005 U | 38.122 | 0.02 U | 0.0561 | 0.022 U | 0.0076 | 0.2085 | 0.005 U | |
| 1287 | 20-SEP-90 | 0.01 U | 0.007 U | 0.002 U | 0.0321 B | 0.001 U | 0.002 UN | 28.6 | 0.092 U | 0.005 U | 0.003 U | 0.002 UE | 0.014 U | 0.001 UN | 0.07 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0271 | 21-NOV-90 | 79.8 E | 0.257 | 0.0002 U | 0.0236 B | 0.0408 | 3.14 BE | 0.017 SN | 0.0099 B | 278 E | 2.19 E | 0.002 U | 0.0508 B | 0.0189 B | 0.0092 B |
| 0271 | 19-APR-91 | 64.6 | 1.05 | 0.0002 U | 0.0081 B | 0.0202 B | 3.48 B | 0.0117 S | 0.002 U | 304 | 1.69 | 0.001 | 0.01 U | 0.0026 B | 0.012 B |
| 0271 | 10-SEP-91 | 71.2 | 0.894 | 0.0002 U | 0.01 U | 0.014 B | 3.2 B | 0.0024 B | 0.005 U | 270 | 1.89 | 0.001 U | 0.1 U | 0.01 U | 0.0432 |
| 1187 | 18-SEP-87 | 29.0439 | 0.2596 | 0.0002 U | 0.022 U | 0.037 U | 7.9 | 0.024 | 0.0076 U | 51.3263 | 0.9591 | 0.01 U | | 0.024 U | 0.02 U |
| 1187 | 18-FEB-88 | 28.3999 | 0.3933 | 0.0002 U | 0.022 U | 0.2561 | 4.5 | 0.01 | 0.0076 U | 42.4341 | 0.9228 | 0.01 U | | 0.024 U | 0.02 U |
| 1187 | 01-DEC-89 | 27.2 | .132 | .0002 U | .1 U | .0886 | 5.0 U | .01 U | .01 U | 39 | .987 | .01 U | .1 U | .05 U | .02 U |
| 1187 | 15-JUN-90 | 30.3 | 0.0211 | 0.0002 U | 0.1 U | 0.168 | 5.0 U | 0.01 U | 0.01 U | 45 | 0.894 | 0.01 U | 0.1 U | 0.05 U | 0.0294 |
| 1187 | 28-NOV-90 | 30.1 | 0.0486 | 0.0002 U | 0.0168 B | 0.175 | 2.42 BE | 0.01 | 0.0033 B | 40.3 E | 0.918 | 0.002 U | 0.024 B | 0.0088 B | 0.0332 |
| 1187 | 06-SEP-91 | 19.1 | 0.016 | 0.0002 U | 0.01 U | 0.01 U | 2.81 B | 0.009 | 0.0081 B | 36 | 0.915 | 0.001 U | 0.1 U | 0.01 U | 0.0122 B |
| 1287 | 02-SEP-87 | 6.5848 | 0.1233 | 0.0002 U | 0.022 U | 0.1084 | 3.5 | 0.005 U | 0.0076 U | 213.3728 | 0.2646 | 0.01 U | | 0.024 U | 0.021 |
| 1287 | 26-FEB-88 | 7.1516 | 0.0447 | 0.0002 U | 0.022 U | 0.1154 | 1.3 | 0.002 J | 0.0076 U | 172.5999 | 0.2467 | 0.01 U | | 0.024 U | 0.02 U |
| 1287 | 21-APR-88 | 7.5445 | 0.0078 | 0.0002 U | 0.022 U | 0.061 | 0.8 | 0.005 U | 0.0076 U | 179.5822 | 0.2582 | 0.005 U | | 0.036 U | 0.0553 |
| 1287 | 26-JUL-88 | 7.8634 | 0.0227 | 0.0002 U | 0.022 U | 0.0422 | 1.1 | 0.005 U | 0.0076 U | 193.4917 | 0.2735 | 0.01 U | | 0.036 U | 0.02 U |
| 1287 | 20-SEP-90 | 6.55 | 0.001 U | 0.0002 U | 0.0124 B | 0.004 U | 0.934 B | 0.01 UE | 0.003 U | 161 | 0.219 | 0.002 UN | 0.135 B | 0.002 U | 0.0033 B |

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Ground Water Dissolved Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1287 | 28-NOV-90 | 0.0233 B | 0.0138 B | 0.002 U | 0.0309 B | 0.001 U | 0.002 U | 27.2 | 0.076 U | 0.0058 B | 0.003 U | 0.002 U | 0.0146 B | 0.001 UW | 0.0578 B |
| 1287 | 09-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0086 | 37.9 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0014 B | 0.0711 B |
| 1487 | 01-SEP-87 | 0.5102 | 0.02 U | 0.005 U | 0.9321 | 0.005 U | 0.001 U | 408.4416 | 0.02 U | 0.0399 | 0.022 U | 0.009 | 0.0069 U | 0.005 U | 0.05 J |
| 1487 | 13-OCT-87 | 1.1972 | 0.029 | 0.005 U | 0.1196 | 0.001 J | 0.001 U | 81.235 | 0.02 U | 0.0382 | 0.022 U | 0.009 | 0.0599 | 0.004 J | 0.04 J |
| 1487 | 01-MAR-88 | 0.1598 | 0.02 U | 0.005 U | 0.0297 | 0.005 U | 0.001 U | 7.5573 | 0.02 U | 0.0207 | 0.022 U | 0.0118 | 0.0366 | 0.005 U | 0.06 J |
| 1487 | 22-APR-88 | 0.1141 | 0.034 U | 0.005 U | 0.0269 | 0.001 U | 0.005 U | 6.0019 | 0.02 U | 0.0252 | 0.022 U | 0.0064 | 0.0172 | 0.005 U | 0.06 J |
| 1487 | 09-AUG-88 | 0.1238 | 0.034 U | 0.005 U | 0.0298 | 0.001 U | 0.005 U | 7.7025 | 0.02 U | 0.01 U | 0.022 U | 0.009 | 0.0131 U | 0.005 U | |
| 1487 | 26-OCT-88 | 0.1008 | 0.034 U | 0.005 U | 0.0351 | 0.001 U | 0.005 U | 10.3618 | 0.02 U | 0.0232 | 0.022 U | 0.0063 U | 0.012 | 0.005 U | |
| 1487 | 25-JAN-89 | 0.0683 J | 0.05 U | 0.001 U | 0.0684 J | 0.002 U | 0.005 U | 27.1815 | 0.005 U | 0.0184 | 0.029 U | 0.0048 J | 0.035 U | 0.001 U | |
| 1487 | 25-APR-89 | 0.0228 J | 0.05 U | .0016 J | 0.0238 J | 0.002 U | 0.005 U | 7.5733 | .2 U | 0.0179 | 0.029 U | 0.0084 J | 0.035 U | .001 U | |
| 1487 | 03-AUG-89 | 0.0605 J | 0.05 U | | 0.0537 J | 0.002 U | 0.005 U | 14.4856 | | 0.0109 | 0.029 U | 0.004 U | 0.035 U | | |
| 1487 | 25-JAN-90 | 0.084 U | 0.022 U | 0.002 U | 0.085 B | 0.001 U | 0.003 U | 56 | | 0.0035 B | 0.004 U | 0.005 U | 0.044 U | 0.003 UN | |
| 1487 | 18-SEP-90 | 0.0363 B | 0.007 U | 0.002 B | 0.0817 | 0.001 U | 0.002 U | 37.3 E | 0.092 U | 0.005 U | 0.003 U | 0.002 U | 0.014 U | 0.001 UN | 0.1 |
| 1487 | 20-NOV-90 | 0.0324 B | 0.022 U | 0.001 U | 0.0897 B | 0.001 U | 0.005 U | 45.8 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.006 B | 0.001 U | 0.103 |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1287 | 28-NOV-90 | 6.09 | 0.001 U | 0.0002 U | 0.013 B | 0.004 U | 1.0 BE | 0.001 BW | 0.003 U | 147 E | 0.201 | 0.002 U | 0.007 U | 0.002 U | 0.0261 |
| 1287 | 09-SEP-91 | 7.96 | 0.005 U | 0.0002 U | 0.01 U | 0.01 U | 2.0 U | 0.0017 B | 0.005 U | 137 | 0.266 | 0.001 U | 0.1 U | 0.01 U | 0.0503 |
| 1487 | 01-SEP-87 | 0.0295 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 31 | 0.005 U | 0.0076 U | 96.2131 | 7.7076 | 0.01 U | | 0.024 U | 0.02 U |
| 1487 | 13-OCT-87 | 0.1458 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 12.3 | 0.011 | 0.0076 U | 76.9625 | 1.4379 | 0.01 U | | 0.0915 | 0.02 U |
| 1487 | 01-MAR-88 | 1.3191 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 8 | 0.012 | 0.0076 U | 77.9638 | 0.3449 | 0.01 U | | 0.0686 | 0.0295 |
| 1487 | 22-APR-88 | 4.038 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 7.9 | 0.013 | 0.0076 U | 84.0615 | 0.3095 | 0.01 U | | 0.0412 | 0.02 U |
| 1487 | 09-AUG-88 | 7.5092 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 6.7 | 0.014 | 0.0076 U | 85.1056 | 0.3517 | 0.01 U | | 0.036 U | 0.0255 |
| 1487 | 26-OCT-88 | 8.5727 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 7.3 | 0.005 U | 0.0076 U | 88.897 | 0.4643 | 0.01 U | | 0.036 U | 0.0293 |
| 1487 | 25-JAN-89 | 12.9274 | 0.002 U | 0.0002 U | 0.027 U | 0.022 U | 4.75 B | .0166 | 0.004 U | 81.7647 | 0.6635 | 0.001 U | | 0.034 U | 0.0109 J |
| 1487 | 25-APR-89 | 10.3762 | 0.002 U | .0002 U | 0.027 U | 0.022 U | 5.33 | 0.014 | 0.004 U | 89.4522 | 0.4122 | .001 | | 0.034 U | 0.008 U |
| 1487 | 03-AUG-89 | 11.8479 | 0.002 U | | 0.027 U | 0.022 U | | | 0.004 U | 80.3288 | 0.4839 | | | 0.034 U | 0.008 U |
| 1487 | 25-JAN-90 | 17.6 | 0.002 * | 0.0002 U | | 0.007 U | 3.43 B | 0.0122 | 0.003 U | 81.1 | | 0.004 UN | | 0.0279 B | 0.0141 B |
| 1487 | 18-SEP-90 | 14.1 E | 0.001 U | 0.0002 U | 0.0074 B | 0.004 U | 3.68 B | 0.011 | 0.003 U | 83.7 E | 0.621 E | 0.003 U | 0.0227 B | 0.0146 B | 0.0024 B |
| 1487 | 20-NOV-90 | 17.4 | 0.0014 B | 0.0002 U | 0.009 U | 0.009 U | 3.21 B | 0.0101 | 0.003 U | 86.8 | 0.713 | 0.002 U | 0.0345 B | 0.0129 B | 0.0183 B |

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903 Pad Area
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1487 | 11-JAN-91 | 0.0557 B | 0.0151 B | 0.002 U | 0.0771 B | 0.001 U | 0.002 U | 46.3 E | 0.076 U | 0.0093 B | 0.003 U | 0.002 U | 0.0416 B | 0.001 UW | 0.0852 B |
| 1487 | 15-APR-91 | 0.0457 B | 0.013 B | 0.002 U | 0.0795 B | 0.001 U | 0.002 U | 47.5 | 0.112 U | 0.0068 B | 0.003 U | 0.0027 B | 0.0783 B | 0.001 U | 0.11 |
| 1487 | 05-SEP-91 | | | 0.002 U | | | | | 0.5 U | | | | | 0.0027 B | 0.112 |
| 1587 | 01-MAR-88 | 0.0449 | 0.019 | 0.005 U | 0.1807 | 0.003 J | 0.001 U | 117.2322 | 0.02 U | 0.038 | 0.022 U | 0.0063 U | 0.0285 | 0.005 U | 0.1 U |
| 1587 | 21-APR-88 | 0.0499 | 0.034 U | 0.005 U | 0.1561 | 0.001 U | 0.005 U | 125.8376 | 0.02 U | 0.01 U | 0.022 U | 0.0115 | 0.0487 | 0.005 U | 0.1 U |
| 1587 | 03-AUG-89 | 0.0316 J | 0.05 U | | 0.1358 J | 0.002 U | 0.005 U | 92.7538 | | 0.009 U | 0.029 U | 0.0042 J | 0.035 U | | |
| 1587 | 04-DEC-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 113 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 1587 | 27-NOV-90 | 0.0665 B | 0.0261 B | 0.002 UN | 0.156 B | 0.001 U | 0.002 U | 120 | 0.076 U | 0.0213 | 0.0044 B | 0.0068 B | 0.014 U | 0.001 U | 0.0055 B |
| 1587 | 15-APR-91 | 0.0636 B | 0.014 B | 0.002 U | 0.142 B | 0.001 U | 0.002 U | 105 | 0.112 U | 0.0069 B | 0.003 U | 0.0026 B | 0.0464 B | 0.001 U | 0.0297 B |
| 1687 | 10-SEP-87 | 0.029 U | 0.02 U | 0.005 U | 0.0613 | 0.005 U | 0.001 U | 26.8178 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | 0.03 J |
| 1687 | 17-OCT-87 | 0.0876 | | | 0.0354 | | | 20.5145 | | 0.0278 | 0.022 U | 0.0063 U | 0.1371 | | |
| 1687 | 01-MAR-88 | 0.0814 | 0.02 U | 0.004 J | 0.0786 | 0.005 U | 0.001 U | 18.482 | 0.02 U | 0.01 U | 0.022 U | 0.0074 | 0.0644 | 0.005 U | 0.05 J |
| 1687 | 22-APR-88 | 0.0485 | 0.034 U | 0.003 J | 0.0456 | 0.001 U | 0.005 U | 24.7026 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0186 | 0.005 U | 0.1 U |
| 1687 | 10-AUG-88 | 0.0433 | 0.034 U | 0.005 U | 0.028 | 0.001 U | 0.005 U | 26.4029 | 0.02 U | 0.0114 | 0.022 U | 0.0108 | 0.0219 | 0.005 U | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1487 | 11-JAN-91 | 17.5 E | 0.001 U | 0.0002 U | 0.0083 B | 0.004 U | 3.49 B | 0.0099 S | 0.003 U | 89.9 | 0.7 E | 0.003 U | 0.011 U | 0.0157 B | 0.0171 B |
| 1487 | 15-APR-91 | 18.2 | 0.001 U | 0.0002 U | 0.0035 B | 0.004 U | 3.22 BE | 0.0131 | 0.0042 B | 84.4 | 0.732 | 0.001 B | 0.0213 B | 0.0152 B | 0.0066 B |
| 1487 | 05-SEP-91 | | | 0.0002 U | 0.01 U | | | 0.0087 | | | 0.751 | 0.001 U | 0.1 U | | |
| 1587 | 01-MAR-88 | 11.1265 | 0.0394 | 0.0002 U | 0.022 U | 0.037 U | 0.8 | 0.005 U | 0.0424 | 11.9562 | 0.4859 | 0.01 U | | 0.024 U | 0.0361 |
| 1587 | 21-APR-88 | 10.5472 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.7 | 0.005 U | 0.0076 U | 8.5874 | 0.4283 | 0.01 U | | 0.036 U | 0.0712 |
| 1587 | 03-AUG-89 | 7.8672 | 0.002 U | | 0.027 U | 0.022 U | | | 0.004 U | 9.6778 | 0.3557 | | | 0.034 U | 0.008 U |
| 1587 | 04-DEC-89 | 10 | .015 U | .0002 | .1 U | .04 U | 5.0 U | .005 U | .01 U | 10.6 | .488 | .01 U | .1 U | .05 U | .02 U |
| 1587 | 27-NOV-90 | 10.1 | 0.001 U | 0.0002 U | 0.0076 B | 0.0068 B | 0.91 B | 0.001 BN | 0.0076 B | 7.87 | 0.411 | 0.002 | 0.0101 B | 0.0111 B | 0.011 B |
| 1587 | 15-APR-91 | 9.11 | 0.001 U | 0.0002 U | 0.003 U | 0.004 U | 0.972 BE | 0.002 UN | 0.0054 B | 8.75 | 0.39 | 0.001 UW | 0.0205 B | 0.0075 B | 0.0207 |
| 1687 | 10-SEP-87 | 1.7309 | 0.0051 U | 0.0002 U | 0.0367 | 0.037 U | 5.6 | 0.005 U | 0.0076 U | 61.3752 | 0.2202 | 0.01 U | | 0.024 U | 0.02 U |
| 1687 | 17-OCT-87 | 2.644 | 0.0051 U | | 0.025 | 0.037 U | | | 0.0076 U | 60.8289 | 0.2522 | | | 0.0256 | 0.02 U |
| 1687 | 01-MAR-88 | 3.5174 | 0.0051 U | 0.0002 U | 0.0295 | 0.037 U | 8.1 | 0.002 J | 0.0076 U | 67.622 | 0.2834 | 0.01 U | | 0.024 U | 0.02 U |
| 1687 | 22-APR-88 | 4.7883 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 4.2 | 0.004 J | 0.0076 U | 66.4353 | 0.3042 | 0.01 U | | 0.036 U | 0.02 U |
| 1687 | 10-AUG-88 | 4.9487 | 0.0072 | 0.0002 U | 0.0225 | 0.037 U | 4 | 0.005 U | 0.0076 U | 72.4248 | 0.2867 | 0.01 U | | 0.036 U | 0.02 U |

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*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1687 | 31-OCT-88 | 0.0474 | 0.034 U | 0.005 U | 0.0423 | 0.001 U | 0.005 U | 25.593 | 0.02 U | 0.0121 | 0.022 U | 0.0063 U | 0.0131 | | |
| 1687 | 07-FEB-89 | 0.0455 J | 0.05 U | .0028 J | 0.0442 J | 0.002 U | 0.005 U | 29.3102 | 0.005 U | 0.0123 | 0.029 U | 0.004 U | 0.0652 J | 0.001 U | |
| 1687 | 02-MAY-89 | 0.0296 J | 0.05 U | .0028 J | 0.0447 J | 0.002 U | 0.005 U | 28.8328 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 1687 | 03-AUG-89 | 0.026 J | 0.05 U | | 0.0285 J | 0.002 U | 0.005 U | 30.392 | | 0.0097 J | 0.029 U | 0.0397 | 0.035 U | | |
| 1687 | 06-NOV-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 29.8 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 1687 | 17-MAR-90 | 0.035 U | 0.026 U | 0.002 U | 0.0551 B | 0.001 U | 0.002 U | 31.3 | 0.05 U | 0.005 U | 0.004 U | 0.005 U | 0.0102 B | 0.0011 B | 0.0345 B |
| 1687 | 28-NOV-90 | 0.0287 B | 0.0097 B | 0.002 U | 0.0675 B | 0.001 U | 0.002 U | 31 | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.014 U | 0.001 UW | 0.0308 B |
| 1687 | 09-JAN-91 | 0.0288 B | 0.0153 B | 0.002 B | 0.0704 | 0.001 U | 0.002 U | 31.5 | 0.1 B | 0.0057 B | 0.003 U | 0.0043 B | 0.0092 B | 0.001 U | 0.0286 B |
| 1687 | 16-APR-91 | 0.0385 B | 0.0084 B | 0.002 U | 0.0775 B | 0.001 U | 0.002 U | 33.5 | 0.112 U | 0.005 U | 0.003 U | 0.002 U | 0.0127 B | 0.001 U | 0.0531 B |
| 1687 | 05-SEP-91 | | | 0.002 U | | | | | 0.5 U | | | | | 0.0017 B | 0.05 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1687 | 31-OCT-88 | 4.9047 | 0.0051 U | 0.0002 U | 0.0228 | 0.037 U | 4 | 0.005 U | 0.0076 U | 71.7637 | 0.3337 | 0.01 U | | 0.036 U | 0.0242 |
| 1687 | 07-FEB-89 | 6.0696 | 0.0063 J | 0.0002 U | 0.027 U | 0.022 U | 3.25 J | .0014 J | 0.004 U | 73.5594 | 0.3652 | 0.001 U | | 0.034 U | 0.017 J |
| 1687 | 02-MAY-89 | 5.9691 | 0.0057 J | .0002 U | 0.027 U | 0.022 U | 3.15 J | .001 U | 0.004 U | 70.4771 | 0.3453 | .001 U | | 0.034 U | 0.008 U |
| 1687 | 03-AUG-89 | 6.5807 | 0.0121 J | | 0.027 U | 0.022 U | | | 0.004 U | 76.0211 | 0.3603 | | | 0.034 U | 0.0169 J |
| 1687 | 06-NOV-89 | 5.73 | .0692 | .0002 U | .1 U | .04 U | 5.0 U | .005 U | .01 U | 66 | .302 | .01 U | .1 U | .05 U | .0315 |
| 1687 | 17-MAR-90 | 6.24 | 0.0128 B | 0.0002 U | 0.035 U | 0.006 U | 2.89 B | 0.003 U | 0.006 U | 76.2 | 0.38 | 0.001 UN | 0.025 U | 0.006 U | 0.0178 B |
| 1687 | 28-NOV-90 | 6.89 | 0.0034 B | 0.0002 U | 0.0177 B | 0.004 U | 3.12 BE | 0.002 BW | 0.003 U | 67.9 E | 0.358 | 0.002 U | 0.007 U | 0.002 U | 0.0235 |
| 1687 | 09-JAN-91 | 6.97 | 0.0018 B | 0.0002 U | 0.0232 B | 0.004 U | 2.74 B | 0.002 B | 0.003 U | 78.4 | 0.377 E | 0.001 U | 0.0199 B | 0.0044 B | 0.0144 B |
| 1687 | 16-APR-91 | 7.43 | 0.0022 B | 0.0002 U | 0.0122 B | 0.004 U | 2.92 BE | 0.002 UN | 0.003 B | 78.6 | 0.395 | 0.001 U | 0.011 U | 0.0039 B | 0.0093 B |
| 1687 | 05-SEP-91 | | | 0.0002 U | 0.0129 B | | | 0.001 U | | | 0.379 | 0.001 U | 0.1 U | | |

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Ground Water Dissolved Metal Results
Mound Area
Results reported in mg/l

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.0097 U | 0.005 U | 105 | 0.1 U | 0.01 U | 0.05 U | 0.02 U | 0.03 U | 0.005 U | |
| 0174 | 11-MAR-87 | 0.029 U | 0.06 U | 0.01 U | 0.1854 | 0.005 U | 0.005 U | 107.6955 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 0174 | 22-MAY-87 | 0.0655 | 0.06 U | 0.01 U | 0.1781 | 0.005 U | 0.005 U | 115.7480 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0333 | 0.008 | |
| 0174 | 23-JUL-87 | 0.029 U | 0.02 U | 0.005 U | 0.183 | 0.005 U | 0.001 U | 105.9773 | 0.02 U | 0.01 U | 0.022 U | 0.0072 | 0.0069 U | 0.005 U | |
| 0174 | 22-OCT-87 | 0.0401 | 0.02 U | 0.005 U | 0.1829 | 0.005 U | 0.001 U | 88.1974 | 0.02 U | 0.0134 | 0.022 U | 0.0138 | 0.0572 | 0.007 | 0.01 J |
| 0174 | 04-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.1743 | 0.005 U | 0.001 U | 93.5185 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0148 | 0.005 U | 0.1 U |
| 0174 | 29-APR-88 | 0.0293 | 0.034 U | 0.005 U | 0.1657 | 0.001 U | 0.005 U | 94.0876 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0096 | 0.005 U | 0.1 U |
| 0174 | 16-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1872 | 0.001 U | 0.005 U | 95.1219 | 0.02 U | 0.01 U | 0.022 U | 0.0148 | 0.0141 | 0.005 U | |
| 0174 | 04-NOV-88 | 0.0336 | 0.0342 | 0.005 U | 0.1762 | 0.001 U | 0.005 U | 95.6792 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0114 | 0.005 U | |
| 0174 | 04-MAY-89 | 0.0349 J | 0.05 U | 0.001 U | 0.1705 J | 0.002 U | 0.005 U | 87.7258 | 0.2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | 0.001 U | |
| 0174 | 17-NOV-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 76.9 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 0174 | 09-FEB-90 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 92.2 | 1.0 U | .01 U | .05 U | .025 U | .1 U | .005 U | .1 U |
| 0174 | 05-MAY-90 | 0.0221 U | 0.0176 U | 0.0016 U | 0.179 B | 0.0026 U | 0.0036 U | 96 | | 0.0049 U | 0.0044 U | 0.0063 B | 0.0246 B | 0.0013 U | 0.0098 B |
| 0174 | 15-NOV-90 | 0.0389 B | 0.022 U | 0.001 U | 0.167 B | 0.001 U | 0.005 U | 98.9 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.003 U | 0.001 U | 0.01 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 32 | 0.34 | 0.0002 U | 0.1 U | 0.04 U | 3.8 | 0.002 U | 0.01 U | 106 | 0.83 | 0.01 U | | 0.05 U | 0.02 U |
| 0174 | 11-MAR-87 | 14.7324 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 8.7453 | 0.5391 | 0.01 U | | 0.024 U | 0.06 |
| 0174 | 22-MAY-87 | 15.2494 | 0.0111 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 13.1215 | 0.5225 | 0.01 U | | 0.024 U | 0.0335 |
| 0174 | 23-JUL-87 | 13.5031 | 0.006 | 0.0002 | 0.022 U | 0.037 U | 0.8 | 0.005 U | 0.0076 U | 9.0118 | 0.5248 | 0.01 U | | 0.024 U | 0.02 U |
| 0174 | 22-OCT-87 | 13.3081 | 0.0129 | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 9.2626 | 0.4916 | 0.01 U | | 0.024 U | 0.02 |
| 0174 | 04-MAR-88 | 12.7267 | 0.0059 | 0.0002 U | 0.022 U | 0.037 U | 0.6 | 0.005 U | 0.0076 U | 8.1078 | 0.4881 | 0.01 U | | 0.024 U | 0.0824 |
| 0174 | 29-APR-88 | 13.0194 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.3 | 0.005 U | 0.0076 U | 7.6229 | 0.48. | 0.01 U | | 0.036 U | 0.02 U |
| 0174 | 16-AUG-88 | 13.7248 | 0.0143 | 0.0002 U | 0.022 U | 0.037 U | 0.8 | 0.005 U | 0.0076 U | 9.2674 | 0.4925 | 0.01 U | | 0.036 U | 0.0486 |
| 0174 | 04-NOV-88 | 13.4172 | 0.0245 | 0.0002 U | 0.022 U | 0.037 U | 0.5 U | 0.005 U | 0.0076 U | 10.6527 | 0.5475 | 0.01 U | | 0.036 U | 0.0207 |
| 0174 | 04-MAY-89 | 12.9147 | 0.008 J | .0002 U | 0.027 U | 0.022 U | 0.72 J | 0.001 U | 0.004 U | 8.2184 | 0.4941 | 0.001 U | | 0.034 U | 0.008 U |
| 0174 | 17-NOV-89 | 13.1 | .0168 | .0002 U | .1 U | .04 U | 5.0 U | .005 U | .01 U | 8.66 | .458 | .01 U | .1 U | .05 U | .0228 |
| 0174 | 09-FEB-90 | 12.6 | .015 U | .0002 | .1 U | .04 U | 5.0 U | .005 U | .01 U | 7.98 | 1.0 U | .01 U | .1 U | .05 U | .02 U |
| 0174 | 05-MAY-90 | 14.8 | 0.0096 B | 0.0002 U | 0.0174 U | 0.0055 U | 0.71 B | 0.0012 U | 0.0044 U | 8.23 | 0.524 B | 0.0011 U | 0.0232 U | 0.0023 U | 0.009 U |
| 0174 | 15-NOV-90 | 13.9 | 0.0165 | 0.0002 U | 0.009 U | 0.009 U | 1.88 B | 0.002 U | 0.0065 B | 8.75 | 0.455 | 0.002 U | 0.03 U | 0.0086 B | 0.0359 |

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Mound Area
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 10-MAY-91 | 0.0378 | 0.0083 B | 0.002 U | 0.169 B | 0.001 U | 0.002 U | 89.9 | 0.17 B | 0.0038 B | 0.003 U | 0.011 U | 0.007 U* | 0.001 U | 0.0059 B |
| 0174 | 15-AUG-91 | 0.0446 B | 0.008 U | 0.002 U | 0.109 BE | 0.001 U | 0.001 B | 58.3 | 0.032 U | 0.009 B | 0.002 U | 0.0073 B | 0.002 U | 0.001 U | 0.006 B |
| 1787 | 06-NOV-87 | 0.0306 | | | 0.1587 | | | 93.1877 | | 0.0109 | 0.022 U | 0.4235 | 0.0523 | | |
| 1787 | 04-MAR-88 | 0.0386 | 0.02 U | 0.005 U | 0.1539 | 0.005 U | 0.001 U | 112.4856 | 0.02 U | 0.01 U | 0.022 U | 0.4122 | 0.0229 | 0.005 U | 0.1 U |
| 1787 | 29-APR-88 | 0.0315 | 0.034 U | 0.005 U | 0.1113 | 0.001 U | 0.005 U | 100.2637 | 0.02 U | 0.01 U | 0.022 U | 0.0243 | 0.012 | 0.005 U | 0.1 U |
| 1787 | 16-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1194 | 0.001 U | 0.005 U | 108.9453 | 0.02 U | 0.01 U | 0.022 U | 0.0491 | 0.0227 | 0.004J | |
| 1787 | 04-NOV-88 | 0.0348 | 0.034 U | 0.005 U | 0.1392 | 0.001 U | 0.005 U | 116.4230 | 0.02 U | 0.01 U | 0.022 U | 0.0311 | 0.0115 | 0.005 U | |
| 1787 | 07-FEB-89 | 0.015 U | 0.05 U | 0.001 U | 0.1175 J | 0.002 U | 0.005 U | 103.1198 | 0.005 U | 0.009 U | 0.029 U | 0.0322 | 0.0352 J | 0.001 U | |
| 1787 | 04-MAY-89 | 0.0212 J | 0.05 U | 0.001 U | 0.1224 J | 0.002 U | 0.005 U | 105.4508 | 0.2 U | 0.009 U | 0.029 U | 0.0161 J | 0.035 U | 0.001 U | |
| 1787 | 01-NOV-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 117 | 1.0 U | .01 U | .05 U | .0268 | .1 U | .005 U | .1 U |
| 1787 | 06-NOV-90 | 0.0794 B | 0.022 U | 0.001 U | 0.154 B | 0.001 U | 0.005 U | 136 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.0263 B | 0.001 U | 0.01 U |
| 1787 | 13-MAY-91 | 0.0752 B | 0.0395 B | 0.002 U | 0.13 B | 0.001 U | 0.002 U | 111 | 0.112 U | 0.0045 B | 0.003 U | 0.011 U | 0.0403 B | 0.001 UW | 0.0046 B |
| 1787 | 19-AUG-91 | 0.0615 B | 0.008 U | 0.002 U | 0.126 BE | 0.001 U | 0.001 U | 109 | 0.04 B | 0.0095 B | 0.002 U | 0.0043 B | 0.002 U | 0.001 U | 0.0055 B |
| 1887 | 08-MAR-88 | 0.0879 | 0.02 U | 0.003 J | 0.1084 | 0.005 U | 0.001 U | 12.326 | 0.02 U | 0.0118 | 0.022 U | 0.0379 | 0.0631 | 0.005 U | 0.1 U |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 10-MAY-91 | 13.3 | 0.0097 B | 0.0002 U | 0.002 U | 0.003 U | 0.654 B | 0.002 U | 0.002 U | 8.56 | 0.48 | 0.001 UW | 0.01 U | 0.002 U | 0.0126 B |
| 0174 | 15-AUG-91 | 8.42 | 0.007 B | 0.0002 U | 0.003 U | 0.003 U | 0.48 B | 0.001 BW | 0.003 B | 5.37 | 0.319 | 0.002 U | 0.014 U | 0.0046 B | 0.009 B |
| 1787 | 06-NOV-87 | 13.3333 | 1.2694 | | 0.022 U | 0.6874 | | | 0.0076 U | 28.5863 | 0.5982 | | | 0.024 U | 2.5552 |
| 1787 | 04-MAR-88 | 12.7983 | 0.1831 | 0.0002 U | 0.022 U | 0.521 | 7 | 0.005 U | 0.0076 U | 22.361 | 0.5903 | 0.01 U | | 0.024 U | 1.5316 |
| 1787 | 29-APR-88 | 11.0176 | 0.1274 | 0.0002 U | 0.022 U | 0.2815 | 5.2 | 0.005 U | 0.0076 U | 17.8911 | 0.4885 | 0.01 U | | 0.036 U | 0.1802 |
| 1787 | 16-AUG-88 | 10.0232 | 0.0979 | 0.0002 U | 0.022 U | 0.2888 | 3.9 | 0.005 U | 0.0076 U | 24.3427 | 0.4557 | 0.01 U | | 0.036 U | 0.14 |
| 1787 | 04-NOV-88 | 10.1223 | 0.0424 | 0.0002 U | 0.022 U | 0.0767 | 3.4 | 0.005 U | 0.0076 U | 24.3438 | 0.5284 | 0.01 U | | 0.036 U | 0.1056 |
| 1787 | 07-FEB-89 | 9.4357 | 0.0288 | 0.0002 U | 0.027 U | 0.0536 | 2.85 J | 0.001 U | 0.004 U | 26.6036 | 0.4518 | 0.001 U | | 0.034 U | 0.0579 |
| 1787 | 04-MAY-89 | 9.4895 | 0.0025 J | .0002 U | 0.027 U | 0.0466 | 2.64 J | 0.001 U | 0.004 U | 16.490 | 0.4517 | 0.001 U | | 0.034 U | 0.0267 |
| 1787 | 01-NOV-89 | 10.9 | .015 U | .0002 U | .1 U | .25 | 5.0 U | .005 U | .01 U | 14.5 | 1.0 U | .01 U | .1 U | .05 U | .02 U |
| 1787 | 06-NOV-90 | 11.6 | 0.0047 B | 0.0002 U | 0.009 U | 0.009 B | 2.6 B | 0.0027 B | 0.0077 B | 17.2 | 0.446 | 0.002 U | 0.0517 B | 0.01 B | 0.0045 B |
| 1787 | 13-MAY-91 | 9.81 | 0.0026 B | 0.0002 U | 0.0075 B | 0.0076 B | 1.69 B | 0.001 U | 0.002 U | 14.8 | 0.441 | 0.001 UW | 0.0888 B | 0.002 U | 0.0325 |
| 1787 | 19-AUG-91 | 9.3 | 0.001 U | 0.0002 U | 0.0055 B | 0.0104 B | 1.7 B | 0.001 B | 0.002 U | 14.3 | 0.438 | 0.002 U | 0.014 U | 0.0055 B | 0.0098 B |
| 1887 | 08-MAR-88 | 1.1415 | 0.1154 | 0.0002 U | 0.0286 | 0.0661 | 0.8 | 0.003 J | 0.0103 | 22.8139 | 0.1107 | 0.01 U | | 0.024 U | 0.0279 |

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| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 07-MAR-88 | 0.2556 | 0.02 U | 0.007 | 0.0246 | 0.005 U | 0.001 U | 18.8844 | 0.02 U | 0.01 U | 0.022 U | 0.007 | 0.0344 | 0.005 U | 0.1 U |
| 2387 | 22-OCT-87 | 0.1725 | | | 0.1632 | | | 94.3186 | | 0.0676 | 0.022 U | 0.0063 U | 0.1942 | | |
| 2387 | 03-MAR-88 | 0.0969 | 0.02 U | 0.005 U | 0.1949 | 0.005 U | 0.001 U | 130.1240 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0333 | 0.005 | 0.1 U |
| 2387 | 28-APR-88 | 0.029 U | 0.034 U | 0.005 U | 0.1625 | 0.001 U | 0.005 U | 115.0052 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0135 | 0.005 U | 0.1 U |
| 2387 | 12-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1538 | 0.001 U | 0.005 U | 115.5801 | 0.02 U | 0.01 U | 0.022 U | 0.0153 | 0.0184 | 0.005 U | |
| 2387 | 04-NOV-88 | 0.029 U | 0.034 U | 0.005 U | 0.1693 | 0.001 U | 0.005 U | 120.6239 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0238 | 0.005 U | |
| 2387 | 07-FEB-89 | 0.0192 J | 0.05 U | 0.001 U | 0.1731 J | 0.002 U | 0.005 U | 118.1832 | 0.005 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | 0.001 U | |
| 2387 | 04-MAY-89 | 0.0363 J | 0.05 U | 0.001 U | 0.1656 J | 0.002 U | 0.005 U | 111.1179 | 0.2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | 0.001 U | |
| 2387 | 04-DEC-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 115 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 2387 | 20-FEB-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 126 | 2.5 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 2387 | 01-JUN-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 119 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 2387 | 09-NOV-90 | 0.0852 B | 0.03 U | 0.002 U | 0.163 B | 0.001 U | 0.005 U | 118 | 0.2 UW | 0.01 U | 0.02 U | 0.0104 B | 0.0277 B | 0.002 UW | 0.005 U |
| 2387 | 08-MAR-91 | 0.0596 B | 0.008 U | 0.002 UW | 0.181 B | 0.001 U | 0.002 U | 119 | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.0245 B | 0.001 UW | 0.0048 B |
| 2387 | 19-APR-91 | 0.0198 B | 0.006 U | 0.002 U | 0.186 B | 0.001 U | 0.002 U | 128 | 0.112 U | 0.003 U | 0.003 U | 0.011 U | 0.007 U* | 0.001 U | 0.002 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2087 | 07-MAR-88 | 0.0342 | 0.0051 U | 0.0002 U | 0.057 | 0.037 U | 28 | 0.004 J | 0.0076 U | 84.4416 | 0.4473 | 0.01 U | | 0.0377 | 0.0252 |
| 2387 | 22-OCT-87 | 12.8861 | 0.2422 | | 0.022 U | 0.037 U | | | 0.0076 U | 8.8855 | 0.5299 | | | 0.0282 | 0.0301 |
| 2387 | 03-MAR-88 | 13.8849 | 0.1289 | 0.0002 U | 0.022 U | 0.037 U | 1.7 | 0.005 U | 0.0076 U | 9.6792 | 0.6205 | 0.01 U | | 0.024 U | 0.02 U |
| 2387 | 28-APR-88 | 13.4011 | 0.072 | 0.0002 U | 0.022 U | 0.0558 | 1.6 | 0.005 U | 0.0076 U | 8.0978 | 0.5278 | 0.01 U | | 0.036 U | 0.0221 |
| 2387 | 12-AUG-88 | 12.9021 | 0.0112 | 0.0002 U | 0.022 U | 0.037 U | 2 | 0.005 U | 0.0076 U | 9.5551 | 0.5112 | 0.01 U | | 0.036 U | 0.054 |
| 2387 | 04-NOV-88 | 12.9893 | 0.0178 | 0.0002 U | 0.022 U | 0.037 U | 1.2 | 0.005 U | 0.0076 U | 10.9816 | 0.603 | 0.01 U | | 0.036 U | 0.0237 |
| 2387 | 07-FEB-89 | 12.9433 | 0.0043 J | 0.0002 U | 0.027 U | 0.0347 J | 1.65 J | 0.0011 J | 0.004 U | 9.5868 | 0.568 | 0.001 U | | 0.034 U | 0.0082 J |
| 2387 | 04-MAY-89 | 12.9947 | 0.0046 J | .0002 U | 0.027 U | 0.022 U | 1.66 J | 0.001 U | 0.004 U | 10.2186 | 0.5537 | 0.001 U | | 0.034 U | 0.008 U |
| 2387 | 04-DEC-89 | 13.4 | .0163 | .0002 U | .1 U | .0492 | 5.0 U | .005 U | .01 U | 9.23 | .622 | .01 U | .1 U | .05 U | .02 U |
| 2387 | 20-FEB-90 | 14.5 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 9.19 | 0.581 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 2387 | 01-JUN-90 | 13.9 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 10.6 | 0.548 | 0.01 U | 0.1 U | 0.05 U | 0.064 |
| 2387 | 09-NOV-90 | 12.7 | 0.002 B | 0.0002 U | 0.01 U | 0.02 U | 1.11 B | 0.004 UW | 0.005 U | 10.2 | 0.54 | 0.002 U | 0.02 U | 0.01 U | 0.0366 |
| 2387 | 08-MAR-91 | 13.9 | 0.0015 B | 0.0002 | 0.003 U | 0.004 U | 1.3 BE | 0.002 UN | 0.003 U | 10.1 | 0.55 | 0.001 U | 0.011 U | 0.0034 B | 0.0084 B |
| 2387 | 19-APR-91 | 14.1 | 0.001 U | 0.0002 U | 0.002 U | 0.003 U | 1.22 B | 0.002 U | 0.002 U | 11.3 | 0.574 | 0.001 UN | 0.01 U | 0.002 U | 0.0556 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
Mound Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2387 | 19-AUG-91 | 0.0693 B | 0.008 U | 0.002 U | 0.169 BE | 0.001 U | 0.001 U | 111 | 0.05 B | 0.0085 B | 0.002 U | 0.0044 B | 0.002 U | 0.001 U | 0.0051 B |
| 4386 | 11-MAR-87 | 0.029 U | 0.06 U | 0.01 U | 0.0994 | 0.005 U | 0.005 U | 90.8264 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 4386 | 03-JUN-87 | 0.029 U | 0.06 U | 0.01 U | 0.1065 | 0.005 U | 0.005 U | 68.0295 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0126 | 0.005 U | |
| 4386 | 28-JUL-87 | 0.0412 | 0.02 U | 0.005 U | 0.1602 | 0.005 U | 0.0004 J | 94.7105 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0159 | 0.005 U | |
| 4386 | 05-JUN-90 | 0.229 | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 90.3 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 4386 | 20-AUG-91 | 0.0575 B | 0.025 B | 0.002 U | 0.132 BE | 0.001 U | 0.001 U | 88.9 | 0.06 B | 0.0104 | 0.002 U | 0.0068 B | 0.0147 B | 0.001 U | 0.0039 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2387 | 19-AUG-91 | 12.2 | 0.001 U | 0.0002 U | 0.003 U | 0.003 U | 1.14 B | 0.001 B | 0.002 U | 9.68 | 0.517 | 0.002 U | 0.014 U | 0.0058 B | 0.0045 B |
| 4386 | 11-MAR-87 | 10.5382 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 13.5408 | 0.4313 | 0.01 U | | 0.024 U | 0.04 |
| 4386 | 03-JUN-87 | 6.7585 | 0.0051 U | 0.0002 U | 0.0238 | 0.037 U | 5 U | 0.005 U | 0.0076 U | 8.1258 | 0.3216 | 0.01 U | | 0.024 U | 0.02 U |
| 4386 | 28-JUL-87 | 7.9498 | 0.0054 | 0.0002 U | 0.022 U | 0.037 U | 1.3 | 0.005 U | 0.0076 U | 14.1637 | 0.3888 | 0.01 U | | 0.024 U | 0.0219 |
| 4386 | 05-JUN-90 | 10.3 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 7.09 | 0.473 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 4386 | 20-AUG-91 | 10.5 | 0.001 U | 0.0002 U | 0.0101 B | 0.003 U | 1.34 BE | 0.002 U | 0.002 U | 8.86 | 0.447 | 0.002 U | 0.0272 B | 0.0057 B | 0.0172 B |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected
J=Present below detection limit
E=Estimated Value
A=Acceptable with qualifications
V=Valid and acceptable
R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1158 | 0.005 U | 0.005 U | 92.966 | 0.2 U | 0.01 U | 0.022 U | 0.0065 | 0.0069 U | 0.005 U | |
| 0286 | 01-JUN-87 | 0.0449 | 0.06 U | 0.01 U | 0.113 | 0.005 U | 0.005 U | 110.1033 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 0286 | 21-JUL-87 | 0.029 U | 0.02 U | 0.005 U | 0.1166 | 0.005 U | 0.001 U | 70.9315 | 0.02 U | 0.01 U | 0.022 U | 0.0121 | 0.0069 U | 0.005 U | |
| 0286 | 31-MAR-88 | 0.029 U | 0.0373 | 0.005 U | 0.0695 | 0.001 U | 0.005 U | 69.5858 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | 0.12 |
| 0286 | 03-JUN-88 | 0.1247 | 0.1973 | 0.005 U | 0.0823 | 0.001 U | 0.005 U | 77.3296 | 0.02 U | 0.0154 | 0.022 U | 0.0063 U | 0.0429 | 0.005 U | |
| 0286 | 27-JUN-89 | .00004 B | .00005 U | | .0008 B | 0.002 U | 0.005 U | .037208 | | 0.009 U | .00003 U | 0.004 U | .00003 U | | |
| 0286 | 11-JUL-89 | .27 | .06 U | .01 U | .2 U | .005 U | .005 U | 33.7 | 1.0 U | .01 U | .05 U | .025 U | .249 | .005 U | .685 |
| 0286 | 19-MAR-90 | 0.0587 | 0.026 U | 0.0023 B | 0.11 B | 0.001 U | 0.002 UN | 60.2 | 0.05 B | 0.005 U | 0.004 U | 0.0072 B | 0.0357 B | 0.001 U | 0.0312 B |
| 0286 | 07-JUN-90 | 0.224 | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 52.1 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 0286 | 19-JUN-91 | 0.0395 B | 0.0875 | 0.002 U | 0.102 BE | 0.001 U | 0.0021 B | 42 | 0.112 U | 0.0078 B | 0.003 U | 0.011 U | 0.0174 B | 0.001 UW | 0.1 |
| 0374 | __-AUG-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.0097 | 0.005 U | 25.5 | 0.1 U | 0.01 U | 0.05 U | 0.02 U | 0.03 U | 0.005 U | |
| 0374 | 17-MAR-87 | 0.3854 | 0.06 U | 0.01 U | 0.2881 | 0.005 U | 0.005 U | 134.7004 | 0.2 U | 0.01 U | 0.022 U | 0.0085 | 0.058 | 0.005 U | |
| 0374 | 03-JUN-87 | 0.029 U | 0.06 U | 0.01 U | 0.2045 | 0.005 U | 0.005 U | 111.5307 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 0374 | 23-JUL-87 | 0.029 U | 0.02 U | 0.005 U | 0.1884 | 0.005 U | 0.001 U | 126.5740 | 0.02 U | 0.01 U | 0.022 U | 0.0064 | 0.0086 | 0.005 U | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 225.3522 | 0.1426 | 0.0002 U | 0.022 U | 0.0751 | 5 U | 0.036 | 0.0076 U | 251.5908 | 4.5874 | 0.01 U | | 0.024 U | 0.02 U |
| 0286 | 01-JUN-87 | 210.6785 | 0.0586 | 0.0002 U | 0.022 U | 0.0824 | 5 U | 0.02 | 0.0076 U | 225.5047 | 4.744 | 0.01 U | | 0.024 U | 0.02 U |
| 0286 | 21-JUL-87 | 195.9940 | 0.4458 | 0.0002 U | 0.022 U | 0.2504 | 0.7 | 0.006 | 0.0076 U | 257.7494 | 3.997 | 0.01 U | | 0.0312 | 0.022 |
| 0286 | 31-MAR-88 | 147.4723 | 0.0801 | 0.0002 U | 0.022 U | 0.0773 | 0.5 U | 0.005 U | 0.0076 U | 201.2186 | 3.219 | 0.01 U | | 0.036 U | 0.035 |
| 0286 | 03-JUN-88 | 150.20 | 0.0325 | 0.0002 U | 0.022 U | 0.0503 | 0.5 U | 0.012 | 0.0076 U | 220.5761 | 3.5613 | 0.01 U | | 0.036 U | 0.02 U |
| 0286 | 27-JUN-89 | .1128557 | 0.002 U | | .00003 U | .00006 | | | 0.004 U | .2125613 | .00274 | | | .00003 U | 0.008 U |
| 0286 | 11-JUL-89 | 98.9 | .0304 | .0002 U | .1 U | .131 | 5.0 U | .0394 | .01 U | 214 | 2.8 | .01 U | .164 | .05 U | .02 U |
| 0286 | 19-MAR-90 | 126 | 0.0156 N | 0.0002 U | 0.035 U | 0.0261 B | 0.48 B | 0.029 NS | 0.006 U | 162 | 3.36 | 0.005 | 0.025 U | 0.006 U | 0.0306 |
| 0286 | 07-JUN-90 | 113 | 0.0431 | 0.0002 | 0.1 U | 0.062 | 5.0 U | 0.0333 | 0.01 U | 184 | 2.92 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 0286 | 19-JUN-91 | 90.2 | 0.0014 B | 0.0002 U | 0.0165 B | 0.0455 | 0.382 B | 0.016 | 0.002 U | 145 | 2.29 | 0.001 U | 0.0515 B | 0.0059 B | 0.003 U |
| 0374 | __-AUG-86 | 14 | 0.016 | 0.0002 U | 0.1 U | 0.04 U | 0.92 | 0.002 U | 0.01 U | 15.5 | 0.36 | 0.01 U | | 0.05 U | 0.025 |
| 0374 | 17-MAR-87 | 11.9124 | 0.0625 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 21.9046 | 0.4007 | 0.01 U | | 0.024 U | 0.36 |
| 0374 | 03-JUN-87 | 11.0585 | 0.0051 U | 0.0002 U | 0.022 U | 0.0452 | 5 U | 0.005 U | 0.0076 U | 29.1251 | 0.3992 | 0.01 U | | 0.024 U | 0.02 U |
| 0374 | 23-JUL-87 | 11.1472 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.004 J | 0.0076 U | 31.6352 | 0.3951 | 0.01 U | | 0.024 U | 0.02 U |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 23-OCT-87 | 0.0356 | 0.02 U | 0.005 U | 0.1988 | 0.003 J | 0.001 U | 105.9805 | 0.02 U | 0.1223 | 0.022 U | 0.0104 | 0.348 | 0.001 J | 0.01 J |
| 0374 | 03-MAR-88 | 0.0909 | 0.02 U | 0.005 U | 0.1971 | 0.005 U | 0.001 U | 115.2379 | 0.02 U | 0.01 U | 0.022 U | 0.0242 | 0.0513 | 0.005 U | 0.1 U |
| 0374 | 05-MAY-88 | 0.0419 | 0.034 U | 0.005 U | 0.1904 | 0.001 U | 0.005 U | 12.6524 | 0.02 U | 0.01 U | 0.022 U | 0.0118 | 0.0077 | 0.007 | |
| 0374 | 19-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1959 | 0.001 U | 0.005 U | 117.0657 | 0.02 U | 0.0107 | 0.022 U | 0.0063 U | 0.0278 | 0.005 U | |
| 0374 | 25-MAY-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 117 | 2.5 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 | 0.1 U |
| 0374 | 01-AUG-90 | 0.0742 | 0.01 U | 0.001 B | 0.207 E | 0.001 U | 0.002 U | 118 E | 0.147 U | 0.0182 | 0.004 U | 0.003 U | 0.0227 B | 0.001 U | 0.0052 B |
| 0374 | 16-NOV-90 | 0.0514 B | 0.0114 B | 0.002 U | 0.192 B | 0.001 U | 0.002 U | 115 | 0.2 B | 0.0127 | 0.003 U | 0.0069 B | 0.0433 B | 0.001 U | 0.0052 B |
| 0374 | 22-AUG-91 | 0.0688 B | 0.0269 B | 0.002 U | 0.193 BE | 0.001 U | 0.0014 B | 111 | 0.06 B | 0.0173 | 0.002 U | 0.0091 B | 0.0157 B | 0.001 UW | 0.0064 B |
| 0386 | __-SEP-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 88 | 0.1 U | 0.01 U | 0.05 U | 0.02 U | 0.075 U | 0.01 U | |
| 0386 | 12-MAY-87 | 0.0672 | 0.06 U | 0.01 U | 0.2088 | 0.005 U | 0.005 U | 92.0666 | 0.2 U | 0.01 U | 0.022 U | 0.0089 | 0.0487 | 0.005 U | |
| 0386 | 08-JUN-87 | 0.029 U | 0.06 U | 0.01 U | 0.1068 | 0.005 U | 0.005 U | 42.2227 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0227 | 0.005 U | |
| 0386 | 24-JUL-87 | 0.1933 | 0.02 U | 0.005 U | 0.1692 | 0.005 U | 0.0003 J | 87.7807 | 0.02 U | 0.01 U | 0.022 U | 0.0075 | 0.1442 | 0.005 U | |
| 0386 | 15-DEC-87 | 0.0387 | 0.02 U | 0.005 U | 0.1722 | 0.005 U | 0.001 U | 67.5669 | 0.02 U | 0.01 U | 0.022 U | 0.0121 | 0.0529 | 0.002 J | 0.08 J |
| 0386 | 31-MAR-88 | 0.0352 | 0.034 U | 0.005 U | 0.1235 | 0.001 U | 0.005 U | 79.015 | 0.02 U | 0.0112 | 0.022 U | 0.0063 U | 0.0149 | 0.005 U | 0.1 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 23-OCT-87 | 10.2265 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1 | 0.003 J | 0.0076 U | 21.8861 | 0.3549 | 0.01 U | | 0.024 U | 0.033 |
| 0374 | 03-MAR-88 | 10.8145 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 22.4269 | 0.3905 | 0.01 U | | 0.024 U | 0.0233 |
| 0374 | 05-MAY-88 | 11.4483 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1 | 0.005 U | 0.0161 | 20.8114 | 0.3817 | 0.01 U | | 0.036 U | 0.02 U |
| 0374 | 19-AUG-88 | 10.583 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 22.0883 | 0.3533 | 0.01 U | | 0.036 U | 0.0202 |
| 0374 | 25-MAY-90 | 11.7 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 23.4 | 0.388 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 0374 | 01-AUG-90 | 11.1 E | 0.0013 B | 0.0002 U | 0.0077 B | 0.004 B | 1.2 BE | 0.002 U | 0.0085 B | 21.4 | 0.365 E | 0.003 | 0.0262 B | 0.0104 B | 0.0088 B |
| 0374 | 16-NOV-90 | 11.1 | 0.0019 B | 0.0002 U | 0.002 U | 0.004 U | 1.09 B | 0.001 U | 0.0043 B | 19.1 | 0.357 | 0.002 | 0.0179 B | 0.0048 B | 0.0415 |
| 0374 | 22-AUG-91 | 10.6 | 0.001 U | 0.0002 U | 0.0032 B | 0.0038 B | 1.11 BE | 0.004 B | 0.0036 B | 21.6 | 0.334 | 0.002 U | 0.0222 B | 0.0073 B | 0.0085 B |
| 0386 | __-SEP-86 | 32 | 0.038 | 0.00024 | 0.1 U | 0.04 U | 2.63 | 0.015 | 0.01 U | 26.6 | 1.58 | 0.01 U | | 0.05 U | 0.034 |
| 0386 | 12-MAY-87 | 33.5725 | 0.0131 | 0.0002 | 0.022 U | 0.0746 | 5 U | 0.01 | 0.0076 U | 34.9972 | 1.5504 | 0.01 U | | 0.024 U | 0.02 U |
| 0386 | 08-JUN-87 | 19.8744 | 0.0051 U | 0.0002 U | 0.022 U | 0.1158 | 5 U | 0.008 | 0.0076 U | 27.6169 | 0.9392 | 0.01 U | | 0.0241 | 0.02 U |
| 0386 | 24-JUL-87 | 31.5093 | 0.0874 | 0.0002 U | 0.022 U | 0.2245 | 1.9 | 0.006 | 0.0076 U | 43.4357 | 1.558 | 0.01 U | | 0.024 U | 0.02 U |
| 0386 | 15-DEC-87 | 24.6254 | 0.0789 | 0.0002 U | 0.022 U | 0.1477 | 2.8 | 0.006 | 0.0076 U | 42.6454 | 1.2354 | 0.01 U | | 0.24 U | 0.0263 |
| 0386 | 31-MAR-88 | 29.3416 | 0.0779 | 0.0002 U | 0.022 U | 0.3791 | 1.7 | 0.016 | 0.0076 U | 48.1063 | 1.3701 | 0.01 U | | 0.036 U | 0.02 U |

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*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 03-JUN-88 | 0.0816 | 0.0813 | 0.005 U | 0.1983 | 0.001 U | 0.005 U | 89.5078 | 0.02 U | 0.0106 | 0.022 U | 0.0066 | 0.0753 | 0.005 U | |
| 0386 | 06-OCT-88 | 0.0526 | 0.034 U | 0.005 U | 0.2081 | 0.001 U | 0.005 U | 79.2203 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0172 | 0.005 U | |
| 0386 | 21-DEC-88 | 0.0653 | 0.0343 | 0.005 U | 0.2008 | 0.001 U | 0.005 U | 76.6811 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 0386 | 29-MAR-89 | 0.0202 J | 0.05 U | 0.001 U | 0.2193 | 0.002 U | 0.005 U | 80.1232 | 0.005 U | 0.009 U | 0.029 U | 0.0043 J | 0.035 U | 0.001 U | |
| 0386 | 22-JUN-89 | .00003 B | .00005 U | | .00025 | 0.002 U | 0.005 U | .077854 | | 0.009 U | .00003 U | 0.004 U | .00003 U | | |
| 0386 | 29-JUN-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 77.8 | 1.0 U | .01 U | .05 U | .025 U | .1 U | .005 U | .1 U |
| 0386 | 12-JUL-89 | .2 U | .06 U | .01 U | .215 | .005 U | .005 U | 75.2 | 1.0 U | .01 U | .05 U | .025 U | .1 U | .005 U | .1 U |
| 0386 | 23-MAR-90 | 0.035 UN | 0.026 U | 0.002 U | 0.225 | 0.001 U | 0.002 UN | 84.7 | 0.09 B | 0.005 U | 0.004 U | 0.005 U | 0.014 B | 0.0022 B | 0.0809 B |
| 0386 | 08-JUN-90 | 0.426 | 0.06 U | 0.01 U | 0.236 | 0.005 U | 0.005 U | 90.1 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 0386 | 06-SEP-90 | 0.0512 B | 0.0221 B | 0.001 U | 0.227 E | 0.001 U | 0.002 U | 82.3 E | 0.4 B | 0.0178 | 0.004 U | 0.0039 B | 0.013 U | 0.001 U | 0.083 B |
| 0386 | 15-NOV-90 | 0.0529 B | 0.022 U | 0.001 U | 0.26 | 0.001 U | 0.005 U | 100 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.003 U | 0.001 U | 0.09 B |
| 0386 | 14-MAR-91 | 0.0588 B | 0.0146 B | 0.002 U | 0.238 | 0.001 U | 0.002 U | 90.1 | 0.076 U | 0.0145 | 0.003 U | 0.0047 B | 0.0295 B | 0.001 U | 0.0844 B |
| 0386 | 20-JUN-91 | 0.0671 B | 0.0508 B | 0.002 U | 0.237 E | 0.001 U | 0.0032 B | 90.3 | 0.112 U | 0.0222 | 0.0052 B | 0.011 U | 0.0189 B | 0.001 U | 0.0833 B |
| 0774 | __-AUG-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 134 | 0.1 U | 0.01 U | 0.05 U | 0.02 U | 0.038 | 0.005 U | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0386 | 03-JUN-88 | 37.8459 | 0.0677 | 0.0002 U | 0.022 U | 0.3148 | 2.3 | 0.005 U | 0.0256 | 49.1775 | 1.5757 | 0.01 U | | 0.036 U | 0.0227 |
| 0386 | 06-OCT-88 | 28.8084 | 0.0164 | 0.0002 U | 0.022 U | 0.1599 | 2.5 | 0.0139 | 0.0076 U | 41.5745 | 1.5623 | 0.01 U | | 0.036 U | 0.0372 |
| 0386 | 21-DEC-88 | 28.0537 | 0.0051 U | 0.0002 U | 0.022 U | 0.0688 | 2.1 | 0.012 | 0.0076 U | 41.2863 | 1.5014 | 0.01 U | | 0.036 U | 0.02 U |
| 0386 | 29-MAR-89 | 28.836 | 0.0063 J | 0.0002 U | 0.027 U | 0.0671 | 2.45 J | .0161 | 0.004 U | 42.9191 | 1.4496 | 0.001 U | | 0.034 U | 0.008 U |
| 0386 | 22-JUN-89 | .029053 | 0.006 B | | .00003 U | .00008 | | | 0.004 U | .043878 | .00141 | | | .00003 U | 0.008 U |
| 0386 | 29-JUN-89 | 27.9 | .015 U | .0002 U | .1 U | .0532 | 5.0 U | .0198 | .01 U | 44 | 1.36 | .01 U | .1 U | .05 U | .02 U |
| 0386 | 12-JUL-89 | 30.7 | .015 U | .0002 U | .1 U | .058 | 5.0 U | .023 | .01 U | 39.7 | 1.5 | .01 U | .1 U | .05 U | .02 U |
| 0386 | 23-MAR-90 | 32.2 | 0.0023 | 0.0002 U | 0.035 U | 0.0297 B | 2.4 B | 0.0309 N | 0.006 U | 46.9 | 1.48 | 0.001 | 0.025 U | 0.006 U | 0.0066 B |
| 0386 | 08-JUN-90 | 35.1 | 0.015 U | 0.0002 U | 0.1 U | 0.0464 | 5.0 U | 0.043 | 0.01 U | 51.7 | 1.64 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 0386 | 06-SEP-90 | 32.4 E | 0.004 B | 0.0002 U | 0.0115 B | 0.032 B | 2.38 B | 0.0464 S | 0.0118 | 40.6 E | 1.45 E | 0.003 U | 0.0449 B | 0.0096 B | 0.0081 B |
| 0386 | 15-NOV-90 | 35.2 | 0.017 | 0.0002 U | 0.009 U | 0.0237 B | 4.45 B | 0.0477 | 0.0101 | 46.6 | 1.58 | 0.002 U | 0.03 U | 0.0131 B | 0.0022 B |
| 0386 | 14-MAR-91 | 34.2 | 0.0014 B | 0.0002 UN | 0.006 B | 0.0654 | 2.55 B | 0.0475 S | 0.0053 B | 52.8 | 1.57 | 0.001 U | 0.029 B | 0.0065 B | 0.0112 B |
| 0386 | 20-JUN-91 | 34.2 | 0.001 U | 0.0002 U | 0.0099 B | 0.0539 | 2.63 B | 0.064 | 0.0046 B | 53.3 | 1.58 | 0.001 U | 0.0322 B | 0.0066 B | 0.0075 B |
| 0774 | __-AUG-86 | 29 | 0.01 U | 0.0002 U | 0.1 U | 0.04 U | 2.5 | 0.002 U | 0.01 U | 6.5 | 0.56 | 0.01 U | | 0.05 U | 0.02 U |

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E=Estimated Value
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V=Valid and acceptable
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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0774 | 07-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1447 | 0.005 U | 0.005 U | 99.6755 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0081 | 0.005 U | |
| 0774 | 28-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1559 | 0.005 U | 0.005 U | 102.9226 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0128 | 0.006 | |
| 0774 | 23-JUL-87 | 0.03 | 0.002 U | 0.005 U | 0.1728 | 0.005 U | 0.001 U | 9905678 | 0.02 U | 0.01 U | 0.022 U | 0.0066 | 0.0069 U | 0.005 U | |
| 0774 | 05-NOV-87 | 0.0298 | 0.02 U | 0.005 U | 0.1671 | 0.005 U | 0.0005 J | 87.3583 | 0.02 U | 0.01 U | 0.022 U | 0.01 | 0.0329 | 0.005 U | 0.1 U |
| 2274 | __-SEP-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 1.42 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.075 U | 0.01 U | |
| 2274 | 13-MAR-87 | 0.029 U | 0.06 U | 0.01 U | 0.2133 | 0.005 U | 0.005 U | 97.3944 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 2274 | 22-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1969 | 0.005 U | 0.005 U | 103.83 | 0.2 U | 0.01 U | 0.022 U | 0.0078 | 0.0143 | 0.022 | |
| 2274 | 28-JUL-87 | 0.0887 | 0.02 U | 0.005 U | 0.2474 | 0.005 U | 0.001 U | 101.2017 | 0.02 U | 0.01 U | 0.022 U | 0.0064 | 0.0515 | 0.005 U | |
| 2274 | 21-OCT-87 | 0.0376 | 0.02 U | 0.005 U | 0.1835 | 0.001 J | 0.001 U | 84.5535 | 0.02 U | 0.01 U | 0.022 U | 0.0132 | 0.0516 | 0.005 U | 0.02 J |
| 2274 | 01-DEC-89 | .2 U | .06 U | .01 U | .246 | .005 U | .005 U | 82.8 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 2274 | 17-MAR-90 | 0.0418 U | 0.0134 U | 0.0013 U | 0.265 | 0.0002 U | 0.0032 | 87.3 E | | 0.0058 U | 0.0027 U | 0.0032 B | 0.0113 U | 0.0014 | |
| 2274 | 21-JUN-90 | 0.2 U | 0.06 U | 0.01 U | 0.25 | 0.005 U | 0.005 U | 88.9 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 2274 | 03-NOV-90 | 0.0303 B | 0.022 U | 0.001 U | 0.264 | 0.001 U | 0.005 U | 113 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.003 U | 0.001 U | 0.0213 B |
| 2274 | 23-MAY-91 | 0.0534 B | 0.0153 B | 0.002 U | 0.284 | 0.001 U | 0.002 U | 93.9 | 0.112 U | 0.0055 B | 0.003 U | 0.011 U | 0.0114 B | 0.001 U | 0.022 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0774 | 07-MAY-87 | 11.3116 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 17.2628 | 0.3836 | 0.01 U | | 0.024 U | 0.02 U |
| 0774 | 28-MAY-87 | 11.6059 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 13.0137 | 0.3916 | 0.01 U | | 0.024 U | 0.02 U |
| 0774 | 23-JUL-87 | 13.0517 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.3 | 0.002 J | 0.0076 U | 18.7144 | 0.4422 | 0.01 U | | 0.024 U | 0.02 U |
| 0774 | 05-NOV-87 | 13.3154 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.2 | 0.005 U | 0.0076 U | 16.168 | 0.4369 | 0.01 U | | 0.024 U | 0.02 U |
| 2274 | __-SEP-86 | 22.5 | 0.065 | 0.0002 U | 0.19 | 0.04 U | 4.1 | 0.017 | 0.014 | 22.4 | 1.11 | 0.01 U | | 0.05 U | 0.04 U |
| 2274 | 13-MAR-87 | 19.4344 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5.0 U | 0.005 U | 0.0076 U | 29.3958 | 0.9296 | 0.01 U | | 0.024 U | 0.03 |
| 2274 | 22-MAY-87 | 18.1591 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 33.3721 | 0.8147 | 0.01 U | | 0.024 U | 0.0393 |
| 2274 | 28-JUL-87 | 17.3086 | 0.0416 | 0.0002 U | 0.022 U | 0.037 U | 2.3 | 0.005 U | 0.0076 U | 37.2635 | 0.8662 | 0.01 U | | 0.0251 | 0.0234 |
| 2274 | 21-OCT-87 | 16.4465 | 0.0051 U | 0.0001 J | 0.022 U | 0.037 U | 2.7 | 0.005 U | 0.0076 U | 29.839 | 0.7917 | 0.01 U | | 0.024 U | 0.0364 |
| 2274 | 01-DEC-89 | 17.5 | .015 U | .0002 | .1 U | .04 U | 5.0 U | .005 U | .01 U | 36.1 | 1.01 | .01 U | .1 U | .05 U | .02 U |
| 2274 | 17-MAR-90 | 18.5 E | 0.0133 B | 0.0002 U | | 0.0111 U | 1.66 B | 0.0018 U | 0.0049 | 36.1 E | | 0.0009 | | 0.003 U | |
| 2274 | 21-JUN-90 | 18.4 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 33.7 | 0.86 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 2274 | 03-NOV-90 | 21.2 | 0.0077 B | 0.0002 U | 0.009 U | 0.009 U | 4.05 B | 0.002 U | 0.006 B | 33.7 | 0.962 | 0.002 U | 0.03 U | 0.0073 B | 0.002 U |
| 2274 | 23-MAY-91 | 19.3 | 0.0013 B | 0.0002 U | 0.0039 B | 0.003 U | 3.37 B | 0.002 B | 0.002 U | 38.6 | 0.987 | 0.001 U | 0.01 U | 0.002 U | 0.012 B |

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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2274 | 09-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0065 | 132 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0025 B | 0.184 |
| 2587 | 22-OCT-87 | 2.6796 | | | 0.1524 | | | 110.7037 | | 0.0785 | 0.022 U | 0.0063 U | 4.347 | | |
| 2587 | 04-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.1128 | 0.005 U | 0.001 U | 116.7854 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0171 | 0.005 U | 0.1 U |
| 2587 | 12-MAY-88 | 0.0968 | 0.034 U | 0.005 U | 0.0769 | 0.001 U | 0.005 U | 105.3446 | 0.02 U | 0.01 U | 0.022 U | 0.0126 | 0.022 | 0.005 U | |
| 2587 | 16-AUG-88 | 0.0897 | 0.034 U | 0.005 U | 0.0937 | 0.001 U | 0.005 U | 119.8486 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0319 | 0.005 U | |
| 2587 | 11-NOV-88 | 0.0376 | 0.034 U | 0.005 U | 0.1076 | 0.001 U | 0.005 U | 125.3399 | 0.02 U | 0.0158 | 0.022 U | 0.0063 U | 0.067 | 0.005 U | |
| 2587 | 15-FEB-89 | 0.0614 J | 0.05 U | 0.001 U | 0.1269 J | 0.002 U | 0.005 U | 124.3472 | 0.005 U | 0.009 U | 0.029 U | 0.004 U | 0.0767 J | 0.0111 | |
| 2587 | 09-MAY-89 | 0.0387 J | 0.05 U | .001 U | 0.142 J | 0.002 U | 0.005 U | 129.6354 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 2587 | 01-FEB-90 | 8.14 | 0.022 U | 0.0034 | 0.212 | 0.001 U | 0.003 U | 128 | | 0.0495 | 0.0098 B | 0.0246 B | 14.9 | 0.0116 N | |
| 2587 | 11-JUN-90 | 0.07 U | 0.0227 B | 0.0016 U | 0.0801 B | 0.0007 U | 0.0034 U | 108 | 1.0 U | 0.0048 B | 0.0041 U | 0.0051 B | 0.0106 U | 0.0019 | 0.0034 U |
| 2587 | 09-MAR-91 | 0.0439 B | 0.008 U | 0.002 UW | 0.115 B | 0.001 U | 0.002 U | 127 | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.0117 B | 0.001 UW | 0.0039 B |
| 2587 | 22-APR-91 | 0.0481 B | 0.006 U | 0.002 U | 0.127 B | 0.001 U | 0.002 U | 137 | 0.112 U | 0.003 U | 0.003 U | 0.011 U | 0.0392 | 0.001 U | 0.006 B |
| 2587 | 10-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.104 B | 0.002 U | 0.0086 | 134 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0012 B | 0.05 U |
| 2787 | 23-AUG-88 | 0.0522 | 0.034 U | 0.005 U | 0.1117 | 0.001 U | 0.005 U | 85.0476 | 0.02 U | 0.01 U | 0.022 U | 0.0076 | 0.0216 | 0.005 U | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2274 | 09-SEP-91 | 29.7 | 0.0526 | 0.0002 U | 0.01 U | 0.0127 B | 2.0 U | 0.0011 B | 0.005 U | 177 | 0.946 | 0.001 U | 0.1 U | 0.01 U | 0.0104 B |
| 2587 | 22-OCT-87 | 8.0261 | 0.3485 | | 0.022 U | 0.037 U | | | 0.0076 U | 9.3252 | 0.3112 | | | 0.0401 | 0.0886 |
| 2587 | 04-MAR-88 | 7.8072 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.1 | 0.005 U | 0.0076 U | 11.7683 | 0.2998 | 0.01 U | | 0.024 U | 0.02 U |
| 2587 | 12-MAY-88 | 7.3872 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.6 | 0.005 U | 0.0076 U | 11.0605 | 0.2345 | 0.01 U | | 0.036 U | 0.02 U |
| 2587 | 16-AUG-88 | 7.1069 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.5 | 0.005 U | 0.0076 U | 13.3006 | 0.2606 | 0.01 U | | 0.036 U | 0.0264 |
| 2587 | 11-NOV-88 | 7.6568 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.5 J | 0.005 U | 0.0076 U | 11.4616 | 0.3155 | 0.01 U | | 0.036 U | 0.0991 |
| 2587 | 15-FEB-89 | 8.7065 | 0.0023 J | 0.0002 U | 0.027 U | 0.022 U | 0.6 J | .0014 J | 0.004 U | 13.0472 | 0.348 | 0.001 U | | 0.034 U | 0.0195 J |
| 2587 | 09-MAY-89 | 9.2948 | 0.002 U | .0002 U | 0.027 U | 0.022 U | 1.0 J | .001 U | 0.004 U | 12.6046 | 0.3801 | .001 U | | 0.034 U | 0.008 U |
| 2587 | 01-FEB-90 | 10.4 | 0.235 * | 0.0002 U | | 0.0338 B | 2.34 B | 0.002 UN | 0.003 U | 10.6 | | 0.004 | | 0.0785 | 0.09 |
| 2587 | 11-JUN-90 | 6.79 | 0.0022 U | 0.0002 U | 0.0092 B | 0.0096 U | 1.47 U | 0.0012 U | 0.0033 U | 10.3 | 0.229 B | 0.0016 | 0.0107 U | 0.0029 U | 0.0049 B |
| 2587 | 09-MAR-91 | 9.1 | 0.001 U | 0.0002 | 0.003 U | 0.004 U | 0.667 BE | 0.002 UN | 0.003 U | 11.8 | 0.334 | 0.001 U | 0.011 U | 0.0043 B | 0.0089 B |
| 2587 | 22-APR-91 | 9.65 | 0.0013 B | 0.0002 U | 0.0033 B | 0.003 U | 0.649 B | 0.002 U | 0.002 U | 11.8 | 0.361 | 0.001 BN | 0.01 U | 0.002 U | 0.0081 B |
| 2587 | 10-SEP-91 | 8.73 | 0.0056 B | 0.0002 U | 0.01 U | 0.01 U | 2.0 U | 0.001 U | 0.005 U | 12.5 | 0.303 | 0.001 U | 0.1 U | 0.01 U | 0.0119 B |
| 2787 | 23-AUG-88 | 15.026 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 4 | 0.005 U | 0.0076 U | 27.5836 | 0.4937 | 0.01 U | | 0.036 U | 0.02 U |

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*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2787 | 17-NOV-88 | 0.0524 | 0.034 U | 0.005 U | 0.116 | 0.001 U | 0.005 U | 92.1867 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0491 | 0.005 U | |
| 2787 | 11-MAY-89 | 0.0233 J | 0.05 U | .001 U | 0.1053 J | 0.002 U | 0.005 U | 89.9515 | .2 U | 0.009 U | 0.029 U | 0.0108 J | 0.035 U | .001 U | |
| 2787 | 05-DEC-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 96.6 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 2887 | 15-MAR-88 | 0.029 U | 0.02 U | 0.004 J | 0.0238 | 0.005 U | 0.001 | 13.1315 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0143 | 0.005 U | 0.1 U |
| 2887 | 12-MAY-88 | 0.2705 | 0.034 U | 0.005 U | 0.0913 | 0.001 U | 0.005 U | 19.9311 | 0.02 U | 0.01 U | 0.022 U | 0.0463 | 0.1786 | 0.005 U | |
| 2887 | 20-FEB-89 | 0.0918 J | 0.05 U | 0.0022 J | 0.042 J | 0.002 U | 0.005 U | 35.1215 | 0.005 U | 0.0151 | 0.029 U | 0.0127 J | 0.0983 J | 0.001 U | |
| 3187 | 29-OCT-87 | 0.2634 | | | 0.0562 | | | 15.3345 | | 0.026 | 0.022 U | 0.0141 | 0.1701 | | |
| 3187 | 10-MAR-88 | 0.0864 | 0.02 U | 0.019 | 0.0146 | 0.005 U | 0.0025 | 21.9756 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0371 | 0.005 U | 0.1 U |
| 3187 | 12-MAY-88 | 0.2029 | 0.034 U | 0.008 | 0.0472 | 0.001 U | 0.005 U | 20.2619 | 0.02 U | 0.01 U | 0.022 U | 0.0121 | 0.0906 | 0.005 U | |
| 3187 | 25-AUG-88 | 0.0419 | 0.034 U | 0.0053 | 0.0408 | 0.001 U | 0.005 U | 22.0879 | 0.02 U | 0.01 U | 0.022 U | 0.0106 | 0.0239 | 0.005 U | |
| 3187 | 22-NOV-88 | 0.1283 | 0.034 U | 0.004 J | 0.0224 | 0.001 U | 0.005 U | 21.8225 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.1436 | 0.005 U | |
| 3187 | 22-FEB-89 | 0.0165 J | 0.05 U | .0047 J | 0.0179 J | 0.002 U | 0.005 U | 19.2669 | 0.005 U | 0.009 U | 0.029 U | 0.004 U | 0.0371 J | 0.001 U | |
| 3187 | 11-MAY-89 | 0.0291 J | 0.05 U | .003 J | 0.0193 J | 0.002 U | 0.005 U | 20.0689 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 3187 | 18-SEP-90 | 0.01 U | 0.007 U | 0.004 B | 0.024 BE | 0.001 U | 0.002 U | 23.8 E | 0.092 U | 0.005 U | 0.003 U | 0.002 U | 0.014 U | 0.0341 | 0.03 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2787 | 17-NOV-88 | 14.0185 | 0.0091 | 0.0002 U | 0.022 U | 0.037 U | 2.6 | 0.005 U | 0.0095 | 27.3135 | 0.5492 | 0.01 U | | 0.036 U | 0.0256 |
| 2787 | 11-MAY-89 | 15.6679 | 0.0062 J | .0002 U | 0.027 U | 0.022 U | 4.21 J | .001 U | 0.004 U | 30.1146 | 0.577 | .001 U | | 0.034 U | 0.008 U |
| 2787 | 05-DEC-89 | 15.6 | .015 U | .0002 U | .1 U | .04 U | 5.0 U | .005 U | .01 U | 17.9 | .569 | .01 U | .1 U | .05 U | .02 U |
| 2887 | 15-MAR-88 | 1.7166 | 0.0092 | 0.0002 U | 0.0251 | 0.037 U | 14 | 0.003 J | 0.0076 U | 19.306 | 0.1373 | 0.01 U | | 0.024 U | 0.02 U |
| 2887 | 12-MAY-88 | 3.1309 | 0.0304 | 0.0002 U | 0.1347 | 0.037 U | 5.2 | 0.005 U | 0.0076 U | 92.0039 | 0.2427 | 0.01 U | | 0.0992 | 0.0489 |
| 2887 | 20-FEB-89 | 6.2484 | 0.0295 | 0.0002 U | 0.0902 | 0.022 U | 5.6 | 0.002 J | 0.004 U | 142.8783 | 0.4937 | 0.001 U | | 0.034 U | 0.0364 |
| 3187 | 29-OCT-87 | 0.1157 | 0.0051 U | | 0.0568 | 0.037 U | | | 0.0076 U | 78.5306 | 0.1768 | | | 0.1137 | 0.0237 |
| 3187 | 10-MAR-88 | 0.1307 | 0.0051 U | 0.0002 U | 0.0464 | 0.037 U | 4.3 | 0.005 U | 0.0076 U | 67.1358 | 0.1962 | 0.01 U | | 0.024 U | 0.02 U |
| 3187 | 12-MAY-88 | 0.373 | 0.0051 U | 0.0002 U | 0.0408 | 0.037 U | 3 | 0.005 U | 0.0076 U | 69.2078 | 0.1697 | 0.01 U | | 0.036 U | 0.0258 |
| 3187 | 25-AUG-88 | 0.7221 | 0.0051 U | 0.0002 U | 0.044 | 0.037 U | 3 | 0.005 U | 0.0076 U | 72.9478 | 0.2119 | 0.01 U | | 0.036 U | 0.0306 |
| 3187 | 22-NOV-88 | 1.0221 | 0.0051 U | 0.0002 U | 0.0309 | 0.037 U | 2.2 | 0.005 U | 0.0076 U | 80.6209 | 0.2277 | 0.01 U | | 0.036 U | 0.1041 |
| 3187 | 22-FEB-89 | 1.1088 J | 0.0024 J | 0.0002 U | 0.027 U | 0.022 U | 2.45 J | 0.001 U | 0.004 U | 70.2818 | 0.1968 J | 0.001 U | | 0.034 U | 0.0207 |
| 3187 | 11-MAY-89 | 1.3554 J | 0.0023 B | .0002 U | 0.0276 J | 0.022 U | 3.26 J | .001 U | 0.004 U | 76.4808 | 0.2119 | .001 U | | 0.034 U | 0.008 U |
| 3187 | 18-SEP-90 | 3.75 BE | 0.003 B | 0.0002 U | 0.0151 B | 0.004 U | 2.6 B | 0.002 U | 0.003 U | 81.7 E | 0.275 E | 0.003 U | 0.0155 B | 0.0024 B | 0.005 B |

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East Trenches Area
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3187 | 21-NOV-90 | 0.0573 B | 0.009 B | 0.006 B | 0.0257 | 0.001 U | 0.002 U | 21.7 | 0.076 U | 0.0114 | 0.0039 B | 0.0042 B | 0.014 U | 0.001 U | 0.0296 B |
| 3187 | 11-JAN-91 | 0.0569 B | 0.0111 B | 0.004 B | 0.0181 B | 0.001 U | 0.002 U | 21.7 E | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.159 | 0.001 U | 0.0234 B |
| 3187 | 16-APR-91 | 0.0189 B | 0.008 U | 0.005 B | 0.0268 B | 0.001 U | 0.002 U | 22.8 | 0.112 U | 0.005 U | 0.003 U | 0.002 U | 0.004 U | 0.001 U | 0.0475 B |
| 3187 | 10-SEP-91 | 0.171 B | 0.05 U | 0.0047 B | 0.1 U | 0.002 U | 0.003 U | 21.7 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.0016 B | 0.05 U |
| 3287 | 27-OCT-87 | 0.0349 | | | 0.1902 | | | 97.7697 | | 0.0417 | 0.022 U | 0.0063 U | 0.0945 | | |
| 3287 | 10-MAR-88 | 0.029 U | 0.014 | 0.005 U | 0.1972 | 0.005 U | 0.001 U | 114.4551 | 0.02 U | 0.01 U | 0.022 U | 0.2227 | 0.0106 | 0.005 U | 0.1 U |
| 3287 | 12-MAY-88 | 0.0302 | 0.034 U | 0.005 U | 0.1074 | 0.001 U | 0.005 U | 119.8149 | 0.02 U | 0.01 U | 0.022 U | 0.0621 | 0.0561 | 0.005 U | |
| 3287 | 23-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1612 | 0.001 U | 0.005 U | 115.3676 | 0.02 U | 0.01 U | 0.022 U | 0.01 | 0.0467 | 0.005 U | |
| 3287 | 17-NOV-88 | 0.0359 | 0.034 U | 0.005 U | 0.1867 | 0.001 U | 0.005 U | 129.3694 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0283 | 0.005 U | |
| 3287 | 22-FEB-89 | 0.0199 J | 0.0515 J | 0.001 U | 0.2163 | 0.002 U | 0.005 U | 112.9789 | 0.005 U | 0.0126 | 0.029 U | 0.0059 J | 0.0447 J | 0.0026 J | |
| 3287 | 29-NOV-90 | 0.0418 B | 0.0152 B | 0.002 U | 0.202 | 0.001 U | 0.002 U | 105 | 0.076 U | 0.0076 B | 0.003 U | 0.002 U | 0.014 U | 0.001 U | 0.0034 B |
| 3287 | 15-JAN-91 | 0.077 B | 0.031 B | 0.002 U | 0.224 | 0.001 U | 0.0036 B | 114 | 0.076 U | 0.031 | 0.0089 B | 0.0166 B | 0.0206 B | 0.001 U | 0.004 B |
| 3287 | 16-APR-91 | 0.0801 B | 0.0126 B | 0.002 U | 0.215 | 0.001 U | 0.002 U | 111 | 0.112 U | 0.0071 B | 0.003 U | 0.0119 B | 0.0372 B | 0.001 U | 0.0333 B |
| 3487 | 10-MAR-88 | 0.029 U | 0.02 U | 0.007 | 0.0424 | 0.005 U | 0.001 U | 192.5822 | 0.02 U | 0.0123 | 0.022 U | 0.0063 U | 0.9745 | 0.005 U | 0.22 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3187 | 21-NOV-90 | 4.03 BE | 0.0053 B | 0.0002 U | 0.0177 B | 0.0079 B | 2.6 BE | 0.001 | 0.0057 B | 77.6 E | 0.27 E | 0.002 U | 0.0122 B | 0.0066 B | 0.0117 B |
| 3187 | 11-JAN-91 | 4.11 BE | 0.0059 B | 0.0002 U | 0.013 B | 0.0086 B | 3.0 B | 0.002 UW | 0.003 U | 90.2 | 0.27 E | 0.003 U | 0.011 U | 0.0025 B | 0.019 B |
| 3187 | 16-APR-91 | 4.54 B | 0.0067 B | 0.0002 | 0.0074 B | 0.0099 B | 2.84 BE | 0.002 | 0.003 U | 85.4 | 0.293 | 0.001 UW | 0.011 U | 0.0026 B | 0.025 |
| 3187 | 10-SEP-91 | 4.23 B | 0.0185 | 0.0002 U | 0.0107 B | 0.01 U | 2.58 B | 0.001 U | 0.005 U | 80.4 | 0.264 | 0.001 U | 0.1 U | 0.01 U | 0.0291 |
| 3287 | 27-OCT-87 | 15.4193 | 0.6198 | | 0.022 U | 0.0463 | | | 0.0076 U | 24.5042 | 0.5598 | | | 0.024 U | 0.02 U |
| 3287 | 10-MAR-88 | 16.004 | 0.4679 | 0.0002 U | 0.022 U | 0.3783 | 3.2 | 0.005 U | 0.0076 U | 25.0755 | 0.5935 | 0.01 U | | 0.024 U | 0.98 |
| 3287 | 12-MAY-88 | 19.4299 | 0.1821 | 0.0002 U | 0.022 U | 0.0584 | 3.7 | 0.005 U | 0.0076 U | 31.8007 | 0.5876 | 0.01 U | | 0.036 U | 0.1173 |
| 3287 | 23-AUG-88 | 14.4738 | 0.0316 | 0.0002 U | 0.022 U | 0.037 U | 2.6 | 0.005 U | 0.0076 U | 25.5758 | 0.5098 | 0.01 U | | 0.036 U | 0.0502 |
| 3287 | 17-NOV-88 | 15.066 | 0.0199 | 0.0002 U | 0.022 U | 0.037 U | 1.4 | 0.005 U | 0.0076 U | 26.0447 | 0.6276 | 0.01 U | | 0.036 U | 0.022 |
| 3287 | 22-FEB-89 | 14.0302 | 0.0038 J | 0.0002 U | 0.027 U | 0.022 U | 1.75 J | 0.001 U | 0.004 U | 28.8088 | 0.549 | 0.001 U | | 0.034 U | 0.0744 |
| 3287 | 29-NOV-90 | 14.6 | 0.001 U | 0.0002 U | 0.0043 B | 0.0062 B | 1.39 B | 0.002 U | 0.004 U | 21.6 | 0.534 | 0.002 U | 0.0417 B | 0.0051 B | 0.0109 B |
| 3287 | 15-JAN-91 | 15.7 | 0.0058 B | 0.0002 U | 0.0109 B | 0.0319 B | 1.48 B | 0.002 U | 0.008 B | 17.8 | 0.539 | 0.003 U | 0.0324 B | 0.0128 B | 0.0272 |
| 3287 | 16-APR-91 | 15.4 | 0.0051 B | 0.0002 U | 0.003 U | 0.0168 B | 1.92 BE | 0.002 UN | 0.0054 B | 23.7 | 0.563 | 0.001 UW | 0.0237 B | 0.0084 B | 0.0162 B |
| 3487 | 10-MAR-88 | 63.8066 | 0.1477 | 0.0002 U | 0.0243 | 0.037 U | 7.6 | 0.005 U | 0.0076 U | 219.1568 | 2.5972 | 0.01 U | | 0.024 U | 0.02 U |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 12-MAY-88 | 0.1204 | 0.034 U | 0.005 U | 0.0463 | 0.001 U | 0.005 U | 17.8546 | 0.02 U | 0.0111 | 0.022 U | 0.0128 | 0.0802 | 0.005 U | |
| 3487 | 20-FEB-89 | 0.0442 J | 0.05 U | .0024 J | 0.0441 J | 0.002 U | 0.005 U | 15.7051 | 0.005 U | 0.009 U | 0.029 U | 0.0044 J | 0.0764 J | 0.001 U | |
| 3487 | 13-DEC-89 | .2 U | .06 U | .0036 | .2 U | .005 U | .005 U | 18.5 | 1.0 U | .01 U | .05 U | .025 U | .1 U | .0026 | 5.0 U |
| 3487 | 21-MAR-90 | 0.035 U | 0.026 U | 0.0022 B | 0.0537 B | 0.001 U | 0.002 U | 18.8 | 0.05 B | 0.005 U | 0.004 U | 0.005 U | 0.0192 B | 0.001 U | 0.0385 B |
| 3487 | 26-JUN-90 | 0.2 U | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 21 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 3487 | 28-NOV-90 | 0.0214 B | 0.0093 B | 0.002 U | 0.0579 B | 0.001 U | 0.002 U | 19.7 | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.0166 B | 0.001 UW | 0.033 B |
| 3487 | 15-JAN-91 | 0.0299 B | 0.008 U | 0.002 U | 0.0565 B | 0.001 U | 0.002 U | 19.6 | 0.076 U | 0.005 U | 0.003 U | 0.0115 B | 0.0507 B | 0.001 U | 0.0348 B |
| 3487 | 16-APR-91 | 0.0274 B | 0.008 U | 0.002 B | 0.065 B | 0.001 U | 0.002 U | 21.5 | 0.112 U | 0.005 U | 0.003 U | 0.0027 B | 0.017 B | 0.001 U | 0.0612 B |
| 3487 | 05-SEP-91 | | | 0.002 U | | | | | 0.5 U | | | | | 0.0019 B | 0.05 U |
| 3687 | 06-NOV-87 | 0.0327 | | | 0.1858 | | | 98.4384 | | 0.01 U | 0.022 U | 0.0109 | 0.0261 | | |
| 3687 | 10-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.17 | 0.005 U | 0.001 U | 110.3891 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0122 | 0.005 U | 0.1 U |
| 3687 | 05-MAY-88 | 0.068 | 0.034 U | 0.005 U | 0.1176 | 0.001 U | 0.005 U | 104.1592 | 0.02 U | 0.022 | 0.022 U | 0.0065 | 0.0303 | 0.005 U | |
| 3687 | 19-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.1435 | 0.001 U | 0.005 U | 112.5575 | 0.02 U | 0.0154 | 0.022 U | 0.0063 U | 0.0295 | 0.005 U | |
| 3687 | 10-NOV-88 | 0.0294 | 0.034 U | 0.005 U | 0.1669 | 0.001 U | 0.005 U | 111.3045 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0118 | 0.005 U | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3487 | 12-MAY-88 | 2.8998 | 0.0106 | 0.0002 U | 0.0358 | 0.037 U | 2.5 | 0.005 U | 0.0076 U | 67.5259 | 0.1978 | 0.01 U | | 0.036 U | 0.0294 |
| 3487 | 20-FEB-89 | 4.114 J | 0.0099 J | 0.0002 U | 0.027 U | 0.022 U | 2.8 J | 0.001 U | 0.004 U | 78.442 | 0.2345 | 0.001 U | | 0.034 U | 0.0184 J |
| 3487 | 13-DEC-89 | 5.0 U | .015 U | .0002 U | .1 U | .04 U | 5.0 U | .0023 | .01 U | 70.4 | .245 | .003 U | 1.0 U | .05 U | .02 U |
| 3487 | 21-MAR-90 | 5.12 | 0.0066 B | 0.0002 U | 0.035 U | 0.006 U | 2.42 B | 0.003 U | 0.006 U | 72.1 | 0.276 | 0.001 UN | 0.025 U | 0.006 U | 0.013 B |
| 3487 | 26-JUN-90 | 6.04 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 85.3 | 0.308 | 0.01 U | 0.1 U | 0.05 U | 0.0491 |
| 3487 | 28-NOV-90 | 5.65 | 0.0062 B | 0.0002 U | 0.0094 B | 0.004 U | 2.33 BE | 0.001 B | 0.003 U | 71.2 E | 0.274 | 0.002 U | 0.007 U | 0.0038 B | 0.0119 B |
| 3487 | 15-JAN-91 | 5.81 | 0.0081 B | 0.0002 U | 0.0076 B | 0.004 U | 2.39 B | 0.002 BW | 0.003 U | 65 | 0.266 | 0.003 U | 0.011 U | 0.0066 B | 0.0128 B |
| 3487 | 16-APR-91 | 5.93 | 0.0078 B | 0.0002 U | 0.007 B | 0.004 U | 2.56 BE | 0.002 UN | 0.0037 B | 72.9 | 0.302 | 0.001 U | 0.011 U | 0.0089 B | 0.0028 B |
| 3487 | 05-SEP-91 | | | 0.0002 U | 0.01 U | | | 0.0012 B | | | 0.297 | 0.001 U | 0.1 U | | |
| 3687 | 06-NOV-87 | 9.6752 | 0.3544 | | 0.022 U | 0.0548 | | | 0.0076 U | 11.0671 | 0.3658 | | | 0.024 U | 0.0365 |
| 3687 | 10-MAR-88 | 8.5566 | 0.0916 | 0.0002 U | 0.022 U | 0.037 U | 0.7 | 0.005 U | 0.0076 U | 9.3131 | 0.2984 | 0.01 U | | 0.024 U | 0.0225 |
| 3687 | 05-MAY-88 | 8.5449 | 0.0486 | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 9.4793 | 0.2872 | 0.01 U | | 0.036 U | 0.02 U |
| 3687 | 19-AUG-88 | 8.6749 | 0.0499 | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 8.8509 | 0.295 | 0.01 U | | 0.036 U | 0.02 U |
| 3687 | 10-NOV-88 | 8.8751 | 0.0879 | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 9.2711 | 0.3325 | 0.01 U | | 0.036 U | 0.0227 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 15-FEB-89 | 0.0249 J | 0.05 U | 0.001 U | 0.2179 | 0.002 U | 0.005 U | 123.4178 | 0.005 U | 0.009 U | 0.029 U | 0.004 U | 0.0373 J | 0.001 U | |
| 3687 | 09-MAY-89 | 0.0221 J | 0.05 U | .001 U | 0.2216 | 0.002 U | 0.005 U | 116.3145 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 3687 | 10-NOV-89 | .2 U | .06 U | .01 U | .2 U | .005 U | .005 U | 127 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 3687 | 05-JUN-90 | 0.0255 B | 0.0183 U | 0.0009 U | 0.201 | 0.0009 U | 0.0044 U | 118 | 1.0 U | 0.0066 U | 0.0033 U | 0.0047 U | 0.0182 B | 0.072 | 0.0081 B |
| 3687 | 29-AUG-90 | 0.0673 B | 0.0241 B | 0.001 U | 0.17 BE | 0.001 U | 0.002 U | 121 | 0.147 U | 0.0181 | 0.004 U | 0.0173 B | 0.0246 B | 0.001 U | 0.0107 B |
| 3687 | 12-NOV-90 | 0.0377 B | 0.022 U | 0.001 U | 0.208 | 0.001 U | 0.005 U | 140 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.0202 B | 0.001 U | 0.0106 B |
| 3687 | 19-APR-91 | 0.0222 B | 0.006 U | 0.002 U | 0.219 | 0.001 U | 0.002 U | 141 | 0.112 U | 0.003 U | 0.003 U | 0.011 U | 0.007 U* | 0.001 U | 0.0037 B |
| 3687 | 23-AUG-91 | 0.0733 B | 0.0263 B | 0.002 U | 0.198 BE | 0.001 U | 0.0018 B | 126 | 0.08 B | 0.0227 | 0.0034 B | 0.0087 B | 0.0153 B | 0.001 U | 0.0058 B |
| 3986 | __-SEP-86 | 0.1 U | 0.06 U | 0.002 U | 0.28 | 0.005 U | 0.005 U | 110.0 | 0.15 U | 0.01 U | 0.05 U | 0.02 U | 0.075 U | 0.01 U | |
| 3986 | 06-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.2274 | 0.005 U | 0.005 U | 120.5403 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 3986 | 03-JUN-87 | 0.0384 | 0.06 U | 0.01 U | 0.2166 | 0.005 U | 0.005 U | 93.0783 | 0.2 U | 0.01 U | 0.022 U | 0.0078 | 0.0274 | 0.005 U | |
| 3986 | 24-JUL-87 | 0.0756 | 0.02 U | 0.005 U | 0.2411 | 0.005 U | 0.0003 J | 112.5738 | 0.02 U | 0.01 U | 0.022 U | 0.0094 | 0.0433 | 0.005 U | |
| 3986 | 12-DEC-87 | 0.067 | 0.02 U | 0.005 U | 0.2244 | 0.05 U | 0.001 U | 99.7727 | 0.02 U | 0.01 U | 0.022 U | 0.0216 | 0.0661 | 0.005 U | 0.1 U |
| 3986 | 10-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.2576 | 0.005 U | 0.001 U | 111.6517 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0122 | 0.005 U | 0.1 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3687 | 15-FEB-89 | 10.3045 | 0.1653 | 0.0002 U | 0.027 U | 0.0347 J | 1.5 J | .0011 J | 0.004 U | 14.2014 | 0.4245 | 0.001 U | | 0.034 U | 0.03 |
| 3687 | 09-MAY-89 | 10.3512 | 0.1255 | .0002 U | 0.027 U | 0.022 U | 1.85 J | .001 U | 0.004 U | 11.9917 | 0.4332 | .001 U | | 0.034 U | 0.008 U |
| 3687 | 10-NOV-89 | 10.5 | .0419 | .0002 U | .1 U | .04 U | 5.0 U | .005 U | .01 U | 9.74 | .336 | .01 U | .1 U | .05 U | .02 U |
| 3687 | 05-JUN-90 | 9.13 | 0.0031 B | 0.0002 U | 0.0059 U | 0.007 B | 0.867 B | 0.0017 B | 0.0045 U | 9.62 | 0.318 B | 0.0016 U | 0.0302 U | 0.0013 B | 0.0045 B |
| 3687 | 29-AUG-90 | 9.2 E | 0.0141 B | 0.0002 U | 0.0026 B | 0.0103 B | 0.857 B | 0.001 U | 0.0077 B | 268 | 0.303 | 0.003 U | 0.0324 B | 0.0104 B | 0.0101 B |
| 3687 | 12-NOV-90 | 10.3 | 0.0119 B | 0.0002 U | 0.009 U | 0.0126 B | 1.75 B | 0.002 U | 0.0096 B | 9.67 | 0.291 | 0.002 U | 0.03 U | 0.0068 B | 0.0045 B |
| 3687 | 19-APR-91 | 10.8 | 0.0254 | 0.0002 U | 0.002 U | 0.003 U | 0.879 B | 0.002 U | 0.002 U | 10.4 | 0.377 | 0.001 UN | 0.01 U | 0.002 U | 0.01 B |
| 3687 | 23-AUG-91 | 9.47 | 0.0066 B | 0.0002 U | 0.0044 B | 0.0112 B | 0.929 BE | 0.002 U | 0.0044 B | 9.36 | 0.317 | 0.002 U | 0.0151 B | 0.0082 B | 0.0085 B |
| 3986 | __-SEP-86 | 9.57 | 0.035 | 0.0002 U | 0.1 U | 0.04 U | 1.78 | 0.002 U | 0.01 U | 17.3 | 0.523 | 0.01 U | | 0.025 U | 0.005 U |
| 3986 | 06-MAY-87 | 11.8066 | 0.0067 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 15.8685 | 0.5293 | 0.01 U | | 0.024 U | 0.02 U |
| 3986 | 03-JUN-87 | 10.0903 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 15.5111 | 0.4562 | 0.01 U | | 0.024 U | 0.02 U |
| 3986 | 24-JUL-87 | 11.0669 | 0.0084 | 0.005 | 0.022 U | 0.037 U | 1.1 | 0.002 J | 0.0076 U | 16.2862 | 0.4936 | 0.01 U | | 0.0289 | 0.0563 |
| 3986 | 12-DEC-87 | 10.1957 | 0.0064 | 0.0002 U | 0.022 U | 0.037 U | 1.2 | 0.005 U | 0.0076 U | 14.7377 | 0.465 | 0.01 U | | 0.024 U | 0.0279 |
| 3986 | 10-MAR-88 | 11.4966 | 0.0054 | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.0076 U | 16.2557 | 0.5017 | 0.01 U | | 0.0258 | 0.02 U |

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*=Duplicate analysis not within control limits
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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 05-MAY-88 | 0.0313 | 0.034 U | 0.005 U | 0.2264 | 0.001 U | 0.005 U | 108.6039 | 0.02 U | 0.01 U | 0.022 U | 0.0188 | 0.0429 | 0.005 U | |
| 3986 | 19-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.2536 | 0.001 U | 0.005 U | 110.9536 | 0.02 U | 0.0117 | 0.022 U | 0.0063 U | 0.0312 | | |
| 3986 | 10-NOV-88 | 0.0421 | 0.036 | 0.005 U | 0.2459 | 0.001 U | 0.005 U | 109.9309 | | 0.01 U | 0.022 U | 0.0063 U | 0.0683 | | |
| 3986 | 15-FEB-89 | 0.1226 J | 0.05 U | .0014 J | 0.2688 | 0.002 U | 0.005 U | 111.4549 | 0.005 U | 0.009 U | 0.029 U | 0.004 U | 0.1801 | 0.001 U | |
| 3986 | 09-MAY-89 | 0.0338 J | 0.05 U | .001 U | 0.263 | 0.002 U | 0.005 U | 110.9209 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 3986 | 10-NOV-89 | .2 U | .06 U | .01 U | .282 | .005 U | .005 U | 122 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 3986 | 04-JUN-90 | 0.0177 B | 0.0183 U | 0.0009 U | 0.275 | 0.0009 U | 0.0044 U | 117 | 1.0 U | 0.0066 U | 0.0033 U | 0.0121 B | 0.0294 B | 0.003 | 0.0104 B |
| 3986 | 09-AUG-90 | 0.0444 B | 0.01 U | 0.001 U | 0.292 E | 0.001 U | 0.002 U | 124 | 0.4 B | 0.007 B | 0.004 U | 0.0039 B | 0.0164 B | 0.001 U | 0.0096 B |
| 3986 | 01-NOV-90 | 0.0549 B | 0.007 U | 0.001 U | 0.236 | 0.001 U | 0.002 U | 110 | 0.2 B | 0.0161 | 0.003 U | 0.0041 B | 0.0385 B | 0.001 U | 0.0067 B |
| 3986 | 19-MAR-91 | 0.0455 B | 0.008 U | 0.002 U | 0.202 | 0.001 U | 0.002 U | 106 | 0.076 U | 0.012 | 0.003 U | 0.0035 B | 0.0137 B | 0.001 U | 0.0141 B |
| 3986 | 14-MAY-91 | 0.0324 B | 0.0377 B | 0.002 U | 0.197 B | 0.001 U | 0.002 U | 101 | 0.112 U | 0.0068 B | 0.003 U | 0.011 U | 0.012 B | 0.001 UW | 0.0088 B |
| 3986 | 16-AUG-91 | 0.0714 B | 0.008 U | 0.002 U | 0.172 BE | 0.001 U | 0.001 U | 93.2 | 0.032 U | 0.0091 B | 0.002 U | 0.0062 B | 0.002 U | 0.001 U | 0.0092 B |
| 4086 | 06-MAY-87 | 0.4668 | 0.06 U | 0.01 U | 0.0719 | 0.005 U | 0.005 U | 152.5210 | 0.2 U | 0.01 U | 0.022 U | 0.013 | 0.2441 | 0.005 U | |
| 4086 | 27-OCT-87 | 0.0561 | 0.02 U | 0.005 U | 0.0729 | 0.005 U | 0.0003 J | 75.248 | 0.02 U | 0.027 | 0.022 U | 0.0092 | 0.0955 | 0.005 U | 0.04 J |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3986 | 05-MAY-88 | 11.6715 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1 | 0.005 U | 0.0408 | 15.931 | 0.4938 | 0.01 U | | 0.036 U | 0.0262 |
| 3986 | 19-AUG-88 | 11.5095 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1 | 0.005 U | 0.0076 U | 18.1539 | 0.482 | 0.01 U | | 0.036 U | 0.0241 |
| 3986 | 10-NOV-88 | 11.2983 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.8 | 0.005 U | 0.0076 U | 16.8616 | 0.5387 | 0.01 U | | 0.036 U | 0.0436 |
| 3986 | 15-FEB-89 | 12.2016 | 0.0032 J | 0.0002 U | 0.027 U | 0.022 U | 1.1 J | 0.001 U | 0.004 U | 19.2897 | 0.5371 | 0.001 U | | 0.034 U | 0.0431 |
| 3986 | 09-MAY-89 | 12.039 | 0.0043 J | .0002 U | 0.027 U | 0.022 U | 1.28 J | .001 U | 0.004 U | 18.8055 | 0.5335 | .001 U | | 0.034 U | 0.008 U |
| 3986 | 10-NOV-89 | 13.4 | .0171 | .0002 U | .1 U | .04 U | 5.0 U | .005 U | .01 U | 19.3 | .541 | .01 U | .1 U | .05 U | .0522 |
| 3986 | 04-JUN-90 | 13.1 | 0.0012 U | 0.0002 U | 0.0059 U | 0.0092 B | 0.986 B | 0.0017 U | 0.0045 U | 18.5 | 0.536 B | 0.0016 U | 0.0302 U | 0.0054 B | 0.0075 B |
| 3986 | 09-AUG-90 | 13.9 | 0.001 U | 0.0002 U | 0.0022 B | 0.004 U | 1.19 B | 0.002 U | 0.002 U | 22.7 | 0.583 | 0.001 U | 0.0131 B | 0.0095 B | 0.0075 B |
| 3986 | 01-NOV-90 | 13.1 | 0.001 U | 0.0002 U | 0.0058 B | 0.0089 B | 1.5 BE | 0.001 UN | 0.0037 B | 19.1 | 0.539 | 0.002 U | 0.0456 B | 0.0088 B | 0.0056 B |
| 3986 | 19-MAR-91 | 13 | 0.001 U | 0.0002 U | 0.012 B | 0.004 U | 1.53 BE | 0.002 U | 0.0036 B | 22.3 | 0.572 | 0.001 UW | 0.026 B | 0.0084 B | 0.0262 |
| 3986 | 14-MAY-91 | 12.2 | 0.001 U | 0.0002 U | 0.0089 B | 0.0068 B | 1.6 B | 0.001 UW | 0.002 U | 22.9 | 0.54 | 0.001 U | 0.0162 B | 0.002 U | 0.0135 B |
| 3986 | 16-AUG-91 | 11.3 | 0.0013 B | 0.0002 U | 0.0053 B | 0.0039 B | 1.49 B | 0.001 B | 0.002 U | 21.6 | 0.513 | 0.002 U | 0.014 U | 0.0062 B | 0.006 B |
| 4086 | 06-MAY-87 | 31.2705 | 0.5351 | 0.0002 U | 0.1035 | 0.0551 | 6 | 0.005 U | 0.0076 U | 134.5506 | 1.4881 | 0.01 U | | 0.024 U | 0.05 |
| 4086 | 27-OCT-87 | 17.0217 | 0.1816 | 0.0002 U | 0.0497 | 0.0468 | 3.9 | 0.005 | 0.0076 U | 101.0152 | 0.8204 | 0.01 U | | 0.024 U | 0.0229 |

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*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4086 | 11-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.054 | 0.005 U | 0.004 | 76.2347 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0227 | 0.005 U | 0.1 U |
| 4086 | 12-MAY-88 | 0.029 U | 0.034 U | 0.005 U | 0.0476 | 0.001 U | 0.005 U | 67.6288 | 0.02 U | 0.01 U | 0.022 U | 0.0101 | 0.0228 | 0.005 U | |
| 4086 | 11-MAY-89 | 0.0329 J | 0.05 U | .001 U | 0.0621 J | 0.002 U | 0.005 U | 82.9747 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 4086 | 13-DEC-89 | .0364 | .5 U | .002 U | .0598 | .002 U | .004 U | 77.2 | 1.0 U | .02 U | .02 U | .02 U | .0845 | .0032 | .051 |
| 4086 | 20-SEP-90 | 0.0249 B | 0.0138 B | 0.002 U | 0.0616 B | 0.001 U | 0.002 UN | 76 | 0.092 U | 0.0065 B | 0.003 U | 0.002 UE | 0.014 U | 0.001 | 0.05 B |
| 4086 | 28-NOV-90 | 0.0434 B | 0.0189 B | 0.002 U | 0.0589 B | 0.001 U | 0.002 U | 77.2 | 0.076 U | 0.0092 B | 0.003 U | 0.0028 B | 0.014 U | 0.001 U | 0.0383 B |
| 4086 | 11-JAN-91 | 0.046 B | 0.02 B | 0.002 U | 0.0588 B | 0.001 U | 0.002 U | 71.7 | 0.076 U | 0.0144 | 0.003 U | 0.0041 B | 0.0102 B | 0.001 U | 0.0382 B |
| 4086 | 16-APR-91 | 0.104 B | 0.0111 B | 0.002 U | 0.0648 B | 0.001 U | 0.002 U | 76.1 | 0.112 U | 0.0053 B | 0.003 U | 0.002 U | 0.0801 B | 0.001 U | 0.0642 B |
| 4086 | 06-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0089 | 105 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.05 U | 0.001 B | 0.0587 B |
| 4186 | __-SEP-86 | 0.1 U | 0.05 U | 0.002 U | 0.1 U | 0.005 U | 0.005 U | 96.9 | 0.15 U | 0.01 U | 0.05 U | 0.02 U | 0.075 U | 0.01 U | |
| 4186 | 06-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1802 | 0.005 U | 0.005 U | 130.3624 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.005 U | |
| 4186 | 01-JUN-87 | 0.029 U | 0.06 U | 0.01 U | 0.1372 | 0.005 U | 0.005 U | 41.9511 | 0.2 U | 0.01 U | 0.022 U | 0.0077 | 0.5796 | 0.005 U | |
| 4186 | 21-JUL-87 | 0.0397 | 0.02 U | 0.005 U | 0.1832 | 0.005 U | 0.001 U | 111.9865 | 0.02 U | 0.01 U | 0.022 U | 0.0112 | 0.0112 | 0.005 U | |
| 4186 | 23-OCT-87 | 0.0679 | 0.006 J | 0.005 U | 0.2023 | 0.004 J | 0.001 U | 105.3990 | 0.02 U | 0.0123 | 0.022 U | 0.0103 | 0.0789 | 0.005 U | 0.01 J |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4086 | 11-MAR-88 | 17.6838 | 0.0432 | 0.0002 U | 0.0256 | 0.037 U | 5.3 | 0.004 J | 0.0291 | 99.9352 | 0.8327 | 0.01 U | | 0.024 U | 0.0269 |
| 4086 | 12-MAY-88 | 18.657 | 0.0125 | 0.0002 U | 0.022 U | 0.0378 | 3.8 | 0.005 U | 0.0076 U | 90.0279 | 0.7155 | 0.01 U | | 0.036 U | 0.038 |
| 4086 | 11-MAY-89 | 18.616 | 0.0052 J | .0002 U | 0.027 U | 0.0324 J | 5.21 | .22 J | 0.004 U | 110.4148 | 0.8904 | .001 U | | 0.034 U | 0.008 U |
| 4086 | 13-DEC-89 | 17.1 | .0157 | .0002 U | .5 U | .02 U | 3.8 | .002 U | .03 U | 102 | .789 | .003 U | 1.0 U | .01 U | .0207 |
| 4086 | 20-SEP-90 | 18 | 0.002 B | 0.0002 U | 0.0066 B | 0.004 U | 3.64 B | 0.003 B | 0.003 U | 100 | 0.77 | 0.002 | 0.0225 B | 0.0036 B | 0.0207 |
| 4086 | 28-NOV-90 | 17.7 | 0.0013 B | 0.0002 U | 0.0072 B | 0.004 U | 3.49 BE | 0.004 B | 0.003 U | 97 E | 0.785 | 0.002 U | 0.0116 B | 0.0054 B | 0.0292 |
| 4086 | 11-JAN-91 | 17.9 | 0.0025 B | 0.0002 U | 0.0081 B | 0.0059 B | 3.37 B | 0.006 S | 0.003 U | 91.3 | 0.755 | 0.003 U | 0.0307 B | 0.0074 B | 0.0246 |
| 4086 | 16-APR-91 | 17.5 | 0.001 U | 0.0002 U | 0.0031 B | 0.004 U | 3.96 BE | 0.002 | 0.0039 B | 110 | 0.809 | 0.001 B | 0.0286 B | 0.0047 B | 0.0349 |
| 4086 | 06-SEP-91 | 28.6 | 0.0072 B | 0.0002 U | 0.0105 B | 0.0578 | 2.05 B | 0.001 U | 0.0054 B | 45.2 | 0.887 | 0.001 U | 0.1 U | 0.01 U | 0.0206 |
| 4186 | __-SEP-86 | 15.6 | 0.854 | 0.0002 U | 0.1 U | 0.04 U | 3.72 | 0.002 U | 0.01 U | 51.3 | 0.42 | 0.01 U | | 0.025 U | 0.005 U |
| 4186 | 06-MAY-87 | 17.7762 | 0.229 | 0.0002 U | 0.022 U | 0.037 U | 3 | 0.005 U | 0.0076 U | 25.9055 | 0.6754 | 0.01 U | | 0.024 U | 0.02 U |
| 4186 | 01-JUN-87 | 16.0342 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 8.2 | 0.005 U | 0.0076 U | 18.0695 | 0.5429 | 0.01 U | | 0.024 U | 0.02 U |
| 4186 | 21-JUL-87 | 16.1562 | 0.0754 | 0.0002 U | 0.022 U | 0.0613 | 3.1 | 0.005 U | 0.0076 U | 18.2521 | 0.5832 | 0.01 U | | 0.0366 | 0.02 U |
| 4186 | 23-OCT-87 | 15.9402 | 0.0186 | 0.0002 U | 0.022 U | 0.0754 | 2.1 | 0.005 U | 0.0076 U | 19.4115 | 0.5712 | 0.01 U | | 0.024 U | 0.0786 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 11-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.1973 | 0.005 U | 0.001 | 104.4861 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0107 | 0.005 U | 0.1 U |
| 4186 | 05-MAY-88 | 0.0516 | 0.034 U | 0.005 U | 0.1985 | 0.0027 | 0.005 U | 115.0324 | 0.02 U | 0.01 U | 0.022 U | 0.0211 | 0.0284 | 0.005 U | |
| 4186 | 22-NOV-88 | 0.0692 | 0.0434 | 0.005 U | 0.2334 | 0.001 U | 0.005 U | 129.1391 | 0.02 U | 0.011 | 0.022 U | 0.0063 U | 0.0551 | 0.005 U | |
| 4186 | 20-FEB-89 | 0.0776 J | 0.05 U | 0.001 U | 0.2418 | 0.002 U | 0.005 U | 126.3723 | 0.005 U | 0.0126 | 0.029 U | 0.0131 J | 0.1968 | .0026 J | |
| 4186 | 11-MAY-89 | 0.049 J | 0.05 U | .001 U | 0.2493 | 0.002 U | 0.005 U | 125.1505 | .2 U | 0.009 U | 0.029 U | 0.004 U | 0.035 U | .001 U | |
| 4186 | 20-NOV-90 | 0.02 U | 0.022 U | 0.001 U | 0.219 | 0.001 U | 0.005 U | 121 | 0.5 U | 0.004 U | 0.004 U | 0.005 U | 0.003 U | 0.001 U | 0.0101 B |
| 4186 | 10-JAN-91 | 0.0514 B | 0.0234 B | 0.002 U | 0.172 B | 0.001 U | 0.002 U | 92 | 0.076 U | 0.0176 | 0.0045 B | 0.0042 B | 0.0614 B | 0.001 U | 0.0054 B |
| 4286 | __-SEP-86 | 0.1 U | 0.05 U | 0.002 U | 0.15 | 0.005 | 0.005 U | 122 | 0.15 U | 0.01 U | 0.05 U | 0.02 U | 0.075 U | 0.01 U | |
| 4286 | 12-MAR-87 | 2.6303 | 0.06 U | 0.01 U | 0.3254 | 0.005 U | 0.005 U | 164.5958 | 0.2 U | 0.01 U | 0.022 U | 0.007 | 2.1119 | 0.005 U | |
| 4286 | 26-MAY-87 | 0.029 U | 0.06 U | 0.01 U | 0.1893 | 0.005 U | 0.005 U | 145.0887 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0109 | 0.013 | |
| 4286 | 24-JUL-87 | 0.5356 | 0.02 U | 0.005 U | 0.2371 | 0.005 U | 0.0004 J | 130.8069 | 0.02 U | 0.01 U | 0.022 U | 0.0141 | 0.3656 | 0.005 | |
| 4286 | 15-OCT-87 | 0.0385 | 0.02 U | 0.005 U | 0.2195 | 0.001 J | 0.001 U | 123.4732 | 0.02 U | 0.0201 | 0.022 U | 0.0063 U | 0.0384 | 0.005 U | 0.01 J |
| 4286 | 04-MAR-88 | 0.029 U | 0.02 U | 0.005 U | 0.2023 | 0.005 U | 0.001 U | 126.4858 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0195 | 0.005 U | 0.1 U |
| 4286 | 05-MAY-88 | 0.0503 | 0.034 U | 0.005 U | 0.1849 | 0.001 U | 0.005 U | 121.5535 | 0.02 U | 0.01 U | 0.022 U | 0.0593 | 0.0275 | 0.005 U | |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4186 | 11-MAR-88 | 15.6787 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.9 | 0.005 U | 0.0076 U | 16.3165 | 0.5817 | 0.01 U | | 0.024 U | 0.02 U |
| 4186 | 05-MAY-88 | 17.1654 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.9 | 0.005 U | 0.0295 | 16.6979 | 0.5893 | 0.01 U | | 0.036 U | 0.0377 |
| 4186 | 22-NOV-88 | 16.8428 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 1.2 | 0.005 U | 0.0076 U | 19.1148 | 0.6698 | 0.01 U | | 0.036 U | 0.0555 |
| 4186 | 20-FEB-89 | 17.7895 | 0.0055 J | 0.0002 U | 0.027 U | 0.022 U | 1.85 J | 0.001 U | 0.004 U | 21.4211 | 1.6596 | 0.001 U | | 0.034 U | 0.0565 |
| 4186 | 11-MAY-89 | 17.0629 | 0.002 U | .0002 U | 0.027 U | 0.0325 J | 2.19 J | .001 U | 0.004 U | 21.3037 | 0.6416 | .001 U | | 0.034 U | 0.008 U |
| 4186 | 20-NOV-90 | 17.9 | 0.0015 B | 0.0002 U | 0.009 U | 0.0119 B | 0.821 B | 0.002 U | 0.0031 B | 24.9 | 0.628 | 0.002 U | 0.0586 B | 0.0047 B | 0.0025 B |
| 4186 | 10-JAN-91 | 14.8 | 0.0174 | 0.0002 U | 0.0058 B | 0.0572 | 1.39 B | 0.002 UW | 0.0034 B | 19.8 | 0.516 | 0.003 U | 0.0288 B | 0.008 B | 0.0137 B |
| 4286 | __-SEP-86 | 11.9 | 0.578 | 0.0002 U | 0.1 U | 0.04 U | 1.73 | 0.002 U | 0.01 U | 13.4 | 0.308 | 0.01 U | | 0.025 U | 0.005 U |
| 4286 | 12-MAR-87 | 14.9256 | 0.3424 | 0.0002 U | 0.022 U | 0.1005 | 5 U | 0.005 U | 0.0076 U | 17.9722 | 0.5742 | 0.01 U | | 0.24 U | 0.03 |
| 4286 | 26-MAY-87 | 13.0698 | 0.0391 | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 14.4499 | 0.5034 U | 0.01 U | | 0.024 U | 0.02 U |
| 4286 | 24-JUL-87 | 10.9716 | 0.0203 | 0.013 | 0.022 U | 0.0375 | 1.2 | 0.005 U | 0.0076 U | 15.3966 | 0.4566 | 0.01 U | | 0.024 U | 0.02 U |
| 4286 | 15-OCT-87 | 10.7988 | 0.0089 | 0.0004 | 0.022 U | 0.037 U | 1.4 | 0.005 U | 0.0076 U | 15.3125 | 0.4461 | 0.01 U | | 0.0393 | 0.0257 |
| 4286 | 04-MAR-88 | 10.8989 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.8 | 0.005 U | 0.0076 U | 14.7025 | 0.4405 | 0.01 U | | 0.024 U | 0.02 U |
| 4286 | 05-MAY-88 | 10.4139 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.9 | 0.005 U | 0.128 | 14.7554 | 0.4071 | 0.01 U | | 0.036 U | 0.0559 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 25-AUG-88 | 0.029 U | 0.034 U | 0.005 U | 0.2003 | 0.001 U | 0.005 U | 114.3637 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0166 | 0.005 U | |
| 4286 | 17-NOV-88 | 0.029 U | 0.034 U | 0.005 U | 0.2084 | 0.001 U | 0.005 U | 138.1292 | 0.02 U | 0.01 U | 0.022 U | 0.0063 U | 0.0198 | 0.005 U | |
| 4286 | 20-FEB-89 | 0.1024 J | 0.05 U | 0.001 U | 0.2517 | 0.002 U | 0.005 U | 137.1833 | 0.005 U | 0.0149 | 0.029 U | 0.004 U | 0.2002 | 0.001 U | |
| 4286 | 09-MAY-89 | 0.0259 B | 0.05 U | .001 U | 0.2153 | 0.002 U | 0.005 U | 152.5537 | .2 U | 0.009 U | 0.029 U | 0.0533 | 0.035 U | .001 U | |
| 4286 | 06-DEC-89 | .2 U | .06 U | .01 U | .227 | .005 U | .005 U | 121 | 2.5 U | .01 U | .05 U | .025 U | .1 U | .003 U | .1 U |
| 4286 | 11-JUN-90 | 0.37 | 0.06 U | 0.01 U | 0.203 | 0.005 U | 0.005 U | 128 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |
| 4286 | 24-AUG-90 | 0.0399 B | 0.01 U | 0.001 U | 0.194 B | 0.001 U | 0.002 U | 123 | 0.147 UN | 0.0093 B | 0.004 U | 0.003 U | 0.013 UN | 0.001 UN | 0.0075 B |
| 4286 | 16-NOV-90 | 0.0653 B | 0.0117 B | 0.002 U | 0.219 | 0.001 U | 0.002 U | 144 | 0.2 B | 0.016 | 0.003 U | 0.0077 B | 0.0228 B | 0.001 U | 0.006 B |
| 4286 | 17-MAY-91 | 0.0495 B | 0.0199 B | 0.002 U | 0.26 | 0.001 U | 0.002 U | 161 | 0.112 U | 0.0036 B | 0.003 U | 0.011 U | 0.0093 B | 0.001 U | 0.0048 B |
| 6786 | __-NOV-86 | 0.1 U | 0.055 U | 0.01 U | 0.243 | 0.005 U | 0.005 U | 49.8 | 0.15 U | 0.01 U | 0.02 U | 0.02 U | 0.075 U | 0.005 U | |
| 6786 | 11-MAY-87 | 0.0434 | 0.06 U | 0.01 U | 0.0909 | 0.005 U | 0.005 U | 88.8143 | 0.2 U | 0.01 U | 0.022 U | 0.0091 | 0.0223 | 0.005 U | |
| 6786 | 01-JUN-87 | 0.029 U | 0.06 U | 0.01 U | 0.1412 | 0.005 U | 0.005 U | 85.1284 | 0.2 U | 0.01 U | 0.022 U | 0.0063 U | 0.0069 U | 0.022 | |
| 6786 | 21-JUL-87 | 0.0379 | 0.02 U | 0.005 U | 0.0824 | 0.005 U | 0.001 U | 84.8549 | 0.02 U | 0.01 U | 0.022 U | 0.0175 | 0.0531 | 0.005 U | |
| 6786 | 12-JUN-90 | 0.273 | 0.06 U | 0.01 U | 0.2 U | 0.005 U | 0.005 U | 64.7 | 0.1 U | 0.01 U | 0.05 U | 0.025 U | 0.1 U | 0.003 U | 0.1 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4286 | 25-AUG-88 | 10.2137 | 0.0133 | 0.0002 U | 0.022 U | 0.0377 | 1.2 | 0.005 U | 0.0076 U | 17.863 | 0.4498 | 0.01 U | | 0.036 U | 0.0283 |
| 4286 | 17-NOV-88 | 11.7878 | 0.0143 | 0.0002 U | 0.022 U | 0.0721 | 0.7 | 0.005 U | 0.0076 U | 18.1312 | 0.512 | 0.01 U | | 0.036 U | 0.02 U |
| 4286 | 20-FEB-89 | 12.7926 | 0.2628 | 0.0002 U | 0.0605 | 0.6822 | 1.15 J | 0.001 U | 0.004 U | 16.9611 | 0.5138 | 0.001 U | | 0.034 U | 0.0384 |
| 4286 | 09-MAY-89 | 13.4631 | 0.0052 J | .0002 U | 0.027 U | 0.022 U | 1.52 J | .001 U | 0.004 U | 17.6872 | 0.5487 | .001 U | | 0.034 U | 0.0209 |
| 4286 | 06-DEC-89 | 11.7 | .015 U | .0002 | .1 U | .04 U | 5.0 U | .005 U | .01 U | 15 | .532 | .01 U | .1 U | .05 U | .02 U |
| 4286 | 11-JUN-90 | 11.5 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 15.4 | 0.457 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |
| 4286 | 24-AUG-90 | 10.9 | 0.0014 B | 0.0002 U | 0.0029 B | 0.004 U | 1.0 B | 0.001 UW | 0.0021 B | 15.7 | 0.439 | 0.003 UN | 0.0272 B | 0.0076 B | 0.0195 B |
| 4286 | 16-NOV-90 | 12.7 | 0.0018 B | 0.0002 U | 0.0174 B | 0.0113 B | 1.23 B | 0.001 U | 0.0047 B | 15.7 | 0.481 | 0.002 | 0.02 B | 0.0076 B | 0.011 B |
| 4286 | 17-MAY-91 | 14.3 | 0.0051 B | 0.0002 U | 0.0032 B | 0.0284 B | 1.2 B | 0.001 | 0.002 U | 17.7 | 0.562 | 0.001 UW | 0.0115 B | 0.002 U | 0.0082 B |
| 6786 | __-NOV-86 | 23.2 | 0.161 | 0.0002 U | 0.1 U | 0.02 U | 1.0 U | 0.005 U | 0.016 | 63.4 | 0.719 | 0.01 U | | 0.025 U | 0.03 U |
| 6786 | 11-MAY-87 | 38.092 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 91.2838 | 1.2075 | 0.01 U | | 0.024 U | 0.02 U |
| 6786 | 01-JUN-87 | 33.2019 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 5 U | 0.005 U | 0.0076 U | 80.9195 | 1.0895 | 0.01 U | | 0.024 U | 0.0677 |
| 6786 | 21-JUL-87 | 32.642 | 0.0051 U | 0.0002 U | 0.022 U | 0.037 U | 0.8 | 0.003 J | 0.0076 U | 91.2942 | 1.0861 | 0.01 U | | 0.0359 | 0.02 U |
| 6786 | 12-JUN-90 | 27.1 | 0.015 U | 0.0002 U | 0.1 U | 0.04 U | 5.0 U | 0.005 U | 0.01 U | 75.6 | 0.893 | 0.01 U | 0.1 U | 0.05 U | 0.02 U |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6786 | 22-AUG-90 | 0.0178 B | 0.01 U | 0.002 U | 0.0953 B | 0.001 U | 0.002 U | 66.8 | 0.147 U | 0.006 U | 0.004 U | 0.0055 B | 0.013 U | 0.001 U | 0.0362 B |
| B218789 | 13-SEP-90 | 0.0708 | 0.0216 B | 0.002 U | 0.127 B | 0.001 U | 0.002 U | 99.5 | 0.092 U | 0.0207 | 0.003 U | 0.0142 B | 0.0258 | 0.0011 B | 0.01 B |
| B218789 | 22-OCT-90 | 0.0649 B | 0.007 U | 0.002 U | 0.134 BE | 0.001 U | 0.002 U | 104 | 0.076 U | 0.0192 | 0.003 U | 0.0029 B | 0.0314 | 0.001 UW | 0.02 B |
| B218789 | 08-MAR-91 | 0.0682 B | 0.008 U | 0.002 U | 0.108 B | 0.001 U | 0.002 U | 111 | 0.076 U | 0.005 U | 0.003 U | 0.002 U | 0.0462 B | 0.001 UW | 0.0053 B |
| B218789 | 21-MAY-91 | 0.0566 B | 0.0082 B | 0.002 U | 0.131 B | 0.001 U | 0.002 U | 102 | 0.112 U | 0.0032 B | 0.003 U | 0.011 U | 0.0142 B | 0.001 U | 0.0064 B |
| B218789 | 20-AUG-91 | 0.0765 B | 0.008 U | 0.002 U | 0.128 BE | 0.001 U | 0.001 U | 99.8 | 0.07 B | 0.0058 B | 0.002 U | 0.003 U | 0.083 B | 0.001 U | 0.0058 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6786 | 22-AUG-90 | 26.9 | 0.0071 B | 0.0002 U | 0.0094 B | 0.0493 | 0.716 B | 0.002 U | 0.002 U | 82.2 | 0.904 | 0.003 | 0.023 B | 0.0071 B | 0.0028 |
| B218789 | 13-SEP-90 | 9.25 | 0.0097 B | 0.0002 U | 0.0063 B | 0.0067 B | 1.16 B | 0.002 U | 0.0047 B | 18.7 | 0.36 | 0.001 UW | 0.0179 B | 0.0143 B | 0.0075 B |
| B218789 | 22-OCT-90 | 9.02 | 0.0016 B | 0.0002 U | 0.0087 B | 0.0063 B | 1.06 B | 0.002 U | 0.0089 B | 17.8 | 0.367 | 0.002 | 0.0412 B | 0.0105 B | 0.003 B |
| B218789 | 08-MAR-91 | 9.84 | 0.0049 B | 0.0002 | 0.003 U | 0.004 U | 1.18 BE | 0.02 UWN | 0.003 U | 15.7 | 0.389 | 0.001 UW | 0.0391 B | 0.003 B | 0.0091 B |
| B218789 | 21-MAY-91 | 9.07 | 0.001 U | 0.0002 U | 0.002 U | 0.003 U | 0.943 B | 0.001 B | 0.002 U | 19 | 0.368 | 0.001 U | 0.01 U | 0.0029 B | 0.0096 B |
| B218789 | 20-AUG-91 | 8.83 | 0.001 U | 0.0002 U | 0.003 U | 0.003 U | 0.914 B | 0.001 U | 0.002 U | 19 | 0.381 | 0.002 U | 0.014 U | 0.0066 B | 0.0052 B |

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*=Duplicate analysis not within control limits
U=Analyzed but not detected
J=Present below detection limit
E=Estimated Value
A=Acceptable with qualifications
V=Valid and acceptable
R=Rejected

# GROUND-WATER SAMPLING RESULTS
# TOTAL METALS

Ground Water Total Metal Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 20-NOV-90 | 0.03 B | 0.022 U | 0.001 U | 0.291 | 0.001 U | 0.005 U | 72.7 | 0.5 U | 0.004 U | 0.004 U | 0.0072 B | 0.115 | 0.0014 B | 0.0426 B |
| 0171 | 10-SEP-91 | 0.1 U | 0.05 U | 0.002 U | 0.286 | 0.002 U | 0.0051 | 78.2 | 0.5 U | 0.005 U | 0.01 U | 0.01 U | 0.975 | 0.0017 B | 0.05 U |
| 0271 | 10-SEP-91 | 18.4 | 0.05 U | 0.002 U | 0.215 | 0.0137 | 0.003 U | 286 | 0.5 U | 0.0317 | 0.01 U | 0.0351 | 236 | 0.008 | 0.154 |
| 1187 | 18-SEP-90 | 0.06 U | 0.03 U | 0.002 UW | 0.091 B | 0.002 U | 0.0046 B | 111 | 0.002 UW | 0.0215 | 0.01 U | 0.0114 B | 0.278 | 0.002 U | 0.0657 |
| 1187 | 06-SEP-91 | 0.821 | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0073 | 120 | 0.5 U | 0.081 | 0.01 U | 0.01 U | 1.35 | | 0.0611 B |
| 1287 | 09-SEP-91 | 0.836 | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0046 B | 38.2 | 0.5 U | 0.0182 | 0.01 U | 0.01 U | 1.44 | 0.0033 | 0.074 B |
| 1487 | 05-SEP-91 | 0.354 | 0.05 U | 0.0022 B | 0.1 U | 0.002 U | 0.003 U | 52 | 0.5 U | 0.0099 B | 0.01 U | 0.0111 B | 0.359 | | 0.119 |
| 1587 | 18-SEP-90 | 0.0894 B | 0.03 U | 0.002 U | 0.175 B | 0.002 U | 0.002 U | 123 | 0.002 UW | 0.0169 | 0.01 U | 0.01 U | 0.0368 B | 0.002 U | 0.05 U |
| 1687 | 18-SEP-90 | 0.06 U | 0.03 U | 0.002 U | 0.0743 B | 0.002 U | 0.002 U | 33.1 | 0.002 U | 0.01 U | 0.01 U | 0.01 U | 0.01 U | 0.002 UW | 0.05 U |
| 1687 | 05-SEP-91 | 1.07 | 0.05 U | 0.0026 B | 0.1 U | 0.002 U | 0.003 U | 34.4 | 0.5 U | 0.0276 | 0.01 U | 0.0121 B | 1.17 | 0.0026 B | 0.05 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0171 | 20-NOV-90 | 14.8 | 0.1 | 0.0002 U | 0.009 U | 0.009 U | 1.1 B | 0.002 U | 0.003 U | 16.9 | 0.429 | 0.0035 B | 0.03 U | 0.0054 B | 0.0091 B |
| 0171 | 10-SEP-91 | 15.1 | 0.0962 | 0.0002 U | 0.01 U | 0.01 U | 2.0 U | 0.001 U | 0.005 U | 18.7 | 0.516 | 0.001 U | 0.1 U | 0.01 U | 0.0311 |
| 0271 | 10-SEP-91 | 82 | 1.24 | 0.0002 U | 0.0107 B | 0.051 | 6.41 | 0.003 B | 0.005 U | 290 | 2.16 | 0.001 U | 0.1 U | 0.0494 B | 0.142 |
| 1187 | 18-SEP-90 | 31.4 | 0.0784 | 0.0002 U | 0.0113 | 0.269 | 2.88 B | 0.014 S | 0.0129 | 47.2 | 0.952 | 0.002 U | 0.05 U | 0.01 U | 0.005 U |
| 1187 | 06-SEP-91 | 30.5 | 0.0657 | 0.0002 U | 0.0134 B | 0.0977 | 2.53 B | 0.0039 | 0.005 U | 45.7 | 0.1 U | 0.001 U | 8.99 | 0.0103 B | 0.0437 |
| 1287 | 09-SEP-91 | 8.32 | 0.0332 | 0.0002 U | 0.01 U | 0.0206 B | 2.0 U | 0.0019 B | 0.005 U | 148 | 0.279 | 0.001 U | 0.1 U | 0.01 U | 0.0215 |
| 1487 | 05-SEP-91 | 19.1 | 0.0066 B | 0.0002 U | 0.01 U | 0.01 U | 2.93 B | 0.0021 B | 0.0059 B | 83.6 | 0.1 U | 0.001 U | 8.77 | 0.0133 B | 0.0206 |
| 1587 | 18-SEP-90 | 10.8 | 0.0062 B | 0.0002 U | 0.01 U | 0.02 U | 0.97 B | 0.002 UW | 0.0125 | 8.19 | 0.447 | 0.002 U | 0.05 U | 0.01 U | 0.005 U |
| 1687 | 18-SEP-90 | 7.26 | 0.0108 B | 0.0002 U | 0.0196 | 0.02 U | 2.94 B | 0.002 UW | 0.01 U* | 79.2 | 0.38 | 0.002 U | 0.05 U | 0.01 U | 0.0147 B |
| 1687 | 05-SEP-91 | 7.61 | 0.0341 | 0.0002 U | 0.0109 B | 0.0213 B | 2.79 B | 0.001 B | 0.005 U | 76.1 | 0.388 | 0.001 U | 0.1 U | 0.01 U | 0.0309 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Total Metal Results
Mound Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 05-MAY-90 | | | | | | | | 1.0 U | | | | | | |
| 0174 | 15-AUG-91 | 0.0673 | 0.0432 | 0.002 U | 0.165 B | 0.001 U | 0.0023 B | 87.4 | 0.08 B | 0.0151 | 0.0037 B | 0.003 U | 0.0371 B | 0.001 U | 0.0064 B |
| 1787 | 09-MAR-91 | 0.104 B | 0.03 U | 0.002 U | 0.137 B | 0.002 U | 0.0036 B | 116 | 0.002 | 0.0201 | 0.01 U | 0.02 B | 0.0332 B | 0.002 UW | 0.05 U |
| 1787 | 19-AUG-91 | 1.24 * | 0.045 BN | 0.002 U | 0.145 B | 0.001 U | 0.0024 B | 109 | 0.032 U | 0.051 | 0.0064 B | 0.0082 B | 1.68 | 0.002 B | 0.0064 B |
| 2387 | 19-AUG-91 | 2.55 * | 0.0514 | 0.002 U | 0.198 B | 0.001 U | 0.0024 B | 113 | 0.032 U | 0.0482 | 0.0048 B | 0.0057 B | 3.54 | 0.0045 | 0.0063 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0174 | 05-MAY-90 | | | | | | | | | | | | | | |
| 0174 | 15-AUG-91 | 12.7 | 0.0122 B | 0.0002 U | 0.0032 B | 0.0062 B | 0.772 B | 0.002 B | 0.0026 B | 7.6 | 0.447 N | 0.002 U | 0.0279 | 0.0063 B | 0.0441 |
| 1787 | 09-MAR-91 | 11.1 | 0.0064 B | 0.0002 U | 0.01 U | 0.0246 B | 1.69 B | 0.002 U | 0.025 | 18 | 0.475 | 0.002 UW | 0.2 U | 0.011 B | 0.0188 B |
| 1787 | 19-AUG-91 | 9.61 | 0.0995 | 0.0002 U | 0.0087 B | 0.0314 B | 2.15 B | 0.001 U | 0.0045 B | 13.5 | 0.407 N | 0.002 U | 0.0269 | 0.0119 B | 0.0294 |
| 2387 | 19-AUG-91 | 13 | 0.0554 | 0.0002 U | 0.0068 B | 0.0303 B | 1.78 B | 0.001 B | 0.0037 B | 9.52 | 0.492 N | 0.002 U | 0.0251 | 0.0124 B | 0.0296 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Total Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 22-AUG-91 | 1.29 * | 0.028 B | 0.002 UN | 0.216 E | 0.001 U | 0.0019 B | 113 | 0.032 U | 0.0184 | 0.0045 B | 0.0186 B | 2.59 * | 0.0066 | 0.0074 B |
| 2274 | 20-SEP-90 | 0.06 U | 0.03 U | 0.002 UW | 0.249 | 0.002 U | 0.0035 B | 105 | 0.002 UW | 0.014 | 0.01 U | 0.01 U | 0.0275 B | 0.0101 | 0.05 U |
| 2274 | 09-SEP-91 | 5.39 | 0.05 U | 0.0027 B | 0.317 | 0.002 U | 0.0051 | 105 | 0.5 U | 0.0189 | 0.01 U | 0.01 U | 5.22 | 0.0097 | 0.05 U |
| 2587 | 10-SEP-91 | 7.37 | 0.05 U | 0.0051 B | 0.175 B | 0.002 U | 0.003 U | 141 | 0.5 U | 0.0267 | 0.01 U | 0.0104 B | 8.85 | 0.0078 | 0.05 U |
| 3187 | 10-SEP-91 | 0.981 | 0.05 U | 0.0061 B | 0.1 U | 0.002 U | 0.003 U | 23.8 | 0.5 U | 0.0561 | 0.01 U | 0.0158 B | 1.19 | 0.0033 | 0.05 U |
| 3287 | 19-SEP-90 | 0.06 U | 0.03 U | 0.002 U | 0.256 | 0.002 U | 0.0025 B | 115 | 0.002 UW | 0.0143 | 0.01 U | 0.0118 B | 0.011 B | 0.002 U | 0.05 U |
| 3487 | 18-SEP-90 | 0.06 U | 0.03 U | 0.002 U | 0.0568 B | 0.002 U | 0.002 U | 18.5 | 0.002 U | 0.01 U | 0.01 U | 0.01 U | 0.0148 B | 0.002 U | 0.05 U |
| 3487 | 05-SEP-91 | 16.6 | 0.05 U | 0.0032 B | 0.191 B | 0.0023 B | 0.003 U | 31.9 | 0.5 U | 0.0381 | 0.01 U | 0.0276 | 11.6 | 0.015 | 0.05 U |
| 3687 | 08-MAR-91 | 0.0871 B | 0.03 U | 0.002 UW | 0.21 | 0.002 U | 0.0031 B | 135 | 0.002 | 0.018 | 0.01 U | 0.0127 B | 0.0131 B | 0.002 UW | 0.05 U |
| 3687 | 23-AUG-91 | 1.79 * | 0.0276 B | 0.002 UN | 0.237 E | 0.001 U | 0.0042 B | 127 | 0.032 U | 0.0362 | 0.0054 B | 0.019 B | 2.84 * | 0.0049 | 0.0062 B |
| 3986 | 16-AUG-91 | 2.98 * | 0.0451 | 0.002 U | 0.22 | 0.001 U | 0.0025 B | 96.2 | 0.06 B | 0.0284 | 0.0069 B | 0.0048 B | 3.45 | 0.0032 | 0.0087 B |
| 4086 | 06-SEP-91 | 0.514 | 0.05 U | 0.002 U | 0.1 U | 0.002 U | 0.0054 | 79.7 | 0.5 U | 0.0572 | 0.01 U | 0.01 U | 0.71 | 0.002 B | 0.05 U |
| 4186 | 17-SEP-90 | 0.06 U | 0.03 U | 0.002 U | 0.22 | 0.002 U | 0.002 B | 119 | 0.002 UW | 0.0162 | 0.01 U | 0.014 B | 0.0104 B | 0.002 UW | 0.05 U |
| 4286 | 08-MAR-91 | 0.099 B | 0.03 U | 0.002 UW | 0.23 | 0.002 U | 0.004 B | 150 | 0.002 | 0.0219 | 0.01 U | 0.0141 B | 0.0165 B | 0.002 UW | 0.05 U |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0374 | 22-AUG-91 | 10.9 | 0.0667 | 0.0002 U | 0.0042 B | 0.0086 B | 1.31 B | 0.002 B | 0.0036 B | 21.8 | 0.342 | 0.002 U | 0.0218 B | 0.0113 B | 0.0398 |
| 2274 | 20-SEP-90 | 20.7 | 0.0108 B | 0.0002 U | 0.01 U | 0.02 U | 3.24 B | 0.002 UW | 0.01 U* | 30.7 | 0.941 | 0.002 U | 0.05 U | 0.01 U | 0.0212 |
| 2274 | 09-SEP-91 | 21.4 | 0.333 | 0.0002 U | 0.01 U | 0.0166 B | 4.19 B | 0.0012 B | 0.005 U | 35.7 | 0.991 | 0.001 U | 0.1 U | 0.0202 B | 0.049 |
| 2587 | 10-SEP-91 | 10.4 | 0.118 | 0.0002 U | 0.01 U | 0.0153 B | 2.41 B | 0.001 U | 0.005 U | 10.8 | 0.35 | 0.001 U | 0.1 U | 0.0298 B | 0.0574 |
| 3187 | 10-SEP-91 | 4.87 B | 0.0236 | 0.0002 U | 0.0123 B | 0.0412 | 2.67 B | 0.001 U | 0.005 U | 82.3 | 0.28 | 0.001 U | 0.1 U | 0.01 U | 0.0864 |
| 3287 | 19-SEP-90 | 15.1 | 0.0041 B | 0.0002 U | 0.01 U | 0.02 U | 1.74 B | 0.002 UW | 0.0113 | 24.7 | 0.537 | 0.002 U | 0.05 U | 0.01 U | 0.0077 B |
| 3487 | 18-SEP-90 | 5.65 | 0.0077 B | 0.0002 | 0.01 U | 0.02 U | 2.9 B | 0.002 UW | 0.01 U | 78.6 | 0.268 | 0.002 UW | 0.05 U | 0.01 U | 0.0054 B |
| 3487 | 05-SEP-91 | 9.85 | 0.111 | 0.0002 U | 0.01 U | 0.035 B | 5.04 | 0.0015 B | 0.005 U | 76.2 | 0.415 | 0.001 U | 0.1 U | 0.0505 | 0.135 |
| 3687 | 08-MAR-91 | 10.9 | 0.0322 | 0.0002 U | 0.01 U | 0.0221 B | 0.903 B | 0.002 UW | 0.0243 | 9.98 | 0.391 | 0.002 UW | 0.2 U | 0.01 U | 0.0117 B |
| 3687 | 23-AUG-91 | 9.88 | 0.0461 | 0.0002 U | 0.0046 B | 0.0247 B | 1.25 B | 0.002 U | 0.0038 B | 9.41 | 0.326 | 0.002 U | 0.0299 B | 0.0138 B | 0.0293 |
| 3986 | 16-AUG-91 | 12 | 0.07 | 0.0002 U | 0.007 B | 0.0184 B | 2.04 B | 0.001 B | 0.0036 B | 17.3 | 0.489 N | 0.002 U | 0.0232 | 0.0151 B | 0.0374 |
| 4086 | 06-SEP-91 | 17.9 | 0.0209 | 0.0002 U | 0.01 U | 0.0438 | 3.59 B | 0.01 U | 0.005 U | 103 | 0.819 | 0.001 U | 0.1 U | 0.01 U | 0.0426 |
| 4186 | 17-SEP-90 | 17.4 | 0.0056 B | 0.0002 U | 0.01 U | 0.02 U | 1.41 B | 0.002 UW | 0.0121 | 25.8 | 0.674 | 0.002 U | 0.05 U | 0.01 U | 0.005 U |
| 4286 | 08-MAR-91 | 13.5 | 0.0066 B | 0.0002 U | 0.01 U | 0.0318 B | 1.28 B | 0.002 UW | 0.0281 | 16.8 | 0.527 | 0.002 U | 0.2 U | 0.0128 B | 0.0092 B |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected J=Present below detection limit E=Estimated Value
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

Ground Water Total Metal Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Aluminum (Al) | Antimony (Al) | Arsenic (As) | Barium (Ba) | Beryllium (Be) | Cadmium (Cd) | Calcium (Ca) | Cesium (Cs) | Chromium (Cr) | Cobalt (Co) | Copper (Cu) | Iron (Fe) | Lead (Pb) | Lithium (Li) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 20-AUG-91 | 0.517 * | 0.0356 | 0.002 U | 0.125 B | 0.001 U | 0.0024 B | 98.7 | 0.032 U | 0.0174 | 0.0046 B | 0.003 U | 0.437 | 0.001 U | 0.0061 B |

| Well Number | Date Sampled | Magnesium (Mg) | Manganese (Mg) | Mercury (Hg) | Molybdenum (Mo) | Nickel (Ni) | Potassium (K) | Selenium (Se) | Silver (Ag) | Sodium (Na) | Strontium (Sr) | Thallium (Tl) | Tin (Sn) | Vanadium (V) | Zinc (Zn) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B218789 | 20-AUG-91 | 8.86 | 0.0102 B | 0.0002 U | 0.003 U | 0.0038 B | 1.17 B | 0.001 U | 0.0034 B | 18.4 | 0.346 N | 0.002 U | 0.0215 | 0.0107 B | 0.0091 B |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=Duplicate analysis not within control limits
U=Analyzed but not detected
J=Present below detection limit
E=Estimated Value
A=Acceptable with qualifications
V=Valid and acceptable
R=Rejected

# GROUND-WATER SAMPLING RESULTS
# INORGANIC COMPOUNDS

Ground Water Inorganic Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 320 | 17 | 19.9 | 22 | | | |
| 0171 | 09-MAR-87 | 311 | 21.1 | 7.30 | 24.0 | 203 | | |
| 0171 | 30-APR-87 | 276 | 21.5 | 4.40 | 18.0 | 212 | | |
| 0171 | 01-MAY-87 | 276 | 21.5 | 4.40 | 18.0 | 212 | | |
| 0171 | 21-MAY-87 | 319 | 18.9 | 6.4 | 19.0 | 211 | | |
| 0171 | 02-JUL-87 | 329 | 16 | 6.4 | 18.0 | 217 | | |
| 0171 | 14-OCT-87 | 292 | 20.7 | 3.76 | 12.0 | 215 | | |
| 0171 | 26-FEB-88 | 297 | 19.4 | 2.60 | 16.5 | 123 | | |
| 0171 | 19-APR-88 | 313 | 17.4 | 3.94 | 1.83 | 211 | | |
| 0171 | 26-JUL-88 | 289 J | 19.0 J | 5.22 J | 18.8 | 226 J | | |
| 0171 | 31-OCT-88 | 312 | 18.5 | 5.91 | 18.7 | 204 | | |
| 0171 | 02-FEB-89 | 332 | 19.8 | 5.23 | 18.6 | 203 | | |
| 0171 | 02-MAY-89 | 291 | 18.1 | 4.99 | 19.4 | 216 | | |
| 0171 | 08-AUG-89 | 350 | 19.1 | 5.79 | 19.9 | 216 | | |
| 0171 | 29-NOV-89 | 320 | 20 | 5.5 | 24 | 230 | 7.6 | |
| 0171 | 23-FEB-90 | 350 | 23 | 8.1 | 16 | 270 | 7.5 | |
| 0171 | 20-NOV-90 | 27 | 23 | 3.8 | | 220 | | |
| 0171 | 17-APR-91 | 310 | 26 | 4.6 | 25 | 240 | | 110 |
| 0171 | 10-SEP-91 | 376 | | | | | | 4 U |
| 0271 | __-AUG-86 | 1100 | 320 | 5.0 U | 97 | | | |
| 0271 | 11-MAR-87 | 710 | 244 | 5.40 | 134 | 139 | | |
| 0271 | 09-APR-87 | 733 | 164 | 4.70 | 150 | 144 | | |
| 0271 | 21-MAY-87 | 863 | 230 | 1.50 | 250 | 159 | | |
| 0271 | 02-JUL-87 | 956 | 269 | 5.6 | 165 | 158 | | |
| 0271 | 26-FEB-88 | 1247 | 363 | 1.93 | 278 | 81.0 | | |
| 0271 | 21-APR-88 | 1473 | 436 | 5.03 | 328 | 159 | | |
| 0271 | 26-JUL-88 | 1627 J | 573 J | 1.68 J | 44.3 | 162 J | | |
| 0271 | 08-AUG-89 | 1876 | 501 | 1.63 | 418 | 97.1 | | |
| 0271 | 30-NOV-89 | 1600 | 530 | 1.8 | 330 | 110 | 6.8 | |
| 0271 | 26-FEB-90 | 1300 | 210 | 0.10 | 260 | 120 | 5.9 | |
| 0271 | 21-NOV-90 | 2700 | 1100 | 1.0 | 250 | 140 | | 130 |
| 0271 | 19-APR-91 | 2000 | 930 | 0.3 | 240 | 4 | | 3100 |
| 0271 | 10-SEP-91 | 3600 | | | | | | 1310 |
| 1187 | 18-SEP-87 | 611 | 88.5 | 2.25 | 104 | 289 | | |
| 1187 | 18-FEB-88 | 556 | 92.4 | 1.60 | 60.0 | 280 | | |
| 1187 | 01-DEC-89 | 590 | 82 | 4.4 | 110 | 280 | 7.5 | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values
U=Analyzed but not detected J=Present below detection limit E=Estimated value
A=Acceptable with qualifications V=Valid R=Rejected

Ground Water Inorganic Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 1187 | 23-JAN-90 | 570 | 90 | 1.3 | 93 | 350 | 7.6 | |
| 1187 | 15-JUN-90 | 591 | 84.5 | 1.4 | 80.1 | 285 | | 20 |
| 1187 | 18-SEP-90 | 700 | 81.39 | 1.9200 | | 285.7 | | 4 |
| 1187 | 28-NOV-90 | 560 | 89 | 2.7 | 78 | 280 | | 4 U |
| 1187 | 15-JAN-91 | 570 | 79 | | 66 | 290 | | 8 |
| 1187 | 16-APR-91 | 540 | 86 | 2.3 | 85 | 290 | | 9 |
| 1187 | 06-SEP-91 | 673 | | | | | | 5.0 |
| 1287 | 02-SEP-87 | 654 | 60.5 | 1.30 | 108 | 368 | | |
| 1287 | 26-FEB-88 | 617 | 38.8 | 0.71 | 46.2 | 212 | | |
| 1287 | 21-APR-88 | 641 | 57.0 | 1.33 | 102 | 354 | | |
| 1287 | 26-JUL-88 | 635 J | 53.3 J | 1.6 J | 203 | 348 J | | |
| 1287 | 14-NOV-89 | 570 | 33 | 2.2 | 110 | 410 | 7.9 | |
| 1287 | 24-JAN-90 | 540 | 37 | 2.2 | 92 | 400 | 8.0 | |
| 1287 | 20-SEP-90 | 520 | 43 | 2.5 | 79 | 320 | | 8 |
| 1287 | 28-NOV-90 | 600 | 42 | 2.2 | 98 | 330 | | 33 |
| 1287 | 09-SEP-91 | 554 | | | | | | 22.0 |
| 1487 | 01-SEP-87 | 661 | 27.0 | 1.70 | 27.0 | 530 | | |
| 1487 | 13-OCT-87 | 635 | 30.2 | 1.60 | 41 | 48 | | |
| 1487 | 01-MAR-88 | 265 | 28.0 | 1.59 | 43.1 | 36.3 | | |
| 1487 | 22-APR-88 | 275 | 24.8 | 1.70 | 48.8 | 75.4 | | |
| 1487 | 09-AUG-88 | 287 J | 26.1 J | 1.71 J | 41.9 | 112 J | | |
| 1487 | 26-OCT-88 | 288 | 30.9 | 1.77 | 43.8 | 122 | | |
| 1487 | 25-JAN-89 | 320 | 32.6 | 1.83 | 46.5 | 158 | | |
| 1487 | 25-APR-89 | 288 | 32.0 | 1.73 | 47.2 | 141 | | |
| 1487 | 03-AUG-89 | 326 | 34.0 | 2.12 | 47.8 | 177 | | |
| 1487 | 28-NOV-89 | 360 | 46 | 3.7 | 54 | 210 | 8.2 | 5 U |
| 1487 | 25-JAN-90 | 420 | 46 | 2.6 | 60 | 290 | 7.3 | |
| 1487 | 18-SEP-90 | 380 | 50 | 2.2 | 50 | 240 | | 18 |
| 1487 | 20-NOV-90 | 440 | 46 | 1.5 | | 250 | | |
| 1487 | 11-JAN-91 | 410 | 49 | 2.6 | 43 | 250 | | 19 |
| 1487 | 15-APR-91 | 410 | 49 | 2.6 | 51 | 260 | | 8 |
| 1487 | 05-SEP-91 | 440 | | | | | | 16.0 |
| 1587 | 01-MAR-88 | 456 | 58.8 | 3.88 | 24.6 | 138 | | |
| 1587 | 21-APR-88 | 437 | 48.1 | 4.82 | 25.8 | 244 | | |
| 1587 | 03-AUG-89 | 354 | 23.5 | 3.73 | 12.7 | 223 | | |
| 1587 | 24-JAN-90 | 410 | 70 | 5.1 | 32 | 260 | 7.7 | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values
U=Analyzed but not detected J=Present below detection limit E=Estimated value
A=Acceptable with qualifications V=Valid R=Rejected

Ground Water Inorganic Results
903 Pad Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 1587 | 18-SEP-90 | 507 | 58.55 | 8.1100 | | 240.6 | | 626 |
| 1587 | 27-NOV-90 | 500 | 62 | 4.2 | 19 | 230 | | 660 |
| 1587 | 09-JAN-91 | 430 | 65 | | 28 | 210 | | 1100 |
| 1587 | 15-APR-91 | 410 | 46 | 3.7 | 370 | 210 | | 970 |
| 1587 | 03-SEP-91 | 310 | 10 | 2.5 | 13 | 220 | | 1100 |
| 1687 | 10-SEP-87 | 256 | 4.14 | 0.46 | 124 | 119 | | |
| 1687 | 17-OCT-87 | 264 | 3.7 | 1.58 | 77 | 133 | | |
| 1687 | 01-MAR-88 | 287 | 7.46 | 0.35 | 93.8 | 83.1 | | |
| 1687 | 22-APR-88 | 277 | 4.04 | 0.05 | 84.8 | 166 | | |
| 1687 | 10-AUG-88 | 286 J | 3.33 J | 0.02 U | 64.6 | 176 J | | |
| 1687 | 31-OCT-88 | 276 | 4.12 | 1.46 | 73.0 | 161 | | |
| 1687 | 07-FEB-89 | 312 | 3.34 | 1.56 | 77.0 | 171 | | |
| 1687 | 02-MAY-89 | 300 | 3.14 | 2.02 | 61.5 | 177 | | |
| 1687 | 03-AUG-89 | 337 | 3.57 | 1.89 | 85.4 | 185 | | |
| 1687 | 06-NOV-89 | 310 | 30 | 2.2 | 58 | 230 | 8.2 | 76 |
| 1687 | 17-MAR-90 | 340 | 10 | 2.5 | 62 | 220 | 7.8 | |
| 1687 | 28-NOV-90 | 320 | 7.8 | 0.8 | 61 | 200 | | 50 |
| 1687 | 09-JAN-91 | 320 | 5.2 | 1.3 | 60 | 210 | | 130 |
| 1687 | 16-APR-91 | 310 | 2.8 | 0.6 | 70 | 210 | | 42 |
| 1687 | 05-SEP-91 | 385 | 4.6 J | | 63.3 | | | 64.0 |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
J=Present below detection limit
E=Estimated value
A=Acceptable with qualifications
V=Valid
R=Rejected

Ground Water Inorganic Results
Mound Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 420 | 23 | 44.8 | 37 | 62 | | |
| 0174 | 11-MAR-87 | 405 | 30.5 | 9.80 | 30.0 | 218 | | |
| 0174 | 22-MAY-87 | 381 | 23.2 | 8.50 | 44.0 | 209 | | |
| 0174 | 23-JUL-87 | 465 | 20.5 | 5.9 | 30.0 | 220 | | |
| 0174 | 04-MAR-88 | 421 | 21.7 | 7.22 | 27.5 | 129 | | |
| 0174 | 29-APR-88 | 419 | 20.8 | 6.60 | 29.3 | 208 | | |
| 0174 | 12-AUG-88 | 392 J | 22.2 J | 7.28 J | 3.29 J | 251 J | | |
| 0174 | 04-NOV-88 | 385 | 19.5 | 7.12 | 30.4 | 208 | | |
| 0174 | 04-MAY-89 | 397 | 24.1 | 6.03 | 33.9 | 212 | | |
| 0174 | 10-AUG-89 | 420 | 23.4 | 6.54 | 33.4 | 206 | | |
| 0174 | 17-NOV-89 | 360 | 24 | 5.5 | 34 | 260 | 7.4 | |
| 0174 | 09-FEB-90 | 390 | 29 | 6.2 | 31 | 260 | 7.5 | |
| 0174 | 05-MAY-90 | 350 | | 2 | | 212 | | 12 |
| 0174 | 15-NOV-90 | 370 | 24 | 4.9 | 26 | 200 | | 4 |
| 0174 | 10-MAY-91 | 340 | 33 | 4.7 | 26 | 200 | | 4 U |
| 0174 | 15-AUG-91 | 400 | 28 | 4.8 | 31 | 200 | | 710 |
| 1787 | 06-NOV-87 | 466 | 275 | 0.79 | 46.7 | 275 | | |
| 1787 | 04-MAR-88 | 439 | 42.5 | 0.97 | 26.9 | 166 | | |
| 1787 | 29-APR-88 | 438 | 41.2 | 1.50 | 28.0 | 269 | | |
| 1787 | 16-AUG-88 | 410 J | 37.2 J | 1.94 J | 83.0 | 288 J | | |
| 1787 | 04-NOV-88 | 443 | 40.0 | 2.08 | 57.1 | 256 | | |
| 1787 | 07-FEB-89 | 437 | 34.1 | 2.35 | 22.7 | 257 | | |
| 1787 | 04-MAY-89 | 405 | 37.1 | 2.26 | 20.3 | 271 | | |
| 1787 | 10-AUG-89 | 488 | 47.0 | 4.49 | 25.2 | 265 | | |
| 1787 | 01-NOV-89 | 440 | 53 | 4.6 | 29 | 340 | 7.5 | 520 |
| 1787 | 29-JAN-90 | 490 | 57 | 4.3 | 20 | 350 | 7.4 | |
| 1787 | 06-NOV-90 | 590 | 57 | 5.8 | 14 | 280 | | 260 |
| 1787 | 09-MAR-91 | 440 | 60.6 | 5.3200 | | 0 | | 36 |
| 1787 | 19-AUG-91 | 450 | 47 | 4.6 | 15 | 270 | | 58 |
| 1887 | 08-MAR-88 | 163 | 5.85 | 0.02 U | 28.9 | 41.4 | | |
| 1887 | 02-NOV-89 | 340 | 23 | 6.2 | 59 | 360 | 8.6 | |
| 1887 | 19-MAR-91 | | | 0.9 | | | | |
| 1887 | 10-MAY-91 | 260 | 19 | 2.1 | 31 | 130 | | 610 |
| 1887 | 20-AUG-91 | 260 | 20 | 1.4 | 34 | 150 | | 520 |
| 1987 | 22-MAY-90 | | | 2.9 | | | | |
| 1987 | 15-AUG-91 | | | 4.0 | | | | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
J=Present below detection limit
E=Estimated value
A=Acceptable with qualifications
V=Valid
R=Rejected

Ground Water Inorganic Results
Mound Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 2087 | 07-MAR-88 | 373 | 11.1 | 0.05 | 261 | 31.0 | | |
| 2087 | 13-DEC-89 | 500 | 8 | | 100 | 228 | 9.9 | |
| 2087 | 09-FEB-90 | | | 3.3 | | | | |
| 2087 | 19-MAR-91 | | | 2.7 | | | | |
| 2087 | 10-MAY-91 | 410 | 9.4 | | 99 | 1 U | | 800 |
| 2087 | 15-AUG-91 | 340 | 7.7 | | 160 | 1 U | | 180 |
| 2387 | 22-OCT-87 | 414 | 55.9 | 2.77 | 27.0 | 243 | | |
| 2387 | 03-MAR-88 | 431 | 62.8 | 2.82 | 17.1 | 146 | | |
| 2387 | 28-APR-88 | 392 | 64.0 | 2.70 | 17.5 | 242 | | |
| 2387 | 12-AUG-88 | 446 | 49.0 J | 2.75 J | 18.1 J | 261 J | | |
| 2387 | 04-NOV-88 | 344 | 65.1 | 2.98 | 16.6 | 192 | | |
| 2387 | 07-FEB-89 | 459 | 65.8 | 2.31 | 18.4 | 237 | | |
| 2387 | 04-MAY-89 | 421 | 62.6 | 2.44 | 18.6 | 259 | | |
| 2387 | 08-AUG-89 | 519 | 59.3 | 3.35 | 18.1 | 239 | | |
| 2387 | 20-FEB-90 | 440 | 73 | 4.3 | 19 | 310 | 7.6 | |
| 2387 | 01-JUN-90 | 476 | 60.4 | 3.3 | 17.3 | 246 | | 776 |
| 2387 | 09-NOV-90 | 456 | 70 | 4.8 | 15 | 250 | | 224 |
| 2387 | 08-MAR-91 | 500 | 63 | 5.0 | 18 | 260 | | 280 |
| 2387 | 19-APR-91 | 470 | 66 | 4.6 | 16 | 260 | | 160 |
| 2387 | 19-AUG-91 | 490 | 63 | 4.8 | 17 | 240 | | 180 |
| 4386 | 11-MAR-87 | 338 | 51.0 | 5.1 | 30.0 | 179 | | |
| 4386 | 03-JUN-87 | 386 | 30.8 | 7.5 | 30.0 | 170 | | |
| 4386 | 28-JUL-87 | 409 | 33.4 | 7.9 | 28.0 | 184 | | |
| 4386 | 20-AUG-91 | 400 | 48 | 4.9 | 22 | 180 | | 26 |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
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E=Estimated value
A=Acceptable with qualifications
V=Valid
R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 1738 | 282 | 0.49 | 645 | 486 | | |
| 0286 | 01-JUN-87 | 1693 | 289 | 0.20 U | 115 | 474 | | |
| 0286 | 21-JUL-87 | 1627 | 264 | 0.43 | 440 | 526 | | |
| 0286 | 31-MAR-88 | 1425 | 290 | 0.02 U | 385 | 357 | | |
| 0286 | 03-JUN-88 | 1537 | 149 | 0.10 | 335 | 393 | | |
| 0286 | 27-JUN-89 | 1257 | 266 | 0.06 | 278 | 478 | | |
| 0286 | 11-JUL-89 | 1300 | 280 | 0.27 | 320 | 540 | 7.9 | 100 |
| 0286 | 03-AUG-89 | 740 | 89 | | 140 | 430 | 7.7 | 5 U |
| 0286 | 05-OCT-89 | | | 0.26 | | | | |
| 0286 | 19-MAR-90 | 1300 | 350 | 0.06 | 290 | 360 | 7.8 | |
| 0286 | 07-JUN-90 | 1080 | 245 | 0.1 U | 247 | 380 | | 6 |
| 0286 | 15-NOV-90 | | | 0.6 | | | | |
| 0286 | 19-JUN-91 | 840 | 152 | 0.3 | 200 | 410 | | 140 |
| 0286 | 11-SEP-91 | | | 0.5 | | | | |
| 0374 | __-AUG-86 | 420 | 40 | | 30 | 18 | | |
| 0374 | 17-MAR-87 | 441 | 56.0 | 9.60 | 30.0 | 273 | | |
| 0374 | 03-JUN-87 | 490 | 52.3 | 3.75 | 43.0 | 267 | | |
| 0374 | 23-JUL-87 | 489 | 122 | 6.2 | 42.0 | 256 | | |
| 0374 | 03-MAR-88 | 478 | 48.7 | 7.35 | 19.8 | 156 | | |
| 0374 | 05-MAY-88 | 476 | 47.4 | 6.30 | 23.5 | 222 | | |
| 0374 | 19-AUG-88 | 409 J | 43.2 J | 6.47 J | 20.1 J | 267 J | | |
| 0374 | 08-FEB-90 | 470 | 43 | | 23 | 310 | 7.6 | |
| 0374 | 25-MAY-90 | 454 | 49.6 | 10.1 | 26 | 272 | | 12 |
| 0374 | 01-AUG-90 | 420 | 49 | 5.5 | 28 | 270 | | 33 |
| 0374 | 16-NOV-90 | 500 | 48 | 5.0 | 21 | 260 | | 29 |
| 0374 | 24-APR-91 | | | 5.7 | | | | |
| 0374 | 22-AUG-91 | 460 | 44 | 4.7 | 35 | 260 | | 93 |
| 0386 | __-SEP-86 | 438 | 58 | 5.7 | 66 | | | |
| 0386 | 12-MAY-87 | 518 | 72.9 | 1.10 | 76.0 | 364 | | |
| 0386 | 08-JUN-87 | 523 | 72.1 | 1.12 | 100 | 257 | | |
| 0386 | 24-JUL-87 | 511 | 52.9 | 1.50 | 70.0 | 257 | | |
| 0386 | 14-DEC-87 | 457 | 48.6 | 1.26 | 103 | 278 | | |
| 0386 | 31-MAR-88 | 486 | 63.3 | 1.04 | 69.0 | 24.5 | | |
| 0386 | 03-JUN-88 | 545 | 76.6 | 1.15 | 69.0 | 247 | | |
| 0386 | 06-OCT-88 | 411 J | 50.4 | 1.24 J | 65.1 J | 248 J | | |
| 0386 | 21-DEC-88 | 415 | 48.9 | 1.34 | 73.9 | 228 | | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values
U=Analyzed but not detected J=Present below detection limit E=Estimated value
A=Acceptable with qualifications V=Valid R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 0386 | 29-MAR-89 | 444 | 48.1 | 1.60 | 67.4 | 252 | | |
| 0386 | 22-JUN-89 | 475 | 48.1 | 1.78 | 84.6 | 277 | | |
| 0386 | 02-AUG-89 | 520 | 51 | | 80 | 420 | 7.5 | 210 |
| 0386 | 05-OCT-89 | 1200 | 48 | 2.2 | 88 | 330 | 7.5 | 5 U |
| 0386 | 18-DEC-89 | 500 | 48 | 2.3 | 78 | 280 | 7.5 | |
| 0386 | 23-MAR-90 | 490 | 57 | 2.7 | 77 | 310 | 7.5 | |
| 0386 | 08-JUN-90 | 548 | 60.1 | 2.8 U | 109 | 263 | | 5 U |
| 0386 | 06-SEP-90 | 540 | 60 | 2.7 | 93 | 270 | | 33 |
| 0386 | 15-NOV-90 | 550 | 53 | 2.6 | 100 | 210 | | 9 |
| 0386 | 14-MAR-91 | 550 | 61 | 2.8 | 82 | 280 | | 51 |
| 0386 | 20-JUN-91 | 560 | 58 | 3.5 | 140 | 280 | | 20 |
| 0774 | __-AUG-86 | 440 | 38 | 42.0 | 77 | | | |
| 0774 | 07-MAY-87 | 375 | 30.9 | 3.30 | 40.0 | 184 | | |
| 0774 | 28-MAY-87 | 360 | 31.0 | 3.70 | 61.0 | 176 | | |
| 0774 | 23-JUL-87 | 433 | 34.0 | 6.30 | 73.0 | 176 | | |
| 2274 | __-SEP-86 | 400 | 57 | 23.6 | 22 | | | |
| 2274 | 13-MAR-87 | 425 | 58.0 | 9.10 | 32.0 | 198 | | |
| 2274 | 21-MAY-87 | 385 | 40.8 | 3.6 | 37.0 | 272 | | |
| 2274 | 28-JUL-87 | 414 | 37.4 | 6.30 | 22.8 | 268 | | |
| 2274 | 01-DEC-89 | 390 | 53 | 6.8 | 30 | 260 | 7.3 | |
| 2274 | 17-MAR-90 | 420 | 78 | 5.2 | 23 | 310 | 7.8 | |
| 2274 | 21-JUN-90 | 428 | 54.7 | 5.6 | 22.6 | 266 | | 5 |
| 2274 | 20-SEP-90 | 409 | 56.52 | 6.5 | | 285.7 | | 210 |
| 2274 | 03-NOV-90 | 470 | 55 | 5.2 | 9 | 282 | | 130 |
| 2274 | 23-MAY-91 | 430 | 57 | 5.0 | 22 | 290 | | 4 U |
| 2274 | 09-SEP-91 | 520 | | | | | | 243 |
| 2487 | 07-JUN-90 | 300 | 7.0 | 0.02 U | 72.4 | 161 | | 25 |
| 2587 | 22-OCT-87 | 448 | 36.0 | 7.69 | 35.5 | 250 | | |
| 2587 | 04-MAR-88 | 466 | 37.3 | 7.69 | 32.5 | 152 | | |
| 2587 | 12-MAY-88 | 496 | 34.8 | 6.90 | 28.5 | 235 | | |
| 2587 | 16-AUG-88 | 457 J | 34.6 J | 7.69 J | 32.4 | 267 J | | |
| 2587 | 11-NOV-88 | 439 | 39.6 | 8.02 | 30.2 | 239 | | |
| 2587 | 15-FEB-89 | 475 | 39.1 | 7.31 | 28.1 | 248 | | |
| 2587 | 09-MAY-89 | 482 | 41.1 | 7.11 | 27.9 | 281 | | |
| 2587 | 18-AUG-89 | 482 | 36.3 | 7.38 | 28.3 | 244 | | |
| 2587 | 02-NOV-89 | 420 | 39 | 6.9 | 30 | 320 | 7.4 | 720 |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected J=Present below detection limit E=Estimated value

A=Acceptable with qualifications V=Valid R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 2587 | 01-FEB-90 | 670 | 37 | 0.66 | 230 | 360 | 7.6 | |
| 2587 | 11-JUN-90 | 600 | 29.8 | 9.2 | 36.4 | 232 | | 730 |
| 2587 | 05-NOV-90 | 640 | 43 | 7.7 | 24 | 270 | | 920 |
| 2587 | 09-MAR-91 | 550 | 39 | 9.0 | 25 | 280 | | 240 |
| 2587 | 22-APR-91 | 500 | 34 | 7.5 | 32 | 280 | | 820 |
| 2587 | 10-SEP-91 | 590 | | | | | | 380 |
| 2787 | 23-AUG-88 | 396 J | 30.5 J | 9.92 J | 57.9 J | 221 J | | |
| 2787 | 17-NOV-88 | 407 | 33.0 | 7.32 | 77.3 | 189 | | |
| 2787 | 11-MAY-89 | 439 | 34.6 | 8.42 | 61.5 | 215 | | |
| 2787 | 22-AUG-89 | 457 | 35.2 | 7.40 | 60.5 | 204 | | |
| 2787 | 05-DEC-89 | 440 | 37 | 7.5 | 63 | 220 | 7.8 | |
| 2787 | 12-MAR-90 | 520 | 41 | 6.5 | 65 | 260 | 7.8 | |
| 2887 | 15-MAR-88 | 137 | 6.27 | 0.09 | 32.0 | 38.1 | | |
| 2887 | 12-MAY-88 | 516 | 23.4 | 0.04 | 130 | 93.6 | | |
| 2887 | 20-FEB-89 | 529 | 77.9 | 0.04 | 195 | 114 | | |
| 2887 | 06-DEC-89 | 700 | 77 | 0.05 U | 290 | 140 | 7.5 | |
| 2887 | 14-MAR-90 | | | 3.8 | | | | |
| 2887 | 28-NOV-90 | 640 | 100 | | 170 | 220 | | 170 |
| 2887 | 16-APR-91 | 620 | 98 | 1.1 | 170 | 250 | | 81 |
| 2887 | 04-SEP-91 | 680 | 100 | 0.4 | 230 | 260 | | 97 |
| 3187 | 29-OCT-87 | 346 | 10.3 | 0.20 U | 125 | 60.8 | | |
| 3187 | 10-MAR-88 | 293 | 9.45 | 0.07 | 176 | 35.3 | | |
| 3187 | 12-MAY-88 | 312 | 9.01 | 0.17 | 115 | 67.6 | | |
| 3187 | 25-AUG-88 | 308 J | 9.07 J | 3.55 | 113 J | 94.1 J | | |
| 3187 | 22-NOV-88 | 293 | 38.9 | 0.02 | 138 | 93.0 | | |
| 3187 | 22-FEB-89 | 307 | 9.79 | 0.05 | 118 | 74.6 | | |
| 3187 | 11-MAY-89 | 312 | 10.1 | 0.04 | 115 | 83.4 | | |
| 3187 | 14-DEC-89 | 340 | 13 | 0.05 U | 110 | 120 | 9.3 | |
| 3187 | 13-MAR-90 | 410 | 12 | 0.05 | 120 | 130 | 8.8 | |
| 3187 | 18-SEP-90 | 320 | 14 | 0.04 | 120 | 100 | | 630 |
| 3187 | 21-NOV-90 | 320 | 14 | 0.04 | 120 | 110 | | 380 |
| 3187 | 11-JAN-91 | 330 | 14 | 0.16 | 95 | 110 | | 290 |
| 3187 | 16-APR-91 | 310 | 14 | 0.3 | 130 | 86 | | 30 |
| 3187 | 10-SEP-91 | 337 | | | | | | 51.0 |
| 3287 | 27-OCT-87 | 623 | 35.9 | 15.45 | 74 | 243 | | |
| 3287 | 10-MAR-88 | 564 | 32.5 | 14.4 | 103 | 140 | | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values
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Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 3287 | 12-MAY-88 | 630 | 32.4 | 10.1 | 113 | 240 | | |
| 3287 | 23-AUG-88 | 480 J | 36.7 J | 4.70 J | 59.6 J | 289 J | | |
| 3287 | 17-NOV-88 | 453 | 39.6 | 3.77 | 77.6 | 273 | | |
| 3287 | 22-FEB-89 | 507 | 40.7 | 7.71 | 78.8 | 236 | | |
| 3287 | 12-DEC-89 | 550 | 48 | 6.6 | 77 | 310 | 7.6 | |
| 3287 | 21-FEB-90 | 360 | 60 | 6.8 | 79 | 360 | 7.7 | |
| 3287 | 19-SEP-90 | 438 | 41.09 | 10.41 | | 243.1 | | 692 |
| 3287 | 29-NOV-90 | 460 | 46 | 7.6 | 65 | 250 | | 3000 |
| 3287 | 15-JAN-91 | 460 | 48 | 6.8 | 70 | 240 | | 1600 |
| 3287 | 16-APR-91 | 440 | 46 | 7.1 | 71 | 250 | | 600 |
| 3287 | 03-SEP-91 | 450 | 43 | 7.6 | 98 | 230 | | 1400 |
| 3487 | 10-MAR-88 | 288 | 5.37 | 0.17 | 114 | 61.4 | | |
| 3487 | 12-MAY-88 | 314 | 3.94 | 0.06 | 97.0 | 125 | | |
| 3487 | 20-FEB-89 | 381 | 7.25 | 0.14 | 80.6 | 142 | | |
| 3487 | 24-AUG-89 | 370 | 10.6 | 0.25 | 62.0 | 151 | | |
| 3487 | 13-DEC-89 | 510 | 5 | 0.34 | 76 | 190 | 8.3 | |
| 3487 | 21-MAR-90 | 400 | 5 | 0.30 | 62 | 190 | 8.4 | |
| 3487 | 18-SEP-90 | 200 | 5.52 | .1 U | | 190.5 | | 1942 |
| 3487 | 28-NOV-90 | 390 | 6.8 | 0.3 | 76 | 240 | | 8400 |
| 3487 | 15-JAN-91 | 310 | 5.9 | 0.4 | 68 | 200 | | 1700 |
| 3487 | 16-APR-91 | 330 | 8.0 | 0.06 | 71 | 180 | | 860 |
| 3487 | 05-SEP-91 | 346 | 4.5 J | | 59.4 | | | 1140 |
| 3687 | 06-NOV-87 | 375 | 218 | 4.57 | 43.5 | 218 | | |
| 3687 | 10-MAR-88 | 395 | 29.6 | 4.78 | 34.4 | 133 | | |
| 3687 | 05-MAY-88 | 405 | 29.9 | 4.40 | 33.0 | 212 | | |
| 3687 | 19-AUG-88 | 431 J | 34.2 J | 4.12 J | 40.5 J | 240 J | | |
| 3687 | 10-NOV-88 | 390 | 41.7 | 4.42 | 42.4 | 208 | | |
| 3687 | 15-FEB-89 | 444 | 41.9 | 8.06 | 27.7 | 242 | | |
| 3687 | 09-MAY-89 | 486 | 38.3 | 7.95 | 25.0 | 281 | | |
| 3687 | 22-AUG-89 | 500 | 39.9 | 5.36 | 36.5 | 253 | | |
| 3687 | 10-NOV-89 | 490 | 46 | 4.8 | 35 | 340 | 7.4 | 1200 |
| 3687 | 05-MAR-90 | 540 | 48 | 6.1 | 30 | 350 | 7.5 | |
| 3687 | 05-JUN-90 | 590 | | 5.5 | | 284 | | 230 |
| 3687 | 29-AUG-90 | 480 | 43 | 4.5 | 31 | 250 | | 580 |
| 3687 | 12-NOV-90 | 490 | 21 | 5.7 | 27 | 260 | | 350 |
| 3687 | 08-MAR-91 | 455 | 50.6 | 5.15 | | 0 | | 1201 |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
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A=Acceptable with qualifications
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R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 3687 | 19-APR-91 | 490 | 36 | 4.5 | 38 | 290 | | 720 |
| 3687 | 23-AUG-91 | 500 | 40 | 4.5 | 31 | 270 | | 200 |
| 3986 | __-SEP-86 | 450 | 36 | 5.0 U | 74 | | | |
| 3986 | 06-MAY-87 | 407 | 31.9 | 7.20 | 60.0 | 218 | | |
| 3986 | 03-JUN-87 | 389 | 27.6 | 6.40 | 60.0 | 212 | | |
| 3986 | 24-JUL-87 | 396 | 31.9 | 4.80 | 57.5 | 209 | | |
| 3986 | 12-DEC-87 | 415 | 34.9 | 5.89 | 65.3 | 242 | | |
| 3986 | 10-MAR-88 | 429 | 33.5 | 7.11 | 42.4 | 134 | | |
| 3986 | 05-MAY-88 | 436 | 34.3 | 6.60 | 53.0 | 223 | | |
| 3986 | 19-AUG-88 | 381 J | 30.9 J | 5.86 J | 53.1 J | 241 J | | |
| 3986 | 10-NOV-88 | 412 | 40.1 | 5.77 | 64.6 | 219 | | |
| 3986 | 15-FEB-89 | 452 | 34.3 | 4.78 | 66.3 | 233 | | |
| 3986 | 09-MAY-89 | 406 | 34.5 | 4.83 | 53.4 | 235 | | |
| 3986 | 16-AUG-89 | 472 | 34.5 | 5.04 | 54.8 | 245 | | |
| 3986 | 10-NOV-89 | 470 | 38 | 5.0 | 61 | 320 | 7.8 | 170 |
| 3986 | 21-FEB-90 | 500 | 48 | 6.0 | 57 | 330 | 7.7 | |
| 3986 | 04-JUN-90 | 460 | | 0.61 | | 282 | | 200 |
| 3986 | 09-AUG-90 | 470 | 43 | 5.1 | 57 | 270 | | 440 |
| 3986 | 01-NOV-90 | 430 | 45 | 5.1 | 61 | 250 | | 190 |
| 3986 | 19-MAR-91 | 400 | 41 | 4.6 | 55 | 240 | | 100 |
| 3986 | 14-MAY-91 | 410 | 40 | 5.9 | 64 | 240 | | 180 |
| 3986 | 16-AUG-91 | 410 | 36 | 5.1 | 100 | 220 | | 140 |
| 4086 | 06-MAY-87 | 1011 | 19.9 | 1.40 | 470 | 205 | | |
| 4086 | 01-JUN-87 | | 14.9 | | 390 | | | |
| 4086 | 11-MAR-88 | 598 | 7.56 | 3.77 | 131 | 180 | | |
| 4086 | 12-MAY-88 | 576 | 7.24 | 3.80 | 135 | 293 | | |
| 4086 | 11-MAY-89 | 594 | 7.15 | 1.33 | 142 | 369 | | |
| 4086 | 13-DEC-89 | 600 | 7 | 0.16 | 130 | 390 | 7.3 | |
| 4086 | 19-FEB-90 | 560 | 10 | 2.4 | 120 | 400 | 7.4 | |
| 4086 | 20-SEP-90 | 540 | 8.9 | 1.3 | 130 | 360 | | 20 |
| 4086 | 28-NOV-90 | 550 | 9.7 | 1.6 | 120 | 350 | | 7 |
| 4086 | 11-JAN-91 | 2400 | 8.6 | 2.1 | 110 | 350 | | 7 |
| 4086 | 16-APR-91 | 550 | 13 | 1.7 | 760 | 340 | | 8 |
| 4086 | 06-SEP-91 | 623 | | | | | | 64.0 |
| 4186 | __-SEP-86 | 480 | 34 | 5.0 U | 100 | | | |
| 4186 | 06-MAY-87 | 480 | 36.9 | 9.60 | 65.0 | 249 | | |

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U=Analyzed but not detected
A=Acceptable with qualifications
J=Present below detection limit
V=Valid
E=Estimated value
R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 4186 | 01-JUN-87 | 442 | 33.0 | 9.80 | 62.5 | 231 | | |
| 4186 | 21-JUL-87 | 427 | 34.0 | 10.9 | 66.1 | 233 | | |
| 4186 | 16-DEC-87 | 1806 | 947 | 0.02 U | 58.0 | 99.6 | | |
| 4186 | 11-MAR-88 | 460 | 32.1 | 13.6 | 78.5 | 126 | | |
| 4186 | 05-MAY-88 | 510 | 32.5 | 13.0 | 55.0 | 220 | | |
| 4186 | 22-NOV-88 | 474 | 10.9 | 6.69 | 70.1 | 261 | | |
| 4186 | 20-FEB-89 | 479 | 40.0 | 7.46 | 72.4 | 259 | | |
| 4186 | 11-MAY-89 | 482 | 40.0 | 7.89 | 59.6 | 278 | | |
| 4186 | 07-DEC-89 | 740 | 52 | 2.0 | 52 | 588 | 7.5 | |
| 4186 | 19-FEB-90 | 640 | 50 | 6.3 | 62 | 430 | 7.9 | |
| 4186 | 17-SEP-90 | 471 | 44.83 | 8.08 | | 255.6 | | 149 |
| 4186 | 20-NOV-90 | 240 | 44 | 4.9 | 70 | 240 | | 290 |
| 4186 | 10-JAN-91 | 460 | 46 | 7.8 | 57 | 240 | | 190 |
| 4186 | 15-APR-91 | | | 7.3 | | | | |
| 4286 | __-SEP-86 | 470 | 50 | 30.2 | 22 | | | |
| 4286 | 12-MAR-87 | 526 | 57.0 | 7.20 | 70.0 | 171 | | |
| 4286 | 26-MAY-87 | 468 | 34.7 | 5.9 | 24.0 | 297 | | |
| 4286 | 24-JUL-87 | 475 | 50.5 | 4.10 | 20.0 | 279 | | |
| 4286 | 14-OCT-87 | 483 | 42.1 | 5.58 | 18.0 | 322 | | |
| 4286 | 04-MAR-88 | 465 | 37.0 | 4.76 | 26.6 | 183 | | |
| 4286 | 05-MAY-88 | 401 | 35.6 | 4.30 | 16.5 | 209 | | |
| 4286 | 25-AUG-88 | 268 J | 33.3 J | 0.02 | 16.8 J | 170 J | | |
| 4286 | 17-NOV-88 | 384 | 40.7 | 4.26 | 16.9 | 292 | | |
| 4286 | 20-FEB-89 | 525 | 53.9 | 4.69 | 18.3 | 297 | | |
| 4286 | 09-MAY-89 | 476 | 49.5 | 4.39 | 18.4 | 321 | | |
| 4286 | 18-AUG-89 | 475 | 38.4 | 4.18 | 15.7 | 291 | | |
| 4286 | 06-DEC-89 | 570 | 55 | 5.2 | 21 | 450 | 7.4 | |
| 4286 | 30-JAN-90 | 1000 | 66 | 7.0 | 24 | 440 | 7.2 | |
| 4286 | 11-JUN-90 | 444 | 41.7 | 3.2 | 18 | 380 | | 2780 |
| 4286 | 24-AUG-90 | 480 | 43 | 4.2 | 18 | 360 | | 1000 |
| 4286 | 16-NOV-90 | 520 | 55 | 4.1 | 17 | 380 | | 2200 |
| 4286 | 08-MAR-91 | 520 | 63.5 | 5.95 | | 0 | | 144 |
| 4286 | 17-MAY-91 | 610 | 70 | 6.0 | 18 | 370 | | 830 |
| 6786 | __-NOV-86 | 512 | 35 | | 65 | | | |
| 6786 | 11-MAY-87 | 560 | 43.8 | 4.90 | 70.0 | 358 | | |
| 6786 | 01-JUN-87 | 566 | 47.2 | 3.80 | 110 | 333 | | |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
J=Present below detection limit
E=Estimated value
A=Acceptable with qualifications
V=Valid
R=Rejected

Ground Water Inorganic Results
East Trenches Area
Results reported in mg/l

| Well Number | Date Sampled | Total Dissolved Solids, TDS | Chloride Cl | Nitrate/Nitrite* NO2 | Sulfate SO4 | Bicarbonate HCO3 | PH | Total Suspended Solids, TSS |
|---|---|---|---|---|---|---|---|---|
| 6786 | 21-JUL-87 | 564 | 46.5 | 3.4 | 95.5 | 344 | | |
| 6786 | 08-FEB-90 | 550 | 48 | 4.4 | 85 | 340 | 7.5 | |
| 6786 | 12-JUN-90 | 539 | 66.8 | 2.8 U | 117 | 238 | | 5 U |
| 6786 | 22-AUG-90 | 550 | 70 | 1.1 | 120 | 270 | | 140 |
| 6786 | 05-OCT-90 | 540 | 72 | | 130 | 360 | | 1400 |
| B218789 | 14-MAR-90 | 420 | 32 | 4.1 | 27 | 330 | 7.5 | |
| B218789 | 13-SEP-90 | 350 | 36 | 4.3 | 17 | 250 | | 390 |
| B218789 | 22-OCT-90 | 360 | 30 | 3.8 | 13 | 250 | | 4 U |
| B218789 | 08-MAR-91 | 750 | 35 | 5.2 | 20 | 280 | | 680 |
| B218789 | 21-MAY-91 | 380 | 33 | 4.3 | 11 | 260 | | 62 |
| B218789 | 20-AUG-91 | 390 | 38 | 4.2 | 12 | 280 | | 26 |

*Where no value for Nitrate/Nitrite, value has been obtained from summation of nitrate and nitrite values

U=Analyzed but not detected
J=Present below detection limit
E=Estimated value
A=Acceptable with qualifications
V=Valid
R=Rejected

# GROUND-WATER SAMPLING RESULTS
# DISSOLVED RADIONUCLIDES

Ground Water Dissolved Radiochemistry Results
903 Pad Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0171 | 02-JUL-87 | 3 +/- 26 | 18 +/- 39 | 6.8 | 2.6 | | -.04 +/- 1.50 | 515 |
| 0171 | 15-OCT-87 | 6 +/- 4 | 2 +/- 9 | 2.04 | 1.0 | 0.00 +/- .07 | 0.00 +/- .43 | 460 |
| 0171 | 26-FEB-88 | 5 +/- 4 | 12 +/- 11 | 2.36 | | 0.00 +/- 0.18 | 0.00 +/- 0.18 | 200 |
| 0171 | 19-APR-88 | 5 +/- 5 | 14 +/- 11 | 2.18 | | 0.01 +/- 0.03 | 0.02 +/- 0.19 | 210 |
| 0171 | 26-JUL-88 | 12 +/- 2 | 6 +/- 2 | 4.67 | | 0.00 +/- 0.08 | 0.10 +/- 0.17 | 210 |
| 0171 | 31-OCT-88 | 5 +/- 2 | 13 +/- 2 | 4.6 | | .02 +/- .11 | -.05 +/- .08 | |
| 0171 | 02-FEB-89 | 10 +/- 2 | 7 +/- 2 | | | 0.00 +/- 0.03 | -0.01 +/- 0.08 | 240 |
| 0171 | 02-MAY-89 | 7.7 +/- 1.0 | 9.4 +/- 2.7 | | | | | 270 |
| 0171 | 08-AUG-89 | 3.1 +/- .7 | .3 +/- 2.3 | | | | | |
| 0171 | 29-NOV-89 | 11 +/- 5 | 16 +/- 5 | 1.17 | 0 +/- .2 | .006 +/- .004 | .006 +/- .008 | |
| 0171 | 20-NOV-90 | 3.239 +/- 1.22 | 4.076 +/- 1.22 | 4.9644 | -.152 +/- .28 | | | 34.27 +/- 204 |
| 0271 | 02-JUL-87 | 16 +/- 22 | -19 +/- 36 | 11.8 | 1.0 | | | 515 |
| 0271 | 26-FEB-88 | 9 +/- 17 | -12 +/- 59 | 7.53 | | 0.00 +/- 0.17 | 0.00 +/- 0.33 | 200 |
| 0271 | 21-APR-88 | 20 +/- 8 | 25 +/- 17 | 19.58 | | 0.00 +/- 0.03 | 0.00 +/- 0.18 | 210 |
| 0271 | 26-JUL-88 | 37 +/- 6 | 22 +/- 6 | 25.59 | | 0.00 +/- 0.08 | 0.06 +/- 0.17 | 220 |
| 0271 | 08-AUG-89 | 23.5 +/- 3.9 | 9.2 +/- 3.2 | | | | | |
| 0271 | 26-FEB-90 | | | | -0.3 +/- 0.3 | | | |
| 0271 | 21-NOV-90 | 37.49 +/- 16.3 | 13.66 +/- 4.25 | 27.6966 | .3718 +/- .331 | | | 135.2 +/- 209 |
| 1187 | 18-SEP-87 | 28 +/- 24 | 8 +/- 40 | | | | | 440 |
| 1187 | 18-FEB-88 | 15 +/- 5 | -1 +/- 11 | 2.05 | | 0.00 +/- 0.20 | 0.00 +/- 0.12 | 220 |
| 1187 | 01-DEC-89 | 9 +/- 5 | 13 +/- 3 | 0.5 | -.1 +/- .2 | .003 +/- .004 | .002 +/- .005 | |
| 1187 | 23-JAN-90 | 16.9 +/- 2.6 | 11.1 +/- 2.3 | 4.64 | 0.35 +/- 0.33 | 0.005 +/- 0.004 | | 250 +/- 160 |
| 1187 | 28-NOV-90 | 9.203 +/- 4.05 | 6.043 +/- 1.7 | 8.1765 | | | | 125.1 +/- 215 |
| 1187 | 15-JAN-91 | 3.52 +/- 1.88 | 2.312 +/- 1.86 | 7.7069 | | | | |
| 1287 | 02-SEP-87 | 121 +/- 48 | 47 +/- 45 | | | | | |
| 1287 | 26-FEB-88 | 47 +/- 12 | 46 +/- 16 | 35.70 | | | 0.00 +/- 0.09 | 220 |
| 1287 | 21-APR-88 | 52 +/- 14 | 57 +/- 20 | 32.97 | | 0.00 +/- 0.04 | 0.01 +/- 0.20 | 210 |
| 1287 | 26-JUL-88 | 37 +/- 4 | 22 +/- 3 | 27.80 | | 0.00 +/- 0.08 | 0.05 +/- 0.17 | 210 |
| 1287 | 14-NOV-89 | 30.0 +/- 3.2 | 25.3 +/- 3.0 | 20.21 | 0.02 +/- 0.48 | 0.004 +/- 0.004 | | 0 +/- 250 |
| 1287 | 24-JAN-90 | 84.6 +/- 5.9 | 42.2 +/- 3.6 | 20.68 | | | | 150 +/- 150 |
| 1287 | 20-SEP-90 | 11.8 +/- 4.04 | 11.96 +/- 2.37 | 21.7164 | .5652 +/- .397 | | | 352.1 +/- 225 |
| 1287 | 28-NOV-90 | 24.38 +/- 8.33 | 8.035 +/- 1.6 | 22.989 | | | | 279.9 +/- 224 |
| 1487 | 01-SEP-87 | 17 +/- 21 | 23 +/- 41 | | | | | 500 |
| 1487 | 13-OCT-87 | 6 +/- 17 | 16 +/- 40 | 0.00 | | 0.00 +/- .15 | 0.00 +/- .22 | 460 |
| 1487 | 01-MAR-88 | 10 +/- 7 | 19 +/- 13 | 0.03 | | 0.00 +/- 0.19 | 0.00 +/- 0.11 | 210 |
| 1487 | 22-APR-88 | 8 +/- 4 | 18 +/- 11 | 0.34 | | 0.00 +/- 0.03 | 0.00 +/- 0.16 | 200 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
903 Pad Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 1487 | 09-AUG-88 | 1 +/- 1 | 7 +/- 2 | 1.41 | | 0.00 +/- 0.04 | 0.03 +/- 0.09 | 210 |
| 1487 | 26-OCT-88 | | | 1.52 | | .01 +/- .06 | .01 +/- .13 | 220 |
| 1487 | 26-JAN-89 | 1 +/- 1 | 5 +/- 2 | 1.85 | | -0.02 +/- 0.02 | -0.01 +/- 0.03 | 230 |
| 1487 | 25-APR-89 | 1.0 +/- .6 | 3.6 +/- 2.5 | | | | | 260 |
| 1487 | 03-AUG-89 | 3.1 +/- .9 | 3.7 +/- 2.3 | | | | | |
| 1487 | 28-NOV-89 | 7 +/- 4 | 9 +/- 2 | 0.23 | 0 +/- .16 | 0 +/- .003 | -.01 +/- .03 | |
| 1487 | 25-JAN-90 | 9.5 +/- 1.8 | 9.1 +/- 2.2 | 3.64 | 0.36 +/- 0.49 | 0.011 +/- 0.007 | 0.011 +/- 0.010 | 200 +/- 160 |
| 1487 | 18-SEP-90 | 5.456 +/- 3.9 | 4.651 +/- 1.4 | 2.001 | .3521 +/- .39 | | | 171.2 +/- 223 |
| 1487 | 20-NOV-90 | 2.93 +/- 1.13 | 2.467 +/- 1.06 | 2.1786 | .4541 +/- .386 | | | 22.23 +/- 203 |
| 1487 | 11-JAN-91 | 4.618 +/- 2.71 | 2.567 +/- 1.35 | 3.914 | .204 +/- .331 | | | -50.9 +/- 211 |
| 1587 | 01-MAR-88 | 14 +/- 7 | -5 +/- 17 | 1.44 | | 0.00 +/- 0.19 | 0.00 +/- 0.10 | 210 |
| 1587 | 21-APR-88 | -2 +/- 5 | -8 +/- 14 | 1.25 | | 0.00 +/- 0.05 | 0.00 +/- 0.16 | 210 |
| 1587 | 03-AUG-89 | .7 +/- .6 | 3.2 +/- 2.3 | | | | | |
| 1587 | 04-DEC-89 | 3 +/- 3 | 5 +/- 3 | 1.41 | .1 +/- .2 | .007 +/- .004 | .001 +/- .008 | |
| 1587 | 24-JAN-90 | 1.0 +/- 0.5 | 1.7 +/- 1.9 | 1.44 | | | | |
| 1587 | 27-NOV-90 | .4501 +/- .784 | 2.473 +/- 1.42 | 1.5254 | .04861 +/- .232 | | | 349.4 +/- 212 |
| 1587 | 09-JAN-91 | 2.382 +/- 2.63 | 6.918 +/- 3.55 | 2.0259 | | | | |
| 1687 | 14-SEP-87 | 14 +/- 24 | 23 +/- 40 | | | | | 500 |
| 1687 | 17-OCT-87 | 48 +/- 27 | 17 +/- 39 | 3.91 | | .05 +/- .09 | .01 +/- .07 | 460 |
| 1687 | 01-MAR-88 | 10 +/- 4 | 12 +/- 18 | 4.14 | | 0.00 +/- 0.14 | 0.03 +/- 0.12 | 220 |
| 1687 | 22-APR-88 | 12 +/- 4 | 16 +/- 10 | 3.74 | | 0.02 +/- 0.04 | 0.02 +/- 0.16 | 210 |
| 1687 | 10-AUG-88 | 2 +/- 1 | 0 +/- 2 | | | 0.00 +/- 0.04 | 0.02 +/- 0.09 | 210 |
| 1687 | 31-OCT-88 | 3 +/- 1 | 8 +/- 2 | 3.55 | | 0.0 +/- .03 | -.06 +/- .08 | 220 |
| 1687 | 08-FEB-89 | 2 +/- 1 | 6 +/- 2 | 2.73 | | -0.08 +/- 0.09 | 0.03 +/- 0.08 | 230 |
| 1687 | 02-MAY-89 | 4.4 +/- 1.0 | 8.3 +/- 2.6 | | | | | 270 |
| 1687 | 03-AUG-89 | 4.4 +/- 1.2 | 4.6 +/- 2.5 | | | | | |
| 1687 | 06-NOV-89 | 6 +/- 2 | 3.8 +/- .9 | 5.1 | 0 +/- .2 | -.001 +/- .005 | -.003 +/- .004 | |
| 1687 | 17-MAR-90 | 6.555 +/- 2.6656 | 4.039 +/- 1.192856 | 3.4905 | -.02272 +/- .1475684 | .003607 +/- .0042454 | .001546 +/- .0090924 | |
| 1687 | 28-NOV-90 | 3.888 +/- 1.83 | 3.238 +/- 1.11 | 2.9886 | | | | -185 +/- 200 |
| 1687 | 09-JAN-91 | 9.898 +/- 4.5 | 4.744 +/- 1.34 | 2.5948 | | | | -14.8 +/- 198 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
Mound Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0174 | 23-JUL-87 | 9 +/- 23 | 8 +/- 39 | 2 | 5.0 | 0.0 +/- 0.7 | .16 +/- .58 | 475 |
| 0174 | 22-OCT-87 | 8 +/- 4 | -3 +/- 9 | 1.97 | 1.0 | .01 +/- .09 | 0.00 +/- .58 | 460 |
| 0174 | 04-MAR-88 | 5 +/- 4 | 0 +/- 10 | 2.52 | | 0.09 +/- 0.11 | 0.05 +/- 0.42 | 210 |
| 0174 | 29-APR-88 | 6 +/- 3 | 2 +/- 9 | 2.25 | | 0.00 +/- 0.4 | 0.00 +/- 0.10 | 220 +/- 90 |
| 0174 | 12-AUG-88 | 4 +/- 1 | 3 +/- 2 | 2.79 | | 0.00 +/- 0.04 | 0.01 +/- 0.09 | 220 +/- 90 |
| 0174 | 04-NOV-88 | 5 +/- 2 | 4 +/- 2 | 2.77 | | -.02 +/- .03 | -.05 +/- .08 | 230 +/- 100 |
| 0174 | 04-MAY-89 | 4.1 +/- 1.2 | 7.5 +/- 2.7 | | | | | 270 |
| 0174 | 10-AUG-89 | 7.3 +/- 1.6 | 5.5 +/- 2.4 | 2.13 | | .027 +/- .016 | | |
| 0174 | 17-NOV-89 | 6 +/- 5 | 11 +/- 3 | 4.06 | -.01 +/- .10 | 0.001 +/- 0.006 | -0.002 +/- 0.004 | |
| 0174 | 09-FEB-90 | 2.5 +/- 0.8 | 5.1 +/- 2.3 | 1.52 | 0.53 +/- 0.36 | 0.006 +/- 0.005 | | 100 +/- 100 |
| 0174 | 15-NOV-90 | 3.88 +/- 2.29 | 2.758 +/- 1.07 | 1.8338 | .4468 +/- .306 | | | 329.4 +/- 203 |
| 1787 | 06-NOV-87 | 9 +/- 20 | 18 +/- 41 | | | | | |
| 1787 | 04-MAR-88 | 10 +/- 5 | 11 +/- 9 | 5.45 | | 0.00 +/- 0.12 | 0.0 +/- 1.6 | 200 |
| 1787 | 29-APR-88 | 18 +/- 4 | 12 +/- 11 | 1.33 | | | | 200 |
| 1787 | 16-AUG-88 | 3 +/- 1 | 6 +/- 2 | 2.07 | | 0.00 +/- 0.04 | 0.01 +/- 0.07 | 210 |
| 1787 | 04-NOV-88 | 4 +/- 2 | 7 +/- 2 | 3.04 | | -.02 +/- .03 | -.08 +/- .08 | 220 |
| 1787 | 08-FEB-89 | 4 +/- 2 | 6 +/- 2 | 1.73 | | -0.1 +/- 0.03 | -0.04 +/- 0.08 | 260 |
| 1787 | 04-MAY-89 | 2.3 +/- 1.1 | 9.2 +/- 2.9 | | | | | 270 |
| 1787 | 10-AUG-89 | 2.1 +/- .8 | 2.8 +/- 2.5 | 2.28 | | .007 +/- .004 | .016 +/- .018 | |
| 1787 | 29-JAN-90 | 4.1 +/- 2.0 | 3.4 +/- 2.1 | 0.64 | 0.16 +/- 0.37 | 0.012 +/- 0.006 | 0.005 +/- 0.006 | |
| 1787 | 06-NOV-90 | 1.41 +/- 1.67 | 4.374 +/- 1.95 | 1.4407 | .472 +/- .348 | | | 35.25 +/- 198 |
| 1787 | 09-MAR-91 | 2.486 +/- 1.9 | 3.975 +/- 1.48 | 1.491 | .4973 +/- .355 | | | 110.6 +/- 200 |
| 1887 | 08-MAR-88 | 7 +/- 9 | 24 +/- 15 | 0.32 | | 0.02 +/- 0.09 | 0.00 +/- 0.24 | 220 |
| 1887 | 02-NOV-89 | 10.2 +/- 2.0 | 6.8 +/- 3.5 | 6.56 | | 0.009 +/- 0.004 | | |
| 1887 | 19-MAR-91 | | | | | | | 1.865 +/- 194 |
| 2087 | 04-MAR-88 | 8 +/- 12 | 37 +/- 22 | | | 0.00 +/- 0.18 | 0.00 +/- 0.24 | 200 |
| 2087 | 13-DEC-89 | | | 1.03 | | | | |
| 2087 | 09-FEB-90 | 0.1 +/- 0.9 | 3.6 +/- 1.8 | | | | | |
| 2087 | 27-JUL-90 | .1189 +/- .387 | 3.58 +/- 1.18 | 0.3045 | | | | |
| 2087 | 19-MAR-91 | | | | | | | 8.393 +/- 195 |
| 2387 | 22-OCT-87 | 39 +/- 27 | 30 +/- 45 | | | | | 520 |
| 2387 | 03-MAR-88 | 6 +/- 4 | 11 +/- 12 | 3.74 | | 0.00 +/- 0.19 | 0.00 +/- 0.17 | 210 |
| 2387 | 28-APR-88 | 14 +/- 5 | 5 +/- 11 | 3.73 | | 0.00 +/- 0.03 | 0.00 +/- 0.10 | 200 |
| 2387 | 12-AUG-88 | 5 +/- 1 | 5 +/- 2 | 3.18 | | 0.07 +/- 0.05 | 0.00 +/- 0.08 | 210 |
| 2387 | 04-NOV-88 | 4 +/- 2 | 4 +/- 2 | 3.3 | | -.01 +/- 0.3 | -.04 +/- .08 | 230 |
| 2387 | 08-FEB-89 | 6 +/- 2 | 4 +/- 2 | 3.39 | | 0.00 +/- 0.03 | -0.07 +/- 0.08 | 250 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
Mound Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 2387 | 04-MAY-89 | 4.5 +/- .7 | 5.9 +/- 2.7 | | | | | 260 |
| 2387 | 08-AUG-89 | 2.5 +/- .3 | -1.3 +/- 2.2 | 2.99 | | .025 +/- .011 | .003 +/- .007 | |
| 2387 | 04-DEC-89 | 7 +/- 4 | 10 +/- 4 | 0.25 | -.1 +/- .2 | 0 +/- .002 | 0 +/- .004 | |
| 2387 | 20-FEB-90 | 3 +/- 3 | 4 +/- 1 | 3.6 | 0.1 +/- 0.3 | 0.000 +/- 0.001 | -0.001 +/- 0.003 | |
| 2387 | 09-NOV-90 | 7.902 +/- 3.17 | 3.084 +/- 1.57 | 3.0884 | .1273 +/- .294 | | | 297.8 +/- 211 |
| 2387 | 08-MAR-91 | 5.182 +/- 3.25 | 1.516 +/- 1.11 | 2.6641 | .2057 +/- .3 | | | 92.85 +/- 200 |
| 4386 | 29-JUL-87 | 5 +/- 25 | -14 +/- 42 | 1.2 | 1.2 | -.20 +/- .85 | .11 +/- .32 | 493 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0286 | 21-JUL-87 | 12 +/- 26 | 79 +/- 55 | 13.90 | 2.4 | -0.1 +/- 1.0 | | 475 |
| 0286 | 31-MAR-88 | 30 +/- 7 | 11 +/- 11 | 14.41 | | 0.00 +/- 0.15 | 0.00 +/- 0.34 | 200 |
| 0286 | 03-JUN-88 | 21 +/- 5 | 15 +/- 9 | 11.43 | | 0.00 +/- 0.04 | 0.02 +/- 0.10 | 210 |
| 0286 | 27-JUN-89 | 33.3 +/- 4.0 | 24.3 +/- 3.8 | | | | | |
| 0286 | 30-JUN-89 | 21 +/- 9 | 20 +/- 5 | 20.70 | -0.3 +/- 0.6 | 0.00 +/- 0.02 | 0.00 +/- 0.03 | |
| 0286 | 03-AUG-89 | 38 +/- 17 | 12 +/- 6 | | | | | |
| 0286 | 19-MAR-90 | 16.8 +/- 7.43232 | 10.01 +/- 3.60248 | 9.4215 | .01889 +/- .445704 | 0.0 +/- .0062681 | .002705 +/- .0159074 | |
| 0286 | 15-NOV-90 | | | | | | | 334.2 +/- 217 |
| 0374 | 23-JUL-87 | 6 +/- 22 | 25 +/- 41 | 2.2 | 1.0 | .10 +/- .69 | -.04 +/- .28 | 475 |
| 0374 | 23-OCT-87 | 250 +/- 52 | 327 +/- 20 | 2.32 | 1.0 | 0.00 +/- .10 | 0.00 +/- .08 | 520 |
| 0374 | 03-MAR-88 | 10 +/- 7 | 9 +/- 15 | 2.47 | | 0.00 +/- 0.16 | 0.00 +/- 0.25 | 210 |
| 0374 | 05-MAY-88 | 7 +/- 3 | 6 +/- 10 | 2.16 | | 0.01 +/- 0.04 | 0.00 +/- 0.10 | 220 |
| 0374 | 19-AUG-88 | 5 +/- 1 | 4 +/- 1 | 2.39 | | 0.03 +/- 0.04 | 0.03 +/- 0.08 | 230 +/- 90 |
| 0374 | 08-FEB-90 | 1.2 +/- 1.3 | 3.1 +/- 1.9 | 2.73 | | | | |
| 0374 | 01-AUG-90 | 18.46 +/- 7.08 | 5.176 +/- 2 | 2.4162 | .1728 +/- .165 | | | 353.3 +/- 210 |
| 0374 | 16-NOV-90 | 3.44 +/- 1.37 | 2.408 +/- 1.09 | 2.6161 | .4589 +/- .357 | | | 187.8 +/- 227 |
| 0374 | 24-APR-91 | | | | | | | 332.5 +/- 198 |
| 0386 | 24-JUL-87 | 27 +/- 25 | 17 +/- 43 | 7.1 | 2.1 | -.32 +/- .68 | .00 +/- .40 | 502 |
| 0386 | 15-DEC-87 | 42 +/- 13 | 40 +/- 12 | 4.67 | 1.0 | 0.00 +/- .14 | | 220 |
| 0386 | 31-MAR-88 | 17 +/- 5 | 10 +/- 11 | 7.59 | | 0.00 +/- 0.15 | 0.00 +/- 0.32 | 200 |
| 0386 | 03-JUN-88 | 24 +/- 6 | 18 +/- 8 | 7.82 | | 0.00 +/- 0.04 | 0.00 +/- 0.10 | 240 +/- 100 |
| 0386 | 06-OCT-88 | 14 +/- 2 | 9 +/- 2 | 6.21 | | 0.00 +/- 0.04 | 0.02 +/- 0.10 | 260 +/- 90 |
| 0386 | 21-DEC-88 | 6 +/- 2 | 10 +/- 2 | 7.17 | | -0.3 +/- .03 | 0.0 +/- .08 | |
| 0386 | 29-MAR-89 | 11 +/- 2 | 9 +/- 2 | | | | | |
| 0386 | 29-JUN-89 | 18 +/- 6 | 13 +/- 3 | 8.4 | 1.3 +/- 0.5 | 0.01 +/- 0.01 | 0.02 +/- 0.02 | 330 +/- 230 |
| 0386 | 12-JUL-89 | 22 +/- 12 | 13 +/- 4 | 8.6 | 0.1 +/- 0.5 | 0.00 +/- 0.01 | 0.00 +/- 0.01 | 170 +/- 150 |
| 0386 | 02-AUG-89 | 11 +/- 10 | 14 +/- 4 | | | | | |
| 0386 | 05-OCT-89 | 7.0 +/- 1.0 | 10.6 +/- 2.3 | 0.46 | 0.68 +/- 0.47 | 0.005 +/- 0.006 | 0.026 +/- 0.018 | 190 +/- 270 |
| 0386 | 18-DEC-89 | .6 +/- .7 | 4.2 +/- .8 | 0.1 | -.1 +/- .3 | .002 +/- .003 | .003 +/- .008 | |
| 0386 | 15-NOV-90 | 16.15 +/- 6.48 | 12.9 +/- 2.96 | 8.9351 | .2328 +/- .241 | | | 292.8 +/- 201 |
| 0386 | 14-MAR-91 | 4.849 +/- 2.02 | 5.831 +/- 1.72 | 9.2246 | .3271 +/- .339 | | | -77.9 +/- 207 |
| 0774 | 23-JUL-87 | -4 +/- 20 | 34 +/- 46 | 1.6 | 1.0 | 0.0 +/- 0.6 | .13 +/- .35 | 475 |
| 0774 | 05-NOV-87 | 1 +/- 6 | -4 +/- 9 | 2.08 | 1.0 | 0.00 +/- .20 | .01 +/- .07 | 460 |
| 2274 | 28-JUL-87 | -6 +/- 19 | 22 +/- 45 | 5.4 | 1.0 | -.23 +/- .93 | 1.4 +/- 5.2 | 478 |
| 2274 | 21-OCT-87 | 10 +/- 4 | 13 +/- 9 | 3.7 | 1.0 | 0.00 +/- .12 | 0.00 +/- .44 | 520 |
| 2274 | 01-DEC-89 | 5 +/- 3 | 5 +/- 3 | 0.44 | 0 +/- .12 | 0 +/- .002 | -.002 +/- .006 | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 2274 | 03-NOV-90 | 4.477 +/- 2.23 | 3.295 +/- 1.42 | 5.5102 | .003924 +/- .197 | | | 186.8 +/- 206 |
| 2587 | 22-OCT-87 | 4 +/- 16 | -12 +/- 37 | | | | | 520 |
| 2587 | 04-MAR-88 | 7 +/- 5 | -2 +/- 11 | 1.76 | | 0.00 +/- 0.19 | 0.00 +/- 0.46 | 210 |
| 2587 | 12-MAY-88 | 19 +/- 7 | 8 +/- 14 | 1.44 | | 0.01 +/- 0.04 | 0.00 +/- 0.09 | 200 |
| 2587 | 16-AUG-88 | 3 +/- 1 | 3 +/- 1 | 1.31 | | 0.01 +/- 0.04 | 0.07 +/- 0.08 | 210 |
| 2587 | 11-NOV-88 | 2 +/- 1 | 2 +/- 2 | | | | | 220 |
| 2587 | 16-FEB-89 | 2 +/- 3 | 1 +/- 2 | 1.89 | | 0.01 +/- 0.03 | -0.08 +/- 0.08 | 260 |
| 2587 | 09-MAY-89 | 1.8 +/- 1.1 | 7.4 +/- 2.5 | | | | | 260 |
| 2587 | 18-AUG-89 | 1.7 +/- .8 | 1.5 +/- 2.3 | 1.67 | | .006 +/- .005 | .014 +/- .020 | |
| 2587 | 01-FEB-90 | 5.1 +/- 1.1 | 3.0 +/- 1.8 | 3.14 | 0.17 +/- 0.28 | 0.010 +/- 0.005 | 0.009 +/- 0.006 | 220 +/- 140 |
| 2587 | 05-NOV-90 | 8.702 +/- 2.96 | 4.613 +/- 1.77 | 2.1187 | .5317 +/- .375 | | | 177.2 +/- 206 |
| 2587 | 09-MAR-91 | 2.023 +/- 1.71 | 1.809 +/- 1.18 | 1.661 | .3368 +/- .322 | | | -33.7 +/- 193 |
| 2787 | 23-AUG-88 | 6 +/- 2 | 8 +/- 2 | 4.92 | | 0.00 +/- 0.04 | 0.00 +/- 0.08 | 200 |
| 2787 | 17-NOV-88 | 7 +/- 2 | 8 +/- 2 | | | | | 240 |
| 2787 | 11-MAY-89 | 5.3 +/- 1.4 | 14.3 +/- 3.0 | | | | | 270 |
| 2787 | 22-AUG-89 | 5.4 +/- .7 | 8.2 +/- 2.8 | 4.9 | | .007 +/- .004 | | |
| 2787 | 05-DEC-89 | 9 +/- 3 | 4.6 +/- 1.5 | 0.45 | .04 +/- .18 | .010 +/- .004 | .001 +/- .004 | |
| 2787 | 12-MAR-90 | 11.4 +/- 2.7 | 7.3 +/- 2.3 | | 0.33 +/- 0.36 | 0.005 +/- 0.004 | | 100 +/- 150 |
| 2887 | 15-MAR-88 | 6 +/- 5 | 14 +/- 12 | 0.99 | | 0.00 +/- 0.23 | 0.00 +/- 0.29 | 210 |
| 2887 | 12-MAY-88 | 4 +/- 4 | -10 +/- 15 | 5.27 | | 0.00 +/- 0.03 | 0.01 +/- 0.07 | 220 |
| 2887 | 21-FEB-89 | 7 +/- 2 | 6 +/- 2 | 6.97 | | -0.02 +/- 0.03 | 0.05 +/- 0.05 | 260 |
| 2887 | 06-DEC-89 | 14.8 +/- 4.2 | 9.5 +/- 5.4 | 7.61 | | | | |
| 2887 | 28-NOV-90 | 11.96 +/- 5.79 | 3.573 +/- 1.22 | 9.642 | | | | |
| 2887 | 15-JAN-91 | 6.919 +/- 2.87 | 2.505 +/- 1.1 | 10.0789 | | | | |
| 3187 | 29-OCT-87 | 36 +/- 34 | 26 +/- 43 | | | | | 460 |
| 3187 | 10-MAR-88 | 14 +/- 8 | 15 +/- 16 | | | 0.00 +/- 0.11 | 0.00 +/- 0.17 | 220 |
| 3187 | 12-MAY-88 | 12 +/- 6 | 2 +/- 14 | 0.35 | | 0.00 +/- 0.04 | 0.03 +/- 0.09 | 200 |
| 3187 | 25-AUG-88 | 1 +/- 1 | 4 +/- 1 | 1.2 | | 0.00 +/- 0.04 | 0.08 +/- 0.08 | 200 |
| 3187 | 22-NOV-88 | 1 +/- 1 | 4 +/- 2 | | | | | 240 |
| 3187 | 23-FEB-89 | 2 +/- 1 | 4 +/- 2 | 1.53 | | 0.00 +/- 0.03 | -0.04 +/- 0.08 | 260 |
| 3187 | 11-MAY-89 | 1.9 +/- 1.0 | 5.4 +/- 2.6 | | | | | 270 |
| 3187 | 14-DEC-89 | 3.6 +/- 1.8 | 1.7 +/- 0.8 | 1.87 | 0 +/- .5 | .005 +/- .004 | .002 +/- .007 | |
| 3187 | 18-SEP-90 | 44.73 +/- 11.2 | 9.567 +/- 1.85 | 3.8556 | .317 +/- .365 | | | -35.2 +/- 213 |
| 3187 | 21-NOV-90 | 1.233 +/- .837 | 2.639 +/- 1.07 | 1.2344 | .5851 +/- .431 | | | -109 +/- 197 |
| 3187 | 11-JAN-91 | .8572 +/- .997 | 2.07 +/- .999 | 1.1908 | -.0149 +/- .296 | | | -106 +/- 208 |
| 3287 | 27-OCT-87 | 78 +/- 50 | 61 +/- 48 | | | | | 460 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 3287 | 10-MAR-88 | 15 +/- 9 | 7 +/- 19 | 2.83 | | 0.00 +/- 0.13 | | 200 |
| 3287 | 12-MAY-88 | 19 +/- 6 | 4 +/- 14 | 4.88 | | 0.00 +/- 0.04 | 0.10 +/- 0.09 | 200 |
| 3287 | 23-AUG-88 | 4 +/- 1 | 5 +/- 1 | 3.26 | | 0.00 +/- 0.04 | 0.00 +/- 0.08 | 200 |
| 3287 | 17-NOV-88 | 6 +/- 2 | 6 +/- 2 | | | | | 220 |
| 3287 | 23-FEB-89 | 4 +/- 1 | 4 +/- 2 | 3.45 | | 0.01 +/- 0.03 | -0.08 +/- 0.08 | 250 |
| 3287 | 12-DEC-89 | 11 +/- 7 | 5 +/- 6 | 3.26 | .3 +/- .2 | .002 +/- .004 | .003 +/- .005 | |
| 3287 | 21-FEB-90 | 5 +/- 4 | 3.5 +/- 1.8 | 2.9 | .2 +/- .3 | -.002 +/- .004 | .013 +/- .010 | |
| 3287 | 29-NOV-90 | 2.859 +/- 1.9 | 2.256 +/- 1.05 | 3.38 | .2597 +/- .385 | | | 308.9 +/- 210 |
| 3287 | 15-JAN-91 | 6.722 +/- 2.74 | 6.898 +/- 2.74 | 3.564 | .124 +/- .268 | | | 157.4 +/- 211 |
| 3487 | 10-MAR-88 | 4 +/- 10 | 16 +/- 16 | 3.11 | | 0.00 +/- 0.15 | 0.00 +/- 0.24 | 200 |
| 3487 | 12-MAY-88 | 6 +/- 4 | 4 +/- 8 | 3.54 | | 0.00 +/- 0.03 | 0.00 +/- 0.09 | 210 |
| 3487 | 21-FEB-89 | 4 +/- 2 | 3 +/- 3 | 3.24 | | -0.02 +/- 0.03 | 0.01 +/- 0.05 | 260 |
| 3487 | 24-AUG-89 | 4.2 +/- .9 | 5.0 +/- 2.4 | 4.73 | | | | |
| 3487 | 13-DEC-89 | 3.0 +/- 1.9 | 17.8 +/- 6.0 | 3.4 | 0.69 +/- 0.78 | 0.030 +/- 0.009 | | -50 +/- 100 |
| 3487 | 21-MAR-90 | 4.066 +/- 1.93844 | 4.996 +/- 1.257732 | 2.9854 | -.04399 +/- .153566 | .003687 +/- .0043394 | .01093 +/- .0122559 | |
| 3487 | 28-NOV-90 | 2.148 +/- 1.07 | 3.451 +/- 1.14 | 9.5145 | | | | -214 +/- 198 |
| 3487 | 15-JAN-91 | 4.865 +/- 2.41 | 2.361 +/- 1.07 | 2.4574 | | | | |
| 3687 | 06-NOV-87 | 2 +/- 20 | -6 +/- 39 | | | | | |
| 3687 | 10-MAR-88 | 17 +/- 7 | 23 +/- 14 | 1.8 | | 0.00 +/- 0.12 | 0.00 +/- 0.15 | 210 +/- 92 |
| 3687 | 05-MAY-88 | 10 +/- 4 | 21 +/- 11 | 1.1 | | 0.00 +/- 0.05 | | 220 |
| 3687 | 19-AUG-88 | 2 +/- 1 | 2 +/- 1 | 1.42 | | 0.03 +/- 0.04 | 0.04 +/- 0.08 | 310 +/- 90 |
| 3687 | 10-NOV-88 | 3 +/- 1 | 3 +/- 2 | | | | | 240 |
| 3687 | 16-FEB-89 | 4 +/- 3 | 2 +/- 2 | 2.33 | | 0.02 +/- 0.03 | 0.00 +/- 0.05 | 260 |
| 3687 | 09-MAY-89 | 3.9 +/- 1.5 | 6.1 +/- 2.6 | | | | | 270 |
| 3687 | 22-AUG-89 | 1.5 +/- .5 | 3.1 +/- 2.5 | 2.34 | | .013 +/- .004 | | |
| 3687 | 05-MAR-90 | 7 +/- 3 | 1 +/- 1 | 3.2 | -0.3 +/- 0.2 | 0.001 +/- 0.008 | 0.015 +/- 0.014 | |
| 3687 | 29-AUG-90 | 10.9 +/- 3.91 | 2.367 +/- 1.07 | 2.0692 | .6382 +/- .427 | | | 354.7 +/- 229 |
| 3687 | 12-NOV-90 | 1.528 +/- 1.84 | 2.97 +/- 1.63 | 1.7865 | .3925 +/- .355 | | | 242.8 +/- 208 |
| 3687 | 08-MAR-91 | 2.275 +/- 1.77 | .509 +/- .833 | 2.1441 | .3332 +/- .322 | | | 104.5 +/- 201 |
| 3986 | 24-JUL-87 | 4 +/- 21 | 21 +/- 43 | 3 | 1.2 | -.05 +/- .60 | .38 +/- .53 | 502 |
| 3986 | 12-DEC-87 | 25 +/- 8 | 32 +/- 13 | 2.27 | 1.4 | 0.00 +/- .18 | 0.00 +/- .10 | 210 |
| 3986 | 10-MAR-88 | 26 +/- 11 | 24 +/- 18 | 2.47 | | 0.00 +/- 0.1 | 0.00 +/- 0.07 | 200 |
| 3986 | 05-MAY-88 | 7 +/- 4 | 9 +/- 10 | 2.51 | | 0.00 +/- 0.03 | 0.03 +/- 0.10 | 220 |
| 3986 | 19-AUG-88 | 4 +/- 1 | 4 +/- 1 | 2.63 | | 0.02 +/- 0.04 | 0.07 +/- 0.08 | 200 |
| 3986 | 10-NOV-88 | 3 +/- 2 | 6 +/- 2 | | | | | 240 |
| 3986 | 16-FEB-89 | 3 +/- 3 | 2 +/- 2 | 2.97 | | 0.01 +/- 0.03 | 0.00 +/- 0.04 | 260 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 3986 | 09-MAY-89 | 2.1 +/- .8 | 4.3 +/- 2.6 | | | | | 260 |
| 3986 | 16-AUG-89 | 1.8 +/- .7 | 2.2 +/- 2.3 | 10.29 | | .003 +/- .005 | .015 +/- .017 | |
| 3986 | 21-FEB-90 | 3 +/- 3 | 2.2 +/- 1.2 | 4.02 | 0 +/- .3 | .001 +/- .004 | -.003 +/- .008 | |
| 3986 | 01-NOV-90 | 5.409 +/- 2.2 | 2.733 +/- 1.44 | 4.0747 | | | | 232.9 +/- 203 |
| 3986 | 19-MAR-91 | 5.151 +/- 3.13 | 2.267 +/- 1 | 6.3917 | | | | 21.45 +/- 195 |
| 4086 | 27-OCT-87 | 106 +/- 18 | 207 +/- 15 | 6.89 | 1.0 | 0.00 +/- .14 | 0.00 +/- 1.6 | 460 |
| 4086 | 11-MAR-88 | 46 +/- 16 | 23 +/- 16 | 6.55 | | 0.00 +/- 0.11 | 0.00 +/- 0.53 | 220 |
| 4086 | 12-MAY-88 | 17 +/- 6 | 2 +/- 14 | 4.92 | | 0.00 +/- 0.03 | 0.00 +/- 0.09 | 210 |
| 4086 | 11-MAY-89 | 6.3 +/- 1.4 | 5.4 +/- 2.7 | | | | | 270 |
| 4086 | 13-DEC-89 | 26.7 +/- 4.3 | 35.2 +/- 3.8 | 3.45 | 0.77 +/- 0.52 | 0.011 +/- 0.006 | 0.010 +/- 0.009 | -10 +/- 90 |
| 4086 | 19-FEB-90 | 2 +/- 2 | 4.8 +/- 1.3 | 3.61 | .3 +/- .4 | | | |
| 4086 | 20-SEP-90 | 3.893 +/- 3.05 | 7.363 +/- 2.19 | 2.6745 | | | | |
| 4086 | 28-NOV-90 | 3.818 +/- 3.15 | 3.744 +/- 1.22 | 2.955 | | | | -72.2 +/- 206 |
| 4086 | 11-JAN-91 | 2.358 +/- 1.41 | 5.058 +/- 1.99 | 3.0584 | | | | 18.24 +/- 204 |
| 4186 | 21-JUL-87 | 0 +/- 24 | 85 +/- 48 | 2 | 1.2 | -.04 +/- .66 | .27 +/- .57 | 475 |
| 4186 | 23-OCT-87 | 11 +/- 7 | 21 +/- 10 | 3.13 | 1.0 | 0.00 +/- .11 | 0.00 +/- .15 | 520 |
| 4186 | 11-MAR-88 | 19 +/- 8 | 31 +/- 15 | 3.48 | | 0.00 +/- 0.11 | 0.00 +/- 0.26 | 220 |
| 4186 | 05-MAY-88 | 9 +/- 4 | 16 +/- 10 | 3.76 | | 0.00 +/- 0.03 | | 200 |
| 4186 | 22-NOV-88 | 4 +/- 2 | 6 +/- 2 | | | | | 240 |
| 4186 | 21-FEB-89 | 5 +/- 2 | 5 +/- 2 | 3.96 | | 0.00 +/- 0.03 | 0.03 +/- 0.10 | 260 |
| 4186 | 11-MAY-89 | 3.2 +/- 1.6 | 7.8 +/- 2.6 | | | | | 270 |
| 4186 | 07-DEC-89 | 4.2 +/- 1.6 | 2.9 +/- 1.9 | 0.67 | 0.96 +/- 0.72 | | | 10 +/- 270 |
| 4186 | 19-FEB-90 | 2 +/- 3 | .4 +/- 1.3 | 1.7 | 0 +/- .2 | .001 +/- .004 | 0 +/- .007 | |
| 4186 | 20-NOV-90 | 2.009 +/- 1.04 | 3.138 +/- 1.29 | 2.8832 | .09401 +/- .293 | | | -20.4 +/- 201 |
| 4186 | 10-JAN-91 | 2.157 +/- 1.73 | 2.252 +/- 1.23 | 2.8058 | | | | 37.44 +/- 205 |
| 4286 | 24-JUL-87 | 215 +/- 157 | 144 +/- 62 | 2.8 | 1.0 | .36 +/- .74 | 0.0 +/- 2.8 | 502 |
| 4286 | 15-OCT-87 | 12 +/- 5 | 7 +/- 9 | 1.98 | 1.3 | 0.00 +/- .08 | 0.00 +/- .06 | 560 +/- 290 |
| 4286 | 04-MAR-88 | 5 +/- 5 | -5 +/- 9 | 2.05 | | 0.18 +/- 0.13 | 0.00 +/- 1.2 | 200 |
| 4286 | 05-MAY-88 | 7 +/- 3 | 10 +/- 11 | 1.95 | | 0.00 +/- 0.03 | | 220 |
| 4286 | 25-AUG-88 | 4 +/- 1 | 4 +/- 1 | 1.82 | | 0.00 +/- 0.04 | 0.01 +/- 0.08 | 200 |
| 4286 | 17-NOV-88 | 4 +/- 2 | 4 +/- 2 | | | | | 230 |
| 4286 | 21-FEB-89 | 1 +/- 1 | 2 +/- 2 | 2.45 | | 0.01 +/- 0.03 | -0.02 +/- 0.13 | 260 |
| 4286 | 09-MAY-89 | 3.0 +/- 1.4 | 3.9 +/- 2.6 | | | | | 260 |
| 4286 | 18-AUG-89 | .9 +/- 1.2 | 4.0 +/- 2.4 | 1.77 | | .010 +/- .005 | | |
| 4286 | 30-JAN-90 | 42.2 +/- 14.7 | 32.1 +/- 15.1 | 1.53 | 0.05 +/- 0.41 | 0.006 +/- 0.004 | 0.007 +/- 0.006 | |
| 4286 | 16-NOV-90 | 1.242 +/- .891 | 1.216 +/- .901 | 2.5901 | .6548 +/- .42 | | | -113 +/- 213 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Dissolved Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 4286 | 08-MAR-91 | .7332 +/- 1.68 | 2.341 +/- 1.08 | 2.0351 | .05043 +/- .29 | | | 11.61 +/- 196 |
| 6786 | 21-JUL-87 | 19 +/- 33 | 49 +/- 44 | 1.6 | 1.1 | .25 +/- .80 | 0.6 +/- 1.4 | 475 |
| 6786 | 08-FEB-90 | 0.4 +/- 1.3 | 0.8 +/- 1.8 | 2.57 | 0.06 +/- 0.49 | 0.003 +/- 0.006 | 0.007 +/- 0.006 | 370 +/- 140 |
| B218789 | 22-OCT-90 | 3.535 +/- 2.6 | 1.198 +/- .889 | 1.67 | .1185 +/- .291 | | | -21.6 +/- 205 |
| B218789 | 08-MAR-91 | 3.55 +/- 2.13 | 1.584 +/- .927 | 1.6225 | .543 +/- .395 | | | 107.4 +/- 201 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

# GROUND-WATER SAMPLING RESULTS
# TOTAL RADIONUCLIDES

Ground Water Total Radiochemistry Results
903 Pad Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0171 | __-AUG-86 | 6 +/- 3 | 6 +/- 3 | 6.4 | | -0.01 +/- 0.07 | 0.04 +/- 0.07 | 250 +/- 230 |
| 0171 | 09-MAR-87 | 20 +/- 5 | 14 +/- 1 | 5.65 | 1.0 | 0.91 +/- 0.63 | 0.0 +/- 1.8 | 110 |
| 0171 | 30-APR-87 | 29 +/- 28 | 0 +/- 22 | 2.36 | | .05 +/- 1.5 | 0.0 +/- 2.6 | 290 |
| 0171 | 01-MAY-87 | 29 +/- 28 | 0 +/- 22 | 2.36 | 0.6 | 0.05 +/- 1.5 | 0.0 +/- 2.6 | 290 |
| 0171 | 21-MAY-87 | 8 +/- 13 | 26 +/- 24 | 4.97 | 1.0 | 0.0 +/- 0.59 | 0.0 +/- 1.3 | 110 |
| 0171 | 02-MAY-89 | 7.7 +/- 1.0 | 9.4 +/- 2.7 | | | | | |
| 0171 | 23-FEB-90 | | | | | | | 274.1064 +/- 155.621 |
| 0171 | 20-NOV-90 | | | | | .02753 +/- .00891 | .009608 +/- .0058 | |
| 0271 | __-AUG-86 | 350 +/- 500 | 1000 +/- 900 | 30 | | 32 +/- 3 | 4.4 +/- 2.3 | -20 +/- 220 |
| 0271 | 11-MAR-87 | 93 +/- 18 | 86 +/- 20 | 6.4 | 3.6 | 1.9 +/- 1.0 | 0.4 +/- 4.0 | 110 |
| 0271 | 09-APR-87 | 10 +/- 14 | 14 +/- 7 | 6.45 | .55 | .22 +/- .95 | 0.0 +/- 3.7 | 170 |
| 0271 | 21-MAY-87 | -5.0 +/- 13 | 23 +/- 38 | 5.51 | 2.28 | 0.02 +/- 0.76 | 0.0 +/- 1.2 | 110 |
| 0271 | 26-FEB-90 | +1.511 +/- +3.563E+0 | +4.849 +/- +2.299E+0 | 14.868 | | | | |
| 0271 | 21-NOV-90 | | | | | .03263 +/- .0128 | .01295 +/- .00782 | |
| 1287 | 14-JUN-90 | 83.4 +/- 19.0 | 40.1 +/- 6.9 | | | | | |
| 1287 | 20-SEP-90 | | | | | .003362 +/- .0039 | .001477 +/- .00296 | |
| 1487 | 25-APR-89 | 1.0 +/- .6 | 3.6 +/- 2.5 | | | | | |
| 1487 | 14-JUN-90 | 9.0 +/- 2.5 | 6.7 +/- 2.2 | | | | | |
| 1487 | 18-SEP-90 | | | | | .005917 +/- .00536 | .004025 +/- .00458 | |
| 1487 | 20-NOV-90 | | | | | .003907 +/- .0031 | .001774 +/- .00282 | |
| 1487 | 11-JAN-91 | | | | | .001073 +/- .00215 | .004685 +/- .00771 | |
| 1587 | 03-AUG-89 | .7 +/- .6 | 3.2 +/- 2.3 | | | | | |
| 1587 | 25-JUN-90 | 17.0 +/- 4.2 | 80.0 +/- 14.4 | 1.95 | 0.18 +/- 0.14 | | | 380 +/- 181 |
| 1587 | 27-NOV-90 | | | | | .000415 +/- .000831 | .02079 +/- .01 | |
| 1687 | 02-MAY-89 | 4.4 +/- 1.0 | 8.3 +/- 2.6 | | | | | |
| 1687 | 03-AUG-89 | 4.4 +/- 1.2 | 4.6 +/- 2.5 | | | | | |
| 1687 | 28-NOV-90 | | | | | .005302 +/- .00477 | .005161 +/- .00733 | |
| 1687 | 09-JAN-91 | | | | | .01918 +/- .00869 | .008131 +/- .00581 | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Total Radiochemistry Results
Mound Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0174 | __-AUG-86 | 9 +/- 5 | 3 +/- 3 | 3.2 | | 0.03 +/- 0.10 | 0.04 +/- 0.50 | 260 +/- 230 |
| 0174 | __-NOV-86 | 6 +/- 4 | 3 +/- 3 | 2.2 | | -0.07 +/- 0.12 | 0.08 +/- 0.10 | 230 +/- 250 |
| 0174 | 11-MAR-87 | 24 +/- 5 | 11 +/- 10 | 1.71 | 0.8 | 0.0 +/- 0.65 | 0.0 +/- 1.2 | 260 |
| 0174 | 22-MAY-87 | -5 +/- 7 | 22 +/- 8 | 4.6 | 1.38 | 0.9 +/- 1.1 | 0.0 +/- 1.2 | 110 |
| 0174 | 04-MAY-89 | 4.1 +/- 1.2 | 7.5 +/- 2.7 | | | | | |
| 0174 | 15-NOV-90 | | | | | .007231 +/- .00517 | .002193 +/- .00221 | |
| 1787 | 04-MAY-89 | 2.3 +/- 1.1 | 9.2 +/- 2.9 | | | | | |
| 1787 | 10-AUG-89 | 2.1 +/- .8 | 2.8 +/- 2.5 | | | | | |
| 1787 | 06-JUN-90 | .9112 +/- 1.959412 | 2.981 +/- 1.220688 | 1.4112 | -.005775 +/- .14063 | .02318 +/- .0119344 | .01829 +/- .0057604 | |
| 1787 | 06-NOV-90 | | | | | .05563 +/- .0189 | .01525 +/- .0107 | |
| 1787 | 09-MAR-91 | | | | | .01831 +/- .0085 | .01198 +/- .0103 | |
| 1887 | 08-MAR-90 | +3.196 +/- +1.681E+0 | +4.451 +/- +1.235E+0 | | | | | |
| 1887 | 05-JUN-90 | 5.714 +/- 2.15012 | 3.28 +/- 1.241268 | | | | | |
| 2387 | 04-MAY-89 | 4.5 +/- .7 | 5.9 +/- 2.7 | | | | | |
| 2387 | 01-JUN-90 | | | 14.94 | 0.10 +/- 0.15 | 0.021 +/- 0.010 | 0.005 +/- 0.010 | 50 +/- 180 |
| 2387 | 09-NOV-90 | | | | | .001838 +/- .00185 | .002179 +/- .00358 | |
| 2387 | 08-MAR-91 | | | | | .009396 +/- .00601 | .003758 +/- .00436 | |
| 4386 | 11-MAR-87 | 20 +/- 11 | 22 +/- 8 | 2.6 | 0.9 | 0.23 +/- 0.59 | 0.0 +/- 1.4 | 110 |
| 4386 | 03-JUN-87 | 16 +/- 9 | 13 +/- 0 | 1.9 | 2.4 | 0.0 +/- 0.65 | 0.0 +/- 0.12 | 110 |
| 4386 | 05-JUN-90 | 3.3 +/- 1.0 | 3.4 +/- 1.9 | 2.44 | 0.34 +/- 0.18 | 0.001 +/- 0.002 | | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Total Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 34 +/- 14 | 25 +/- 0 | 16.42 | 1.63 | .72 +/- .93 | 0.8 +/- .96 | 110 |
| 0286 | 01-JUN-87 | 25 +/- 20 | 40 +/- 2 | 0.13 | 1.0 | 0.9 +/- 1.1 | 0.0 +/- 1.7 | 110 |
| 0286 | 27-JUN-89 | 33.3 +/- 4.0 | 24.3 +/- 3.8 | | | | | |
| 0286 | 07-JUN-90 | 12.09 +/- 4.95292 | 10.54 +/- 2.80672 | 8.8565 | -.02116 +/- .204624 | .01072 +/- .0105468 | .01322 +/- .0129732 | |
| 0374 | __-AUG-86 | 13 +/- 7 | 10 +/- 5 | -0.04 | | -0.16 +/- 0.31 | -0.01 +/- 0.09 | 250 +/- 220 |
| 0374 | 17-MAR-87 | 24 +/- 8 | 35 +/- 17 | 0.39 | 9.2 | 0.0 +/- 0.67 | 0.0 +/- 3.2 | 230 |
| 0374 | 03-JUN-87 | -2 +/- 9 | 29 +/- 19 | 1.53 | 1.0 | 0.0 +/- 0.79 | 0.0 +/- 1.2 | 110 |
| 0374 | 25-MAY-90 | 4.4 +/- 1.3 | 2.9 +/- 1.9 | 3.34 | 0.24 +/- 0.16 | 0.002 +/- 0.002 | 0.004 +/- 0.004 | 390 +/- 241 |
| 0374 | 01-AUG-90 | | | | | .01727 +/- .00654 | .003343 +/- .00301 | |
| 0374 | 16-NOV-90 | | | | | .0459 +/- .0155 | .005111 +/- .00442 | |
| 0386 | __-SEP-86 | 170 +/- 80 | 220 +/- 40 | 7 | | 0.01 +/- 0.07 | 0.02 +/- 0.13 | 160 +/- 230 |
| 0386 | 12-MAY-87 | 90 +/- 46 | 39 +/- 21 | 7.16 | 1.71 | 0.0 +/- .70 | 0.0 +/- 2.2 | 260 |
| 0386 | 08-JUN-87 | 33 +/- 0 | 35 +/- 0 | 6.8 | 1.0 | 0.0 +/- 0.59 | 0.1 +/- 1.5 | 320 |
| 0386 | 23-MAR-90 | 19.5 +/- 5.0 | 13.3 +/- 3.0 | 15.62 | 0.09 +/- 0.15 | -0.004 +/- 0.006 | 0.004 +/- 0.004 | 570 +/- 133 |
| 0386 | 08-JUN-90 | 10.05 +/- 3.51624 | 11.24 +/- 1.460396 | 7.9497 | -.09192 +/- .1868664 | .01126 +/- .0073853 | -.000553 +/- .005417 | |
| 0386 | 15-NOV-90 | | | | | 0 +/- .00498 | .002031 +/- .00237 | |
| 0386 | 14-MAR-91 | | | | | .004641 +/- .00418 | .007005 +/- .00814 | |
| 0774 | __-AUG-86 | 4 +/- 6 | 10 +/- 4 | 2 | | 0.06 +/- 0.08 | 0.10 +/- 0.06 | 230 +/- 210 |
| 0774 | 07-MAY-87 | 6 +/- 16 | 108 +/- 100 | 0.882 | 1.37 | .10 +/- .61 | 0.0 +/- 1.2 | 110 |
| 0774 | 28-MAY-87 | 27 +/- 31 | 79 +/- 22 | 1.4 | 1.0 | 0.03 +/- 0.76 | 0.0 +/- 1.2 | 110 |
| 2274 | __-SEP-86 | 13 +/- 7 | 12 +/- 4 | 6 | | 0.13 +/- 0.16 | 0.05 +/- 0.06 | 70 +/- 220 |
| 2274 | 13-MAR-87 | 17 +/- 4 | 12 +/- 15 | 3.73 | 3.8 | 0.0 +/- .63 | | 110 |
| 2274 | 21-MAY-87 | 22 +/- 13 | 36 +/- 22 | 0.97 | 1.0 | 0.00 +/- 0.70 | 0.0 +/- 1.2 | 110 |
| 2274 | 21-JUN-90 | 14.2 +/- 3.7 | 16.7 +/- 6.0 | | | 0.001 +/- 0.004 | | |
| 2274 | 03-NOV-90 | | | | | -.000694 +/- .00139 | .003436 +/- .00487 | |
| 2587 | 09-MAY-89 | 1.8 +/- 1.1 | 7.4 +/- 2.5 | | | | | |
| 2587 | 18-AUG-89 | 1.7 +/- .8 | 1.5 +/- 2.3 | | | | | |
| 2587 | 11-JUN-90 | 1.999 +/- 2.36376 | 1.944 +/- .978824 | 1.315 | -.04218 +/- .24402 | .00999 +/- .0078478 | .02259 +/- .0096785 | |
| 2587 | 05-NOV-90 | | | | | .03638 +/- .013 | .005517 +/- .00705 | |
| 2587 | 09-MAR-91 | | | | | .003675 +/- .00369 | .001032 +/- .00358 | |
| 2787 | 11-MAY-89 | 5.3 +/- 1.4 | 14.3 +/- 3.0 | | | | | |
| 2787 | 22-AUG-89 | 5.4 +/- .7 | 8.2 +/- 2.8 | | | | | |
| 3187 | 11-MAY-89 | 1.9 +/- 1.0 | 5.4 +/- 2.6 | | | | | |
| 3187 | 18-SEP-90 | | | | | -.000358 +/- .000718 | .00177 +/- .00355 | |
| 3187 | 21-NOV-90 | | | | | .00377 +/- .00269 | .001948 +/- .00227 | |
| 3187 | 11-JAN-91 | | | | | 0 +/- .00316 | .0006433 +/- .00273 | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes

_=Missing Data

Ground Water Total Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 0286 | 11-MAY-87 | 34 +/- 14 | 25 +/- 0 | 16.42 | 1.63 | .72 +/- .93 | 0.8 +/- .96 | 110 |
| 0286 | 01-JUN-87 | 25 +/- 20 | 40 +/- 2 | 0.13 | 1.0 | 0.9 +/- 1.1 | 0.0 +/- 1.7 | 110 |
| 0286 | 27-JUN-89 | 33.3 +/- 4.0 | 24.3 +/- 3.8 | | | | | |
| 0286 | 07-JUN-90 | 12.09 +/- 4.95292 | 10.54 +/- 2.80672 | 8.8565 | -.02116 +/- .204624 | .01072 +/- .0105468 | .01322 +/- .0129732 | |
| 0374 | __-AUG-86 | 13 +/- 7 | 10 +/- 5 | -0.04 | | -0.16 +/- 0.31 | -0.01 +/- 0.09 | 250 +/- 220 |
| 0374 | 17-MAR-87 | 24 +/- 8 | 35 +/- 17 | 0.39 | 9.2 | 0.0 +/- 0.67 | 0.0 +/- 3.2 | 230 |
| 0374 | 03-JUN-87 | -2 +/- 9 | 29 +/- 19 | 1.53 | 1.0 | 0.0 +/- 0.79 | 0.0 +/- 1.2 | 110 |
| 0374 | 25-MAY-90 | 4.4 +/- 1.3 | 2.9 +/- 1.9 | 3.34 | 0.24 +/- 0.16 | 0.002 +/- 0.002 | 0.004 +/- 0.004 | 390 +/- 241 |
| 0374 | 01-AUG-90 | | | | | .01727 +/- .00654 | .003343 +/- .00301 | |
| 0374 | 16-NOV-90 | | | | | .0459 +/- .0155 | .005111 +/- .00442 | |
| 0386 | __-SEP-86 | 170 +/- 80 | 220 +/- 40 | 7 | | 0.01 +/- 0.07 | 0.02 +/- 0.13 | 160 +/- 230 |
| 0386 | 12-MAY-87 | 90 +/- 46 | 39 +/- 21 | 7.16 | 1.71 | 0.0 +/- .70 | 0.0 +/- 2.2 | 260 |
| 0386 | 08-JUN-87 | 33 +/- 0 | 35 +/- 0 | 6.8 | 1.0 | 0.0 +/- 0.59 | 0.1 +/- 1.5 | 320 |
| 0386 | 23-MAR-90 | 19.5 +/- 5.0 | 13.3 +/- 3.0 | 15.62 | 0.09 +/- 0.15 | -0.004 +/- 0.006 | 0.004 +/- 0.004 | 570 +/- 133 |
| 0386 | 08-JUN-90 | 10.05 +/- 3.51624 | 11.24 +/- 1.460396 | 7.9497 | -.09192 +/- .1868664 | .01126 +/- .0073853 | -.000553 +/- .005417 | |
| 0386 | 15-NOV-90 | | | | | 0 +/- .00498 | .002031 +/- .00237 | |
| 0386 | 14-MAR-91 | | | | | .004641 +/- .00418 | .007005 +/- .00814 | |
| 0774 | __-AUG-86 | 4 +/- 6 | 10 +/- 4 | 2 | | 0.06 +/- 0.08 | 0.10 +/- 0.06 | 230 +/- 210 |
| 0774 | 07-MAY-87 | 6 +/- 16 | 108 +/- 100 | 0.882 | 1.37 | .10 +/- .61 | 0.0 +/- 1.2 | 110 |
| 0774 | 28-MAY-87 | 27 +/- 31 | 79 +/- 22 | 1.4 | 1.0 | 0.03 +/- 0.76 | 0.0 +/- 1.2 | 110 |
| 2274 | __-SEP-86 | 13 +/- 7 | 12 +/- 4 | 6 | | 0.13 +/- 0.16 | 0.05 +/- 0.06 | 70 +/- 220 |
| 2274 | 13-MAR-87 | 17 +/- 4 | 12 +/- 15 | 3.73 | 3.8 | 0.0 +/- .63 | | 110 |
| 2274 | 21-MAY-87 | 22 +/- 13 | 36 +/- 22 | 0.97 | 1.0 | 0.00 +/- 0.70 | 0.0 +/- 1.2 | 110 |
| 2274 | 21-JUN-90 | 14.2 +/- 3.7 | 16.7 +/- 6.0 | | | 0.001 +/- 0.004 | | |
| 2274 | 03-NOV-90 | | | | | -.000694 +/- .00139 | .003436 +/- .00487 | |
| 2587 | 09-MAY-89 | 1.8 +/- 1.1 | 7.4 +/- 2.5 | | | | | |
| 2587 | 18-AUG-89 | 1.7 +/- .8 | 1.5 +/- 2.3 | | | | | |
| 2587 | 11-JUN-90 | 1.999 +/- 2.36376 | 1.944 +/- .978824 | 1.315 | -.04218 +/- .24402 | .00999 +/- .0078478 | .02259 +/- .0096785 | |
| 2587 | 05-NOV-90 | | | | | .03638 +/- .013 | .005517 +/- .00705 | |
| 2587 | 09-MAR-91 | | | | | .003675 +/- .00369 | .001032 +/- .00358 | |
| 2787 | 11-MAY-89 | 5.3 +/- 1.4 | 14.3 +/- 3.0 | | | | | |
| 2787 | 22-AUG-89 | 5.4 +/- .7 | 8.2 +/- 2.8 | | | | | |
| 3187 | 11-MAY-89 | 1.9 +/- 1.0 | 5.4 +/- 2.6 | | | | | |
| 3187 | 18-SEP-90 | | | | | -.000358 +/- .000718 | .00177 +/- .00355 | |
| 3187 | 21-NOV-90 | | | | | .00377 +/- .00269 | .001948 +/- .00227 | |
| 3187 | 11-JAN-91 | | | | | 0 +/- .00316 | .0006433 +/- .00273 | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Total Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 3287 | 22-JUN-90 | 25.2 +/- 7.9 | 27.0 +/- 18.1 | 8.19 | 0.23 +/- 0.16 | 0.001 +/- 0.002 | -0.002 +/- 0.002 | 490 +/- 192 |
| 3287 | 29-NOV-90 | | | | | .000529 +/- .00224 | .0006988 +/- .00297 | |
| 3287 | 15-JAN-91 | | | | | .001176 +/- .00235 | .0008169 +/- .00225 | |
| 3487 | 24-AUG-89 | 4.2 +/- .9 | 5.0 +/- 2.4 | | | | | |
| 3687 | 09-MAY-89 | 3.9 +/- 1.5 | 6.1 +/- 2.6 | | | | | |
| 3687 | 05-JUN-90 | 5.1 +/- 1.4 | 3.5 +/- 1.9 | 2.84 | 0.30 +/- 0.22 | 0.006 +/- 0.006 | 0.004 +/- 0.004 | 350 +/- 171 |
| 3687 | 29-AUG-90 | | | | | .0008621 +/- .00173 | .0008876 +/- .00244 | |
| 3687 | 12-NOV-90 | | | | | .0009372 +/- .00133 | .002632 +/- .00373 | |
| 3687 | 08-MAR-91 | | | | | .05767 +/- .0218 | .00373 +/- .00614 | |
| 3986 | __-SEP-86 | 44 +/- 21 | 39 +/- 13 | 3.7 | | 0.00 +/- 0.09 | -0.01 +/- 0.03 | 180 +/- 220 |
| 3986 | 06-MAY-87 | 0 +/- 0 | 27 +/- 18 | 3.2 | 0.6 | 0.0 +/- .57 | 0.0 +/- 2.6 | 250 |
| 3986 | 03-JUN-87 | 0 +/- 7 | 6 +/- 5 | 1.8 | 1.0 | 0.21 +/- 0.73 | 0.0 +/- 1.2 | 110 |
| 3986 | 09-MAY-89 | 2.1 +/- .8 | 4.3 +/- 2.6 | | | | | |
| 3986 | 16-AUG-89 | 1.8 +/- .7 | 2.2 +/- 2.3 | | | | | |
| 3986 | 04-JUN-90 | 5.1 +/- 1.4 | 4.6 +/- 1.9 | 4.45 | 0.30 +/- 0.17 | 0.003 +/- 0.004 | | 290 +/- 171 |
| 3986 | 01-NOV-90 | | | | | | .003735 +/- .00477 | |
| 3986 | 19-MAR-91 | | | | | -.000211 +/- .000423 | 0 +/- .00753 | |
| 4086 | 06-MAY-87 | 33 +/- 13 | 41 +/- 21 | 10.39 | .66 | .24 +/- .73 | 1.0 +/- 4.6 | 110 |
| 4086 | 11-MAY-89 | 6.3 +/- 1.4 | 5.4 +/- 2.7 | | | | | |
| 4186 | __-SEP-86 | 140 +/- 40 | 94 +/- 18 | 6.6 | | 0.01 +/- 0.08 | -0.03 +/- 0.10 | 130 +/- 220 |
| 4186 | 06-MAY-87 | 36 +/- 13 | 53 +/- 31 | 3.7 | 4.56 | 0.0 +/- .85 | | 220 |
| 4186 | 01-JUN-87 | 8 +/- 12 | 30 +/- 20 | 2.1 | 1.0 | | 0.0 +/- 1.2 | 110 |
| 4186 | 11-MAY-89 | 3.2 +/- 1.6 | 7.8 +/- 2.6 | | | | | |
| 4186 | 22-JUN-90 | 16.2 +/- 4.2 | 9.1 +/- 2.6 | 6.71 | 0.23 +/- 0.18 | 0.002 +/- 0.004 | 0.007 +/- 0.010 | 480 +/- 192 |
| 4186 | 20-NOV-90 | | | | | .001349 +/- .00191 | .005358 +/- .00383 | |
| 4186 | 10-JAN-91 | | | | | .0008898 +/- .00178 | .02087 +/- .0188 | |
| 4286 | __-SEP-86 | 130 +/- 70 | 180 +/- 40 | 9.8 | | 0.50 +/- 0.16 | 0.07 +/- 0.16 | 210 +/- 230 |
| 4286 | 12-MAR-87 | 52 +/- 18 | 54 +/- 32 | 2.79 | 0.9 | 0.12 +/- 0.48 | 0.3 +/- 4.2 | 110 |
| 4286 | 26-MAY-87 | 371 +/- 90 | 213 +/- 36 | 1.4 | 1.0 | 0.0 +/- 0.55 | 0.0 +/- 0.12 | 110 |
| 4286 | 09-MAY-89 | 3.0 +/- 1.4 | 3.9 +/- 2.6 | | | | | |
| 4286 | 18-AUG-89 | .9 +/- 1.2 | 4.0 +/- 2.4 | | | | | |
| 4286 | 11-JUN-90 | 1.754 +/- 1.97372 | 2.361 +/- 1.110144 | 1.7619 | -.00348 +/- .235788 | .01607 +/- .0075989 | .0224 +/- .0099548 | |
| 4286 | 16-NOV-90 | | | | | .2152 +/- .073 | .0365 +/- .0115 | |
| 4286 | 08-MAR-91 | | | | | .00396 +/- .00426 | .005284 +/- .0075 | |
| 6786 | __-NOV-86 | 82 +/- 48 | 120 +/- 30 | 3.6 | | 0.22 +/- 0.24 | 0.00 +/- 0.08 | 150 +/- 250 |
| 6786 | 11-MAY-87 | 34 +/- 22 | 25 +/- 17 | 3.5 | 2.32 | 0.0 +/- .74 | 0.6 +/- 1.4 | 270 |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

Ground Water Total Radiochemistry Results
East Trenches Area
Results reported in pCi/l

| Well Number | Date Sampled | Gross Alpha | Gross Beta | Uranium Total* | Strontium 90 | Plutonium 239/240 | Americium 241 | Tritium |
|---|---|---|---|---|---|---|---|---|
| 6786 | 01-JUN-87 | 6 +/- 9 | 40 +/- 8 | 3.4 | 1.0 | 0.0 +/- 0.62 | 0.0 +/- 1.2 | 420 |
| 6786 | 12-JUN-90 | 3.852 +/- 2.58524 | 3.256 +/- 1.13288 | 3.2891 | -.02858 +/- .183554 | .005964 +/- .0043943 | .002452 +/- .0048059 | |
| B218789 | 25-MAY-90 | 4.1 +/- 1.2 | 3.0 +/- 1.9 | 2.28 | 0.16 +/- 0.16 | 0.004 +/- 0.004 | 0.010 +/- 0.008 | 210 +/- 230 |
| B218789 | 22-OCT-90 | | | | | .005345 +/- .00439 | 0 +/- .00565 | |
| B218789 | 08-MAR-91 | | | | | .06255 +/- .0206 | .02432 +/- .0161 | |

The table format is: result +/- counting error

*=sum of all Uranium isotopes (U233-234,U235,U238)

# APPENDIX B-2

## GROUND-WATER SAMPLING RESULTS
## SUMMARY TABLES

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# GROUND WATER SAMPLING RESULTS
# SUMMARY TABLES FOR VOLATILE ORGANIC COMPOUNDS

Summary Table for Ground-Water Volatile Organic Contaminants
903 Pad Area
Results reported in ug/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 86 | 86 | 0 | 14.51 | 10 U | |
| Bromomethane | 86 | 86 | 0 | 14.51 | 10 U | |
| Vinyl Chloride | 86 | 85 | 1 | 14.47 | 1 J | 1 J |
| Chloroethane | 86 | 86 | 0 | 14.51 | 10 U | |
| Methylene Chloride | 86 | 50 | 36 | 8.63 | 1 J | 110 BJ |
| Acetone | 86 | 68 | 18 | 15.27 | 2 BJ | 45 BJ |
| Carbon Disulfide | 86 | 83 | 3 | 7.23 | 2 J | 3 J |
| 1,1-Dichloroethene | 100 | 66 | 34 | 17.56 | 1 J | 673 |
| 1,1-Dichloroethane | 86 | 76 | 10 | 8.53 | 2 J | 38 |
| Trans-1,2-Dichloroethene | 14 | 11 | 3 | 19.29 | 5 U | 140 J |
| 1,2-Dichloroethene (total) | 92 | 69 | 23 | 21.78 | 1 J | 380 |
| Chloroform | 100 | 26 | 74 | 76.02 | 2 J | 1525 |
| 1,2-Dichloroethane | 100 | 96 | 4 | 9.20 | 2 J | 400 |
| 2-Butanone | 86 | 83 | 3 | 15.62 | 4 J | 150 B |
| 1,1,1-Trichloroethane | 100 | 73 | 27 | 33.49 | 1 J | 2892 |
| Carbon Tetrachloride | 100 | 34 | 66 | 624.8 | 4 U | 6400 DE |
| Vinyl Acetate | 86 | 86 | 0 | 14.51 | 10 U | |
| Bromodichloromethane | 86 | 85 | 1 | 7.22 | 1 J | 1 J |
| 1,2-Dichloropropane | 86 | 85 | 1 | 7.24 | 3 J | 3 J |
| cis-1,3-Dichloropropene | 86 | 86 | 0 | 7.24 | 5 U | |
| Trichloroethene | 100 | 17 | 83 | 1590 | 5 U | 28800 |
| Dibromochloromethane | 86 | 86 | 0 | 7.24 | 5 U | |
| 1,1,2-Trichloroethane | 100 | 94 | 6 | 6.74 | 4 U | 51 |
| Benzene | 86 | 83 | 3 | 7.21 | 0.9 J | 2 J |
| Trans-1,3-Dichloropropene | 86 | 86 | 0 | 7.24 | 5 U | |
| 2-Chloroethylvinylether | 32 | 32 | 0 | 7.45 | 10 U | |
| Bromoform | 86 | 86 | 0 | 7.24 | 5 U | |
| 4-Methyl-2-pentanone | 86 | 86 | 0 | 14.51 | 10 U | |
| 2-Hexanone | 86 | 85 | 1 | 14.91 | 5 U | 47 |
| Tetrachloroethene | 100 | 25 | 75 | 83.01 | 1 J | 1000 |
| 1,1,2,2-Tetrachloroethane | 86 | 84 | 2 | 7.26 | 3 J | 4 J |
| Toluene | 86 | 81 | 5 | 7.20 | 1 J | 4 J |
| Chlorobenzene | 86 | 86 | 0 | 7.24 | 5 U | |
| Ethylbenzene | 86 | 86 | 0 | 7.24 | 5 U | |
| Styrene | 86 | 86 | 0 | 7.24 | 5 U | |
| Total Xylenes | 86 | 85 | 1 | 7.22 | 0.8 J | 0.8 J |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value, D=Sample diluted
Stations in this area: 0171, 0271, 1187, 1287, 1487, 1587, 1687, 2687

Summary Table for Ground-Water Volatile Organic Contaminants
Mound Area
Results reported in ug/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 77 | 77 | 0 | 82.33 | 10 U | |
| Bromomethane | 77 | 77 | 0 | 82.33 | 10 U | |
| Vinyl Chloride | 77 | 77 | 0 | 82.33 | 10 U | |
| Chloroethane | 77 | 77 | 0 | 82.33 | 10 U | |
| Methylene Chloride | 77 | 44 | 33 | 80.15 | 1 BJ | 4100 B |
| Acetone | 77 | 58 | 19 | 139.7 | 2 BJ | 8200 B |
| Carbon Disulfide | 77 | 75 | 2 | 40.71 | 3 J | 4 J |
| 1,1-Dichloroethene | 84 | 82 | 2 | 35.19 | 4 U | 90 |
| 1,1-Dichloroethane | 77 | 77 | 0 | 40.69 | 5 U | |
| Trans-1,2-Dichloroethene | 8 | 6 | 2 | 8.33 | 5 U | 38 |
| 1,2-Dichloroethene (total) | 80 | 73 | 7 | 38.65 | 4 U | 28 |
| Chloroform | 84 | 68 | 16 | 35.38 | 2 J | 38 |
| 1,2-Dichloroethane | 84 | 83 | 1 | 34.51 | 4 U | 20 |
| 2-Butanone | 77 | 76 | 1 | 82.34 | 6 J | 6 J |
| 1,1,1-Trichloroethane | 84 | 81 | 3 | 34.48 | 1 J | 16 |
| Carbon Tetrachloride | 84 | 67 | 17 | 40.67 | 1 J | 80 |
| Vinyl Acetate | 77 | 77 | 0 | 82.33 | 10 U | |
| Bromodichloromethane | 77 | 77 | 0 | 40.69 | 5 U | |
| 1,2-Dichloropropane | 77 | 77 | 0 | 40.69 | 5 U | |
| cis-1,3-Dichloropropene | 77 | 77 | 0 | 40.69 | 5 U | |
| Trichloroethene | 84 | 45 | 39 | 562.2 | 2 J | 18000 |
| Dibromochloromethane | 77 | 77 | 0 | 40.69 | 5 U | |
| 1,1,2-Trichloroethane | 84 | 84 | 0 | 34.36 | 4 U | |
| Benzene | 77 | 77 | 0 | 40.69 | 5 U | |
| Trans-1,3-Dichloropropene | 77 | 77 | 0 | 40.69 | 5 U | |
| 2-Chloroethylvinylether | 28 | 28 | 0 | 68.50 | 10 U | |
| Bromoform | 77 | 77 | 0 | 40.69 | 5 U | |
| 4-Methyl-2-pentanone | 77 | 76 | 1 | 82.32 | 4 J | 4 J |
| 2-Hexanone | 77 | 77 | 0 | 82.33 | 10 U | |
| Tetrachloroethene | 84 | 32 | 52 | 10248 | 1 J | 528000 |
| 1,1,2,2-Tetrachloroethane | 77 | 77 | 0 | 40.69 | 5 U | |
| Toluene | 77 | 69 | 8 | 40.78 | 0.9 J | 5 B |
| Chlorobenzene | 77 | 77 | 0 | 40.69 | 5 U | |
| Ethylbenzene | 77 | 77 | 0 | 40.69 | 5 U | |
| Styrene | 77 | 76 | 1 | 40.75 | 5 U | 9 |
| Total Xylenes | 77 | 77 | 0 | 40.69 | 5 U | |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value, D=Sample diluted
Stations in this area: 0174, 1787, 1887, 1987, 2087, 2387, 4386

Summary Table for Ground-Water Volatile Organic Contaminants
East Trenches Area
Results reported in ug/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Chloromethane | 217 | 217 | 0 | 29.94 | 10 U | |
| Bromomethane | 217 | 217 | 0 | 29.94 | 10 U | |
| Vinyl Chloride | 217 | 216 | 1 | 29.92 | 2 J | 2 J |
| Chloroethane | 217 | 217 | 0 | 29.94 | 10 U | |
| Methylene Chloride | 217 | 133 | 84 | 23.72 | 1 BJ | 1600 B |
| Acetone | 217 | 167 | 50 | 35.78 | 1 JB | 4100 BJ |
| Carbon Disulfide | 217 | 213 | 4 | 15.02 | 2 J | 12 |
| 1,1-Dichloroethene | 246 | 215 | 31 | 18.83 | 1 J | 506 |
| 1,1-Dichloroethane | 217 | 214 | 3 | 14.99 | 3 J | 6 |
| Trans-1,2-Dichloroethene | 26 | 23 | 3 | 5.40 | 2 J | 53 |
| 1,2-Dichloroethene (total) | 231 | 200 | 31 | 20.64 | 1 J | 170 |
| Chloroform | 246 | 156 | 90 | 50.62 | 1 J | 2810 |
| 1,2-Dichloroethane | 246 | 240 | 6 | 16.28 | 2 J | 320 |
| 2-Butanone | 217 | 208 | 9 | 29.98 | 3 BJ | 10 B |
| 1,1,1-Trichloroethane | 246 | 225 | 21 | 19.15 | 1 J | 200 |
| Carbon Tetrachloride | 246 | 150 | 96 | 209.4 | 1 J | 4835 |
| Vinyl Acetate | 217 | 217 | 0 | 29.94 | 10 U | |
| Bromodichloromethane | 217 | 216 | 1 | 14.96 | 1 J | 1 J |
| 1,2-Dichloropropane | 217 | 217 | 0 | 14.97 | 5 U | |
| cis-1,3-Dichloropropene | 217 | 217 | 0 | 14.97 | 5 U | |
| Trichloroethene | 246 | 145 | 101 | 3389 | 1 J | 221860 |
| Dibromochloromethane | 217 | 217 | 0 | 14.97 | 5 U | |
| 1,1,2-Trichloroethane | 246 | 245 | 1 | 14.91 | 4 U | 5 |
| Benzene | 217 | 215 | 2 | 14.98 | 1 J | 6 |
| Trans-1,3-Dichloropropene | 217 | 217 | 0 | 14.97 | 5 U | |
| 2-Chloroethylvinylether | 58 | 58 | 0 | 5.00 | 10 U | |
| Bromoform | 217 | 217 | 0 | 14.97 | 5 U | |
| 4-Methyl-2-pentanone | 217 | 212 | 5 | 30.08 | 1 J | 35 |
| 2-Hexanone | 217 | 214 | 3 | 33.17 | 1 JB | 975 |
| Tetrachloroethene | 246 | 136 | 110 | 105.2 | 1 J | 3200 |
| 1,1,2,2-Tetrachloroethane | 217 | 214 | 3 | 15.07 | 2 J | 15 |
| Toluene | 217 | 198 | 19 | 15.13 | 1 J | 30 J |
| Chlorobenzene | 217 | 215 | 2 | 14.89 | 5 U | 11 BJ |
| Ethylbenzene | 217 | 215 | 2 | 14.97 | 3 J | 3 J |
| Styrene | 217 | 217 | 0 | 14.97 | 5 U | |
| Total Xylenes | 217 | 215 | 2 | 14.97 | 2 BJ | 4 J |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value, D=Sample diluted
Stations in this area: 0286, 0374, 0386, 0774, 2274, 2487, 2587, 2787, 2887, 3187, 3287, 3387, 3487, 3687, 3986, 4086, 4186, 4286, 6786, B218789

# GROUND-WATER SAMPLING RESULTS
# SUMMARY TABLES FOR DISSOLVED METALS

Summary Table for Ground-Water Dissolved Metal Contaminants
903 Pad Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 76 | 29 | 47 | 0.0685 | 0.01 U | 1.1972 |
| Antimony (Sb) | 77 | 61 | 16 | 0.0205 | 0.006 U | 0.071 |
| Arsenic (As) | 74 | 66 | 8 | 0.0024 | 0.001 U | 0.004 J |
| Barium (Ba) | 77 | 8 | 69 | 0.1242 | 0.0238 J | 0.9321 |
| Beryllium (Be) | 76 | 72 | 4 | 0.0014 | 0.001 U | 0.0042 B |
| Cadmium (Cd) | 77 | 72 | 5 | 0.0020 | 0.0005 J | 0.0086 |
| Calcium (Ca) | 77 | 0 | 77 | 80.0828 | 6.0019 | 408.4416 |
| Cesium (Cs) | 73 | 72 | 1 | 0.1603 | 0.005 U | 0.1 B |
| Chromium (Cr) | 77 | 48 | 29 | 0.0102 | 0.003 U | 0.0561 |
| Cobalt (Co) | 77 | 72 | 5 | 0.0131 | 0.003 U | 0.17 |
| Copper (Cu) | 77 | 50 | 27 | 0.0064 | 0.002 UE | 0.0397 |
| Iron (Fe) | 77 | 27 | 50 | 2.5359 | 0.006 B | 75.2 |
| Lead (Pb) | 73 | 61 | 12 | 0.0026 | 0.001 U | 0.02 |
| Lithium (Li) | 48 | 16 | 32 | 0.0611 | 0.0055 B | 0.13 |
| Magnesium (Mg) | 77 | 0 | 77 | 15.8845 | 0.0295 | 79.8 E |
| Manganese (Mn) | 77 | 25 | 52 | 0.0959 | 0.001 U | 1.05 |
| Mercury (Hg) | 74 | 70 | 4 | 0.0001 | 0.0002 U | 0.0003 |
| Molybdenum(Mo) | 78 | 59 | 19 | 0.0182 | 0.003 U | 0.192 |
| Nickel (Ni) | 77 | 60 | 17 | 0.0354 | 0.004 U | 0.2561 |
| Potassium (K ) | 72 | 16 | 56 | 3.1997 | 0.7 | 31 |
| Selenium (Se) | 74 | 35 | 39 | 0.0075 | .001 U | 0.04 |
| Silver (Ag) | 77 | 65 | 12 | 0.0049 | 0.002 U | 0.0424 |
| Sodium (Na) | 77 | 0 | 77 | 89.1731 | 7.87 | 304 |
| Strontium (Sr) | 78 | 1 | 77 | 0.6762 | 0.201 | 7.7076 |
| Thallium (Tl) | 74 | 71 | 3 | 0.0033 | 0.001 U | 0.001 B |
| Tin (Sn) | 29 | 19 | 10 | 0.0381 | 0.007 U | 0.135 B |
| Vanadium (V ) | 77 | 59 | 18 | 0.0159 | 0.002 U | 0.0915 |
| Zinc (Zn) | 78 | 32 | 46 | 0.0201 | 0.0024 B | 0.0712 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0171, 0271, 1187, 1287, 1487, 1587, 1687

Summary Table for Ground-Water Dissolved Metal Contaminants
Mound Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 48 | 19 | 29 | 0.0941 | 0.015 U | 0.2556 |
| Antimony (Sb) | 46 | 42 | 4 | 0.0168 | 0.006 U | 0.0395 B |
| Arsenic (As) | 46 | 44 | 2 | 0.0034 | 0.001 U | 0.007 |
| Barium (Ba) | 48 | 8 | 40 | 0.1156 | 0.0246 | 0.1949 |
| Beryllium (Be) | 46 | 46 | 0 | 0.0018 | 0.001 U | |
| Cadmium (Cd) | 46 | 44 | 2 | 0.0014 | 0.0004 J | 0.001 B |
| Calcium (Ca) | 48 | 0 | 48 | 73.1742 | 12.326 | 136 |
| Cesium (Cs) | 45 | 41 | 4 | 0.0970 | 0.005 U | 0.17 B |
| Chromium (Cr) | 48 | 38 | 10 | 0.0072 | 0.003 U | 0.0676 |
| Cobalt (Co) | 48 | 48 | 0 | 0.0113 | 0.002 U | |
| Copper (Cu) | 48 | 28 | 20 | 0.0262 | 0.002 U | 0.4235 |
| Iron (Fe) | 48 | 21 | 27 | 0.0334 | 0.002 U | 0.1942 |
| Lead (Pb) | 46 | 42 | 4 | 0.0021 | 0.001 U | 0.008 |
| Lithium (Li) | 28 | 19 | 9 | 0.0350 | 0.002 U | 0.01 J |
| Magnesium (Mg) | 48 | 0 | 48 | 8.1421 | 0.0342 | 32 |
| Manganese (Mn) | 48 | 14 | 34 | 0.0584 | 0.001 U | 1.2694 |
| Mercury (Hg) | 46 | 43 | 3 | 0.0001 | 0.0002 U | 0.0002 |
| Molybdenum(Mo) | 48 | 42 | 6 | 0.0257 | 0.002 U | 0.057 |
| Nickel (Ni) | 48 | 33 | 15 | 0.0562 | 0.003 U | 0.6874 |
| Potassium (K ) | 46 | 12 | 34 | 6.2176 | 0.48 B | 28 |
| Selenium (Se) | 46 | 39 | 7 | 0.0025 | 0.001 U | 0.004 J |
| Silver (Ag) | 48 | 44 | 4 | 0.0047 | 0.002 U | 0.0103 |
| Sodium (Na) | 48 | 0 | 48 | 27.0659 | 5.37 | 106 |
| Strontium (Sr) | 48 | 2 | 46 | 0.4216 | 0.1107 | 0.83 |
| Thallium (Tl) | 46 | 46 | 0 | 0.0040 | 0.001 U | |
| Tin (Sn) | 19 | 16 | 3 | 0.0341 | 0.01 U | 0.0888 B |
| Vanadium (V ) | 48 | 39 | 9 | 0.0177 | 0.002 U | 0.0377 |
| Zinc (Zn) | 48 | 13 | 35 | 0.0908 | 0.0045 B | 2.5552 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0174, 1787, 1887, 2087, 2387, 4386

Summary Table for Ground-Water Dissolved Metal Contaminants
East Trenches Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 187 | 59 | 128 | 0.1242 | .00003 B | 8.14 |
| Antimony (Sb) | 183 | 148 | 35 | 0.0214 | .00005 U | 0.1973 |
| Arsenic (As) | 182 | 160 | 22 | 0.0026 | 0.0009 U | 0.019 |
| Barium (Ba) | 187 | 17 | 170 | 0.1388 | .00025 | 0.3254 |
| Beryllium (Be) | 183 | 176 | 7 | 0.0015 | 0.0002 U | 0.0097 |
| Cadmium (Cd) | 183 | 166 | 17 | 0.0019 | 0.0003 J | 0.0089 |
| Calcium (Ca) | 187 | 0 | 187 | 110149.5 | .037208 | 9905678 |
| Cesium (Cs) | 179 | 168 | 11 | 0.1136 | 0.005 U | 0.4 B |
| Chromium (Cr) | 187 | 132 | 55 | 0.0082 | 0.003 U | 0.1223 |
| Cobalt (Co) | 187 | 181 | 6 | 0.0103 | .00003 U | 0.0098 B |
| Copper (Cu) | 187 | 109 | 78 | 0.0097 | 0.002 U | 0.2227 |
| Iron (Fe) | 187 | 64 | 123 | 0.1471 | .00003 U | 14.9 |
| Lead (Pb) | 180 | 154 | 26 | 0.0027 | 0.001 U | 0.072 |
| Lithium (Li) | 95 | 32 | 63 | 0.0628 | 0.0034 U | .685 |
| Magnesium (Mg) | 187 | 1 | 186 | 20.9696 | .029053 | 225.3522 |
| Manganese (Mn) | 187 | 67 | 120 | 0.0428 | 0.001 U | 0.854 |
| Mercury (Hg) | 182 | 170 | 12 | 0.0002 | 0.0001 J | 0.013 |
| Molybdenum(Mo) | 186 | 132 | 54 | 0.0228 | .00003 U | 0.19 |
| Nickel (Ni) | 187 | 114 | 73 | 0.0305 | .00006 | 0.6822 |
| Potassium (K ) | 181 | 38 | 143 | 2.4419 | 0.382 B | 14 |
| Selenium (Se) | 182 | 130 | 52 | 0.0055 | 0.001 U | .22 J |
| Silver (Ag) | 187 | 153 | 34 | 0.0048 | 0.002 U | 0.128 |
| Sodium (Na) | 187 | 0 | 187 | 50.4462 | .043878 | 268 |
| Strontium (Sr) | 186 | 1 | 185 | 0.7189 | .00141 | 4.744 |
| Thallium (Tl) | 182 | 179 | 3 | 0.0032 | 0.0009 UW | 0.0016 BW |
| Tin (Sn) | 74 | 42 | 32 | 0.0414 | 0.007 U | .164 |
| Vanadium (V ) | 187 | 132 | 55 | 0.0169 | .00003 U | 0.1137 |
| Zinc (Zn) | 186 | 69 | 117 | 0.0277 | 0.002 U | 0.98 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0286, 0374, 0386, 0774, 2274, 2587, 2787, 2887, 3187, 3287, 3487, 3687, 3986, 4086, 4186, 4286, 6786, B218789

# GROUND-WATER SAMPLING RESULTS
# SUMMARY TABLES FOR TOTAL METALS

Summary Table for Ground-Water Total Metal Contaminants
903 Pad Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 10 | 3 | 7 | 2.9564 | 0.03 B | 18.4 |
| Antimony (Sb) | 10 | 10 | 0 | 0.0211 | 0.022 U | |
| Arsenic (As) | 10 | 8 | 2 | 0.0013 | 0.001 U | 0.0026 B |
| Barium (Ba) | 10 | 4 | 6 | 0.1302 | 0.0743 B | 0.291 |
| Beryllium (Be) | 10 | 9 | 1 | 0.0028 | 0.001 U | 0.0137 |
| Cadmium (Cd) | 10 | 6 | 4 | 0.0028 | 0.002 U | 0.0073 |
| Calcium (Ca) | 10 | 0 | 10 | 103.4143 | 33.1 | 286 |
| Cesium (Cs) | 10 | 10 | 0 | 0.1789 | 0.002 UW | |
| Chromium (Cr) | 10 | 3 | 7 | 0.0209 | 0.004 U | 0.081 |
| Cobalt (Co) | 10 | 10 | 0 | 0.0048 | 0.004 U | |
| Copper (Cu) | 10 | 5 | 5 | 0.0113 | 0.0072 B | 0.0351 |
| Iron (Fe) | 10 | 1 | 9 | 34.2546 | 0.01 U | 236 |
| Lead (Pb) | 8 | 3 | 5 | 0.0028 | 0.0014 B | 0.008 |
| Lithium (Li) | 10 | 4 | 6 | 0.0706 | 0.0426 B | 0.154 |
| Magnesium (Mg) | 10 | 0 | 10 | 24.7936 | 7.26 | 82 |
| Manganese (Mn) | 10 | 0 | 10 | 0.2112 | 0.0062 B | 1.24 |
| Mercury (Hg) | 10 | 10 | 0 | 0.0001 | 0.0002 U | |
| Molybdenum(Mo) | 10 | 5 | 5 | 0.0083 | 0.009 U | 0.0196 |
| Nickel (Ni) | 10 | 5 | 5 | 0.0415 | 0.009 U | 0.269 |
| Potassium (K ) | 10 | 2 | 8 | 2.5614 | 0.97 B | 6.41 |
| Selenium (Se) | 10 | 4 | 6 | 0.0027 | 0.001 U | 0.014 S |
| Silver (Ag) | 10 | 7 | 3 | 0.0053 | 0.003 U | 0.0129 |
| Sodium (Na) | 10 | 0 | 10 | 95.9557 | 8.19 | 290 |
| Strontium (Sr) | 10 | 2 | 8 | 0.6134 | 0.1 U | 2.16 |
| Thallium (Tl) | 10 | 9 | 1 | 0.0009 | 0.001 U | 0.0035 B |
| Tin (Sn) | 10 | 8 | 2 | 1.9246 | 0.03 U | 8.99 |
| Vanadium (V ) | 10 | 6 | 4 | 0.0129 | 0.0054 B | 0.0494 B |
| Zinc (Zn) | 10 | 2 | 8 | 0.0361 | 0.005 U | 0.142 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0171, 0271, 1187, 1287, 1487, 1587, 1687

Summary Table for Ground-Water Total Metal Contaminants
Mound Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 4 | 0 | 4 | 1.0964 | 0.0673 B* | 2.55 * |
| Antimony (Sb) | 4 | 1 | 3 | 0.0415 | 0.03 U | 0.0514 BN |
| Arsenic (As) | 4 | 4 | 0 | 0.0010 | 0.002 U | |
| Barium (Ba) | 4 | 0 | 4 | 0.1680 | 0.137 B | 0.198 B |
| Beryllium (Be) | 4 | 4 | 0 | 0.0006 | 0.001 U | |
| Cadmium (Cd) | 4 | 0 | 4 | 0.0026 | 0.0023 B | 0.0036 B |
| Calcium (Ca) | 4 | 0 | 4 | 104.3000 | 87.4 | 116 |
| Cesium (Cs) | 5 | 4 | 1 | 0.1048 | 0.002 UWN | 0.08 B |
| Chromium (Cr) | 4 | 0 | 4 | 0.0330 | 0.0151 | 0.051 |
| Cobalt (Co) | 4 | 1 | 3 | 0.0047 | 0.0037 B | 0.0064 B |
| Copper (Cu) | 4 | 1 | 3 | 0.0071 | 0.003 U | 0.02 B |
| Iron (Fe) | 4 | 0 | 4 | 1.4779 | 0.0332 B | 3.54 |
| Lead (Pb) | 4 | 2 | 2 | 0.0022 | 0.001 U | 0.0045 |
| Lithium (Li) | 4 | 1 | 3 | 0.0095 | 0.0063 B | 0.0064 B |
| Magnesium (Mg) | 4 | 0 | 4 | 12.0183 | 9.61 | 13 |
| Manganese (Mn) | 4 | 0 | 4 | 0.0402 | 0.0064 B | 0.0995 |
| Mercury (Hg) | 4 | 4 | 0 | 0.0001 | 0.0002 U | |
| Molybdenum(Mo) | 4 | 1 | 3 | 0.0056 | 0.0032 B | 0.0087 B |
| Nickel (Ni) | 4 | 0 | 4 | 0.0215 | 0.0062 B | 0.0314 B |
| Potassium (K ) | 4 | 0 | 4 | 1.4907 | 0.772 B | 2.15 B |
| Selenium (Se) | 4 | 2 | 2 | 0.0013 | 0.001 U | 0.002 B |
| Silver (Ag) | 4 | 0 | 4 | 0.0070 | 0.0026 B | 0.025 |
| Sodium (Na) | 4 | 0 | 4 | 10.9567 | 7.6 | 18 |
| Strontium (Sr) | 4 | 0 | 4 | 0.4600 | 0.407 N | 0.492 N |
| Thallium (Tl) | 4 | 4 | 0 | 0.0010 | 0.002 U | |
| Tin (Sn) | 4 | 1 | 3 | 0.0388 | 0.0251 BN | 0.0279 BN |
| Vanadium (V ) | 4 | 0 | 4 | 0.0101 | 0.0063 B | 0.0124 B |
| Zinc (Zn) | 4 | 0 | 4 | 0.0326 | 0.0188 B | 0.0441 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0174, 1787, 2387

Summary Table for Ground-Water Total Metal Contaminants
East Trenches Area
Results reported in mg/l

| Analyte | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|
| Aluminum (Al) | 15 | 4 | 11 | 2.1479 | 0.06 U | 16.6 |
| Antimony (Sb) | 15 | 11 | 4 | 0.0242 | 0.0276 B | 0.0451 BN |
| Arsenic (As) | 15 | 11 | 4 | 0.0019 | 0.002 UN | 0.0061 B |
| Barium (Ba) | 15 | 2 | 13 | 0.1810 | 0.0568 B | 0.317 |
| Beryllium (Be) | 15 | 14 | 1 | 0.0009 | 0.001 U | 0.0023 B |
| Cadmium (Cd) | 15 | 4 | 11 | 0.0027 | 0.0019 B | 0.0054 |
| Calcium (Ca) | 15 | 0 | 15 | 99.8000 | 18.5 | 150 |
| Cesium (Cs) | 15 | 14 | 1 | 0.0920 | 0.002 UW | 0.06 B |
| Chromium (Cr) | 15 | 1 | 14 | 0.0268 | 0.01 U | 0.0572 |
| Cobalt (Co) | 15 | 11 | 4 | 0.0051 | 0.0045 B | 0.0069 B |
| Copper (Cu) | 15 | 5 | 10 | 0.0111 | 0.003 U | 0.0276 |
| Iron (Fe) | 15 | 0 | 15 | 2.2602 | 0.0104 B | 11.6 |
| Lead (Pb) | 15 | 6 | 9 | 0.0039 | 0.001 U | 0.015 |
| Lithium (Li) | 15 | 11 | 4 | 0.0198 | 0.0061 B | 0.0087 B |
| Magnesium (Mg) | 15 | 0 | 15 | 12.5100 | 4.87 B | 21.4 |
| Manganese (Mn) | 15 | 0 | 15 | 0.0497 | 0.0041 B | 0.333 |
| Mercury (Hg) | 15 | 14 | 1 | 0.0001 | 0.0002 U | 0.0002 |
| Molybdenum(Mo) | 15 | 11 | 4 | 0.0054 | 0.003 U | 0.0123 B |
| Nickel (Ni) | 15 | 4 | 11 | 0.0202 | 0.0038 B | 0.0438 |
| Potassium (K ) | 15 | 0 | 15 | 2.1985 | 0.903 B | 5.04 |
| Selenium (Se) | 15 | 11 | 4 | 0.0013 | 0.001 U | 0.002 B |
| Silver (Ag) | 15 | 7 | 8 | 0.0076 | 0.0034 B | 0.0281 |
| Sodium (Na) | 15 | 0 | 15 | 36.7663 | 9.41 | 103 |
| Strontium (Sr) | 15 | 0 | 15 | 0.5025 | 0.268 | 0.991 |
| Thallium (Tl) | 15 | 15 | 0 | 0.0008 | 0.001 U | |
| Tin (Sn) | 15 | 11 | 4 | 0.0422 | 0.0215 BN | 0.0299 B |
| Vanadium (V ) | 15 | 7 | 8 | 0.0125 | 0.01 U | 0.0505 |
| Zinc (Zn) | 15 | 1 | 14 | 0.0348 | 0.005 U | 0.135 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=value less than CRDL and greater than IDL, E=Estimated Value
Stations in this area: 0374, 2274, 2587, 3187, 3287, 3487, 3687, 3986, 4086, 4186, 4286, B218789

# GROUND-WATER SAMPLING RESULTS
# SUMMARY TABLES FOR INORGANIC COMPOUNDS

Summary Table for Ground-Water Inorganic Contaminants
903 Pad Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 13 | 0 | 13 | 7.5500 | 5.9 | 8.2 |
| Total Suspended Solids | (mg/l) | 29 | 3 | 26 | 367.8048 | 4 U | 3100 |
| Nitrate-Nitrite as N | (mg/l) | 84 | 2 | 82 | 2.9029 | 0.02 U | 19.9 |
| Chloride | (mg/l) | 87 | 0 | 87 | 99.3344 | 2.8 | 1100 |
| Sulfate | (mg/l) | 83 | 0 | 83 | 88.5811 | 1.83 | 418 |
| Total Dissolved Solids | (mg/l) | 92 | 0 | 92 | 594.4146 | 27 | 3600 |
| HCO3- | (mg/l) | 84 | 0 | 84 | 222.6224 | 4 | 530 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: 0171, 0271, 1187, 1287, 1487, 1587, 1687

Summary Table for Ground-Water Inorganic Contaminants
Mound Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 7 | 0 | 7 | 8.2000 | 7.4 | 9.9 |
| Total Suspended Solids | (mg/l) | 18 | 1 | 17 | 300.9167 | 4 | 800 |
| Nitrate-Nitrite as N | (mg/l) | 57 | 1 | 56 | 4.1721 | 0.02 U | 44.8 |
| Chloride | (mg/l) | 54 | 0 | 54 | 36.3114 | 5.85 | 275 |
| Sulfate | (mg/l) | 53 | 0 | 53 | 50.1596 | 3.29 J | 261 |
| Total Dissolved Solids | (mg/l) | 55 | 0 | 55 | 390.5088 | 163 | 590 |
| HCO3- | (mg/l) | 55 | 2 | 53 | 185.2782 | 0 | 360 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: 0174, 1787, 1887, 1987, 2087, 2387, 4386

Summary Table for Ground-Water Inorganic Contaminants
East Trenches Area

| Analyte | | Number of Results | Number of Non-Detects | Number of Hits | Average of All Values** | Minimum of All Values | Maximum of Values |
|---|---|---|---|---|---|---|---|
| pH | (pH units) | 33 | 0 | 33 | 7.6971 | 7.2 | 9.3 |
| Total Suspended Solids | (mg/l) | 80 | 6 | 74 | 517.5627 | 4 U | 8400 |
| Nitrate-Nitrite as N | (mg/l) | 214 | 13 | 201 | 4.6516 | 0.02 U | 42.0 |
| Chloride | (mg/l) | 215 | 0 | 215 | 51.7077 | 3.94 | 947 |
| Sulfate | (mg/l) | 209 | 0 | 209 | 88.5496 | 9 | 760 |
| Total Dissolved Solids | (mg/l) | 220 | 0 | 220 | 518.7535 | 137 | 2400 |
| HCO3- | (mg/l) | 207 | 0 | 207 | 245.0285 | 0 | 588 |

**=Mean is first computed at individual stations and then averaged; if result qualifier is U, statistics are calculated using 0.5 the reported result.
NS=No Standard, U=Analyzed but not detected, J=Present below Detection limit, B=Present in Blank, E=Estimated Value
Stations in this area: 0286, 0374, 0386, 0774, 2274, 2487, 2587, 2787, 2887, 3187, 3287, 3487, 3687, 3986, 4086, 4186, 4286, 6786, B218789

# APPENDIX C

## APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS FOR GROUND-WATER CONTAMINANTS

## SUBSURFACE IM/IRA/EA
## OPERABLE UNIT NO. 2

## TABLE C-1
## PROPOSED ARARs/TBCs FOR POTENTIAL CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Maximum Concentration in Ground Water[a] | ARAR | TBC | ARAR Reference | Comments |
|---|---|---|---|---|---|
| **Organics** | | | | | |
| Acetone | 1300B | NS | | No standard. | |
| Methylene Chloride | 240JB | 5U | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | Proposed ARAR standard is below detection limit. ARAR defaults to detection limit. |
| Tetrachloroethene | 528000 | 0.8 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Toluene | 53 | 1000 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Trichloroethene | 221860 | 2.7 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Carbon Disulfide | 5 | NS | | No standard. | |
| Chloroform | 5427 | 6 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Vinyl Chloride | 930 | 2 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| 1,1-Dichloroethane | 62A | NS | | No standard. | |
| 1,2-Dichloroethane | 400 | 0.4 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| 1,1-Dichloroethene | 1044 | 0.057 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Total 1,2-Dichloroethene | 1600 | 70 | | WQCC Surface Water Standard; State-Wide Water Supply. | Standard shown is for cis-isomer. |
| 1,1,1-Trichloroethane | 2892 | 200 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| 1,1,2-Trichloroethane | 51 | 0.6 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| 4-methyl-2-pentanone | 35 | NS | | No standard. | |
| 2-Hexanone | 975 | NS | | No standard. | |

## TABLE C-1 (Continued)
## PROPOSED ARARs/TBC's FOR POTENTIAL CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Maximum Concentration in Ground Water[a] | ARAR | TBC | ARAR Reference | Comments |
|---|---|---|---|---|---|
| **Organics, (Con't.)** | | | | | |
| Styrene | 9A | 100 | | SDWA MCL [40 CFR 141.61(a)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Xylene | 4J | 10,000 | | SDWA MCL [40 CFR 141.61(a)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Ethyl Benzene | 3J | 680 | | WQCC Surface Water Standard; State-Wide Water Supply. | |
| Benzene | 2JA | 1.0 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| Carbon Tetrachloride | 450 | 0.25 | | WQCC Surface Water Standard; State-Wide Water and Fish Ingestion. | |
| **Metals** | | | | | |
| Aluminum | 2.6796 | | 87 | WQCC Surface Water Standard; Aquatic Life Table Value Standard is TBC. | |
| Antimony | 0.1177 | | 146 | CWA AWQC water and fish ingestion standard is TBC. | |
| Arsenic | 0.040 | 50 | | SDWA MCL [40 CFR 141.11(b)] | |
| Barium | 0.9321 | 1000 | | SDWA MCL [40 CFR 141.11(b)] | |
| Beryllium | 0.0022J | | 5U | CWA AWQC water and fish ingestion standard is TBC. | Proposed TBC standard(0.0068 $\mu g/\ell$) is below detection limit. TBC defaults to detection limit. |
| Cadmium | 0.009A | 5 | | SDWA MCL [40 CFR 141.62(b)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Calcium | 408.4416 | NS | | No Standard. | |
| Chromium | 0.1223 | 100 | | SDWA MCL [40 CFR 141.62(b)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Copper | 0.8355 | 1,300 | | SDWA MCLG [40 CFR 141.51(b)] | MCLG promulgated at 56 FR 3526, effective July 30, 1992. |

## TABLE C-1 (Continued)
## PROPOSED ARARs/TBC's FOR POTENTIAL CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Maximum Concentration in Ground Water[a] | ARAR | TBC | ARAR Reference | Comments |
|---|---|---|---|---|---|
| **Metals, (Con't.)** | | | | | |
| Iron | 4.347 | | 1000(300) | WQCC Surface Water Standard; Site-Specific Metal Standard is TBC. | Dissolved iron in parentheses. |
| Lead | 0.024 | | 4.34[c] | WQCC Surface Water Standard; Site-Specific Metal Standard is TBC. | |
| Lithium | 0.22 | NS | | No Standard. | |
| Magnesium | 135.7122 | NS | | No Standard. | |
| Manganese | 4.3699 | | 1000(50) | WQCC Surface Water Standards Site-Specific Metal Standard is TBC. | Dissolved manganese in parentheses. |
| Mercury | 0.013 | 2 | | SDWA MCL [40 CFR 141.11(b)] | |
| Molybdenum | 0.1347 | NS | | No Standard. | |
| Nickel | 1.4097 | | 101.4[c] | WQCC Surface Water Standards Site-Specific Metal Standard is TBC. | |
| Potassium | 31 | NS | | No Standard. | |
| Selenium | 0.45 | 50 | | SDWA MCL [40 CFR 141.62(b)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Silver | 0.128 | 50 | | SDWA MCL [40 CFR 141.11(b)] | |
| Sodium | 405.0172 | NS | | No Standard. | |
| Strontium | 7.7076 | NS | | No Standard. | |
| Thallium | 0.01[b] | | 13 | CWA AWQC water and fish ingestion standard is TBC. | |
| Vanadium | 0.041[b] | NS | | No standard. | |
| Zinc | 2.7735 | | 113.2[c] | WQCC Surface Water Standard; Site-Specific Metal Standard is TBC. | |
| Nitrite | 15.45 | 1000 | | SDWA MCL [40 CFR 141.62(b)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |

## TABLE C-1 (Continued)
## PROPOSED ARARs/TBC's FOR POTENTIAL CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Maximum Concentration in Ground Water[a] | ARAR | TBC | ARAR Reference | Comments |
|---|---|---|---|---|---|
| **Non-Metallic Inorganics** | | | | | |
| Nitrate | 15.45 | 10000 | | SDWA MCL [40 CFR 141.62(b)] | MCL promulgated at 56 FR 3526, effective July 30, 1992. |
| Chloride | 947 | | 250000 | WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC. | |
| Sulfate | 1157 | | 250000 | WQCC Surface Water Standard; Site-Specific Inorganic Standard is TBC. | |
| TDS | 3219 | | 250000 | CWA AWQC water and fish ingestion standard is TBC. | |
| Fluoride | 1.0 | 4000 | | SDWA MCL [40 CFR 141.11 (c)] | |
| Bicarbonate | 530 | NS | | No Standard. | |
| **Radionuclides** (units are pCi/$\ell$) | | | | | |
| Gross Alpha | 250 ± 52 | 15 pCi/$\ell$ | | SDWA MCL [40 CFR 141.15(b)] | |
| Gross Beta | 327 ± 20 | | 5 pCi/$\ell$ | WQCC Surface Water Standard; Site-Specific Radionuclide Standard is TBC. | |
| $Pu^{239,240}$ | 0.6 ± 0.71 | 15 pCi/$\ell$ | | WQCC Surface Water Standard; Site-Wide Radionuclide Standard. | |
| $H^3$ | 560 ± 290 | 20000 pCi/$\ell$ | | WQCC Surface Water Standard; State-Wide Radionuclide Standard. | |
| $Sr^{89,90}$ | 5.0 | 8 pCi/$\ell$ | | WQCC Surface Water Standard; State-Wide Radionuclide Standard. | |
| $U^{Total}$ | 63.7 ± 5.3 | 40 pCi/$\ell$ | | WQCC Surface Water Standard; Basin-Wide Radionuclide Standard. | |
| $Am^{241}$ | 0.831 ± 0.148 | | 0.05 pCi/$\ell$ | WQCC Surface Water Standard; Site-Specific Radionuclide Standard is TBC. | |
| $Cs^{137}$ | 0.3 ± 0.5 | NS | | No Standard. | Maximum detected concentration is estimated below minimum detection limit. |
| $Ra^{226}$ | 0.4 ± 0.4 | 5 pCi/$\ell$ | | WQCC Surface Water Standard; State-Wide Radionuclide Standard. | |

## TABLE C-1 (Continued)
## PROPOSED ARARs/TBC's FOR POTENTIAL CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
**(Units are $\mu g/\ell$, unless otherwise specified)**

A - Accepted with qualifications
B - Compound also present in blank.
J - Estimated below detection limit.
mrem/yr Millirem per year
NS - No ARAR Standard
U - Detection Limit.

[a] Maximum compound concentrations determined from the Operable Unit 2 RFI/RIFS Work Plan (EG&G, 1990c).
[b] Constituent reported below contract required detection limit.
[c] Calculated using an estimated average hardness of 108.1 mg/$\ell$ of $CaCO_3$, based on the background Geochemical characterization Report (EG&G, 1989).

## TABLE C-2.1
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUNDWATER FEDERAL SURFACE WATER QUALITY STANDARDS
(Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | SDWA Maximum Concentration in Ground-Water[a] | SDWA Maximum Contaminant Level Goal[a] | CWA AWQC for Protection of Aquatic Life [c] | | CWA Water Quality Criteria for Protection of Human Health [c] | |
|---|---|---|---|---|---|---|
| | | | Acute Value | Chronic Value | Water and Fish Ingestion | Fish Consumption Only |
| **Organics** | | | | | | |
| Acetone | | | | | | |
| Methylene Chloride | | | | | | |
| Tetrachloroethene | [5[b]] | [0[b]] | 5280[1] | 840[1] | 0.8[8] | 8.85[8] |
| Toluene | [1000(b)] | [1000(b)] | 17500[1] | | 14300 | 424000 |
| Trichloroethene | 5 | | 45000 | 21900 | 2.7 | 80.7 |
| Carbon Disulfide | | | | | | |
| Chloroform | 100[2] | | 28900[1] | 12400[4] | 0.19[8] | 15.7[8] |
| Vinyl Chloride | 2 | 0 | | | 2[8] | 525[8] |
| 1,1-Dichloroethane | | | | | | |
| 1,2-Dichloroethane | 5 | | 118000[1] | 20000[1] | 0.94[8] | 243[8] |
| 1,1-Dichloroethene | 7 | 7 | 11.6[1][4] | | 0.033[1][4] | 1.85[1][4] |
| Total 1,2-Dichloroethene[6] | [70[b]] | [70[b]] | 11.6[1][4] | | 0.033[1][4] | 1.85[1][4] |
| 1,1,1-Trichloroethane | 200 | | | | 18400 | 1030000 |
| 1,1,2-Trichloroethane | | | | 9400[1] | 0.6[8] | 41.8[8] |
| 4-methyl-2-pentanone | | | | | | |
| 2-Hexanone | | | | | | |
| Styrene | [100[b]] | [100[b]] | | | | |
| Xylene | [10000[b]] | [10000[b]] | | | | |
| Ethyl Benzene | [700[b]] | [700[b]] | 32000[1] | | 1400 | 3280 |
| Benzene | 5 | | 5300[1] | | 0.86 | 40[8] |
| Carbon Tetrachloride | 5 | 0 | 35200[1] | | 0.4[8] | 6.94[8] |

## TABLE C-2.1
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGE OF TREATED GROUND WATER
## FEDERAL SURFACE WATER QUALITY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | SDWA Maximum Concentration in Ground-Water[a] | SDWA Maximum Contaminant Level Goal[a] | CWA AWQC for Protection of Aquatic Life [e] | | CWA Water Quality Criteria for Protection of Human Health [e] | |
|---|---|---|---|---|---|---|
| | | | Acute Value | Chronic Value | Water and Fish Ingestion | Fish Consumption Only |
| **Metals** | | | | | | |
| Aluminum | | | | | | |
| Antimony | | | 9000[1] | 1600[1] | 146 | 45000 |
| Arsenic | 50 | | | | 0.0022[8] | 0.0175[8] |
| Barium | 1000 | | | | 1000 | |
| Beryllium | | | 130[1] | 5.3[1] | 0.0068[8] | 0.117[8] |
| Cadmium | 10[5[b]] | [5[b]] | 3.9[3] | 1.1[3] | 10 | |
| Calcium | | | | | | |
| Chromium | 50[100[b]] | [100[b]] | 16[7] | 11[7] | 50[7] | |
| Copper | | 1300 | 18[3] | 12[3] | | |
| Iron | | | | 1000 | 300 | |
| Lead | | 0 | 82[3] | 3.2[3] | 50 | |
| Lithium | | | | | | |
| Magnesium | | | | | | |
| Manganese | | | | | 50 | 100 |
| Mercury | 2 | [2[b]] | 2.4 | 0.012 | 0.144 | 0.146 |
| Molybdenum | | | | | | |
| Nickel | | | 1400[3] | 100[3] | 13.4 | 100 |
| Potassium | | | | | | |
| Selenium | 10[50[b]] | [50[b]] | 260 | 35 | 10 | |
| Silver | 50 | | | | | |

## TABLE C-2.1
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGE OF TREATED GROUND WATER
## FEDERAL SURFACE WATER QUALITY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | SDWA Maximum Concentration in Ground-Water[a] | SDWA Maximum Contaminant Level Goal[a] | CWA AWQC for Protection of Aquatic Life [c] | | CWA Water Quality Criteria for Protection of Human Health [c] | |
|---|---|---|---|---|---|---|
| | | | Acute Value | Chronic Value | Water and Fish Ingestion | Fish Consumption Only |
| **Metals, (Con't.)** | | | | | | |
| Sodium | | | 4.1[3] | 0.12[3] | 50 | |
| Strontium | | | | | | |
| Thallium | | | 1400[1] | 40[1] | 13 | 48 |
| Vanadium | | | | | | |
| Zinc | | | 120[3] | 110[3] | | |
| **Non-Metallic Inorganics** | | | | | | |
| pH (maximum) | | | | | | |
| pH (minimum) | | | | | | |
| Nitrite | [1000[b]] | [1000[b]] | | | | |
| Nitrate | 10000 | [10000[b]] | | | 10000 | |
| Chloride | | | | | | |
| Sulfate | | | | | | |
| TDS | | | 55 | 55 | 250000 | |
| Fluoride | 4000 | | | | | |
| Bicarbonate | | | | | | |
| **Radionuclides** | | | | | | |
| Gross Alpha | 15 pCi/$\ell$ | | | | | |
| Gross Beta | 4 mrem/yr[5] | | | | | |
| $Pu^{239,240}$ | | | | | | |
| $H^3$ | 20000 pCi/$\ell$ | | | | | |
| | | | | | | |

## TABLE C-2.1
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGE OF TREATED GROUND WATER
## FEDERAL SURFACE WATER QUALITY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | SDWA Maximum Concentration in Ground-Water[a] | SDWA Maximum Contaminant Level Goal[a] | CWA AWQC for Protection of Aquatic Life [c] | | CWA Water Quality Criteria for Protection of Human Health [c] | |
|---|---|---|---|---|---|---|
| | | | Acute Value | Chronic Value | Water and Fish Ingestion | Fish Consumption Only |
| **Radionuclides (cont.)** | | | | | | |
| $Sr^{89,90}$ | 8 pCi/$\ell$ | | | | | |
| $U^{Total}$ | | | | | | |
| $Am^{241}$ | | | | | | |
| $Cs^{137}$ | | | | | | |
| $Ra^{226}$ | 5 pCi/$\ell$ | | | | | |

a EPA National Primary and Secondary Drinking Water Regulations, 40CFR Parts 141 and 143.
b Standard shown in brackets is amended MCL or MCLG, EPA National Primary and Secondary Drinking Water Regulations, 40CFR Parts 141-143, Final Rule (1/30/91), effective July 30, 1992.
c EPA Quality Criteria for protection of Aquatic Life, 1986.

(1) Criterion not developed; value shown is lowest observed effects level.
(2) Standard is for total trihlomethones: chloroform, bromoform, bromodichloromethane, dibromochloromethane.
(3) Hardness dependent criteria.
(4) Criteria is for dichloroethene.
(5) SDWA standard for gross beta of 4 mrem/yr is an exposure equivalency. Compliance with the standard cannot be determined through testing for gross beta. Rather, a cumulative dose must be derived for all radionuclides using the method described in 40CFR 141.16(b).
(6) Standard shown is for total or cis-isomer. MCL and MCLG for trans-isomer are both [100[b]].
(7) Standard shown is for hexavelent chromium.
(8) Human health criteria for carcinogens reported for three risk levels. Value shown is the $10^{-5}$ risk level.

# TABLE C-2.2
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## STATE SURFACE WATER QUALTIY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Statewide Standards (a) CDH/WQCC | | | | | | | | | Segment 5 Classification and Water Quality Standards (b) CDH/WQCC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Human Health | | Aquatic Life | | State-Wide Radionuclide Standards | Table Value Standards | | | | Table 1 Additional Organic Chemical Standards | Steam Segment Table (2) | | Table 2 Radio-nuclides |
| | Water Supply | Water & Fish | Acute Value | Chronic Value | | Aquatic Life: Acute Value | Aquatic Life: Chronic Value | Agricul-tural Standard | Drinking Water Supply | | Acute Value | Chronic Value | |
| **Organics** | | | | | | | | | | | | | |
| Acetone | | | | | | | | | | | | | |
| Methylene Chloride | | 4.7 | | | | | | | | | | | |
| Tetrachloroethene | 5 | 0.8 | 5280 | 840 | | | | | | | | | |
| Toluene | 1000 | 1000 | 17500 | | | | | | | | | | |
| Trichloroethene | 5 | 2.7 | 45000 | 21900 | | | | | | | | | |
| Carbon Disulfide | | | | | | | | | | | | | |
| Chloroform | 6 | 6 | 28900 | 1240 | | | | | | 0.19 | | | |
| Vinyl Chloride | 2 | 2 | | | | | | | | | | | |
| 1,1-Dichloroethane | | | | | | | | | | | | | |
| 1,2-Dichloroethane | 0.4 | 0.4 | 118000 | 20000 | | | | | | | | | |
| 1,1-Dichloroethene | 7 | 0.057 | | | | | | | | | | | |
| Total 1,2-Dichloroethene | 70[3] | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 200 | 200 | | | | | | | | | | | |
| 1,1,2-Trichloroethane | 3 | 0.6 | 9400 | | | | | | | 0.8 | | | |
| 4-methyl-2-pentanone | | | | | | | | | | | | | |
| 2-Hexanone | | | | | | | | | | | | | |
| Styrene | | | | | | | | | | | | | |
| Xylene | | | | | | | | | | | | | |
| Ethyl Benzene | 680 | 3100 | 32000 | | | | | | | | | | |

## TABLE C-2.2 (Continued)
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## STATE SURFACE WATER QUALTIY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Statewide Standards (a) CDH/WQCC | | | | | | | | | Segment 5 Classification and Water Quality Standards (b) CDH/WQCC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Human Health | | Aquatic Life | | State-Wide Radionuclide Standards | Table Value Standards | | | | Table 1 Additional Organic Chemical Standards | Steam Segment Table (2) | | Table 2 Radio-nuclides |
| | Water Supply | Water & Fish | Acute Value | Chronic Value | | Aquatic Life: Acute Value | Aquatic Life: Chronic Value | Agricul-tural Standard | Drinking Water Supply | | Acute Value | Chronic Value | |
| **Organics, (Con't.)** | | | | | | | | | | | | | |
| Benzene | 1.0 | 1.0 | 5300 | | | | | | | | | | |
| Carbon Tetrachloride | 0.3 | 0.25 | 35200 | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | |
| Aluminum | | | | | | 750 | 87 | | | | | | |
| Antimony | | | | | | | | | 14 | | | | |
| Arsenic | | | | | | 360 | 150 | 100 | 50 | | 50 | | |
| Barium | | | | | | | | | 1000 | | | | |
| Beryllium | | | | | | | | 100 | 0.0076 | | | | |
| Cadmium | | | | | | 5.92(1) | 1.21(1) | 10 | 10 | | 5.92(1) | 1.21(1) | |
| Calcium | | | | | | | | | | | | | |
| Chromium III | | | | | | 1850.9(1) | 220.6(1) | 100 | 50 | | 50 | | |
| Chromium IV | | | | | | 16 | 11 | 100 | 50 | | 16 | 11 | |
| Copper | | | | | | 19.1(1) | 12.6(1) | 200 | 1000 | | 19.1(1) | 12.6(1) | |
| Iron | | | | | | 1000 | | | 300(diss) | | | 300(diss) (1000 total) | |
| Lead | | | | | | 108.7(1) | 4.34(1) | 100 | 50 | | 108.7(1) | 4.34(1) | |
| Lithium | | | | | | | | | | | | | |
| Magnesium | | | | | | | | | | | | | |

## TABLE C-2.2 (Continued)
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## STATE SURFACE WATER QUALTIY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Statewide Standards (a) CDH/WQCC | | | | | | | | | Segment 5 Classification and Water Quality Standards (b) CDH/WQCC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Human Health | | Aquatic Life | | State-Wide Radionuclide Standards | Table Value Standards | | | | Table 1 Additional Organic Chemical Standards | Steam Segment Table (2) | | Table 2 Radio-nuclides |
| | Water Supply | Water & Fish | Acute Value | Chronic Value | | Aquatic Life | | Agricul-tural Standard | Drinking Water Supply | | Acute Value | Chronic Value | |
| | | | | | | Acute Value | Chronic Value | | | | | | |
| **Metals (cont.)** | | | | | | | | | | | | | |
| Manganese | | | | | | | 1000 | 200 | 50(diss) | | | 50(diss) 1000 (total | |
| Mercury | | | | | | 2.4 | 0.1 | | 2.0 | | | 0.01 | |
| Molybdenum | | | | | | | | | | | | | |
| Nickel | | | | | | 978.5(1) | 101.4(1) | | | | 978.5(1) | 101.4(1) | |
| Potassium | | | | | | | | | | | | | |
| Selenium | | | | | | 135 | 17 | 20 | 10 | | 10 | | |
| Silver | | | | | | 2.32(1) | 0.37(1) | | 50 | | 2.32(1) | 0.37(1) | |
| Sodium | | | | | | | | | | | | | |
| Strontium | | | | | | | | | | | | | |
| Thallium | | | | | | | 15 | | 0.012 | | | | |
| Vanadium | | | | | | | | | | | | | |
| Zinc | | | | | | 125.0(1) | 113.2(1) | 2000 | 5000 | | 125.0(1) | 113.2(1) | |
| **Non-Metallic Inorganics** | | | | | | | | | | | | | |
| pH (maximum) | | | | | | | | | | | | | |
| pH (minimum) | | | | | | | | | | | | | |
| Nitrite | | | | | | | | 10000 | 1000 | | 1000 | 1000 | |
| Nitrate | | | | | | | | 100000 | 10000 | | 10000 | 10000 | |

## TABLE C-2.2 (Continued)
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## STATE SURFACE WATER QUALTIY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

| Parameter | Statewide Standards (a) CDH/WQCC | | | | | | | | | Segment 5 Classification and Water Quality Standards (b) CDH/WQCC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Human Health | | Aquatic Life | | State-Wide Radionuclide Standards | Table Value Standards | | | | Table 1 Additional Organic Chemical Standards | Steam Segment Table (2) | | Table 2 Radio-nuclides |
| | Water Supply | Water & Fish | Acute Value | Chronic Value | | Aquatic Life | | Agricul-tural Standard | Drinking Water Supply | | Acute Value | Chronic Value | |
| | | | | | | Acute Value | Chronic Value | | | | | | |
| **Non-Metallic Inorganics (Con't.)** | | | | | | | | | | | | | |
| Chloride | | | | | | | | | 250000 | | 250000 | 250000 | |
| Sulfate | | | | | | | | | 250000 | | 250000 | 250000 | |
| TDS | | | | | | | | | | | | | |
| Fluoride | | | | | | | | | 2000 | | | | |
| Bicarbonate | | | | | | | | | | | | | |
| **Radionuclides** | | | | | | | | | | | | | |
| Gross Alpha | | | | | | | | | | | | | 7 pCi/$\ell$ |
| Gross Beta | | | | | | | | | | | | | 5 pCi/$\ell$ |
| $Pu^{239,240}$ | | | | | 15pCi/$\ell$ | | | | | | | | 0.05 pCi/$\ell$ |
| $H^3$ | | | | | 20000pCi/$\ell$ | | | | | | | | 500 pCi/$\ell$ |
| $Sr^{89,90}$ | | | | | 8pCi/$\ell$ | | | | | | | | 8 pCi/$\ell$ |
| $U^{Total}$ | | | | | 40pCi/$\ell$(4) | 2617.6(1) | 1635.0(1) | | | | | | 5 pCi/$\ell$ |
| $Cs^{137}$ | | | | | | | | | | | | | |
| $Ra^{226}$ | | | | | 5pCi/$\ell$ | | | | | | | | |
| $Am^{241}$ | | | | | | | | | | | | | 0.05 pCi/$\ell$ |

## TABLE C-2.2 (Continued)
## POTENTIAL CHEMICAL-SPECIFIC ARARs/TBCs FOR CONSTITUENTS IN DISCHARGES OF TREATED GROUND WATER
## STATE SURFACE WATER QUALTIY STANDARDS
## (Units are $\mu g/\ell$, unless otherwise specified)

(1) Calculated using an estimated average hardness of 108.1 mg/$\ell$ of $CaCO_3$, based on the Background Geochemical Characterization Report, EG&G, 1989.
(2) The site-specific standards for stream segment 5 are currently goals.
(3) Human health standard is for cis-isomer. Standard for trans- isomer is 100 $\mu g/\ell$.
(4) Standard shown for uranium is for the South Platte River, Laramie River, Republican River, and Smoky Hill River Basins; per 5 CCR Section 3.8.5(3).

[a] 5 CCR 1002-8, Section 3.1.11
[b] 5 CCR 1002-8, Section 3.8.6

TABLE C-3

ACTION-SPECIFIC ARARS FOR POTENTIAL CONSTITUENTS
IN WASTES FOR OFF-SITE DISPOSAL OR
ON-SITE PLACEMENT, OPERABLE UNIT NO. 2
SUBSURFACE INTERIM REMEDIAL ACTION*

| Constituent*** | Potential Waste Code | Treatment Standard** | Best Demonstrated Available Technology (BDAT) Basis for Standard |
|---|---|---|---|
| Aluminum | -- | -- | -- |
| Antimony | -- | -- | -- |
| Arsenic | D004 | 5.0 mg/ℓ | Vitrification |
| Barium | D005 | 100 mg/ℓ | Chemical Precipitation |
| Beryllium | P015 (as product dust) | -- | Metals Recovery [1] |
| Cadmium | D006 | 1.0 mg/ℓ | Stabilization |
| Calcium | -- | -- | -- |
| Chromium | D007 | 5.0 mg/ℓ | Stabilization |
| Copper | -- | -- | -- |
| Iron | -- | -- | -- |
| Lead | D008 | 5.0mg/ℓ | Stabilization |
| Lithium | -- | -- | -- |
| Manganese | -- | -- | -- |
| Magnesium | -- | -- | -- |
| Mercury | D009 | 0.20 mg/ℓ | Acid Leaching and Chemical Precipitation |
| | U151 | -- | Thermal Recovery [1] |
| Molybdenum | -- | -- | -- |
| Nickel | F006-F009, F011, F012 | 0.32 mg/ℓ | Stabilization |
| Potassium | -- | -- | -- |
| Selenium | D010 | 5.7 mg/ℓ | Stabilization |
| Silver | D011 | 5.0 mg/ℓ | Stabilization |
| Sodium | -- | -- | -- |

TABLE C-3 (Continued)

**ACTION-SPECIFIC ARARS FOR POTENTIAL CONSTITUENTS IN WASTES FOR OFF-SITE DISPOSAL OR ON-SITE PLACEMENT, OPERABLE UNIT NO. 2 SUBSURFACE INTERIM REMEDIAL ACTION***

| Constituent*** | Potential Waste Code | Treatment Standard** | Best Demonstrated Available Technology (BDAT) Basis for Standard |
|---|---|---|---|
| Strontium | -- | -- | -- |
| Thallium | -- | -- | -- |
| Vanadium | -- | -- | -- |
| Zinc | -- | -- | -- |
| Carbon Tetrachloride | U211 | 5.6 mg/kg | Incineration or Fuel Substitution |
| | F001 | 0.96 mg/ℓ | Incineration |
| 1,1 Dichloroethene | U078 | 33 mg/kg | Incineration or Fuel Substitution |
| Tetrachloroethene | U210 | 5.6 mg/kg | Incineration or Fuel Substitution |
| | F001 | 0.05 mg/ℓ | Incineration |
| Acetone | U002 | 160 mg/kg | Incineration or Fuel Substitution |
| | F003 | 0.59 mg/ℓ | Incineration |
| 2-Butanone | U159 | 36 mg/kg | Incineration |
| | F005 | 0.75 mg/ℓ | Incineration |
| Benzene | U019 | 36 mg/kg | Incineration |
| | F005 | 3.7 mg/kg | Incineration |
| Carbon Disulfide | P022 | -- | Incineration [1] |
| | F005 | 4.81 mg/ℓ | Incineration |
| Chloroform | U044 | 5.6 mg/kg | Incineration |
| Methylene Chloride | U080 | 33 mg/kg | Incineration or Fuel Substitution |
| | F001 | 0.96 mg/ℓ | Incineration |
| | F002 | 0.96 mg/ℓ | Incineration |
| Toluene | U220 | 28 mg/kg | Incineration |
| | F005 | 0.33 mg/ℓ | Incineration |
| Total Xylenes | U239 | 28 mg/kg | Incineration |
| | F003 | 0.15 mg/ℓ | Incineration |

TABLE C-3 (Continued)

**ACTION-SPECIFIC ARARS FOR POTENTIAL CONSTITUENTS IN WASTES FOR OFF-SITE DISPOSAL OR ON-SITE PLACEMENT, OPERABLE UNIT NO. 2 SUBSURFACE INTERIM REMEDIAL ACTION***

| Constituent*** | Potential Waste Code | Treatment Standard** | Best Demonstrated Available Technology (BDAT) Basis for Standard |
|---|---|---|---|
| Trichloroethene | U228 | 5.6 mg/kg | Incineration Fuel Substitution |
| | F001 | 0.91 mg/ℓ | Incineration |
| | F002 | 0.91 mg/ℓ | Incineration |
| Vinyl Chloride | U043 | 33 mg/kg | Incineration or Fuel Substitution |
| 1,1-Dichloroethane | U076 | 7.2 mg/kg | Incineration |
| 1,2-Dichloroethane | U077 | 7.2 mg/kg | Incineration |
| 1,2-Dichloroethene[3] | U079 | 33 mg/kg | Incineration |
| 1,1,1-Trichloroethane | U226 | 5.6 mg/kg | Incineration or Fuel Substitution |
| | F001 | 0.41 mg/ℓ | Incineration |
| | F002 | 0.41 mg/ℓ | Incineration |
| 1,1,2-Trichloroethane | U227 | 5.6 mg/kg | Incineration |
| 4-methyl-2-pentanone | F003 | 0.33 mg/ℓ | Incineration |
| 2-Hexanone | -- | -- | -- |
| Styrene | -- | -- | -- |
| Ethyl Benzene | F003 | 0.053 mg/ℓ | Incineration |
| Multi-Source Leachate[2] | F039 | | |

* Land Disposal Restrictions at 40 CFR Part 268. Treatment standards identified are based on the potential hazardous waste code(s) that could be assigned to the parameters of concern.

** Treatment standards are presented for non-wastewaters.

*** RCRA does not include radionuclides as hazardous wastes.

1 Standard is expressed as a specific technology.

2 U.S. EPA added listed hazardous waste code F039 to 40 CFR 261.31 June 1, 1990 (55 FR 22520) and defined it as "leachate resulting from the treatment, storage, or disposal of wastes classified by more than one waste code under [40 CFR Part 261] Subpart D, or from a mixture of wastes classified under Subparts C and D of this part." If this waste code is deemed applicable to a waste, the waste must meet the treatment standards (see 40 CFR Part 268 Tables CCW and CCWE) prior to land disposal.

3 Standard is for the trans isomer.

**TABLE C-4**
**ANALYSIS OF ACTION SPECIFIC ARARs**
**FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA**

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Treatment | Hazardous Waste must be treated to meet treatment standard or using specific technology. | Waste must be identifiable as hazardous per 40 CFR Part 261. Movement of hazardous waste (listed or characteristic) from one unit or area of contamination into another. Consolidation within a unit or area of contamination does not trigger applicability. | RCRA Sections 3004(d)(3), (e)(3) 42 U.S.C. 6924(d)(3), (e)(3) 40 CFR 268 (Subpart D) | Applicable | Placement of excavated soil or treatment wastes on site or transportation off site must be treated to attain levels achievable by best demonstrated available treatment technologies before being land-disposed. If soil and debris are not hazardous waste, EPA policy is that LDR is generally not relevant and appropriate, per EPA 1989d. See also Table C-3. |
| Hazardous Waste Generation | Standards applicable to generators including waste accumulation, recordkeeping, container labelling, manifesting, etc. | Waste must be identifiable as hazardous per 40 CFR Part 261. | 40 CFR Part 262 | Applicable | Wastes generated in proposed action may be identifiable as hazardous wastes. Examples may include treatment sludge, excavated soils, used treatment materials. Potentially, R&A if wastes are not hazardous but similar to subwastes. |
| Hazardous Waste Transportation | Hazardous waste shipment off-site is subject to DOT regulations, manifesting, recordkeeping, and discharge cleanup, etc. | Wastes must be identifiable as hazardous per 40 CFR Part 261. | 40 CFR Part 263 | Applicable | Wastes identifiable as hazardous must comply with applicable hazardous waste requirements for off-site shipment. See also "Off-Site Treatment, Storage or Disposal." |
| Excavation/ Consolidation | Consolidation in storage piles/storage tanks will trigger storage requirements. | | 40 CFR Part 264 Subpart L/ 40 CFR Part 264 Subpart J | Applicable | RCRA requirements for storage in waste piles or tanks are applicable to interim storage of excavated soil or other materials identifiable as hazardous wastes. |
| | Placement on or in land outside unit boundary or area of contamination will trigger land disposal requirements and restrictions. | Wastes must be identifiable as hazardous per 40 CFR Part 261. | | | |

TABLE C-4 (Continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Treatment or Storage in Tanks | Tanks must have sufficient shell strength (thickness), and, for closed tanks, pressure controls, to assure that they do not collapse or rupture. | RCRA hazardous waste (listed or characteristic), held for temporary period before treatment, disposal, or storage elsewhere, (40 CFR 264.10) in a tank. | 40 CFR 264.190 | R&A | Applicable to treatment and storage tanks used in treating or containing water contaminated with hazardous waste. R&A because units used in IM/IRA are excluded under RCRA as wastewater treatment units. |
| | Waste must not be incompatible with the tank material unless the tank is protected by a liner or by other means. | | 40 CFR 264.191 | R&A | |
| | New tanks or components must be provided with secondary containment. | | 40 CFR 264.193 | R&A | |
| | Tanks must be provided with controls to prevent overfilling, and sufficient freeboard maintained in open tanks to prevent overtopping by wave action or precipitation. | | 40 CFR 264.194 | R&A | |
| | Inspect the following: overfilling control, control equipment, monitoring data, waste level (for uncovered tanks), tank condition, above-ground portions of tanks, (to assess their structural integrity) and the area surrounding the tank (to identify signs of leakage). | | 40 CFR 264.195 | R&A | |
| | Repair any corrosion, crack, or leak. | | 40 CFR 264.196 | R&A | |
| | At closure, remove all hazardous waste and hazardous waste residues from tanks, discharge control equipment and discharge confinement structures. | | 40 CFR 264.197 | R&A | |

TABLE C-4 (Continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Treatment or Storage in Tanks (cont.) | Store ignitable and reactive waste so as to prevent the waste from igniting or reacting. Ignitable or reactive wastes in covered tanks must comply with buffer zone requirements in "Flammable and Combustible Liquids Code," Tables 2-1 through 2-6 (National Fire Protection Association, 1976 or 1981). | | 40 CFR 264.198 | R&A | |
| Container Storage (On-Site) | Containers of hazardous waste must be:<br>· Maintained in good condition; | RCRA hazardous waste (listed or characteristic) held for a temporary period before treatment, disposal, or storage elsewhere, in a container. | 40 CFR 264.171 | Applicable | RCRA container storage requirements are applicable if hazardous wastes are stored, R&A if stored wastes are not RCRA hazardous wastes, but similar to such wastes. |
| | · Compatible with hazardous waste to be stored; and | | 40 CFR 264.172 | | |
| | · Closed during storage (except to add or remove waste). | | 40 CFR 264.173 | | |
| | Inspect container storage areas weekly for deterioration. | | 40 CFR 264.174 | | |
| | Place containers on a sloped, crack-free base, and protect from contact with accumulated liquid. Provide containment system with a capacity of 10% of the volume of containers of free liquids. Remove spilled or leaked waste in a timely manner to prevent overflow of the containment system. | | 40 CFR 264.175 | | |
| | Keep containers of ignitable or reactive waste at least 50 feet from the facility's property line. | | 40 CFR 264.176 | | |

TABLE C-4 (Continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Container Storage (On-Site) (cont) | Keep incompatible materials separate. Separate incompatible materials stored near each other by a dike or other barrier. | | 40 CFR 264.177 | | |
| | At closure, remove all hazardous waste and residues from the containment system, and decontaminate or remove all containers, liners. | | 40 CFR 264.178 | | |
| Off-Site Treatment, Storage or Disposal | In the case of any removal or remedial action involving the transfer of any hazardous substance or pollutant or contaminant off-site, such hazardous substance or pollutant or contaminant shall only be transferred to a facility which is operating in compliance with section 3004 and 3005 of the Solid Waste Disposal Act (or where applicable, in compliance with the Toxic Substances Control Act or other applicable Federal law) and all applicable State requirements. Such substance or pollutant or contaminant may be transferred to a land disposal facility only if it can be determined that both of the following requirements are met:<br>· The unit to which the hazardous substance or pollutant or contaminant is transferred is not releasing any hazardous waste, or constituent thereof, into the ground water or surface water or soil. | | SARA section 121(d)(2)(C) | Applicable | Applicable to the off-site treatment, storage, or disposal of wastes generated during on-site remedial actions. |

TABLE C-4 (Continued)
ANALYSIS OF ACTION SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Off-Site Treatment Storage or Disposal (cont) | · All such releases from other units at the facility are being controlled by a corrective action program approved by the Administrator under subtitle C of the Solid Waste Disposal Act. | | | | |
| Discharge of Water into Surface Water Bodies | NPDES permit requirements apply to discharging water into surface water bodies. | | 40 CFR 122 and 40 CFR 125 | Applicable | The IM/IRA includes treatment of extracted ground water in the South Walnut Creek treatment system prior to discharge off site. The South Walnut Creek treatment system is a part of another IM/IRA. Effluent ARARs identified in Table C-1 will be imposed for treatment of ground water resulting from this IM/IRA. |
| | All surface water discharges must be in compliance with recently promulgated Colorado Stream Discharge Standards | | 5 CCR 1002-8 | Applicable | The IM/IRA includes treatment of extracted ground water in the South Walnut Creek treatment system prior to discharge off site. The South Walnut Creek treatment system is a part of another IM/IRA. Effluent ARARs identified in Table C-1 will be imposed for treatment of ground water resulting from this IM/IRA. |
| Discharge of Treatment System Effluent | Use of best available technology (BAT) economically achievable is required to control toxic and non-conventional pollutants. Use of best conventional pollutant control technology (BCT) is required to control conventional pollutants. Technology-based limitations may be determined on a case-by-case basis. | | 40 CFR 122.44 | Applicable | The IM/IRA includes treatment of extracted ground water in the South Walnut Creek treatment system prior to discharge off site. The South Walnut Creek treatment system is a part of another IM/IRA. Effluent ARARs identified in Table C-1 will be imposed for treatment of ground water resulting from this IM/IRA. |
| Emission of Air Pollutants | Use of emission control technologies may be required to prevent emission of criteria pollutants hazardous air pollutants, air toxics. | Must meet criteria for regulated source, based on volume and/or type | 5 CCR 1001-1 through 8 | Applicable | See Table C-6 |

**TABLE C-4 (Continued)**
**ANALYSIS OF ACTION SPECIFIC ARARs**
**FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA**

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| Emission of Radionuclide Air Pollutants | Monitoring and control DOE facilities of radionuclides | | 40 CFR 61 Subpart H | Applicable | Applicable fenceline assessment of dose-equivalent to public. See Table C-6. |
| Environmental Impact of Federal Actions | A statement of environmental impact is required. Establishes provisions applicable to and binding on all federal agencies for implementing the procedural requirements of the National Environmental Policy Act (NEPA). Includes procedures for planning (Part 1501), preparing environmental impact statements (part 1502), decision-making (Part 1505), and compliance (Part 1507). | | NEPA Section 102(2)(c) and 40 CFR 1500-1508; DOE 5440.1C | R&A | EPA, CDH, and DOE have reached agreement on the applicability of NEPA to RCRA/CERCLA actions. |

TABLE C-5
ANALYSIS OF LOCATION-SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT NO. 2, SUBSURFACE IM/IRA

| LOCATION | CITATION | REQUIREMENT | ARAR TYPE* | COMMENTS |
|---|---|---|---|---|
| Fault zones | 40 CFR 264.18(a) | RCRA regulations specify that hazardous waste treatment, storage, or disposal must not take place within 200 feet of a Holocene fault. | R&A | No faults displaced during Holocene times exist within 200 feet of this site. |
| Flood plain | 40 CFR 264.18(b) | Any RCRA treatment, storage, or disposal facility which lies within a 100-year floodplain must be designed, constructed and operated to avoid washout. | R&A | This site is not located within a 100-year floodplain. |
| Siting of Hazardous Waste Disposal Sites | Colorado Hazardous Waste Act, Sections 25-15-101, 203, 208, 302 | Outlines siting criteria for hazardous waste disposal sites. | R&A | Although the proposed action involves the treatment of water rather than disposal of hazardous wastes, these criteria are considered in the siting of the unit. |
| Siting of Wastewater Treatment Facilities | Colorado Water Quality Control Act Section 25-8-202 and 25-8-702 | CDH Water Quality Control Division must approve locations of wastewater treatment facilities. | R&A | Applicable to domestic wastewater treatment facilities, relevant and appropriate to the proposed action. |
| Siting within an area where action may cause irreparable harm, loss, or destruction of significant articles. | 36 CFR Part 65, National Historic Preservation Act | Planned actions must avoid threatening significant scientific, prehistorical, historical, or archeological data. | Applicable | Proposed activities will not threaten significant scientific, historic, prehistoric, or archeological artifacts. |
| Siting on or near historic property owned or controlled by Federal agency. | 36 CFR Part 800, National Historic Preservation Act | Action to preserve historic properties; planning of action to minimize harm to National Historic Landmarks, included in or eligible for the National Register of Historic Places | Applicable | Proposed activities will not disturb known or suspected historic sites. Refer to Sections 4.3.3.3, 4.4.3.3, and 4.5.3.3. |

TABLE C-5 (continued)
ANALYSIS OF LOCATION-SPECIFIC ARARs
FOR REMEDIAL ACTIONS AT OPERABLE UNIT NO. 2, SUBSURFACE IM/IRA

| LOCATION | CITATION | REQUIREMENT | ARAR TYPE* | COMMENTS |
|---|---|---|---|---|
| Siting on critical habitat of endangered or threatened species. | 50 CFR Parts 200, 402, 33 CFR Parts 320-330 | Action to conserve endangered or threatened species. | Applicable | Proposed activities will not adversely affect endangered or threatened species. Refer to Sections 4.3.3.3, 4.4.3.3, and 4.5.3.3. |
| Wetlands | 40 CFR Part 6, Appendix A | Actions must minimize the destruction, loss, or degradation of wetlands, as defined by Executive Order 11990, Section 7. | Applicable | Proposed activities will not adversely affect wetlands. Refer to Sections 4.3.3.3, 4.4.3.3, and 4.5.3.3. |
| | 40 CFR Parts 230, 231 | Actions must not discharge dredged or fill material into wetlands without permit. | Applicable | Proposed activities will not adversely affect wetlands. Refer to Sections 4.3.3.3, 4.4.3.3, and 4.5.3.3. |
| Area affecting stream or river. | 40 CFR 6.302 | Action must protect fish or wildlife. | Applicable | Proposed action will be protective of potentially affected fish and wildlife resources. Refer to Sections 4.3.3.3, 4.4.3.3, and 4.5.3.3. |

* The ARAR types designated reflect the application status of each requirement when preparation of this IM/IRA began. In response to these requirements, investigations were performed and the results are indicated in the Comments column which reflect the lack of any location-specific ARAR requirements which would preclude the proposed action.

## TABLE C-6

## PROPOSED ARARs/TBCs FOR CONSTITUENTS IN IM/IRA AIR EMISSIONS

| Constituent | Proposed ARAR | Proposed TBC | Reference | Comments |
|---|---|---|---|---|
| Beryllium | | 10 g | AQCC Regulation 8 | Measured in any 24 hour period. |
| Benzene | | 500 ppm | AQCC Regulation 8 | * |
| Mercury | | 2300 g | AQCC Regulation 8 | Measured in any 24 hour period. |
| Lead | 1.5 $\mu g/m^3$ | | AQCC Regulation 8 | Average in any one month period. |
| Vinyl Chloride | | 10 ppm | AQCC Regulation 8 | • |
| Radionuclides | 10 mrem/yr | | 40 CFR Part 61 Subpart H | Dose equivalence calculated for fenceline exposure for entire plant. |

- No source type applies to or closely approximates the proposed actions. Standard shown has applied to a majority of the sources.

# APPENDIX D

# GEOLOGIC LOGS

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5959.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | 0% 50% | 100% 0% 100% | 1.85/2 | 5969 5968 | 0 1 | | | GM: | SILTY SANDY GRAVEL - predom. med. gray (N5), angular to rounded, well graded, granules to 6 cm., sand med. to coarse grained, mod. well graded, some root material, some clay. |
| | | | 1.8/1.64 | 5967 5966 | 2 3 | | | GM: | Same as above. |
| | | | 0/0.36 | | | | | NO SAMPLE: | |
| | | | 1.6/0.95 | 5965 | 4 | | | GM: | GRAVEL - as above, max. size 6 cm., silty clay matrix est. plast. low to mod., grayish orange to white (10YR 7/4) to (N9), some caliche |
| | | | 1.85/2.05 | 5964 5963 | 5 6 | | | SC: | Sandy Clay & Caliche - lt. brown (5YR 5/6) to white (N9), est. plast. low, sand VFG to coarse, well graded. |
| | | | 0.5/0.9 | 5962 | 7 | | | GM: | Silty Gravel & Sand - gravel lt. gray (N7) to lt. olive gray (5Y 5/2), angular to sub-rounded, sand VFG to granules, well graded, gravel well graded, trace CaCO3. |
| | | | 0/1.1 | 5961 | 8 | | | NO SAMPLE: | |
| | | | 1.3/1.75 | 5960 | 9 10 | | | GW: | GRAVEL - no predom. color, angular to sub-rounded, well graded, granules to 3 cm., some sand, well graded, VFG to granules, trace silt and clay |

| | | | | | |
|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: | |
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/DCB | 16-87BR | |
| EAST: 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5959 | 10 | | | | |
| | | | | 5958 | 11 | | | NO SAMPLE: | |
| | | | | 5957 | 12 | | | | |
| | | | | 5956 | 13 | | | | |
| | | | | 5955 | 14 | | | | |
| | | | 0/9.25 | 5954 | 15 | | | | |
| | | | | 5953 | 16 | | | | |
| | | | | 5952 | 17 | | | | |
| | | | | 5951 | 18 | | | | |
| | | | | 5950 | 19 | 06/18/87 | | | |
| | | | | | 20 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5959.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2/2.6 | 5949 | 20 | | | GC: | SANDY GRAVEL - medium light gray (N6), matrix is light brown (5YR 6/4), sub-angular to sub-rounded, moderately graded, max. size 4 cm., some clay. |
| | | | | 5948 | 21 | | | | |
| | | | | 5947 | 22 | | | | |
| | | | 0/0.4 | | | | | CLAYSTONE: | Top of Bedrock<br>Very light gray (N8), bedding not apparent, highly weathered, slightly friable, occasional iron stains. |
| | | | | 5946 | 23 | | | NO SAMPLE: | |
| | | | 0.9/0.9 | | | | | CLAYSTONE: | As above (reference interval 22.3 to 22.6 ft.) |
| | | | | 5945 | 24 | | | CLAYSTONE: | As above. |
| | | | 2.1/2.1 | 5944 | 25 | | | | |
| | | | | 5943 | 26 | | | CLAYSTONE: | As above, color grades to grayish orange (10YR 7/4) approx. 26 to 27 ft with increase in iron staining. |
| | | | 2/2 | 5942 | 27 | | | | |
| | | | | 5941 | 28 | | | SILTY CLAYSTONE: | Pinkish gray (5YR 8/1), bedding not apparent, highly weathered, slightly friable, moderate silt fraction, local iron staining. |
| | | | 1.4/1.4 | 5940 | 29 | | | | |
| | | | 0/0.6 | | 30 | | | NO SAMPLE: | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5959.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER: |
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | CL SIL SAN | 100% CR 100% | 1.6 /1.35 | 5939 | 30 | | | | SILTY CLAYSTONE: Very pale orange (10YR 8/2), bedding not evident, highly weathered, mod. friable, some iron staining, becomes mod. yellowish brown (10YR 5/4) toward bottom of interval. |
| | | | 0 /0.65 | 5938 | 31 | | | | NO SAMPLE: |
| | | | 1.8 /2 | 5937 | 32 | | | | SILTY CLAYSTONE: Same as above, heavy ironization and abundant black mineralization near top of interval. |
| | | | 1.85 /2 | 5936 | 33 | | | | |
| | | | 1.75 /2 | 5935 | 34 | | | | SILTY CLAYSTONE: Very lt. gray to grayish orange (10YR 7/4 to N8), highly weathered, mod friable, bedding not evident, some iron staining. |
| | | | 1.75 /2 | 5934 | 35 | | | | |
| | | | 1.75 /2 | 5933 | 36 | | | | SILTY CLAYSTONE: Same as above. |
| | | | 1.75 /2 | 5932 | 37 | | | | |
| | | | 1.75 /2 | 5931 | 38 | | | | SILTY CLAYSTONE: Same as above. |
| | | | | 5930 | 39 | | | | |
| | | | | | 40 | | | | |

| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CHANGE IN GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (CL SIL SAND GRAVEL) | PERCENT RECOVERY (100% CR / 100% RQD) | RECOVERY/ INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5969 | 40 | | | SILTY CLAYSTONE | Grayish orange (10YR 7/4 to 10YR 6/2), highly weathered, mod. friable, bedding not evident, some iron staining. |
| | | | | 1.7 /2 | 5968 | 41 | | | | |
| | | | | | 5967 | 42 | | | SILTY CLAYSTONE | Same as above with color change to light brownish gray (5YR 6/1) |
| | | | | 1.8 /2 | 5966 | 43 | | | | |
| | | | | | 5965 | 44 | | | SILTY CLAYSTONE | Same as above with color change to medium dk. gray (N4), some carb material, no iron staining. |
| | | | | 1.75 /2 | 5964 | 45 | | | | |
| | | | | | 5963 | 46 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 1.85 /2 | 5962 | 47 | | | | |
| | | | | | 5961 | 48 | | | SILTY CLAYSTONE | Same as above, some iron staining. |
| | | | | 1.8 /2 | 5960 | 49 | | | | |
| | | | | | | 50 | | | CALICHE | White (N9), slightly friable. |

| | | | | | | |
|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5969.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CHEMICAL SAMPLE / GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 0% 50% 100% | 0% 100% | | 5919 | 50 | | | CLAYSTONE: | Light gray (N7), bedding not apparent (massive?), weathered, slightly to moderately friable, localized iron staining. |
| | | | | 4.2 /2.2 | 5918 | 51 | | | NO SAMPLE: | |
| | | | | 0 /0.29 | 5917 | 52 | | | | |
| | | | | 3 /3 | 5916 | 53 | | | CLAYSTONE: | Medium dark gray (N4), bedding not apparent (massive?), weathered, slightly friable, localized iron staining, and carbonaceous mineralization, occasional small bodies or lenses of coal <2.5 mm thick |
| | | | | | 5915 | 54 | | | | |
| | | | | | 5914 | 55 | | | | |
| | | | | | 5913 | 56 | | | CLAYSTONE: | Same as above. |
| | | | | | 5912 | 57 | | | | |
| | | | | 4.5 /4.5 | 5911 | 58 | | | SILTY CLAYSTONE: | Light gray (N7), bedding not apparent (massive?), weathered, moderately friable. |
| | | | | | 5910 | 59 | | | | |
| | | | | | | 60 | | | | |

| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5969.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | 100% | 1.6 /1.6 | 5969 | 60 | | | SILTY CLAYSTONE: | Same as above. Slickensides occur at approx. 60.3 ft., curvilinear, surface angle not applicable. Fracture at 61.4 ft. with carbonaceous mineralization. |
| | | | | 5968 | 61 | | | | |
| | | | | 5967 | 62 | | | SILTY CLAYSTONE: | As above. |
| | | | | 5966 | 63 | | | | |
| | | | | 5965 | 64 | | | | |
| | | | 2.8 /6.35 | 5964 | 65 | | | | |
| | | | | 5963 | 66 | | | | |
| | | | | 5962 | 67 | | | | |
| | | | 0 /0.05 | 5961 | 68 | | | NO SAMPLE: | |
| | | | | 5960 | 69 | | | SILTY CLAYSTONE: | As above (reference interval 61.6 to 67.95 ft.), bedding may be horizontal based on core breakage, appears wavy, weathering prevents better description, possible sulfur flower on bedding planes |
| | | | 3 /3 | | 70 | | | | |

| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5959.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CHEMICAL SAMPLE / GRADATIONAL SAMPLE | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 70 | | | | |
| | | | | 0.1/1 | 5959 | 71 | | | SILTY CLAYSTONE: | As above. |
| | | | | 2/2 | 5958 | 72 | | | SILTY CLAYSTONE: | As above. |
| | | | | 2/2 | 5957 | 73 | | | SILTY CLAYSTONE: | As above. Slickenside at 75 ft. 60 degree angle, coal body approx. 1.5 cm. in thickness also occurs at this depth and angle. At 75 ft. interval grades to silty claystone, yellowish gray (5Y 7/2), bedding not apparent (massive?). |
| | | | | 3.2/3.2 | 5956 | 74 | | | CLAYSTONE: | At 76 ft. interval grades to interbedded claystone and siltstone, medium gray (N5) and light gray (N7) respectively, bedding is horizontal, interfingering very fine sandstone occurs occasionally in this interval, weathered, moderately friable, carbonaceous. Interval grades to siltstone, light gray (N7), bedding not apparent (massive?), weathered, mod. friable. |
| | | | | 0/0.8 | 5955 | 75 | | | NO SAMPLE: | |
| | | | | | 5954 | 76 | | | | |
| | | | | | 5953 | 77 | | | | |
| | | | | | 5952 | 78 | | | | |
| | | | | | 5951 | 79 | | | | |
| | | | | | 5950 | 80 | | | | |

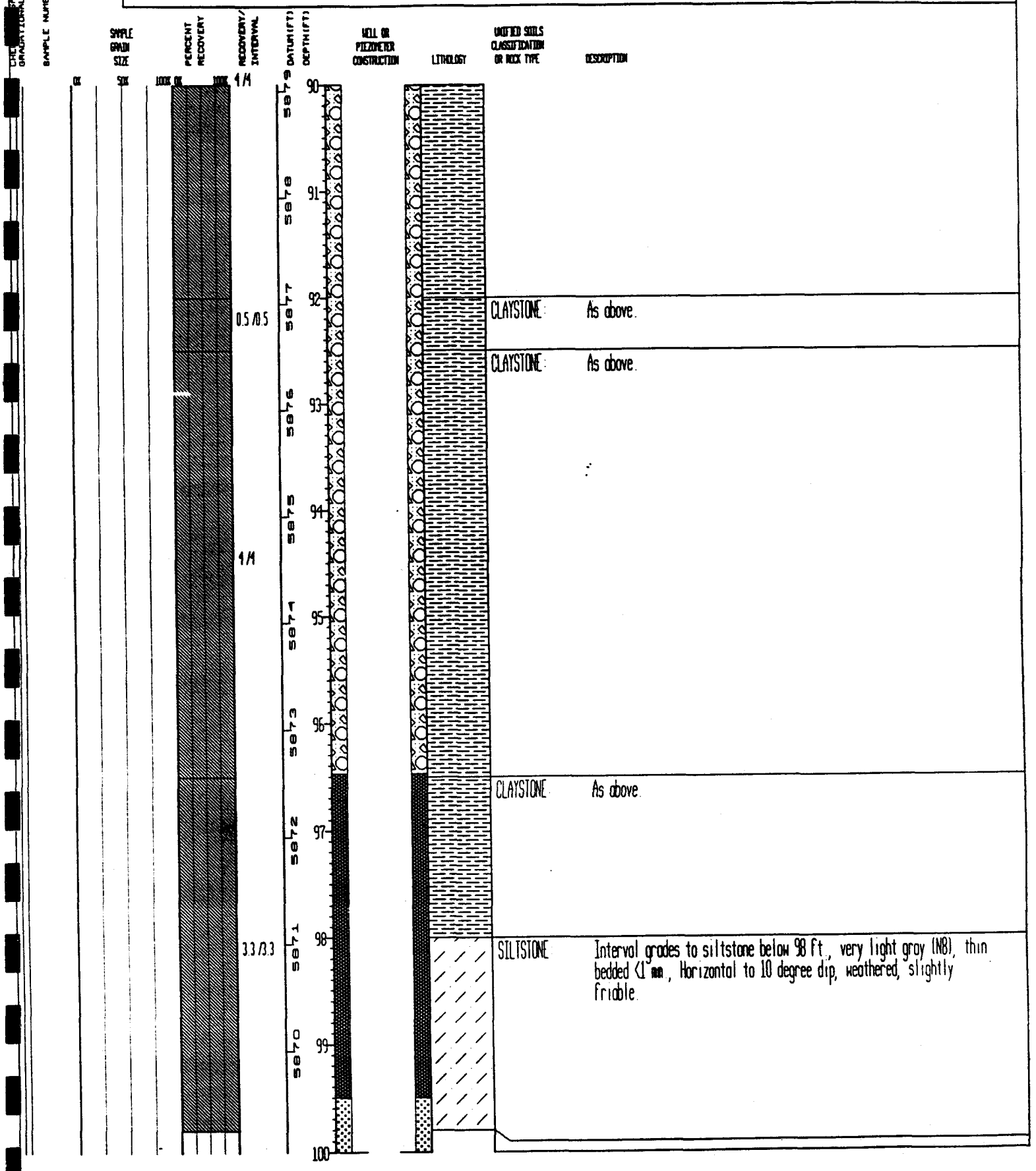
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5969.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CHEMICAL SAMPLE / GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 0% | | 50% | 100% 0% 100% | 1/1 | 5989 | 80 | | | CLAYSTONE | Medium light gray (N6), bedding not apparent (massive?), weathered, slightly friable, slight silt fraction and occasional short intervals of silt. |
| | | | | | 5988 | 81 | | | | |
| | | | | | 5987 | 82 | | | | |
| | | | | | 5986 | 83 | 12/01/87 | | | |
| | | | | | 5985 | 84 | | | CLAYSTONE | Same as above. |
| | | | | | 5984 | 85 | | | | |
| | | | | 1/1 | 5983 | 86 | | | | |
| | | | | | 5982 | 87 | | | | |
| | | | | | 5981 | 88 | | | CLAYSTONE | As above. |
| | | | | | 5980 | 89 | | | | |
| | | | | 1/1 | | 90 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5969.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER: |
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.



| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/DCB | 16-87BR |
| EAST: 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CHEMICAL SAMPLE NUMBER | GRADATIONAL SAMPLE DEPTH | SAMPLE GRAIN SIZE (CL, SIL, SAN, GRV) | PERCENT RECOVERY (0%, 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 /0.69 | 5969 | 100 | | | NO SAMPLE: | |
| | | | | 1.2 /1.2 | 5968 | 101 | | | SILTSTONE: | Very light gray (N8), thin bedded <1 mm, horizontal to 10 degree dip, weathered, slightly friable, slight sand fraction very fine grained, interbedded. |
| 6164 | | | | 3.3 /3.3 | 5967 | 102 | | | SILTSTONE: | As above. |
| | | | | | 5966 | 103 | | | | |
| | | | | | 5965 | 104 | | | | |
| | | | | | 5964 | 105 | | | SILTSTONE: | As above with abundant very fine grained sand from 105.0 to 105.4 ft |
| | | | | | 5963 | 106 | | | | |
| | | | | 4 /4 | 5962 | 107 | | | | |
| | | | | | 5961 | 108 | | | | |
| | | | | | 5960 | 109 | | | SILTSTONE: | As above. |
| | | | | | | 110 | | | | |

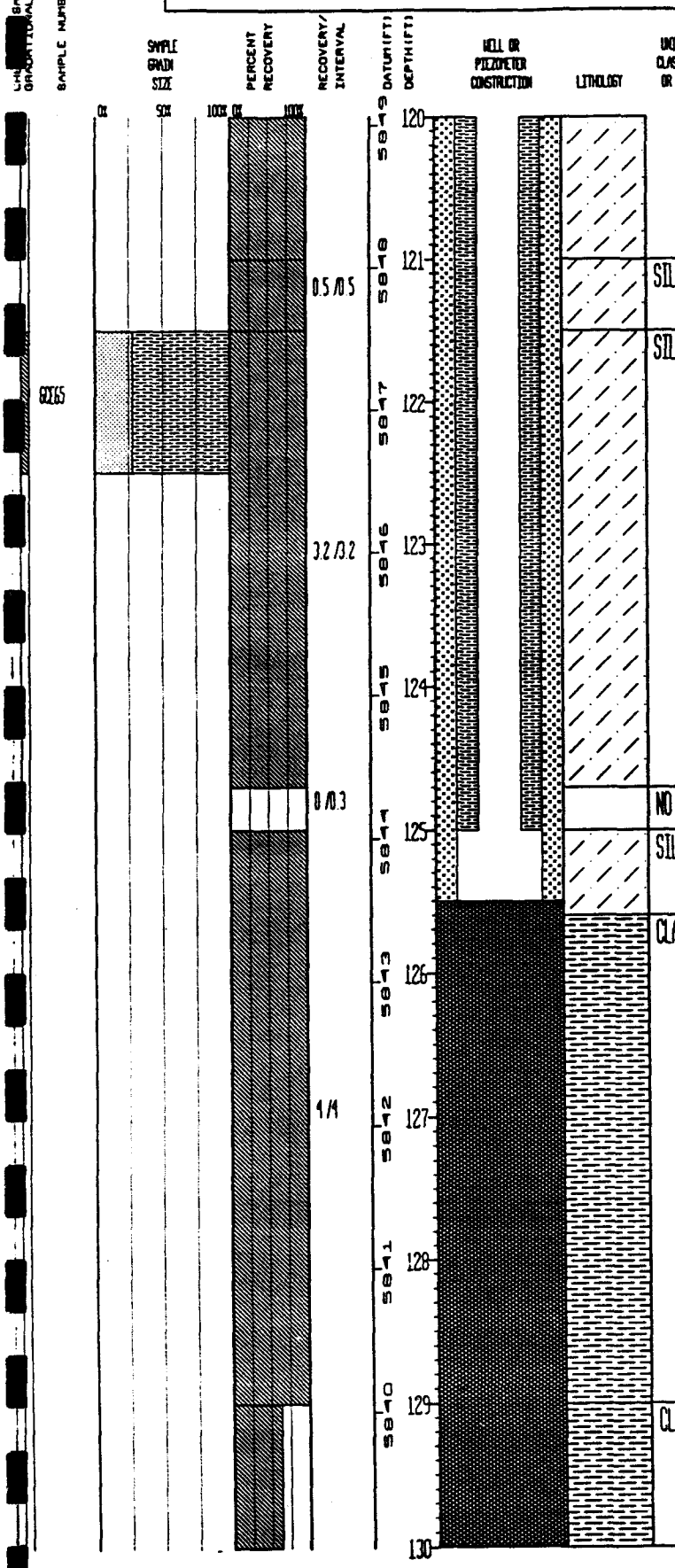
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRADIN SIZE | PERCENT RECOVERY | RECOVERY/ INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | 0% 50% | 100% 0% 100% | 3.3 /3.3 | 5959 5958 5957 | 110 111 112 | | | | |
| | | | 0 /0.69 | 5956 | 113 | | | NO SAMPLE: | |
| | | | 1 /1 | 5955 5954 5953 | 114 115 116 | | | SILTSTONE: | As above. |
| | | | 1 /1 | 5952 5951 5950 | 117 118 119 | | | SILTSTONE: | As above, 0.75 ft. slabbed, bedding is dominantly deformed through bioturbation otherwise roughly horizontal, thin bedded < 2.5 mm, interbedded siltstone, sandstone and claystone, small scale offsets in bedding. |
| | | | | | 120 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): | 5969.06 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4 | DATE DRILLED: | 07/08/87 | |

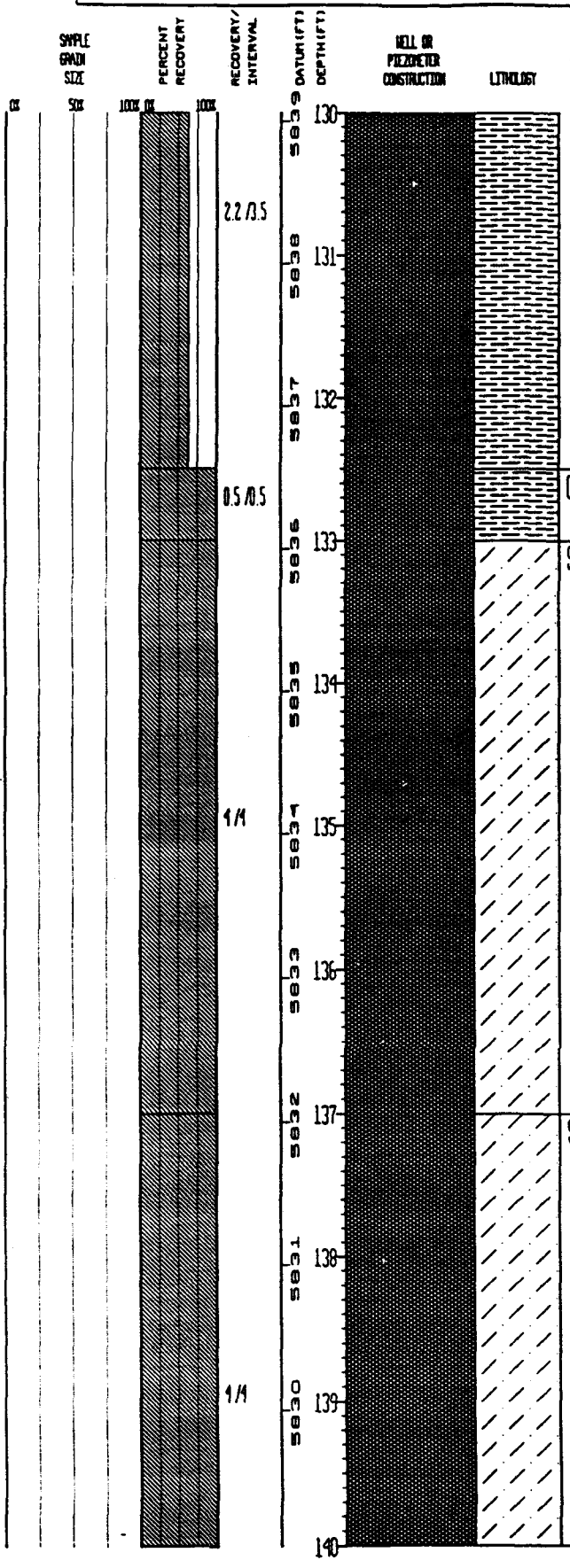
REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.




| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| SILTSTONE: | As above. |
| SILTSTONE: | As above. |
| NO SAMPLE: | |
| SILTSTONE: | Light gray (N7), laminar bedding with some wavy bedding, weathered, slightly friable. |
| CLAYSTONE: | Interval grades to claystone at approx. 125.6 ft., olive gray (5Y 4/1), bedding approx. 10 degrees based on core breaks, weathered, slightly friable, carbonaceous mineralization occurs locally, fossil leaf at approx. 126 ft., short intervals of siltstone occur occasionally |
| CLAYSTONE: | As above. |

| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/DCB | 16-87BR |
| EAST: 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.




| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| CLAYSTONE: | As above. |
| SILTSTONE: | Interval grades to siltstone at 132.9 ft., light gray (N7), thin bedded, weathered, slightly friable, occasionally interbedded with claystone |
| SILTSTONE: | As above with increasing very fine sand fraction. |

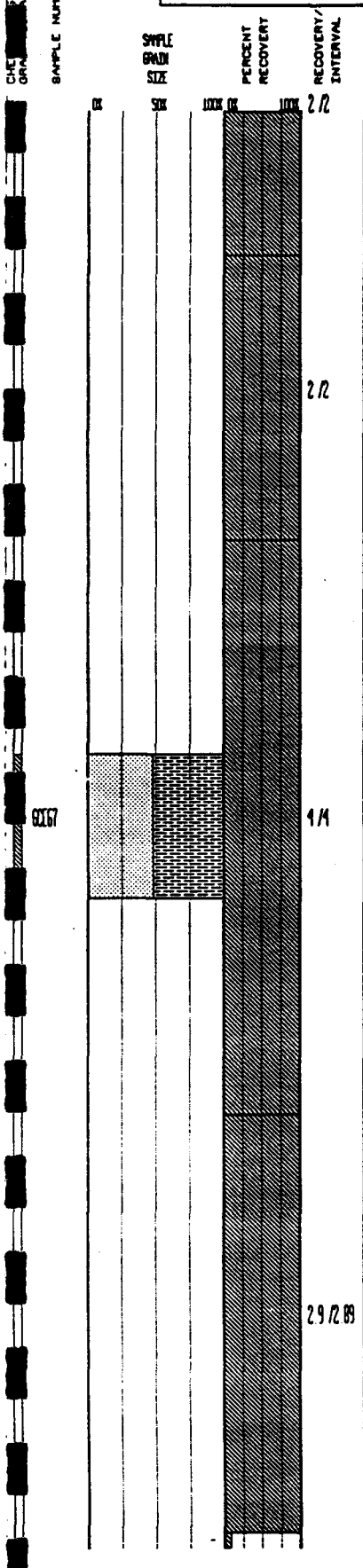
| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/DCB | 16-87BR |
| EAST: 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| CRAMER SAMPLE GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5929 | 140 | | | | |
| | | | | | 5928 | 141 | | | SANDSTONE: | Interval grades to sandstone by approx. 140.5 ft., light gray (N7), thin bedded, weathered, slightly friable, very fine grained, abundant silt. |
| | 6066 | | | | 5927 | 142 | | | | |
| | | | | 3.9/3.83 | 5926 | 143 | | | | |
| | | | | | 5925 | 144 | | | SILTSTONE: | Interval grades to siltstone at approx. 143.8 ft., light gray (N7), thin bedded <2.5 mm., weathered, slightly friable, slight clay and VF6 sand fraction. |
| | | | | 0/0.1 | 5924 | 145 | | | NO SAMPLE: | |
| | | | | | | | | | SANDSTONE: | Light gray (N7), thin bedded <2 mm., weathered, slightly friable, medium to fine grained, moderately sorted, sub-rounded to rounded |
| | | | | 3.2/3.2 | 5923 | 146 | | | SILTSTONE: | Interval grades to siltstone at approx. 145.4 ft., light gray (N7), thin bedded <2.5 mm., convolute bedding possible, bioturbation load casts visible in slab, weathered, slightly friable. |
| | | | | | 5922 | 147 | | | SILTY CLAYSTONE: | Interval grades to silty claystone at 147.0 ft. Light gray (N7) to med gray (N5), bedding not apparent, weathered, slightly friable |
| | | | | 0/0.8 | 5921 | 148 | | | NO SAMPLE: | |
| | | | | 2/2 | 5920 | 149 | | | SANDSTONE: | As above, (reference interval 147.0 ft. to 148.2 ft.), slickensides occur at approx. 150 ft. approx. 70 degree angle, slight to moderate silt fraction. |
| | | | | | | 150 | | | | |

| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.




SANDSTONE: As above.

SILTSTONE: Interval grades to siltsone, light gray (N7), thin bedded, wavy, weathered, slightly friable, slight clay fraction, carbonaceous mineralization along bedding plane parting at approximately 155 ft

SILTSTONE: As above with increase in sand fraction below 157.3 ft sandy siltstone.

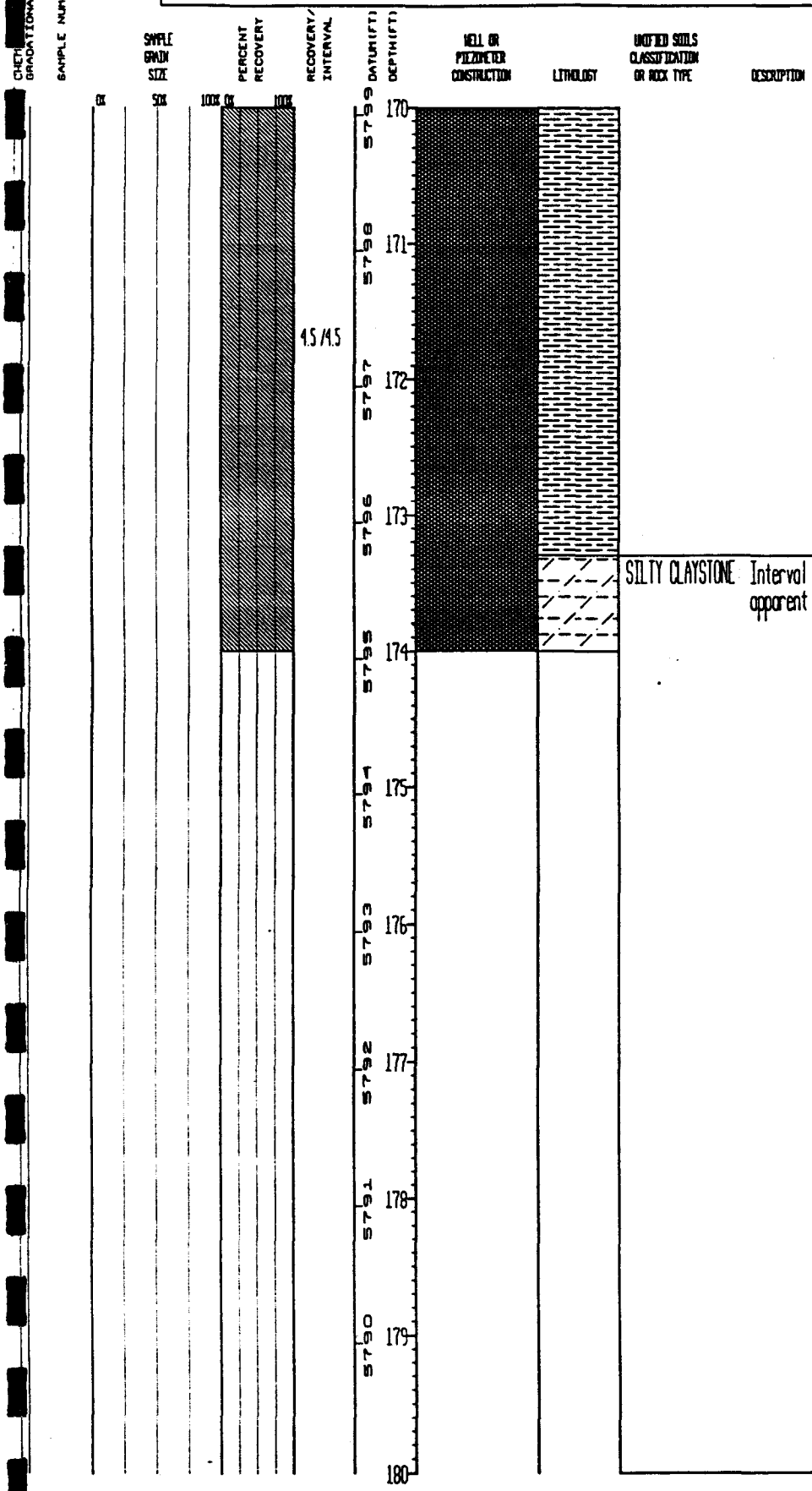
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: M9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.

| SAMPLE NUMBER | SAMPLE GRADE SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | 0% 100% | 0.1/1.1 | 5909 | 160 | | | SILTSTONE: | Interbedded siltstones and claystones at 160 ft., reference intervals above. Grades to siltstone at 161 ft. |
| | | | 2/2 | 5908 5907 | 161 162 | | | SILTSTONE: | Light gray (N7), thin bedded <2 mm, slightly weathered, slightly friable, localized carbonaceous mineralization. |
| | | | | 5906 | 163 | | | CLAYSTONE: | Grades to claystone, medium gray (N5), bedding not apparent (massive?), weathered, moderately friable, slight silt fraction. |
| | | | 0/2 | 5905 | 164 | | | NO SAMPLE: | |
| | | | 4.5/4.5 | 5904 5903 5902 5901 5900 | 165 166 167 168 169 | | | CLAYSTONE: | As above (reference interval 162.3 to 163.3ft.) |
| | | | | | 170 | | | CLAYSTONE: | As above |

| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 174 | GROUND ELEVATION (FT): 5969.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/DCB | 16-87BR |
| EAST: | 2086249 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger, Rotary core. Surface casing set to 49.17' by Craig Wood, June 18, 1987.




SILTY CLAYSTONE Interval grades to silty claystone, Light gray (N7), bedding not apparent (massive?), weathered, slightly friable.

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126.2 | GROUND ELEVATION (FT) 5968.1 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA MOUND AREA | CASING DIAMETER (IN) 2.10 | GEOLOGIST LAA/TSD/DCB | 20-87BR |
| EAST | 2086155 | LOCATOR NUMBER N9 | BOREHOLE DIAMETER (IN) 4.0 | DATE DRILLED 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987

| SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1.8/1.85 | 5968 | 0 | | | GC | Clayey Gravel - light gray (N7), predominant gravel color. Angular to sub-rounded, moderately well graded, max. size: 5 cm. Clay matrix brownish gray (5YR 4/1), some sand, and silt, some surficial roots, some CaCO3, grades to caliche matrix, less gravel at bottom of interval |
| | | | 0/0.15 | 5967 | 1 | | | NO SAMPLE | |
| | | | 1.8/2 | 5966 | 2 | | | GC | Gravel In Caliche Matrix - medium gray (N5), angular to sub-angular, well graded, max. size 9.5 cm., some sand in caliche matrix, grades to some clay in caliche matrix toward bottom, light brown (5YR 5/6) |
| | | | 1.7/1.9 | 5965 | 3 | | | GC | Same as above. |
| | | | 0.7/0.5 | 5964 | 4 | | | GC | Same as above, less caliche, CaCO3, more brown clay matrix |
| | | | 0/2.4 | 5963 | 5 | | | NO SAMPLE | |
| | | | 1.1/2 | 5962 | 6 | | | GC | GRAVEL - very pale orange (10YR 8/2) to light gray (N7), angular to sub-rounded, well graded, max. size 4.5 cm. Sandy clay matrix, light brown (5YR 5/6), matrix approx. 30% coarse sand, some CaCO3 still present |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B. Bergman, Aug. 4, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5958 | 10 | | | | |
| | | | 1.9/1 | 5957 | 11 | | | GC | Same as above, no CaCO3 seems to be present. |
| | | | 1.9/2 | 5956 | 12 | | | CLAYSTONE | Top of Bedrock<br>Dark yellowish orange (10YR 6/6) to light brown (5YR 5/6), mod. to high plasticity, horizontal bedding with some carbonaceous material, some gravel, becoming silty, very pale orange (10YR 8/2) toward bottom of interval. |
| | | | | 5955 | 13 | | | | |
| | | | 2.5/2 | 5954 | 14 | | | SILTY CLAYSTONE | Very pale orange to dark yellowish orange (10YR 8/2 to 10YR 6/6), moderate to high plasticity, bedding appears horizontal, some grains of matrix appear to be iron stained, trace carbonaceous material |
| | | | | 5953 | 15 | | | | |
| | | | | 5952 | 16 | | | SILTY CLAYSTONE | Same as above. |
| | | | 3.1/3 | 5951 | 17 | | | | |
| | | | | 5950 | 18 | | | | |
| | | | 1.9/2 | 5949 | 19 | | | SILTY CLAYSTONE | Same as above, silt content fluctuates 10% either way |
| | | | | | 20 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

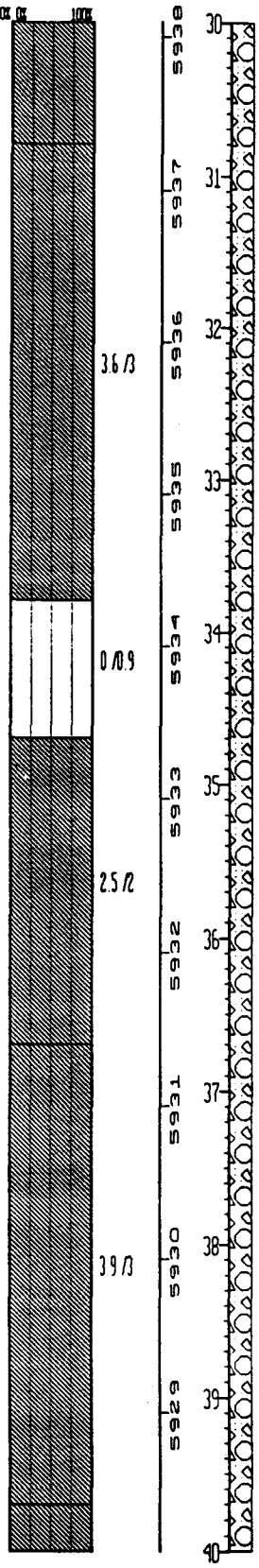
REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B. Bergman, Aug. 4, 1987

| CHEMICAL SAMPLE DEPTH / GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5968 | 20 | | | | |
| | | | | 3.3/3 | 5967 | 21 | | | SILTY CLAYSTONE | Very pale orange to light brown (10YR 8/2 to 5YR 5/6), moderate plasticity, iron staining vertical in fractures, some carbonaceous material. Trace gravel, silt content fluctuates throughout interval by 30%, some areas 70% silt (one area approx. 2 in. long.) |
| | | | | | 5966 | 22 | | | | |
| | | | | | 5965 | 23 | | | | |
| | | | | 2.4/2 | 5964 | 24 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5963 | 25 | | | | |
| | | | | 3.3/3 | 5962 | 26 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5961 | 27 | | | | |
| | | | | | 5960 | 28 | | | | |
| | | | | 2.3/2 | 5959 | 29 | | | SILTY CLAYSTONE | Grayish orange to dark yellowish brown (10YR 7/4 to 6/6), moderately high plast., some carbonaceous material, some vertical fractures, 2" hollow geode like nodules approx. 1" (iron rich), trace $CaCO_3$ |
| | | | | | | 30 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126.2 | GROUND ELEVATION (FT) 5968.1 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA MOUND AREA | CASING DIAMETER (IN) 2 ID | GEOLOGIST LAA/TSD/DCB | 20-87BR |
| EAST | 2086155 | LOCATOR NUMBER N9 | BOREHOLE DIAMETER (IN) 4.0 | DATE DRILLED 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B Bergman, Aug. 4, 1987.

CHEMICAL SAMPLE DEPTH
GRADATIONAL SAMPLE DEPTH
SAMPLE NUMBER
SAMPLE GRAIN SIZE (0% 50% 100%)
PERCENT RECOVERY (0% 100%)
RECOVERY/INTERVAL
DATUM (FT)
DEPTH (FT)
WELL OR PIEZOMETER CONSTRUCTION
LITHOLOGY
UNIFIED SOILS CLASSIFICATION OR ROCK TYPE
DESCRIPTION

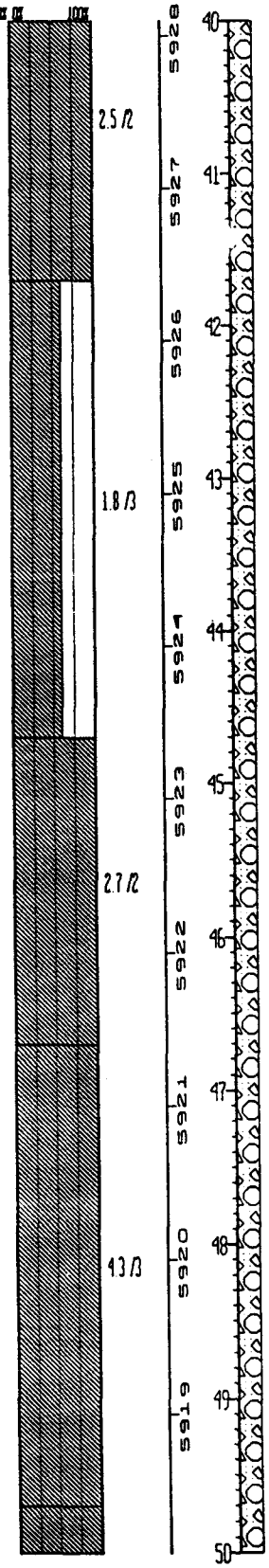



| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| | |
| SILTY CLAYSTONE | Same as above, some pale yellowish brown (10YR 6/2) toward bottom, CaCO3 stringers present, iron staining, did not see any nodules |
| NO SAMPLE | |
| SILTY CLAYSTONE | Dark yellowish orange to very light gray (10YR 8/2 to N8), moderate to high plasticity, becoming siltier at bottom |
| SILTY CLAYSTONE | Dark yellowish orange (10YR 6/6) yellowish gray (5Y 7/2), some iron staining, trace gravel, becoming less silty and light brownish gray (5YR 6/1) toward bottom of interval |
| SILTY CLAYSTONE | Dark yellowish orange to yellowish gray (10YR 6/6 to 5Y 7/2), iron |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: 749634 | | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/TSD/DCB | 20-87BR |
| EAST: 2086155 | | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987.

CHEM. SAMPLE / GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% – 50%) | PERCENT RECOVERY (100% 0% – 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION




| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| | staining in some vertical fractures, silt content fluctuates by 10% |
| CLAYSTONE: | Dusky yellow (5Y 6/4) to light brownish gray (5YR 6/1), highly weathered, slightly to moderately friable, some silt, some iron staining |
| SILTY CLAYSTONE: | Brownish gray (5YR 4/1) to grayish orange (10YR 7/4), highly weathered, moderately friable, vertical heavily iron stained fracture bottom 1.7 ft |
| CLAYSTONE: | Same as above, silt content fluctuates approx. 20% upward toward bottom of interval |
| CLAYSTONE: | Light olive gray to olive gray (5Y 6/1 to 5Y 4/1), highly weathered, |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5958.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987.

| CHEMICAL SAMPLE / GRADATIONAL SAMPLE | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% – 50%) | PERCENT RECOVERY (0% – 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/2.3 | 5918 5917 | 50 51 | | | | highly friable, slightly silty, weathered somewhat horizontally, possibly due to bedding. NOTE: intervals overlap, this box ends at 51.7 ft., next box begins at 50 ft. First interval in this box goes from 50.0 to 52.0 ft. and is logged as silty claystone, same description as below, interval 54 to 55.5 ft |
| | | | | 0/2 | 5916 5915 | 52 53 | | | NO SAMPLE | |
| | | | | 1.5/1.5 | 5914 5913 | 54 55 | | | SILTY CLAYSTONE | Lt. gray (N7), massive bedding well weathered, mod. friability, trace of carb. material and iron staining as mottles. |
| | | | | 1.6/1 | 5912 | 56 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 1.5/1.5 | 5911 | 57 | | | SILTY CLAYSTONE | Same as above |
| | | | | 1.75/1.75 | 5910 5909 | 58 59 | | | SILTY CLAYSTONE | Same as above |
| | | | | | | 60 | | | SILTSTONE | Light gray (N7), massive bedding, weathered, slightly friable, some |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5958.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987

| CHEMICAL SAMPLE | GRADATIONAL SAMPLE | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1.7/1.7 | 5958 | 60 | | | | carb. material and clay, becoming clayier at bottom 0.5 ft. of interval. |
| | | | | | 1.65/1.65 | 5957 | 61 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1), massive to wavy bedding, weathered, slightly friable, VFG sand and silt are interbedded throughout, trace of carb material. |
| | | | | | 1.8/1.8 | 5956 | 62 | | | SILTY CLAYSTONE | Same as above, trace of iron staining as mottles. |
| | | | | | 1.05/1.05 | 5955 | 63 | | | SILTY CLAYSTONE | Same as above, some carb. material and iron staining. |
| | | | | | 0/0.05 | 5954 | 64 | | | NO SAMPLE | |
| | | | | | 0.25/0.25 | 5953 | 65 | | | SILTY CLAYSTONE | Same as above. |
| | | | | | 1.75/1.75 | 5952 | 66 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 1.7/1.7 | 5951 | 67 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1) to very lt. gray (N8), well weathered, VFG sand and silt laminae are bedded vertically, mod. friable, some carb. material and iron staining as mottles. |
| | | | | | 0/0.3 | 5950 | 68 | | | NO SAMPLE | |
| | | | | | | 5949 | 69 | | | | |
| | | | | | | | 70 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug 4, 1987

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1.6/1.6 | 5898 | 70 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1) to very lt gray (N8), VFG sandstone and silt laminae are bedded vertically to nearly vertical, mod. friable, trace of carb material and iron staining as mottles |
| | | | 1.8/1.2 | 5897 | 71 | | | SILTY CLAYSTONE | Same as above |
| | | | 1.5/1.2 | 5896 | 72 | | | SILTY CLAYSTONE | Same as above, vertical laminae is no longer present, (massive bedding?), silt occurs in pockets |
| | | | 1.6/1.6 | 5895 | 73 | | | SILTY CLAYSTONE | Same as above, lt olive gray (5Y 6/1), interval becomes more carb at the bottom. |
| | | | 1.7/1.7 | 5894 | 74 | | | SILTY CLAYSTONE | Same as above. |
| | | | 1.2/1.2 | 5893 | 75 | | | SILTY CLAYSTONE | Same as above. |
| | | | 0.8/1 | 5892 | 76 | | | SILTY CLAYSTONE | Same as above |
| | | | | 5891 | 77 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 5890 | 78 | | | | |
| | | | | 5889 | 79 | | | | |
| | | | | | 80 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER | |
| NORTH: 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAA/TSD/DCB | 20-87BR | |
| EAST: 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987.

| SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1.35/1.35 | 5968 | 80 | | | | |
| | | | 1.7/2 | 5967 | 81 | | | SILTY CLAYSTONE | As above, with slickensides at 81.5 ft, 40 degree angle and decrease in carbonaceous mineralization |
| | | | 1.65/1.65 | 5966 | 82 | | | | |
| | | | 1.9/1.9 | 5965 | 83 | | | SILTY CLAYSTONE | Same as above. |
| | | | 1.2/1.2 | 5964 | 84 | | | SILTY CLAYSTONE | Same as above. |
| | | | 0/0.4 | 5963 | 85 | | | SILTY CLAYSTONE | |
| | | | 0.4/0.4 | 5962 | 86 | | | NO SAMPLE | Same as above |
| | | | 1.8/1.8 | 5961 | 87 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 5960 | 88 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 5959 | 89 | | | | |
| | | | | | 90 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): | 5968.1 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAW/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: M9 | BOREHOLE DIAMETER (IN): | 4 0 | DATE DRILLED: | 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug 4, 1987.

| SAMPLE NUMBER | SAMPLE GRADIATIONAL DEPTH | SAMPLE GRADI SIZE | PERCENT RECOVERY | RECOVERY/ INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 0% 50% | 100% 0% 100% | | | | | | | |
| | | | | 1.8 /1.8 | 5968 | 90 | | | SILTY CLAYSTONE | Same as above, increase in silt fraction below 92.0 ft. |
| | | | | | 5967 | 91 | | | | |
| | | | | | 5966 | 92 | | | SILTY CLAYSTONE | |
| | | | | 1.65 /1.65 | 5965 | 93 | | | | |
| | | | | | 5964 | 94 | | | NO SAMPLE | Light gray (N7), bioturbated / soft sediment deformation?, well weathered, moderately friable, some carbonaceous mineralization disseminated throughout. |
| | | | | 0 /2.35 | 5963 | 95 | | | | |
| | | | | | 5962 | 96 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 1.4 /1.4 | 5961 | 97 | | | | |
| | | | | | 5960 | 98 | | | SILTY CLAYSTONE | Same as above. |
| | | | | 1.6 /1.6 | 5959 | 99 | | | | |
| | | | | | | | | | SILTY CLAYSTONE | Same as above. |
| | | | | 1.7 /1.7 | | 100 | | | | |

| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/TSD/DCB | 20-87BR |
| EAST: 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987

| SAMPLE NUMBER | SAMPLE GRADIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1/1 | 5968 | 100 | | | SILTY CLAYSTONE | SLUFF |
| | | | 0/0.3 | 5967 | 101 | | | NO SAMPLE | As above (reference interval 96.0 to 101.7 ft.), with localized iron staining below 103 ft., bedding not apparent. |
| | | | 1.75/1.75 | 5966 | 102 | | | SILTY CLAYSTONE | As above. |
| | | | 1.25/1.25 | 5965 | 103 | | | SILTY CLAYSTONE | As above. |
| | | | 0.5/0.5 | 5964 | 104 | | | SILTY CLAYSTONE | As above. |
| | | | 1.8/1.8 | 5963 | 105 | | | SILTY CLAYSTONE | As above. |
| | | | 1.4/1.39 | 5962 | 106 | 12/01/87 | | SILTY CLAYSTONE | As above. |
| | | | 0.3/0.3 | 5961 | 107 | | | SILTY CLAYSTONE | As above. |
| | | | 1.3/1.3 | 5960 | 108 | | | SILTY CLAYSTONE | As above. |
| | | | | 5959 | 109 | | | SILTY CLAYSTONE | As above. |
| | | | | | 110 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): | 5968.1 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER: |
| NORTH: | 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | LAA/TSD/DCB | 20-87BR |
| EAST: | 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): | 4.0 | DATE DRILLED: | 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987.

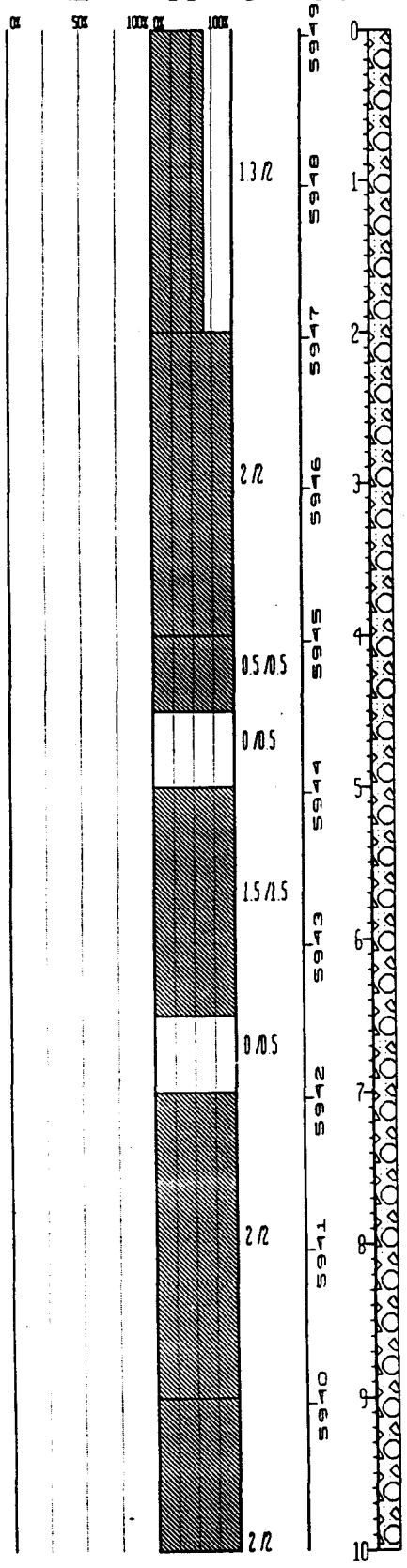
| SAMPLE NUMBER | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|
| | | 5958 | 110 | | |
| | 1.7 /1.7 | 5957 | 111 | | SILTY CLAYSTONE: As above. |
| 60271 | 1 /1 | 5956 | 112 | | SILTY CLAYSTONE: As above. |
| | 0.7 /0.69 | 5955 | 113 | | SILTY CLAYSTONE: As above. |
| | 1.7 /1.7 | 5954 | 114 | | SILTY CLAYSTONE: As above, slickenside occurs at approx. 115.8 ft. approx. 45 degrees |
| | | 5953 | 115 | | |
| | 1.6 /1.6 | 5952 | 116 | | SILTY CLAYSTONE: As above with decrease in silt fraction from approx. 117 to 118 ft. Slickenside occurs at approx. 118.2 ft. vertical orientation |
| | 1.8 /1.8 | 5951 | 117 | | SILTY CLAYSTONE: As above |
| | | 5950 | 118 | | |
| | 2.2 /2.2 | 5949 | 119 | | SILTY CLAYSTONE: As above |
| | | | 120 | | |

| STATE PLANE COORDINATE: | TOTAL DEPTH (FT): 126.2 | GROUND ELEVATION (FT): 5968.1 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749634 | AREA: MOUND AREA | CASING DIAMETER (IN): 2 ID | GEOLOGIST: LAW/TSD/DCB | 20-87BR |
| EAST: 2086155 | LOCATOR NUMBER: N9 | BOREHOLE DIAMETER (IN): 4.0 | DATE DRILLED: 08/03/87 | |

REMARKS: Hollow stem auger; Rotary core. Surface casing to 51.64' by J.B.Bergman, Aug. 4, 1987.

| CREDIBILITY | GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0% | | | 50% | 100% 0% 100% | | | 120 | | | | |
| | | | | | | 5948 | | | | | |
| | | | | | | 5947 | 121 | | | SILTY CLAYSTONE | As above |
| | | | | | 1.5/1.5 | | | | | | |
| | | | | | | 5946 | 122 | | | | |
| | | | | | 0.3/0.3 | | | | | SILTY CLAYSTONE | As above. |
| | | | | | | 5945 | 123 | | | SILTY CLAYSTONE | As above. |
| | | | | | 1.8/1.8 | | | | | LITHOLOGY: | -124.6 -126.2 -124.6 |
| | | | | | | 5944 | 124 | | | SILTY CLAYSTONE | |
| | | | | | | | | | | | NOTE No water encountered during drilling. |
| | | | | | | 5943 | 125 | | | | |
| | | | | | 1.6/1.6 | | | | | | |
| | | | | | | 5942 | 126 | | | | |
| | | | | | | 5941 | 127 | | | | |
| | | | | | | 5940 | 128 | | | | |
| | | | | | | 5939 | 129 | | | | |
| | | | | | | | 130 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): 5949.04 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): 2 ID | GEOLOGIST: DCB | 36-87BR |
| EAST: | 2087295 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): 7.5 | DATE DRILLED: 08/27/87 | |
| REMARKS: Hollow Stem Auger | | | | | |



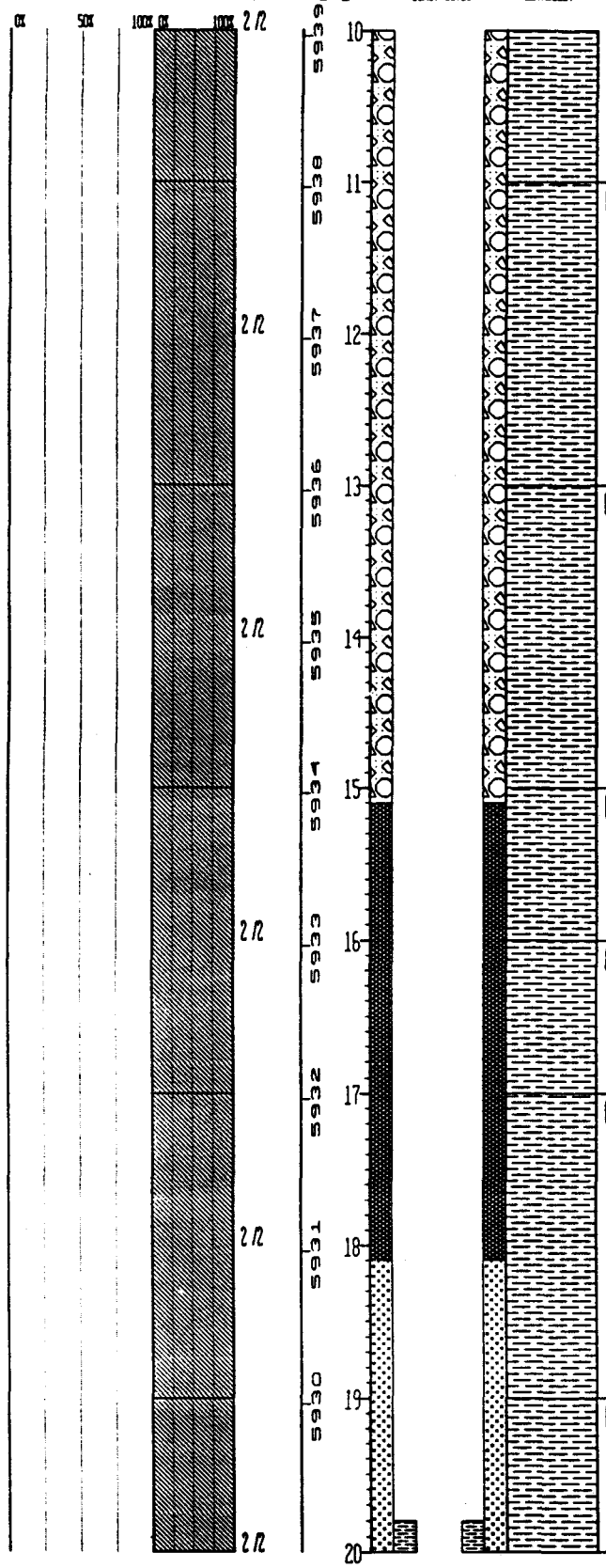

WELL OR PIEZOMETER CONSTRUCTION

| LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|
| | GC | Clayey Gravel - light gray (N7), clay matrix is dark yellowish brown (10YR 4/2), angular, moderately sorted, max. size 5.5 cm., some plant debris in upper 0.3 ft. |
| | GC | GRAVEL - light gray (N7), angular to sub-angular, moderately sorted, max size 4.5 cm., caliche matrix. |
| | GC | As above, gravel fraction is coarser, max size 6 cm., some sand |
| | NO SAMPLE | |
| | GC | Clayey Gravel - light gray (N7), clay matrix is light brown (5YR 5/6), angular to sub-rounded, poorly graded, max size 5.5 cm., some sand, caliche rind on gravel |
| | NO SAMPLE | |
| | SP | GRAVELLY SAND - grayish orange (10YR 7/4), coarse grained to very fine grained, poorly graded, angular to sub-angular, some clay and calcareous mineralization |
| | CLAYSTONE | Top of Bedrock<br>Very light gray (N7), high plasticity (est.) local iron staining and bodies of caliche, some silt and stringers. |
| | CLAYSTONE | As above, caliche bodies/stringers less frequent below 10 ft |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): 5949.04 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): 2.ID | GEOLOGIST: DCB | 36-87BR |
| EAST: | 2087295 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): 7.5 | DATE DRILLED: 08/27/87 | |

REMARKS: Hollow Stem Auger

SAMPLE NUMBER | GRAIN SIZE | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION




| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| CLAYSTONE | As above at 12 ft. (est. depth) interval grades to very pale orange (10YR 8/2). |
| CLAYSTONE | As above. |
| CLAYSTONE | As above |
| CLAYSTONE | Light gray (N7), bedding not apparent (massive?), highly weathered, moderately friable, localized iron staining. |
| CLAYSTONE | As above |
| CLAYSTONE | As above, below 20 ft. (est. depth) interval grades from claystone to siltstone to sandstone. |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): 5949.04 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): 2 ID | GEOLOGIST: DCB | 36-87BR |
| EAST: | 2087295 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): 7.5 | DATE DRILLED: 08/27/87 | |

REMARKS: Hollow Stem Auger

| CHEMICAL SAMPLE DEPTH / GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2/2 | 5929 | 20 | | | | |
| | | | | 0.5/0.5 | 5928 | 21 | | | SANDSTONE | Yellowish gray (5Y 7/2), bedding not apparent, may be horizontal from appearance of core breaks, highly weathered, moderately friable, fine grained, sub-angular to sub-rounded, well sorted, localized to wide spread iron staining. |
| | | | | 1.5/1.5 | 5927 | 22 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5926 | 23 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5925 | 24 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5924 | 25 | | | SANDSTONE | As above. |
| UNK | | | | 1.5/1.5 | 5923 | 26 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5922 | 27 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5921 | 28 | | | SANDSTONE | As above. |
| | | | | 1.5/1.5 | 5920 | 29 | | | SANDSTONE | As above. |
| | | | | | | 30 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE: | | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): | 5949.04 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): | 2 ID | GEOLOGIST: | DCB | 36-87BR |
| EAST: | 2087295 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): | 7.5 | DATE DRILLED: | 08/27/87 | |
| REMARKS: | Hollow Stem Auger. | | | | | | |

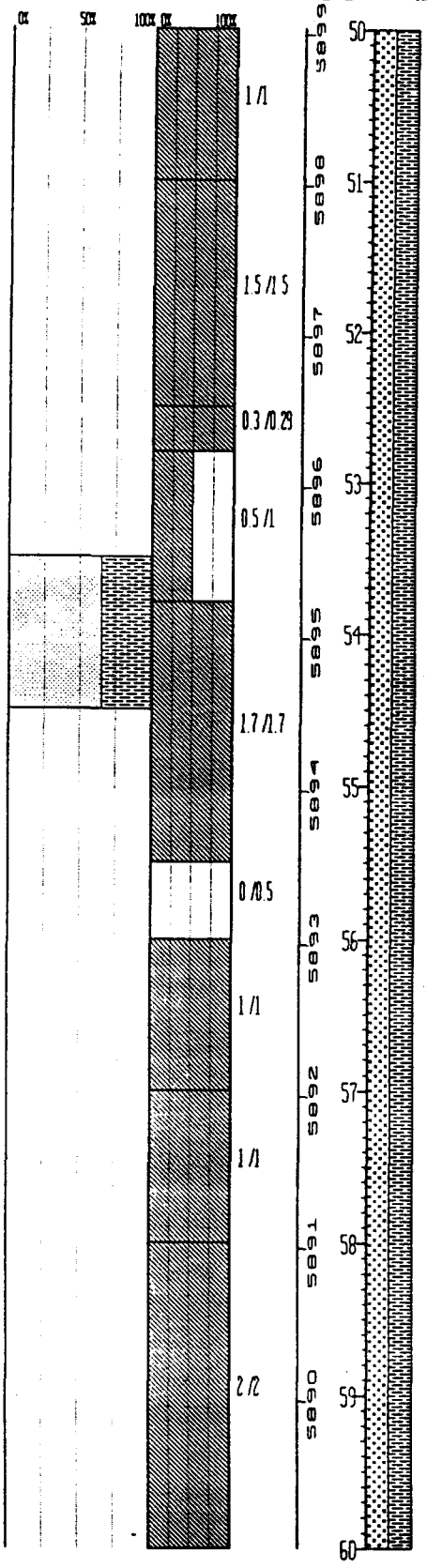
| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5919 | 30 | | | | |
| | | | 2/2 | 5918 | 31 | 12/01/87 | | SANDSTONE | As above, at about 31 ft. bedding becomes distinct, 2 mm. and less in thickness. |
| | | | | 5917 | 32 | | | | |
| | | | 1.5/1.5 | 5916 | 33 | | | SANDSTONE | As above. |
| | | | | 5915 | 34 | | | | |
| | | | 1.5/1.5 | 5914 | 35 | 08/27/87 | | SANDSTONE | As above, at about 34.5, bedding thickness increases to 5 mm and less, medium grained fraction present. |
| | | | 1.5/1.5 | 5913 | 36 | | | SANDSTONE | Very light gray (N8) and grayish orange (10YR 7/4), bedding not apparent, highly weathered, highly friable, very fine grained to fine grained, poorly sorted, localized to widely disseminated iron staining |
| | | | 1.5/1.5 | 5912 | 37 | | | SANDSTONE | As above |
| | | | | 5911 | 38 | | | | |
| | | | 1.5/1.5 | 5910 | 39 | | | SANDSTONE | As above |
| | | | | | 40 | | | | |

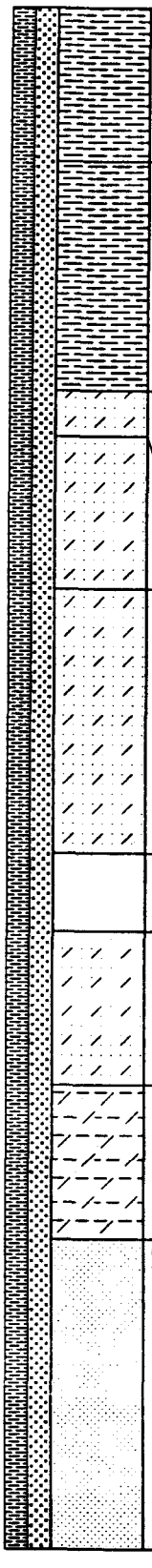
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74.5 | GROUND ELEVATION (FT) | 5949.04 | PROJECT NUMBER | 667.11 | LOG OF BORING NUMBER |
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) | 2 ID | GEOLOGIST | DCB | 36-87BR |
| EAST | 2087295 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) | 7.5 | DATE DRILLED | 08/27/87 | |
| REMARKS | Hollow Stem Auger. | | | | | | |

| SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1.5/1.5 | 5909 | 40 | | | SANDSTONE | As above. |
| | | | 0.9/1.5 | 5908 | 41 | | | SANDSTONE | At 42 ft. (est depth), interval grades to medium grained, well rounded sandstone. |
| UNK | | | 1/1 | 5907 | 42 | | | SANDSTONE | As above |
| | | | 0.7/1.5 | 5906 | 43 | | | SANDSTONE | As above. |
| | | | 1.5/1.5 | 5905 | 44 | | | SILTSTONE | Interval grades to siltstone below 45 ft, light gray (N7), moderate to slightly friable, slight VFG sand fraction |
| | | | 0.3/1 | 5904 | 45 | | | SILTSTONE | As above |
| | | | 0/1 | 5903 | 46 | | | NO SAMPLE | |
| | | | 0.5/0.5 | 5902 | 47 | | | SILTSTONE | As above (reference interval 45.5 to 47.0 ft.) |
| | | | 0.5/0.5 | 5901 | 48 | | | SILTSTONE | As above. |
| | | | | 5900 | 49 | | | | |
| | | | | | 50 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74.5 | GROUND ELEVATION (FT) 5949.04 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2 ID | GEOLOGIST DCB | 36-87BR |
| EAST | 2087295 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7.5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | | |

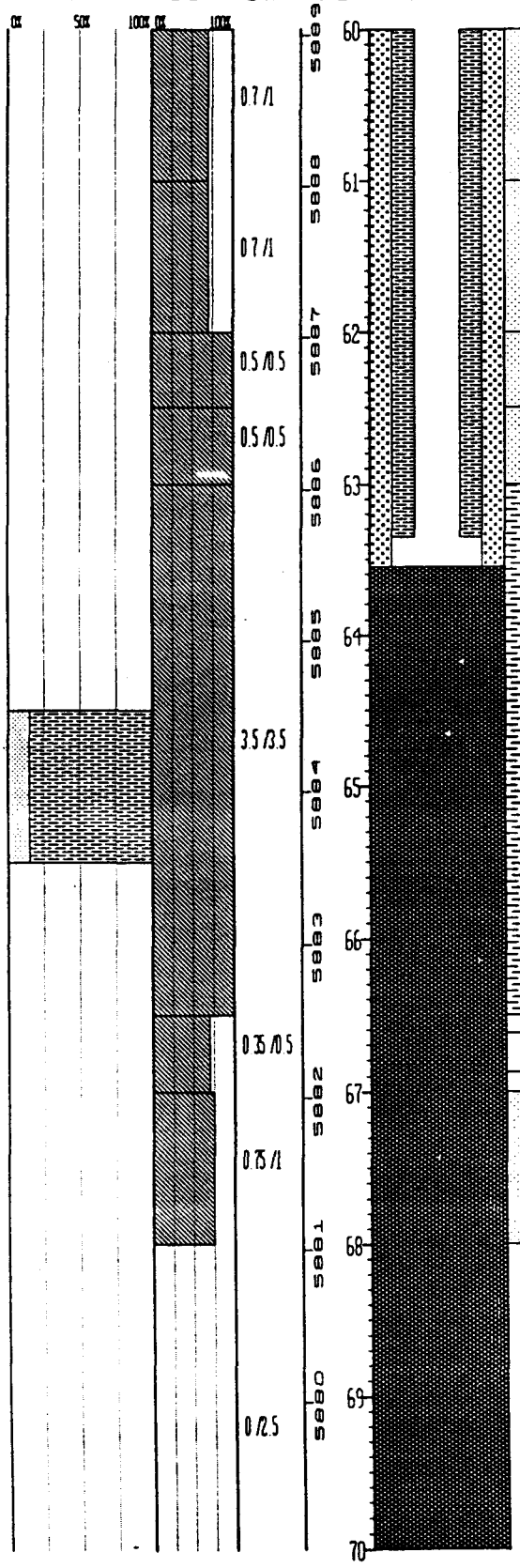
CHEMICAL SAMPLE DEPTH
GRADATIONAL SAMPLE DEPTH
SAMPLE NUMBER
SAMPLE GRAIN SIZE
PERCENT RECOVERY
RECOVERY/INTERVAL
DATUM (FT)
DEPTH (FT)
WELL OR PIEZOMETER CONSTRUCTION
LITHOLOGY
UNIFIED SOILS CLASSIFICATION OR ROCK TYPE
DESCRIPTION



| Unified Soils Classification or Rock Type | Description |
|---|---|
| CLAYSTONE | Medium light gray (N6), bedding not apparent (massive?), well weathered, moderately to slightly friable, slight silt fraction |
| CLAYSTONE | As above |
| SILTY SANDSTONE | Very pale orange (10YR 8/2), bedding not apparent (massive?), highly weathered, moderately friable, very fine grained, localized iron staining |
| SILTY SANDSTONE | As above |
| SILTY SANDSTONE | As above |
| NO SAMPLE | |
| SILTY SANDSTONE | As above (reference interval 52 to 55.5) |
| SILTY CLAYSTONE | Very light gray (N8), weathered, slightly friable, interval grades to sandstone, dark yellowish orange (10YR 6/6), bedding not apparent (massive?), well weathered, moderately friable, very fine grained with abundant silt |
| SANDSTONE | Grayish orange (10YR 7/4), bedding not apparent (massive?), highly weathered, slightly friable, some silt, interval grades to medium grained to very fine grained, well rounded, moderate sorting and highly friable |

| STATE PLANE COORDINATE | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): 5999.04 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): 2 ID | GEOLOGIST: DCB | 36-87BR |
| EAST: 2087235 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): 7.5 | DATE DRILLED: 08/27/87 | |
| REMARKS: Hollow Stem Auger | | | | |




| UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|
| SANDSTONE | As above. |
| SANDSTONE | As above. |
| SANDSTONE | As above. |
| SANDSTONE | Dark yellowish orange (10YR 6/6), bedding not apparent (massive?), well weathered, moderately to highly friable, very fine grained, well sorted, moderate silt fraction. |
| CLAYSTONE | Medium light gray (N6), bedding not apparent (massive?), well weathered, moderately friable, localized iron staining and carbonaceous mineralization. Interval grades to clayey siltstone with depth. |
| CLAYEY SILTSTONE | Med. light gray, massive bedding, well weathered, slightly friable, trace of carbonaceous and iron staining. |
| SANDSTONE | Fine grained, mottled, very light gray (N8) and very pale orange (10YR 8/2), massive bedding, highly weathered, mod. friable, well sorted, becoming clayey at bottom of interval. |
| NO SAMPLE | |

| STATE PLANE COORDINATE | TOTAL DEPTH (FT): 74.5 | GROUND ELEVATION (FT): 5949.04 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749979 | AREA: EAST TRENCHES | CASING DIAMETER (IN): 2 ID | GEOLOGIST: DCB | 36-87BR |
| EAST: 2087295 | LOCATOR NUMBER: 09 | BOREHOLE DIAMETER (IN): 7.5 | DATE DRILLED: 08/27/87 | |
| REMARKS: Hollow Stem Auger | | | | |

| GRADATIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE (0% 50% 100%) | PERCENT RECOVERY (0% 100%) | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5879 | 70 | | | | |
| | | | | 1/1.5 | 5878 | 71 | | | SANDSTONE | Fine grained, light gray (N8), massive bedding, well weathered, well sorted, some iron staining mottled, trace of carbonaceous material, wavy bedding, at 70 degrees with clay infilling |
| | | | | 1/1.5 | 5877 | 72 | | | SANDY CLAYSTONE | Fine grained, light gray (N7), massive bedding, well weathered, mod friable, trace of organic material. |
| | | | | 1/1 | 5876 | 73 | | | SILTY CLAYSTONE | Light gray (N7), massive bedding, well weathered, mod. friable, some organic material, F6 sandstone occurs in pockets. |
| | | | | | 5875 | 74 | | | | |
| | | | | | 5874 | 75 | | | | |
| | | | | | 5873 | 76 | | | | |
| | | | | | 5872 | 77 | | | | |
| | | | | | 5871 | 78 | | | | |
| | | | | | 5870 | 79 | | | | |
| | | | | | | 80 | | | | |

# APPENDIX E

## TRANSPORTATION ANALYSIS FORM

## SUBSURFACE IM/IRA
## OPERABLE UNIT NO. 2

# APPENDIX E

## TRANSPORTATION ANALYSIS

With the exception of the no action alternative, each of the IM/IRA sites (903 Pad, Mound, East Trenches) involves transportation activities during installation of the vapor extraction system system and during subsequent operation of the collection/treatment processes. It is anticipated that primary shipments and vehicle movements during construction and normal operations will be by truck. Both on-site and off-site shipment of materials will be required to support the action. Potential transportation impacts to the human environment include exposure to the radioactive or hazardous material being hauled, latent effects associated with vehicle pollution, and traumatic injuries and fatalities from accidents.

An estimate of emission rates for operation of a typical truck are presented below:

Truck Emission Rate[a]

| Pollutant | Emission Rate (g/km) |
|---|---|
| Carbon Monoxide | 22.0 |
| Hydrocarbons | 3.3 |
| Nitrogen Oxide | 13.0 |
| Sulfur Oxide | 5.1 |
| Particulates[b] | 0.8 |

[a] From Rao et. al., (1982)

[b] Does not include fugitive dust

Estimates of health effects per kilometer for truck transportation are (Rao et. al., 1982):

| Source | LCFs[a] | Injuries | Fatalities |
|---|---|---|---|
| Pollutants | $1x10^{-7}$ | - | - |
| Accidents | - | $5.1x10^{-7}$ | $3.0x10^{-8}$ |

[a] Latent cancer fatalities

The above accident impacts are average values over multiple population zones (urban, suburban, rural) and are derived from Department of Transportation (DOT) nationwide statistics. For the proposed IM/IRA, it is anticipated that the majority of material receipts for construction and routine operations will originate within the Denver Metropolitan area, within a 50-mile (80 km) radius of the plant site. To place transportation impacts to the general public in perspective, given the health effects tabulated above, approximately 60,000 round-trip truck shipments (with a one-way distance of 50 miles) would be required to cause one additional latent cancer fatality. Approximately 210,000 truck shipments would be required to result in one additional traumatic fatality.

Transportation of radioactive and hazardous materials at the Rocky Flats Plant must comply with the regulations and guidelines established by the On-Site Transportation Manual (EG&G, 1991) for packaging, marking, labeling, handling, transporting, and storing materials. The On-Site Transportation Manual is based on current rules and regulations (CFR Titles 10, 40, 49), applicable DOE orders, and ALARA exposure principals. Vehicle and driver qualifications are maintained in accordance with Federal Motor Carrier Safety Regulations. Emergency response guidance for transportation-related accidental spills or container failures is provided in Section 17 of the On-Site Transportation Manual. More detailed notification, response, and recovery action procedures are specified in the Rocky Flats Emergency Plan and the Hazardous Materials Response Team Manual. A HAZ-MAT team would respond to an emergency condition and would identify material hazard classes and make appropriate notifications; isolate and establish restricted zones; and take any necessary actions to contain, control, and prevent the spread of hazardous materials.

An evaluation of transportation impacts for each IM/IRA site is presented below:

IM/IRA 903 Pad

IM/IRA 903 Pad activities involve transportation during vapor extraction system installation and routine operations.

Vapor extraction system installation transportation activities primarily involve the movement of a limited amount of equipment for drilling system setup and deliveries of vapor extraction system components. Direct impacts would include short-term effects common to all drilling projects, including dust generation, pollution, noise, and increased traffic levels. These impacts would be insignificant, considering the scope of this proposed action. Approximately 2 cubic yards of drilling cuttings and fluids may be classified as hazardous mixed waste and require off-site disposal. Potential impacts would be very small, as discussed below. Possible human health impacts resulting from installation transportation related emissions and accidents would also be very small, given the tabulated emissions and health effects estimates presented at the beginning of this Appendix.

Routine operations will require the delivery of process treatment components (HEPA filters, dessicants, GAC), daily tank truck transfer of untreated and partially treated water, occasional vehicle travel for inspection and maintenance of the vapor extraction system wells and pumps, and off-site disposal of materials that will likely be classified as hazardous mixed waste. Based on dewatering system design flow rates of one gpm, 365 water transfer trips per year may be required initially between the 903 Pad vapor extraction system and the South Walnut Creek treatment system. An annual total round trip travel distance of approximately 190 miles would be required to support transfer operations. If the pilot vapor extraction system at the 903 Pad is successful, the water may be hard piped to the treatment system thus eliminating this travel. All travel would be confined to the plant site on paved roads. Occasional travel to the collection system areas will also be required for periodic inspection and maintenance activities. Annual hazardous mixed waste disposal estimates include 2 cubic yards of drilling fluids and cuttings, and 4 cubic yards of solidified process sludge. Off-site transportation impacts associated with the hazardous/radioactive nature of the material would be very low, as evaluated in DOE (1991b). Relatively low concentrations of contaminants, disposal site waste acceptance criteria, and compliance with DOT packaging and transport requirements all contribute to a very low potential for health effects from normal transport and accidents. Health impacts resulting from both on-site and off-site transportation emissions and accidents would be small, considering the relatively low number of total miles traveled and the transportation health effects estimates presented at the beginning of this Appendix.

IM/IRA Mound

IM/IRA Mound activities involve transportation during the vapor extraction system installation phase as well as during subsequent routine operations.

During vapor extraction system installation, transportation would include the movement of a limited amount of equipment for drilling, system setup, and deliveries of vapor extraction system components. As with the 903 Pad, direct impacts would include those short-term effects common to all drilling projects, including dust generation, pollution, noise, and increased traffic levels. From the scope of the alternatives, none of these impacts would be expected to be significant. Possible personnel impacts resulting from transportation-related emissions and accidents would be very small, based on the tabulated emissions and health effects estimates presented at the beginning of the Appendix.

Routine operations will require the delivery of process treatment components (HEPA filters, dessicants, GAC) and the possible off-site disposal of materials that will likely be classified as hazardous mixed waste. Currently, dewatering activities with the subsequent requirement for tank trucks and sludge disposal is not anticipated at Mound. Annual hazardous mixed waste disposal estimates include 2 cubic yards of driling fluids and cuttings. Off-site transportation impacts associated with the hazardous/radioactive nature of the material would be very low as determined in DOE (1991b). Relatively low concentrations of contaminants, disposal site waste acceptance criteria, and compliance with DOT packaging and transport requirements all contribute to very low health effects. Given the small number of off-site shipments and the tabulated emissions and health estimates presented in this Appendix, health impacts resulting from off-site transportation emissions and accidents are anticipated to be very small.

Operational activities will also include periodic inspection and maintenance of the vapor extraction system pumps and piping system. Vehicle miles traveled to support these operations will be very small and will result in negligible impacts.

IM/IRA East Trenches

As with IM/IRA 903 Pad and Mound, East Trenches involves transportation activities during installation and routine operations.

Installation transportation activities would be very similar to the 903 Pad and involve the movement of a limited amount of equipment for drilling, vapor extraction system system setup, deliveries of vapor extraction system materials, and potential off-site disposal of drilling fluids and cuttings. As with the 903 Pad and Mound installation, transportation impacts would be very small. Drilling cuttings and fluids (2 $yd^3$) will possibly be classified as hazardous mixed waste and require off-site disposal. Associated impacts would be very low, as determined from DOE (1991b).

Routine operations will require the delivery of process treatment chemicals (GAC), tank truck transfer of collected surface water, periodic vehicle travel for inspection and maintenance of the vapor extraction system, and off-site disposal of drilling cuttings and sludge. Approximately 365 tank truck trips a year (150 round trip miles) will be required to transport collected subsurface water from the transfer station to the South Walnut Creek treatment plant. Annual off-site disposal requirements would primarily require the shipment of dewatering sludge (4 $yd^3$). In general, routine transportation activities will be less than those for the 903 Pad and more than Mound and will have very small impacts.