# FINAL

# 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

**20 August 1992**

**Volume II – Appendices**

REVIEWED FOR CLASSIFICATION/UCNI
By
Date 8/28/92

ADMIN RECORD

A-OU02-000400

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## VOLUME II

U S Department of Energy
Rocky Flats Plant
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20 AUGUST 1992

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Prepared by

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Rocky Flats Plant
Golden, Colorado 80401

REVIEWED FOR CLASSIFICATION/UCNI
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## 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

## PREFACE TO APPENDICES (continued)

### 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/ℓ due to the analytical procedure The concentration of VOC data is reported in micrograms per kilogram (μg/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/ℓ) and micrograms per liter (μg/ℓ) 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 ± 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

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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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 | Trichloroethene | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8217389 | 26 SEP 89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| 8217589 | 17 OCT 89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 8218189 | 06 NOV 89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 8218189 | 07 NOV 89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 8218189 | 08 NOV 89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 8218589 | 10 OCT 89 | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | | 5 U | |
| 8218589 | 10 NOV 89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| 8218689 | 13 NOV 89 | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | | 6 U | |
| 8218689 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8217389 | 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 |
| 8217589 | 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 |
| 8218189 | 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 |
| 8218189 | 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 |
| 8218189 | 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 |
| 8218589 | 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 |
| 8218589 | 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 |
| 8218689 | 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 |
| 8218689 | 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | Vinyl Acetate | Vinyl Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8217389 | 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 |
| 8217589 | 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 |
| 8218189 | 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 |
| 8218189 | 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 |
| 8218189 | 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 |
| 8218589 | 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 |
| 8218589 | 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 |
| 8218689 | 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 |
| 8218689 | 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 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 |

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 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 |

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 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 |

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 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 |

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 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

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 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 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 |
|---|---|---|---|---|---|---|
| 8315289 | 26 OCT 89 | | 2 U | 3 1 | | 7 8 |
| 8318889 | 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
*= 87 data reported on wet weight basis
J=Present below detection limit
89 data reported on dry-weight basis
E=Estimated value

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 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) |
|---|---|---|---|---|---|---|---|---|
| BN3287 | 3 AUG 87 | 25 +/ 14 | 14 +/ 6 | 1 09 | 0 1 +/ 0 6 | 0 33 +/ 0 17 | 0 06 +/ 0 11 | 80 |
| BN3387 | 30 JUL 87 | 25 +/ 14 | 24 +/ 7 | 0 78 | 0 6 +/ 0 6 | 0 14 +/ 0 20 | 0 04 +/ 0 13 | 230 |
| BN3487 | 29 JUL 87 | 18 +/ 13 | 16 +/ 6 | 0 7 | 0 0 +/ 0 5 | 0 08 +/ 0 16 | 0 02 +/ 0 07 | 20 |
| BN3587 | 27 JUL 87 | 17 +/ 13 | 9 8 +/ 6 2 | 0 93 | 0 4 +/ 0 6 | 1 5 +/ 0 2 | 0 40 +/ 0 19 | 40 |
| BN3587 | 28 JUL 87 | 18 +/ 12 | 15 +/ 6 | 1 53 | 0 2 +/ 0 6 | 0 06 +/ 0 13 | 0 02 +/ 0 04 | 220 |
| BN3687 | 20 JUL 87 | 12 +/ 11 | 15 +/ 6 | 2 9 | 0 1 +/ 0 5 | 0 53 +/ 0 16 | 0 04 +/ 0 18 | 100 |
| BN3787 | 17 JUL 87 | 29 +/ 13 | 22 +/ 6 | 1 09 | 0 0 +/ 0 4 | 0 06 +/ 0 07 | 0 02 +/ 0 16 | 180 |
| BN3887 | 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) |
|---|---|---|---|---|---|---|---|---|
| 8215389 | 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 |
| 8217389 | 26 SEP 89 | 11 2 +/ 2 9 | 27 4 +/ 4 9 | 2 3 | 0 26 +/ 0 33 | 0 364 +/ 0 045 | | 30 +/ 270 |
| 8217589 | 17 OCT 89 | 15 2 +/ 4 0 | 22 9 +/ 4 0 | 0 77 | 0 52 +/ 0 48 | 0 645 +/ 0 047 | | 500 +/ 550 |
| 8218189 | 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 |
| 8218189 | 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 |
| 8218589 | 10 OCT 89 | 25 0 +/ 5 2 | 21 2 +/ 4 5 | 0 75 | 0 20 +/ 0 36 | 0 633 +/ 0 072 | | 170 +/ 200 |
| 8218689 | 13 NOV 89 | 19 6 +/ 5 2 | 19 0 +/ 4 3 | 1 09 | 0 35 +/ 0 38 | 2 864 +/ 0 285 | | 270 +/ 90 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218989 | 27 NOV 89 | | | 0 59 | 0 08 +/ 0 38 | 0 020 +/ 0 014 | | 200 +/ 220 |
| 8319789 | 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 | |
| 8319789 | 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 | 1) | 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 Dichloropropane | 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 BN3987 BN4087 BN4187 BN4287 BN4387 BN4487

# 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 BM3287 BM3387 BM3487 BM3587 BM3687 BM3787 BM3887

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 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 B 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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 Tet trachloride | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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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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 |

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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 | 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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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
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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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 Dichloropropene | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 | 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 |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | | |

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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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 |

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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 Dichloropropene | 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 | | |

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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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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 |

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Ground Water Volatile Organic Results
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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 Dichloropropene | 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 | Trichloroethene | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 Tet trachloride | 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
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 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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 Dichloropropene | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 Tet trachloride | 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 | Trichloroethene | 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 J=Present below detection limit E=Estimated Value D=Diluted Sample
A=Acceptable with qualifications V=Valid and acceptable R=Rejected

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 |

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 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromo methane | Carbon disulfide | Carbon Tetrachloride | Chloro benzene | Chloro ethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloro methane | 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 |

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 |

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 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | Dibromochloromethane | Ethyl Benzene | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | Total Xylenes | Trichloroethene | 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
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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 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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
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 | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 | Bromomethane | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | Chloromethane | 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 |

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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 |

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

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 |

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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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*=Duplicate analysis not within control limits
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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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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Results reported in mg/l

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

| 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 | 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 |

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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 UW | 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 UW | 0 01 U | 0 002 U | 0 0556 |

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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
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 |

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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
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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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 (Mg) | 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 |

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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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*=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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 06 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 |

B=Value less than Contract Required Detection Limit (CRDL) but greater than Instrument Detection Limit (IDL)
*=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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 UW | 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 | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 265 | 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 |

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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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
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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 UW | 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
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Ground Water Dissolved Metal Results
East Trenches Area
Results reported in mg/l

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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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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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |
| 8218789 | 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 |

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
# 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 UW | 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 UW | 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 |

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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 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 |

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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 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 |
|---|---|---|---|---|---|---|---|---|
| 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
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 |
|---|---|---|---|---|---|---|---|---|
| 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 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 |
|---|---|---|---|---|---|---|---|---|
| 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 | | |

*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 |
|---|---|---|---|---|---|---|---|---|
| 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 |
| 8218789 | 14 MAR 90 | 420 | 32 | 4 1 | 27 | 330 | 7 5 | |
| 8218789 | 13 SEP 90 | 350 | 36 | 4 3 | 17 | 250 | | 390 |
| 8218789 | 22 OCT 90 | 360 | 30 | 3 8 | 13 | 250 | | 4 U |
| 8218789 | 08 MAR 91 | 750 | 35 | 5 2 | 20 | 280 | | 680 |
| 8218789 | 21 MAY 91 | 380 | 33 | 4 3 | 11 | 260 | | 62 |
| 8218789 | 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 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 | 582 |
| 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 |

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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

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 |

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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 |

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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 8218789

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
## (Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)

### Suggested Standards for Treatment of OU2 Ground Water[a]

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference |
|---|---|---|---|---|---|---|
| Acetone | 50 µg/ℓ | | | 10U µg/ℓ[d] | | |
| Methylene Chloride | 5U µg/ℓ[d] | | | 5U µg/ℓ[d] | | |
| Tetrachloroethene | 5U µg/ℓ | | | 1U µg/ℓ | | |
| Toluene | 2000 µg/ℓ | | | | 1000 µg/ℓ | SDWA MCL |
| Trichloroethene | 5 µg/ℓ | | | 5 µg/ℓ | | |
| Carbon Disulfide | 5U µg/ℓ[d] | | | | 5U µg/ℓ | RCRA Subpart F is considered TBC for 881 Hillside facility |
| Chloroform | | 6 µg/ℓ | WQCC Surface Water Standard State-Wide Water and Fish Ingestion | | 6 µg/ℓ | WQCC Surface Water Standard State-Wide Water and Fish Ingestion |
| Vinyl Chloride | | 2 µg/ℓ | SDWA MCL | 2 µg/ℓ | | |
| 1 1 Dichloroethane | 5U µg/ℓ[d] | | | 5U µg/ℓ[d] | | |
| 1 2 Dichloroethane | 5 µg/ℓ | | | | 0 4 µg/ℓ | WQCC State-Wide Fish & Water Ingestion Standard |
| 1 1 Dichloroethene | 7 µg/ℓ | | | 7 µg/ℓ | | |
| Total 1 2 Dichloroethene | | 5U µg/ℓ[d] | TBC for South Walnut Creek facility | 5U µg/ℓ[d] | | |
| 1 1 1 Trichloroethane | 200 µg/ℓ | | | | 200 µg/ℓ | SDWA MCL |

Table C 1 (Continued)
(Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)

**Suggested Standards for Treatment of OU2 Ground Water[a]**

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference[c] |
|---|---|---|---|---|---|---|
| 1 1 2 Trichloroethane | 5U µg/ℓ | | | | 0 6 µg/ℓ | WQCC State-wide Fish & Water Ingestion Standard |
| 4-methyl 2 pentanone | | 10U µg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 10U µg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| 2 hexanone | | 10U µg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 10U µg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Styrene | | 100 µg/ℓ | SDWA MCL | | 100 µg/ℓ | SDWA MCL |
| Xylene | | 10 000 µg/ℓ | SDWA MCL | | 10 000 µg/ℓ | SDWA MCL |
| Ethyl Benzene | | 680 µg/ℓ | WQCC State-wide Water Supply Standard | | 680 µg/ℓ | WQCC State-wide Water Supply Standard |
| Benzene | | 1 µg/ℓ | WQCC State-wide Fish & Water Ingestion Standard | | 1 µg/ℓ | WQCC State-wide Fish & Water Ingestion Standard |
| Carbon Tetrachloride | 5 µg/ℓ | | | 5 µg/ℓ | | |
| Aluminum | 5 mg/ℓ | | | 0 2U mg/ℓ | | |
| Antimony | 0 06U mg/ℓ | | | 0 06U mg/ℓ[d] | | |

Table C 1 (Continued)
(Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)

**Suggested Standards for Treatment of OU2 Ground Water[a]**

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference[c] |
|---|---|---|---|---|---|---|
| Arsenic | 0 05 mg/ℓ | | | 0 05 mg/ℓ | | |
| Barium | 1 0 mg/ℓ | | | 1 0 mg/ℓ | | |
| Beryllium | 0 1 mg/ℓ | | | 0 1 mg/ℓ | | |
| Cadmium | 0 01 mg/ℓ | | | 0 005U mg/ℓ | | |
| Calcium | | 107 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 107 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Chromium | 0 05 mg/ℓ | | | 0 01 mg/ℓ | | |
| Cobalt | | 0 05 mg/ℓ[d] | TBC for South Walnut Creek | 0 05 mg/ℓ[d] | | |
| Copper | 0 2 mg/ℓ | | | 0 025U mg/ℓ | | |
| Iron | 0 3 mg/ℓ | | | 0 3 mg/ℓ | | |
| Manganese | 0 05 mg/ℓ | | | 0 05 mg/ℓ | | |
| Lead | 0 05 mg/ℓ | | | 0 005U mg/ℓ | | |
| Lithium | 2 5 mg/ℓ | | | 2 5 mg/ℓ[d] | | |
| Magnesium | | 9 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 9 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |

**Table C 1 (Continued)**
**(Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)**

**Suggested Standards for Treatment of OU2 Ground Water[a]**

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference |
|---|---|---|---|---|---|---|
| Mercury | 0 002 mg/ℓ | | | 0 0002U mg/ℓ | | |
| Molybdenum | 0 1 mg/ℓ | | | 0 1 mg/ℓ[d] | | |
| Nickel | 0 2 mg/ℓ | | | 0 04U mg/ℓ | | |
| Potassium | | 10 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 10 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Selenium | 0 01 mg/ℓ | | | 0 01 mg/ℓ | | |
| Silver | 0 05 mg/ℓ | | | | 0 05 mg/ℓ | ARAR for 881 Hillside |
| Sodium | | 18 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 18 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Strontium | | 1 5 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 1 5 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Thallium | 0 01U mg/ℓ | | | | | |
| Vanadium | 0 1 mg/ℓ | | | 0 1 mg/ℓ[d] | | |
| Zinc | 2 0 mg/ℓ | | | 0 05 mg/ℓ | | |

Table C 1 (Continued)
(Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)

**Suggested Standards for Treatment of OU2 Ground Water[a]**

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference |
|---|---|---|---|---|---|---|
| Nitrite | 1 0 mg/ℓ | | | 1 0 mg/ℓ | | |
| Nitrate | 10 0 mg/ℓ | | | 10 0 mg/ℓ | | |
| Chloride | 250 mg/ℓ | | | 250 mg/ℓ | | |
| Sulfate | 250 mg/ℓ | | | 250 mg/ℓ | | |
| TDS | 400 mg/ℓ | | | 400 mg/ℓ | | |
| Fluoride | | 2000 μg/ℓ | WQCC State-wide Domestic Water Supply Standard | | 2000 μg/ℓ | WQCC State-wide Domestic Water Supply Standard |
| Bicarbonate | | 202 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 202 mg/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| Gross Alpha | 15 pCi/ℓ | | | 11 pCi/ℓ | | |
| Gross Beta | 50 pCi/ℓ | | | 19 pCi/ℓ | | |
| $Pu^{239,240}$ | 15 pCi/ℓ | | | 0 05 pCi/ℓ | | |
| $H^3$ | 20 000 pCi/ℓ | | | 500 pCi/ℓ | | |
| $Sr^{89,90}$ | 8 pCi/ℓ | | | 8 pCi/ℓ | | |
| $U^{Total}$ | 40 pCi/ℓ | | | 10 pCi/ℓ | | |
| $Am^{241}$ | 4 pCi/ℓ | | | 0 05 pCi/ℓ | | |

## Table C 1 (Continued)
## (Replaces Tables C-1 and C-2 of 20 March 1992 IM/IRAP/EA)

## Suggested Standards for Treatment of OU2 Ground Water[a]

| Potential OU2 Ground Water Constituent | 881 Hillside IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference[c] | South Walnut Creek IM/IRA ARAR/TBC[b] | Suggested ARAR/TBC[c] | ARAR Reference[c] |
|---|---|---|---|---|---|---|
| $Cs^{137}$ | | 3 9 pCi/ℓ | Background DOE policy to protect potential sources of drinking water[e] | | 3 9 pCi/ℓ | Background DOE policy to protect potential sources of drinking water[e] |
| $Ra^{226}$ | | 5 pCi/ℓ | WQCC State-wide Radionuclide Standard | | 5 pCi/ℓ | WQCC State-wide Radionuclide Standard |

a Two existing Rocky Flats Plant treatment systems are considered for treating ground water during the Subsurface IM/IRA These include the South Walnut Creek Basin Surface Water IM/IRA Treatment System and the 881 Hillside Ground Water IM/IRA Treatment System

b Concentrations are the Applicable or Relevant and Appropriate Requirement (ARAR) or To Be Considered (TBC) for the indicated contaminant for the subject facility

c When an ARAR/TBC was not identified for the subject facility the ARAR rationale for both facilities is examined and the rationale producing the more stringent ARAR is used to define the suggested ARAR for the indicated contaminant

d The value is TBC

e Background is either the CRQL (organics) or the upper limit of the 95% background tolerance interval (EG&G 1990b)

U Contract Laboratory Program (CLP) Contract Required Detection Limit (CRQL)

## TABLE C-2

## ACTION-SPECIFIC ARARS FOR POTENTIAL CONSTITUENTS IN WASTES FOR OFF-SITE DISPOSAL OR ON-SITE PLACEMENT, OPERABLE UNIT NO 2 SUBSURFACE INTERIM REMEDIAL ACTION[a]

| Constituent[b] | Potential Waste Code | Treatment Standard[c] | 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[d] |
| 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[d] |
| 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 |

## TABLE C 2 (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[a]

| Constituent[b] | Potential Waste Code | Treatment Standard[c] | Best Demonstrated Available Technology (BDAT) Basis for Standard |
|---|---|---|---|
| Sodium | -- | -- | -- |
| 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 [d] |
| | 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-2 (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[a]

| Constituent[b] | Potential Waste Code | Treatment Standard[c] | 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 | 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[f] | F039 | | |

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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

b RCRA does not include radionuclides as hazardous wastes

c Treatment standards re presented for non-wastewaters

d Standard is expressed as a specific technology

Standard is for the trans somer

f 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 class fied by more than one w ste code under [40 CFR Part 261] Subpart D or from a mixture of wastes lassified 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 d sposal

# TABLE C 3
# 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 require ments | | 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 | | | |
| 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 | |

# TABLE C 3 (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 ) | 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 | |
| | 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 | |

# TABLE C 3 (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) | 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 | | |
| | 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 | | |

# TABLE C 3 (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 | 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><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<br><br>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 | | 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 3 (Continued)
# ANALYSIS OF ACTION SPECIFIC ARARs
# FOR REMEDIAL ACTIONS AT OPERABLE UNIT 2, SUBSURFACE IM/IRA

| Action | Requirement | Prerequisite | Citation | ARAR | Comments |
|---|---|---|---|---|---|
| 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 3 (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 |
| | 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 4
# ANALYSIS OF LOCATION SPECIFIC ARARs
# FOR REMEDIAL ACTIONS AT OPERABLE UNIT NO 2, SUBSURFACE IM/IRA

| LOCATION | CITATION | REQUIREMENT | ARAR TYPE[a] | 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 |

TABLE C-4 (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 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 |
| 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 5

## 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 | [a] |
| Radionuclides | 10 mrem/yr | | 40 CFR Part 61 Subpart H | Dose equivalence calculated for fenceline exposure for entire plant |

No source typ appl e to or losely approximates the proposed ct ons 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) | 5964.65 | PROJECT NUMBER: | 667.11 | LOG OF BORING NUMBER |
| NORTH: | 749130 | AREA: 903 PMB | CASING DIAMETER (IN) | 2.38 | GEOLOGIST | LAMBOB | 16-87BR |
| EAST | 2056249 | LOCATION NUMBER 19 | 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 | PERCENT RECOVERY | RECOVERY/ INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1.5/2 | 5960 | 0–1 | | | GM | SILTY SANDY GRAVEL predom red gray (N5) angular to rounded, well graded, granules to 6 cm, sand med to coarse grained, mod well graded, some root material some clay |
| | | | 1.8/1.4 | 5959 | 2–3 | | | GM | Same as above |
| | | | 0/0.3 | | | | | NO SAMPLE | |
| | | | 1.5/0.5 | 5958 | 4 | | | GM | GRAVEL as above, max size 6 cm, silty clay matrix est plast low mod grayish orange to white (10YR 7/4) to (N9) some caliche |
| | | | 1.5/2.5 | 5957 | 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 | 5956 | 7 | | | GM | Silty Gravel & Sand gravel lt gray (N7) to lt olive gray (5Y) angular to sub-rounded, sand VFG to granules, well graded, gravel well graded, trace CaCO3 |
| | | | 0/1 | 5955 | 8 | | | NO SAMPLE | |
| | | | 1.3/1.5 | 5954 | 9–10 | | | GW | GRAVEL no predom color angular to sub-rounded, well graded, gravel to 3 cm some sand, well graded, VFG to granules, trace silt and clay |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 17.4 | GROUND ELEVATION (FT) 5959.05 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PMB | CASING DIAMETER (IN) 2.38 | GEOLOGIST LAM/MCB | 16-87BR |
| EAST | 2035249 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

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

| CHRONOLOGIC SAMPLE DEPTH / BIOSTRATIGRAPHIC SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY/ INTERVAL | ELEVATION (FT) / DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.75 | 5959 / 10 | | | | |
| | | | | | 5958 / 11 | | | | NO SAMPLE |
| | | | | | 5957 / 12 | | | | |
| | | | | | 5956 / 13 | | | | |
| | | | | | 5955 / 14 | | | | |
| | | | | | 5954 / 15 | | | | |
| | | | | | 5953 / 16 | | | | |
| | | | | | 5952 / 17 | | | | |
| | | | | | 5951 / 18 | | | | |
| | | | | | 5950 / 19 | 16/10/87 | | | |
| | | | | | 20 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| STATE PLANE COORDINATE | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5958.16 | PROJECT NUMBER- 667.11 | LOG OF BORING NUMBER | |
| NORTH: 749130 | AREA- 903 PMB | CASING DIAMETER (IN) 2.38 | GEOLOGIST LAW/DCB | 16-87BR | |
| EAST 2085298 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED- 07/08/87 | | |

REMARKS Hollow stem auger Rotary core Surface casing set to 48.17' by Craig Hood, June 18, 1987

| Sample Number | Sample Grain Size | Percent Recovery | Recovery/Sampling Interval | Datum (ft) / Depth (ft) | Well or Piezometer Construction | Lithology | Unified Soils Classification or Rock Type | Description |
|---|---|---|---|---|---|---|---|---|
| | | | 2.0/2.6 | 20–22 | | | 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 |
| | | | 0.0/4 | 22–23 | | | CLAYSTONE | Top of Bedrock<br>Very light gray (N8) bedding not apparent highly weathered, slightly friable, occasional iron stains |
| | | | 0.5/0.5 | 23–24 | | | NO SAMPLE | |
| | | | | | | | CLAYSTONE | As above (reference interval 22.3 to 22.6 ft) |
| | | | 2.1/2.1 | 24–26 | | | CLAYSTONE | As above |
| | | | 2.0 | 26–28 | | | CLAYSTONE | As above, color grades to grayish orange (10YR 7/4) approx 26 to 27 ft with increase in iron staining |
| | | | 1.4/1.4 | 28–30 | | | SILTY CLAYSTONE | Pinkish gray (5YR 8/1) bedding not apparent highly weathered, slightly friable moderate silt fraction, local iron staining |
| | | | 0.0/6 | | | | NO SAMPLE | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5560.06 | PROJECT NUMBER: 667.11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PAD | CASING DIAMETER (CM) 2.38 | GEOLOGIST | LAW/DCB |
| EAST | 2086248 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (CM) 4 | DATE DRILLED | 07/08/97 |

REMARKS Hollow stem auger Rotary core Surface casing set to 49.17' by Craig Hood, June 18, 1997

# 16-87BR

| Depth (ft) | Recovery/Interval | Lithology | Unified Soils Classification or Rock Type | Description |
|---|---|---|---|---|
| 30–31 | 1.5/1.5 | | SILTY CLAYSTONE | Very pale orange (10YR 8/2) bedding not evident highly weathered, and friable, some iron staining, becomes and yellowish brown (10YR 5/4) toward bottom of interval |
| 31–32 | 0/0.5 | | NO SAMPLE | |
| 32–33 | 1.0/2 | | SILTY CLAYSTONE | Same as above, heavy ironization and abundant black mineralization near top of interval |
| 33–34 | | | | |
| 34–35 | 1.5/2 | | SILTY CLAYSTONE | Very lt gray to grayish orange (10YR 7/4 to N8) highly weathered, and friable, bedding not evident, some iron staining |
| 35–36 | | | | |
| 36–37 | 1.5/2 | | SILTY CLAYSTONE | Same as above |
| 37–38 | | | | |
| 38–39 | 1.5/2 | | SILTY CLAYSTONE | Same as above |
| 39–40 | | | | |

| STATE PLANE COORDINATE | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 3559.66 | PROJECT NUMBER: 657 11 | LOG OF BORING NUMBER: |
|---|---|---|---|---|
| NORTH: 749130 | AREA: 903 PAD | CASING DIAMETER (IN) 2 30 | GEOLOGIST LAW/KCD | 16-87BR |
| EAST 2056249 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED: 07/08/87 | |

REMARKS: Hollow stem auger Rotary core. Surface casing set to 49 17' by Craig Hood, June 18, 1987

| CHEMICAL SAMPLE DEPTH / ADDITIONAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE TYPE | PERCENT RECOVERY | RQD/REC/SPECIAL | DATUM (FT) / DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1.7 ft | 40 | | | | SILTY CLAYSTONE Grayish orange (10YR 7/4 to 10YR 6/2) highly weathered, and friable, bedding not evident, some iron staining |
| | | | | 1.8 ft | 42 | | | | SILTY CLAYSTONE Same as above with color change to light brownish gray (5YR 6/1) |
| | | | | 1.75 ft | 44 | | | | SILTY CLAYSTONE Same as above with color change to medium dk gray (N4) some carb material no iron staining |
| | | | | 1.65 ft | 46 | | | | SILTY CLAYSTONE Same as above |
| | | | | 1.8 ft | 48 | | | | SILTY CLAYSTONE Same as above, some iron staining |
| | | | | | 50 | | | | CALICHE White (N9) slightly friable |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5969 06 | PROJECT NUMBER 657 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749130 | AREA 903 PAD | CASING DIAMETER (IN) 2 38 | GEOLOGIST LAWVER | 16-87BR |
| EAST | 2066248 | LOCATION NUMBER 19 | 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 DEPTH (HORIZONTAL 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 42/22 | 5919 5918 5917 5916 5915 5914 5913 5912 5911 5910 | | | CLAYSTONE | Light gray (N7), bedding not apparent (massive?) weathered, slightly to moderately friable, localized iron staining |
| | | | | 8/28 | | | | NO SAMPLE | |
| | | | | 3/3 | | | | 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 |
| | | | | | | | | CLAYSTONE | Same as above |
| | | | | 45/45 | | | | SILTY CLAYSTONE | Light gray (N7) bedding not apparent (massive?) weathered and friable |

50 51 52 53 54 55 56 57 58 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 PMD | CASING DIAMETER (IN) 2 38 | GEOLOGIST LAW/RCB | 16-87BR |
| EAST | 2056298 | LOCATION NUMBER 10 | 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 | DEPTH (FT) | LITHOLOGY | DESCRIPTION |
|---|---|---|---|---|---|---|
| | | | 1.6/1.6 | 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 |
| | | | 2.8/2.35 | 61, 62, 63, 64, 65, 66, 67 | | SILTY CLAYSTONE As above |
| | | | 0/0.15 | 68 | | NO SAMPLE |
| | | | 3/3 | 69, 70 | | 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 |

| STATE PLANE COORDINATE | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5969 06 | PROJECT NUMBER: 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749830 | AREA: 903 PMD | CASING DIAMETER (IN) 2 38 | GEOLOGIST LAW/DCB | 16-87BR |
| EAST 2035248 | LOCATION NUMBER 16 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

REMARKS Hollow stem auger Rotary core Surface casing set to 49 17' by Craig Hood, June 18, 1987

| CHEMICAL SAMPLE DEPTH / GEOTECHNICAL 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5958 | 70 | | | | |
| | | | | 0 1/1 | 5957 | 71 | | | SILTY CLAYSTONE | As above |
| | | | | 2/2 | 5956 | 72 | | | SILTY CLAYSTONE | As above |
| | | | | 2/2 | 5955 | 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 | 5954 | 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 and friable |
| | | | | 0/0 | 5953 | 75 | | | NO SAMPLE | |
| | | | | | 5952 | 76 | | | | |
| | | | | | 5951 | 77 | | | | |
| | | | | | 5950 | 78 | | | | |
| | | | | | | 79 | | | | |
| | | | | | | 80 | | | | |

| 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) 2.10 | GEOLOGIST LAWRCB | 16-87BR |
| EAST | 2086248 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

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

| DRILLING SAMPLE DATA / BARON SIGNAL BAPPL DX | 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1.0 | 80 | | | CLAYSTONE | Medium light gray (N6), bedding not apparent (massive?), weathered, slightly friable, slight silt fraction and occasional short intervals of silt |
| | | | | | 81 | | | | |
| | | | | | 82 | | | | |
| | | | | | 83 | 12/08/87 | | | |
| | | | | | 84 | | | CLAYSTONE | Same as above |
| | | | | | 85 | | | | |
| | | | | 1.0 | 86 | | | | |
| | | | | | 87 | | | | |
| | | | | | 88 | | | CLAYSTONE | As above |
| | | | | | 89 | | | | |
| | | | | 1.0 | 90 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5959.05 | PROJECT NUMBER: 657.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA: 903 PMD | CASING DIAMETER (IN) 2.38 | GEOLOGIST LAW/RCB | 16-87BR |
| EAST | 2086249 | LOCATION NUMBER 19 | 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 DEPTH / GEOTECHNICAL SAMPLE DEPTH | SAMPLE NUMBER | SAMPLE GRADE | PERCENT RECOVERY | RECOVERY/ INTERVAL | DATUM (FT) DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/1 | 90 | | | | |
| | | | | 0.5/0.5 | 92 | | | CLAYSTONE | As above |
| | | | | 1/1 | 93, 94, 95, 96 | | | CLAYSTONE | As above |
| | | | | 3.3/3.3 | 97, 98, 99, 100 | | | CLAYSTONE | As above |
| | | | | | | | | SILTSTONE | Interval grades to siltstone below 98 ft very light gray (N8) thin bedded <1 mm Horizontal to 10 degree dip weathered, slightly friable |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 17.4 | GROUND ELEVATION (FT) 5969.66 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH 749138 | | AREA: 903 PAD | CASING DIAMETER (IN) 2.38 | GEOLOGIST LAM/RCB | 16-87BR |
| EAST 2056249 | | LOCATION NUMBER 16 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

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

| CHEMICAL SAMPLE DEPTH / GEOTECHNICAL 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.0/0.0 | 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 |
| | 0014 | | | 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 f |
| | | | | | 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 38 | GEOLOGIST LAMBERT | 16-87BR |
| EAST | 208249 | LOCATION NUMBER 16 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

REMARKS Hollow stem auger Rotary core Surface casing set to 49 17' by Craig Hood, June 18, 1987

| LATITUDE SAMPLE DEPTH GRADA ZONAL SAMPLE DE N | 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 3 3/3 3 | 5959 110 | | | | |
| | | | | | 5958 111 | | | | |
| | | | | | 5957 112 | | | | |
| | | | | 0/0 0 | | | | NO SAMPLE | |
| | | | | | 5956 113 | | | SILTSTONE | As above |
| | | | | | 5955 114 | | | | |
| | | | | 1/1 | 5954 115 | | | | |
| | | | | | 5953 116 | | | | |
| | | | | | 5952 117 | | | 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 |
| | | | | | 5951 118 | | | | |
| | | | | 1/1 | 5950 119 | | | | |
| | | | | | 120 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5969 66 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH 749130 | | AREA 903 MID | CASING DIAMETER (IN) 2 10 | GEOLOGIST LAW/BCB | 16-87BR |
| EAST 2056249 | | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

REMARKS Hollow stem auger Rotary core Surface casing set to 49 17' by Craig Hood, 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5949 | 120 | | | | |
| | | | 05/05 | 5948 | 121 | | | SILTSTONE | As above |
| 00155 | | | | 5947 | 122 | | | SILTSTONE | As above |
| | | | 32/32 | 5946 | 123 | | | | |
| | | | | 5945 | 124 | | | | |
| | | | 0/03 | | | | | NO SAMPLE | |
| | | | | 5944 | 125 | | | SILTSTONE | Light gray (N7) laminar bedding with some wavy bedding, weathered, slightly friable |
| | | | | 5943 | 126 | | | 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 |
| | | | 4/4 | 5942 | 127 | | | | |
| | | | | 5941 | 128 | | | | |
| | | | | 5940 | 129 | | | CLAYSTONE | As above |
| | | | | | 130 | | | | |

| 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 | 2056249 | LOCATION NUMBER 119 | 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 |
|---|---|---|---|---|---|---|---|---|
| | | | 2.2/3.5 | 130 | | | | |
| | | | | 131 | | | | |
| | | | | 132 | | | | |
| | | | 0.5/0.5 | | | | CLAYSTONE | As above |
| | | | | 133 | | | SILTSTONE | Interval grades to siltstone at 132.9 ft light gray (N7) thin bedded, weathered, slightly friable, occasionally interbedded with claystone |
| | | | | 134 | | | | |
| | | | 1.0/1.0 | 135 | | | | |
| | | | | 136 | | | | |
| | | | | 137 | | | SILTSTONE | As above with increasing very fine sand fraction |
| | | | | 138 | | | | |
| | | | 1.0/1.0 | 139 | | | | |
| | | | | 140 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5959 05 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH 749530 | | AREA 903 PMD | CASING DIAMETER (IN) 2 38 | GEOLOGIST LAW/BCD | 16-87BR |
| EAST 2085249 | | LOCATOR NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

REMARKS Hollow stem auger Rotary core Surface casing set to 49 17' by Craig Hood, June 18, 1987

| CRITICAL 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 140 | | | | |
| | | | | | 141 | | | SANDSTONE | Interval grades to sandstone by approx 140 5 ft light gray (N7) thin bedded, weathered, slightly friable, very fine grained, abundant silt |
| | 02116 | | | | 142 | | | | |
| | | | | 3.5/3.10 | 143 | | | | |
| | | | | | 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 | 145 | | | NO SAMPLE | |
| | | | | | | | | SANDSTONE | Light gray (N7) thin bedded <2 mm weathered, slightly friable medium to fine grained, moderately sorted, sub-rounded to rounded |
| | | | | | 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 |
| | | | | 32/3.2 | | | | | |
| | | | | | 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 |
| | | | | | 148 | | | | |
| | | | | 0/0.1 | | | | NO SAMPLE | |
| | | | | | 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 |
| | | | | 2/2 | 150 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 9569 06 | PROJECT NUMBER: 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749130 | AREA 903 MB | CASING DIAMETER (IN) 2 38 | GEOLOGIST LAW/RCB | 16-87BR |
| EAST | 2085249 | LOCATOR NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED: 07/08/87 | |

REMARKS Hollow stem auger Rotary core Surface casing set to 49 17' by Craig Hood, June 18, 1987

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2 ft | 9569 / 150 | | | | |
| | | | | | 9568 / 151 | | | SANDSTONE | As above |
| | | | | 2 ft | 9567 / 152 | | | | |
| | | | | | 9566 / 153 | | | SILTSTONE | Interval grades to siltstone, light gray (N7) thin bedded, wavy weathered, slightly friable, slight clay fraction, carbonaceous mineralization along bedding plane parting at approximately 155 ft |
| | 10157 | | | 4 ft | 9565 / 154 | | | | |
| | | | | | 9564 / 155 | | | | |
| | | | | | 9563 / 156 | | | | |
| | | | | | 9562 / 157 | | | SILTSTONE | As above with increase in sand fraction below 157 3 ft sandy siltstone |
| | | | | 2 ft 9 ft 8 in | 9561 / 158 | | | | |
| | | | | | 9560 / 159 | | | | |
| | | | | | | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 174 | GROUND ELEVATION (FT) 5969 06 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH 749130 | | AREA 903 PMD | CASING DIAMETER (IN) 2 ID | GEOLOGIST LAW/BCB | 16-87BR |
| EAST 2086248 | | LOCATION NUMBER 16 | 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 GRAIN SIZE | PERCENT RECOVERY | RECOVERY/INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | 81/11 | | 160 | | | SILTSTONE | Interbedded siltstones and claystones at 160 ft reference intervals above Grades to siltstone at 161 ft |
| | | 2/2 | | 161 | | | SILTSTONE | Light gray (N7) thin bedded <2 mm slightly weathered, slightly friable, localized carbonaceous mineralization |
| | | | | 162 | | | CLAYSTONE | Grades to claystone, medium gray (N5) bedding not apparent (massive?) weathered, moderately friable slight silt fraction |
| | | 0/2 | | 163 | | | NO SAMPLE | |
| | | | | 164 | | | | |
| | | 45/45 | | 165 | | | CLAYSTONE | As above (reference interval 162 3 to 163 3ft ) |
| | | | | 166 | | | | |
| | | | | 167 | | | | |
| | | | | 168 | | | | |
| | | | | 169 | | | | |
| | | | | 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 | 749830 | AREA 903 PAD | CASING DIAMETER (IN) 2.38 | GEOLOGIST LAW/DCB | 16-87BR |
| EAST | 2086298 | LOCATION NUMBER 19 | BOREHOLE DIAMETER (IN) 4 | DATE DRILLED 07/08/87 | |

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

| CHEMICAL SAMPLE DEPTH | GRAIN SIZE/AL SAMPLE DEP | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 45 M.S | 5799 | 170 | | | | |
| | | | | | | 5798 | 171 | | | | |
| | | | | | | 5797 | 172 | | | | |
| | | | | | | 5796 | 173 | | | | |
| | | | | | | 5795 | 174 | | | | SILTY CLAYSTONE Interval grades to silty claystone, Light gray (N7) bedding not apparent (massive?) weathered, slightly friable |
| | | | | | | 5794 | 175 | | | | |
| | | | | | | 5793 | 176 | | | | |
| | | | | | | 5792 | 177 | | | | |
| | | | | | | 5791 | 178 | | | | |
| | | | | | | 5790 | 179 | | | | |
| | | | | | | | 180 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5968 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA NOUND 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 SL 64' by J B Bergson, Aug 4, 1987

| CRITERIC SAMPLE DEPTH GRADATIONAL SAMPLE DE | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVER I TER AL | DATUM FT | DEPTH FT | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 10/15 | 5968 5967 | 0 1 | | | 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 |
| | | | | 8/15 | 5966 | 2 | | | NO SAMPLE | |
| | | | | 10/12 | 5965 5964 | 3 4 | | | 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) |
| | | | | 17/19 | 5963 | 5 | | | GC | Same as above |
| | | | | 17/15 | 5962 | 6 | | | GC | Same as above less caliche CaCO3, more brown clay matrix |
| | | | | 8/24 | 5961 5960 | 7 8 | | | NO SAMPLE | |
| | | | | 11/12 | 5959 | 9 10 | | | GC | GRAVEL very pale orange (10YR 8/2) to light gray (N7) or 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) 174 | GROUND ELEVATION (FT) 5959.06 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749830 | AREA 903 PMB | CASING DIAMETER (IN) 2.19 | GEOLOGIST LAWRCB | 16-87BR |
| EAST | 2086248 | LOCATION NUMBER 115 | 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 DEPTH / GRADATIONAL SAMPLE DEP | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVERY/ INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4.5/4.5 | 5958 | 170 | | | | |
| | | | | | 5957 | 171 | | | | |
| | | | | | 5956 | 172 | | | | |
| | | | | | 5955 | 173 | | | | |
| | | | | | 5954 | 174 | | | | SILTY CLAYSTONE Interval grades to silty claystone, Light gray (N7) bedding not apparent (massive?) weathered, slightly friable |
| | | | | | 5953 | 175 | | | | |
| | | | | | 5952 | 176 | | | | |
| | | | | | 5951 | 177 | | | | |
| | | | | | 5950 | 178 | | | | |
| | | | | | | 179 | | | | |
| | | | | | | 180 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| STATE PLANE COORDINATE | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5968 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER | |
| NORTH 749634 | AREA NEUNO AREA | CASING DIAMETER (IN) 2 10 | GEOLOGIST LAW/TSD/DCB | 20-87BR | |
| EAST 2086155 | LOCATOR NUMBER N5 | BOREHOLE DIAMETER (IN) 4 0 | DATE DRILLED 08/03/87 | | |

REMARKS Hollow stem auger Rotary core Surface casing to 51 64' by J B Bergson, Aug 4 1987

| Sample Number | Sample Grain Size | Percent Recovery | Recovery Interval | Elevation (m) | Depth (m) | Well or Piezometer Construction | Lithology | Unified Soils Classification or Rock Type | Description |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 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 |
| | | | 10/16 | 5967 | 1 | | | | |
| | | | 0/15 | 5966 | 2 | | | NO SAMPLE | |
| | | | 10/12 | 5965 | 3 | | | 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) |
| | | | | 5964 | 4 | | | GC | Same as above |
| | | | 17/19 | 5963 | 5 | | | | |
| | | | 07/05 | 5962 | 6 | | | GC | Same as above less caliche CaCO3 more brown clay matrix |
| | | | | | | | | NO SAMPLE | |
| | | | 0/24 | 5961 | 7 | | | | |
| | | | | 5960 | 8 | | | | |
| | | | | 5959 | 9 | | | GC | GRAVEL very pale orange (10YR 8/2) to light gray (N7) angular to 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 |
| | | | 11/12 | | 10 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5956 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

| ORIGINAL SAMPLE NO / 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 |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5956 | 10 | | | | |
| | | | 19/1 | 5957 | 11 | | | GC | Same as above no CaCO3 seems to be present |
| | | | | 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 |
| | | | 19/2 | 5955 | 13 | | | | |
| | | | | 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 [illegible] matrix appear to be iron stained, trace carbonaceous material |
| | | | 25/2 | 5953 | 15 | | | | |
| | | | | 5952 | 16 | | | SILTY CLAYSTONE | Same as above |
| | | | 31/3 | 5951 | 17 | | | | |
| | | | | 5950 | 18 | | | | |
| | | | | 5949 | 19 | | | SILTY CLAYSTONE | Same as above silt content fluctuates 10% either way |
| | | | 19/2 | | 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 HOUND AREA | CASING DIAMETER (IN) 2 ID | GEOLOGIST LAN/TSD/DCB | 20-87BR |
| EAST | 2086155 | LOCATOR NUMBER H9 | 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 | PERCENT RECOVER | RECOVERY/ INTERVAL | DATUM FT DEPTH FT | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 20 | | | | |
| | | | | 33/3 | 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) |
| | | | | | 22 | | | | |
| | | | | | 23 | | | | |
| | | | | 24/2 | 24 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 25 | | | | |
| | | | | 33/3 | 26 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 27 | | | | |
| | | | | | 28 | | | | |
| | | | | 23/2 | 29 | | | SILTY CLAYSTONE | Grayish orange to dark yellowish brown (10YR 7/4 to 6/6) odd [illegible] high plast, some carbonaceous material some vertical fr[illegible] hollow geode like nodules approx 1 (iron rich) trace CaCO3 |
| | | | | | 30 | | | | |

| 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 10 | 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

| CHEMICAL SAMPLE DEPTH / GRANULOMETRIC SAMPLE DE | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVER INTER AL | DATUM FT / DEPTH FT | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5958 30 | | | | |
| | | | | 36/3 | 5957 31 | | | SILTY CLAYSTONE | Same as above some pale yellowish brown (10YR 6/2) toward bottom, Co003 stringers present iron stoining, did not see any nodules |
| | | | | | 5956 32 | | | | |
| | | | | | 5955 33 | | | | |
| | | | | 0/09 | 5954 34 | | | NO SAMPLE | |
| | | | | | 5953 35 | | | SILTY CLAYSTONE | Dark yellowish orange to very light gray (10YR 8/2 to N8) moderate to high plasticity becoming siltier at bottom |
| | | | | 25/2 | 5952 36 | | | | |
| | | | | | 5951 37 | | | 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 |
| | | | | 39/3 | 5950 38 | | | | |
| | | | | | 5949 39 | | | | |
| | | | | | 5948 40 | | | SILTY CLAYSTONE | Dark yellowish orange to yellowish gray (10YR 6/6 to 5Y 7/2) ron |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5968 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA HOLMD AREA | CASING DIAMETER (IN) 2 ID | GEOLOGIST LAW/TSD/DCB | 20-87BR |
| EAST | 2086155 | LOCATOR NUMBER W9 | BOREHOLE DIAMETER (IN) 4 0 | DATE DRILLED 08/03/87 | |

REMARKS Hollow stem auger Rotary core Surface casing to 51 6" by J B Bergman, Aug 4, 1987

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVER INTERVAL | DATUM DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | 25/2 | 5928 40 | | | | staining in some vertical fractures silt content fluctuates by 10% |
| | | | | 5927 41 | | | | |
| | | | | 5926 42 | | | CLAYSTONE | Dusky yellow (5Y 6/4) to light brownish gray (5YR 6/1) highly weathered, slightly to moderately friable some silt some iron staining |
| | | | 18/3 | 5925 43 | | | | |
| | | | | 5924 44 | | | | |
| | | | | 5923 45 | | | 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 |
| | | | 27/2 | 5922 46 | | | | |
| | | | | 5921 47 | | | CLAYSTONE | Same as above silt content fluctuates approx 20% upward toward of interval |
| | | | 43/3 | 5920 48 | | | | |
| | | | | 5919 49 | | | | |
| | | | | 50 | | | 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 HOUND AREA | CASING DIAMETER (IN) 2 18 | GEOLOGIST LAW/TSD/BCB | 20-87BR |
| EAST | 2086155 | LOCATOR NUMBER H9 | BOREHOLE DIAMETER (IN) 4 0 | DATE DRILLED 08/03/87 | |

REMARKS Hollow stem auger Rotary core Surface casing to 51 64' by J B Bergeon, Aug 4, 1987

| CHEMICAL SAMPLE DEPTH GRADA ZONAL SAMPL DE | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVERY INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 3/23 | 5918 | 50 | | | | 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 some description as below, interval 54 to 55 5 ft |
| | | | | | 5917 | 51 | | | | |
| | | | | | 5916 | 52 | | | NO SAMPLE | |
| | | | | 0/2 | 5915 | 53 | | | | |
| | | | | | 5914 | 54 | | | SILTY CLAYSTONE | Lt gray (N7) massive bedding well weathered, mod friability trace of carb material and iron staining as mottles |
| | | | | 15/15 | 5913 | 55 | | | | |
| | | | | 16/1 | 5912 | 56 | | | SILTY CLAYSTONE | Same as above |
| | | | | 15/15 | 5911 | 57 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5910 | 58 | | | SILTY CLAYSTONE | Same as above |
| | | | | 1 75/1 75 | 5909 | 59 | | | SILTSTONE | Light gray (N7), massive bedding, weathered, slightly friable, some |
| | | | | | | 60 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5958 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA HOLMS AREA | CASING DIAMETER (IN) 2 ID | GEOLOGIST LAW/TSD/DCB | 20-87BR |
| EAST | 2096155 | LOCATION 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

| CHEMICAL SAMPLE DEPTH / GRADATIONAL SAMPLE DEP | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVERY / INTERVAL | DATUM 1 DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 17/17 | 5968 60 | | | | carb material and clay becoming clayier at bottom 0 5 ft of interval |
| | | | | 16 5/16 5 | 5967 61 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1) massive to wavy bedding weathered, slightly friable, VF6 sand and silt are interbedded throughout trace of carb material |
| | | | | 18/18 | 5966 62 | | | SILTY CLAYSTONE | Same as above trace of iron staining as mottles |
| | | | | 16 5/16 5 | 5965 63 | | | SILTY CLAYSTONE | Same as above some carb material and iron staining |
| | | | | 0/0 5 | 5964 64 | | | NO SAMPLE | |
| | | | | 0 5/0 5 | 5963 65 | | | SILTY CLAYSTONE | Same as above |
| | | | | 15/15 | 5962 66 | | | SILTY CLAYSTONE | Same as above |
| | | | | 17/17 | 5961 67 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1) to very lt gray (N8), well weathered VF silt laminae are bedded vertically and friable, some car and iron staining as mottles |
| | | | | 0/0 3 | 5960 68 | | | NO SAMPLE | |
| | | | | | 5959 69 | | | | |
| | | | | | 70 | | | | |

| 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 10 | GEOLOGIST LAN/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

| CHEMICAL SAMPLE DEPTH / GRADA TIONAL SAMPLE DE | SAMPLE NUMBER | SAMPLE GRAB SIZE | PERCENT RECOVER | RECOVERY INTERVAL | DATUM FT | DEPTH FT | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 16/16 | 5958 | 70 | | | SILTY CLAYSTONE | Olive gray (5Y 4/1) to very lt gray (N8) VFG sandstone and silt laminae are bedded vertically to nearly vertical and friable, trace of carb material and iron staining as mottles |
| | | | | 10/12 | 5957 | 71 | | | SILTY CLAYSTONE | Same as above |
| | | | | 15/12 | 5956 | 72 | | | SILTY CLAYSTONE | Same as above, vertical laminae is no longer present (massive bedding?) silt occurs in pockets |
| | | | | 16/16 | 5955 | 73 | | | SILTY CLAYSTONE | Same as above, lt olive gray (5Y 6/1) interval becomes more carb at the bottom |
| | | | | 17/17 | 5954 | 74 | | | SILTY CLAYSTONE | Same as above |
| | | | | 12/12 | 5953 | 75 | | | SILTY CLAYSTONE | Same as above |
| | | | | 08/1 | 5952 | 76 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5951 | 77 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5950 | 78 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5949 | 79 | | | SILTY CLAYSTONE | Same as above |
| | | | | | | 80 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5958 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA WOUND AREA | CASING DIAMETER (IN) 2 10 | GEOLOGIST LAW/TSD/DCB | 20-87BR |
| EAST | 2096155 | LOCATOR NUMBER W9 | BOREHOLE DIAMETER (IN) 4 0 | DATE DRILLED 08/03/87 | |

REMARKS Hollow stem auger Rotary core Surface casing to 51 64' by J B Bergeon, Aug 4, 1987

| SAMPLE NUMBER | SAMPLE INTERVAL | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY INTERVAL | DATUM (FT) DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 15/15 | 5958 80 | | | | |
| | | | | | 5957 81 | | | SILTY CLAYSTONE | As above, with slickensides at 81 5 ft 40 degree angle and decrease in carbonaceous mineralization |
| | | | | 17/17 | 5956 82 | | | | |
| | | | | | 5955 83 | | | SILTY CLAYSTONE | Same as above |
| | | | | 16/16 | 5954 84 | | | | |
| | | | | | 5953 85 | | | SILTY CLAYSTONE | Same as above |
| | | | | 19/19 | 5952 86 | | | | |
| | | | | | 5951 87 | | | SILTY CLAYSTONE | |
| | | | | 12/12 | | | | | |
| | | | | 0/0 1 | | | | NO SAMPLE | Same as above |
| | | | | 0 1/0 1 | 5950 88 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5949 89 | | | SILTY CLAYSTONE | Same as above |
| | | | | 10/10 | 90 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126.2 | GROUND ELEVATION (FT) 5558.1 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA: HOLMES AREA | CASING DIAMETER (IN) 2.10 | GEOLOGIST | LAW/TSD/RCB |
| EAST | 2086155 | LOCATION NUMBER W9 | BOREHOLE DIAMETER (IN) 4.0 | DATE DRILLED | 08/03/97 |

REMARKS Hollow stem auger Rotary core Surface casing to 51.64' by J.B. Bergman, Aug. 4, 1997

# 20-87BR

| CRITICAL SAMPLE DEPTH / GRADATIONAL SAMPLE DEP | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVERY INTERVAL | DATUM (FT) | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5548 | 90 | | | | |
| | | | | 10/10 | 5547 | 91 | | | SILTY CLAYSTONE | Same as above, increase in silt fraction below 92.0 ft |
| | | | | 16.5/16.5 | 5546 | 92 | | | SILTY CLAYSTONE | |
| | | | | | 5545 | 93 | | | | |
| | | | | 0/2.5 | 5544 | 94 | | | NO SAMPLE | Light gray (N7) bioturbated / soft sediment deformation? well weathered, moderately friable, some carbonaceous mineralization disseminated throughout |
| | | | | | 5543 | 95 | | | | |
| | | | | 14/14 | 5542 | 96 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5541 | 97 | | | | |
| | | | | 16/16 | 5540 | 98 | | | SILTY CLAYSTONE | Same as above |
| | | | | | 5539 | 99 | | | | |
| | | | | 17/17 | | 100 | | | SILTY CLAYSTONE | Same as above |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126.2 | GROUND ELEVATION (FT) 9560.1 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH: | 749634 | AREA: HOLDO AREA | CASING DIAMETER (IN) 2.0 | GEOLOGIST LAW/TSD/DCB | 20-87BR |
| EAST | 2086155 | LOCATION 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 DEP | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 9560 | 100 | | | | |
| | | | | 1.1 | 9557 | 101 | | | SILTY CLAYSTONE | SLUFF |
| | | | | 0.0/3 | 9556 | 102 | | | NO SAMPLE | As above (reference interval 96.0 to 101.7 ft.) with localized iron staining below 103 ft. bedding not apparent |
| | | | | 1.5/1.5 | 9555 | 103 | | | SILTY CLAYSTONE | As above |
| | | | | 1.5/1.5 | 9554 | 104 | | | SILTY CLAYSTONE | As above |
| | | | | 0.5/0.5 | 9553 | 105 | | | SILTY CLAYSTONE | As above |
| | | | | 1.0/1.0 | 9552 | 106 | 12/01/87 | | SILTY CLAYSTONE | As above |
| | | | | | 9551 | 107 | | | SILTY CLAYSTONE | As above |
| | | | | 1.4/1.3 | 9550 | 108 | | | | |
| | | | | 0.3/0.3 | 9549 | 109 | | | SILTY CLAYSTONE | As above |
| | | | | 1.3/1.3 | | 110 | | | SILTY CLAYSTONE | As above |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126 2 | GROUND ELEVATION (FT) 5960 1 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749634 | AREA NOUND AREA | CASING DIAMETER (IN) 2 IN | GEOLOGIST LAW/TSD/RCB | 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 | 110 | | | | |
| | | | 17/17 | 5957 | 111 | | | | SILTY CLAYSTONE As above |
| 92/71 | | | 1/1 | 5956 | 112 | | | | SILTY CLAYSTONE As above |
| | | | 17/18 | 5955 | 113 | | | | SILTY CLAYSTONE As above |
| | | | 17/17 | 5954 | 114 | | | | SILTY CLAYSTONE As above, slickenside occurs at approx 115 8 ft approx 45 degrees |
| | | | 16/16 | 5953 | 115 | | | | |
| | | | 18/18 | 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 |
| | | | 22/22 | 5951 | 117 | | | | SILTY CLAYSTONE As above |
| | | | | 5950 | 118 | | | | |
| | | | | 5949 | 119 | | | | SILTY CLAYSTONE As above |
| | | | | | 120 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 126.2 | GROUND ELEVATION (FT) 5550.1 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH 749534 | | AREA NEUBO AREA | CASING DIAMETER (IN) 2.70 | GEOLOGIST LAN/TSD/RCB | 20-87BR |
| EAST 2086155 | | LOCATOR NUMBER NS | BOREHOLE DIAMETER (IN) 4.0 | DATE DRILLED 08/03/87 | |

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

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5548 | 120 | | | | |
| | | | | | 5547 | 121 | | | SILTY CLAYSTONE | As above |
| | | | | 1.5/1.5 | 5546 | 122 | | | | |
| | | | | 0.3/0.3 | | | | | SILTY CLAYSTONE | As above |
| | | | | | 5545 | 123 | | | SILTY CLAYSTONE | As above |
| | | | | 1.0/1.0 | | | | | LITHOLOGY | 124.6 126.2 124.6 |
| | | | | | 5544 | 124 | | | SILTY CLAYSTONE | |
| | | | | 1.6/1.6 | 5543 | 125 | | | | NOTE No water encountered during drilling |
| | | | | | 5542 | 126 | | | | |
| | | | | | 5541 | 127 | | | | |
| | | | | | 5540 | 128 | | | | |
| | | | | | 5539 | 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 | 2087255 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7.5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | | |

| Chemical Sample Depth Gradational Sample OC | Sample Number | Sample Grain Size | Percent Recovery | Recovery/Interval | Datum Elev. Ft | Depth Ft | Well or Piezometer Construction | Lithology | Unified Soils Classification or Rock Type | Description |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 5949 | 0 | | | 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 |
| | | | | 13/12 | 5948 | 1 | | | | |
| | | | | | 5947 | 2 | | | GC | GRAVEL light gray (N7) angular to sub-angular moderately sorted, max size 4.5 cm caliche matrix |
| | | | | 2/2 | 5946 | 3 | | | | |
| | | | | | 5945 | 4 | | | GC | As above, gravel fraction is coarser max size 6 cm some sand |
| | | | | 0.5/0.5 | | | | | | |
| | | | | 0/0.5 | | | | | NO SAMPLE | |
| | | | | | 5944 | 5 | | | 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 |
| | | | | 1.5/1.5 | 5943 | 6 | | | | |
| | | | | 0/0.5 | | | | | NO SAMPLE | |
| | | | | | 5942 | 7 | | | SP | GRAVELLY SAND grayish orange (10YR 7/4) coarse grained to very f r grained, poorly graded, angular to sub-angular some clay and calcareous mineralization |
| | | | | 2/2 | 5941 | 8 | | | CLAYSTONE | Top of Bedrock<br>Very light gray (N7) high plasticity (est.) local iron staining and bodies of caliche, some silt and stringers |
| | | | | | 5940 | 9 | | | CLAYSTONE | As above, caliche bodies/stringers less frequent below 10 ft |
| | | | | 2/2 | | 10 | | | | |

| 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 BCB | 36-87BR |
| EAST | 2087295 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7 5 | DATE DRILLED 08/27/87 | |
| REMARKS | Hollow Stem Auger | | | | |

| SAMPLE NUMBER | SAMPLE INTERVAL | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY INTERVAL | DATUM DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 2 ft | 5939 | | | | |
| | | | | | 10 | | | | |
| | | | | | 5938 | | | | |
| | | | | | 11 | | | CLAYSTONE | As above at 12 ft (est depth) interval grades to very pale orange (10YR 8/2) |
| | | | | 2 ft | 5937 | | | | |
| | | | | | 12 | | | | |
| | | | | | 5936 | | | CLAYSTONE | As above |
| | | | | | 13 | | | | |
| | | | | 2 ft | 5935 | | | | |
| | | | | | 14 | | | | |
| | | | | | 5934 | | | CLAYSTONE | As above |
| | | | | | 15 | | | | |
| | | | | 2 ft | 5933 | | | CLAYSTONE | Light gray (N7), bedding not apparent (massive?) highly weathered, moderately friable, localized iron staining |
| | | | | | 16 | | | | |
| | | | | | 5932 | | | CLAYSTONE | As above |
| | | | | | 17 | | | | |
| | | | | 2 ft | 5931 | | | | |
| | | | | | 18 | | | | |
| | | | | | 5930 | | | CLAYSTONE | As above, below 20 ft (est depth) interval grades from claystone to siltstone to sandstone |
| | | | | | 19 | | | | |
| | | | | 2 ft | 20 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74.5 | GROUND ELEVATION (FT) 5998.04 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2.0 | GEOLOGIST DCB | 36-87BR |
| EAST | 2087255 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7.5 | DATE DRILLED 08/27/87 | |
| REMARKS | Hollow Stem Auger | | | | |

| VERTICAL SAMPLE DEPTH GRADATIONAL SAMPLE DE | 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 | | 20 | | | | |
| | | | | 05/05 | | 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 |
| | | | | 15/15 | | 22 | | | SANDSTONE | As above |
| | | | | 15/15 | | 23 | | | SANDSTONE | As above |
| | | | | 15/15 | | 24 | | | SANDSTONE | As above |
| | | | | 15/15 | | 25 | | | SANDSTONE | As above |
| | UNK | | | 15/15 | | 26 | | | SANDSTONE | As above |
| | | | | 15/15 | | 27 | | | SANDSTONE | As above |
| | | | | 15/15 | | 28 | | | SANDSTONE | As above |
| | | | | 15/15 | | 29 | | | SANDSTONE | As above |
| | | | | | | 30 | | | | |

| STATE PLANE COORDINATE | TOTAL DEPTH (FT) 74.5 | GROUND ELEVATION (FT) 5948.04 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|
| NORTH: 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2.ID | GEOLOGIST BCB | 36-87BR |
| EAST 2087255 | LOCATION NUMBER 09 | BOREHOLE DIAMETER (IN) 7.5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | |

| SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVER | RECOVERY / SAMPLE INTERVAL | DATUM FT | DEPTH (FT) | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 5918 | 30 | | | | |
| | | | 2.0/2. | 5917 | 31 | 12/08/87 | | SANDSTONE | As above, at about 31 ft bedding becomes distinct 2 mm and less in thickness |
| | | | 1.5/1.5 | 5916 | 32 | | | SANDSTONE | As above |
| | | | 1.5/1.5 | 5915 | 33 | 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 | 5914 | 34 | | | 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 | 5913 | 35 | | | SANDSTONE | As above |
| | | | 1.5/1.5 | 5912 | 36 | | | SANDSTONE | As above |
| | | | | 5911 | 37 | | | | |
| | | | | 5910 | 38 | | | | |
| | | | | | 39 | | | | |
| | | | | | 40 | | | | |

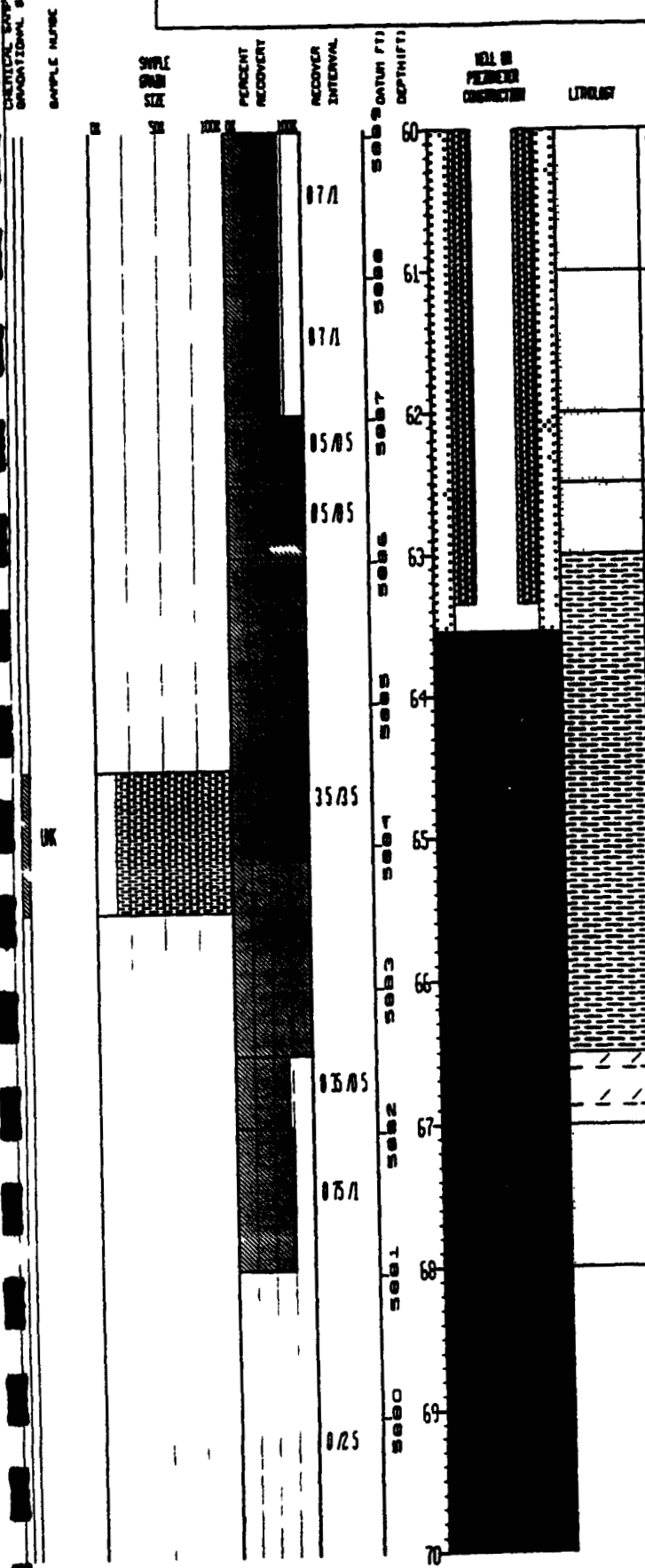
| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74 5 | GROUND ELEVATION (FT) 5949 04 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2 10 | GEOLOGIST DOB | 36-87BR |
| EAST | 2087295 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7 5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | | |

| % LAB SAMPLE USE T GRADA ORAL SAMPLE DE | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 15/15 | 5908 | 40 | | | SANDSTONE | As above |
| | | | | 09/15 | 5907 | 41 | | | SANDSTONE | At 42 ft (est depth) interval grades to medium grained, well rounded sandstone |
| | UNK | | | 1/1 | 5906 | 42 | | | SANDSTONE | As above |
| | | | | 07/15 | 5905 | 43 | | | SANDSTONE | As above |
| | | | | 15/15 | 5904 | 44 | | | SILTSTONE | Interval grades to siltstone below 45 ft, light gray (N7) moderate to slightly friable, slight VFG sand fraction |
| | | | | 03/1 | 5903 | 45 | | | SILTSTONE | As above |
| | | | | 0/1 | 5902 | 46 | | | NO SAMPLE | |
| | | | | 05/05 | 5901 | 47 | | | SILTSTONE | As above (reference interval 45 5 to 47 0 ft ) |
| | | | | 05/05 | 5900 | 48 | | | SILTSTONE | As above |
| | | | | | | 49 | | | | |
| | | | | | | 50 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74 5 | GROUND ELEVATION (FT) 599 04 | PROJECT NUMBER 667 11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2 ID | GEOLOGIST DCB | 36-87BR |
| EAST | 2087255 | LOCATION NUMBER 09 | BOREHOLE DIAMETER (IN) 7 5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | | |

| CRITICAL SAMPLES DEPTH GRADATIONAL SAMPLE OK | SAMPLE NUMBER | SAMPLE GRAIN SIZE | PERCENT RECOVERY | RECOVERY INTERVAL | DATUM FOOT TH FT | WELL OR PIEZOMETER CONSTRUCTION | LITHOLOGY | UNIFIED SOILS CLASSIFICATION OR ROCK TYPE | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 1/1 | 50 | | | CLAYSTONE | Medium light gray (N6) bedding not apparent (massive?) well weathered, moderately to slightly friable, slight silt fraction |
| | | | | 15/15 | 51 | | | CLAYSTONE | As above |
| | | | | 03/03 | 52 | | | SILTY SANDSTONE | Very pale orange (10YR 8/2), bedding not apparent (massive?) highly weathered, moderately friable very fine grained, localized iron staining |
| | | | | 05/1 | 53 | | | SILTY SANDSTONE | As above |
| UNK | | | | 17/17 | 54 | | | SILTY SANDSTONE | As above |
| | | | | 0/05 | 55 | | | NO SAMPLE | |
| | | | | 1/1 | 56 | | | SILTY SANDSTONE | As above (reference interval 52 to 55 5) |
| | | | | 1/1 | 57 | | | SILTY CLAYSTONE | Very light gray (N8) weathered, slightly friable interval grades sandstone, dark yellowish orange (10YR 6/6), bedding not apparent (massive?) well weathered, moderately friable, very fine grained with abundant silt |
| | | | | 2/2 | 58 | | | 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 |
| | | | | | 59 | | | | |
| | | | | | 60 | | | | |

| STATE PLANE COORDINATE | | TOTAL DEPTH (FT) 74.5 | GROUND ELEVATION (FT) 5998.04 | PROJECT NUMBER 667.11 | LOG OF BORING NUMBER |
|---|---|---|---|---|---|
| NORTH | 749979 | AREA EAST TRENCHES | CASING DIAMETER (IN) 2.18 | GEOLOGIST DCB | 36-87BR |
| EAST | 2087255 | 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) 2.10 | GEOLOGIST DCB | 36-87BR |
| EAST | 2087255 | LOCATOR NUMBER 09 | BOREHOLE DIAMETER (IN) 7.5 | DATE DRILLED 08/27/87 | |
| REMARKS Hollow Stem Auger | | | | | |

CHEMICAL SAMPLE DEPTH
GRADATIONAL SAMPLE DEP
SAMPLE NUMBER
SAMPLE GRAIN SIZE (CL SILT SAND GR)
PERCENT RECOVERY (0 50% 100% 150%)
RECOVERY INTERVAL
DATUM FT
DEPTH FT
WELL OR PIEZOMETER CONSTRUCTION
LITHOLOGY
UNIFIED SOILS CLASSIFICATION OR ROCK TYPE
DESCRIPTION

| Depth (ft) | Datum (ft) | Recovery interval | Unified soils classification or rock type | Description |
|---|---|---|---|---|
| 70 | 5948.9 | | | |
| 71 | 5948 | 1/15 | 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 |
| 72 | 5947 | | SANDY CLAYSTONE | Fine grained, light gray (N7) massive bedding, well weathered, mod friable, trace of organic material |
| 73 | 5946 | 1/15 | | |
| 74 | 5945 | 1/1 | SILTY CLAYSTONE | Light gray (N7), massive bedding, well weathered, mod friable some organic material FG sandstone occurs in pockets |
| 75 | 5944 | | | |
| 76 | 5943 | | | |
| 77 | 5942 | | | |
| 78 | 5941 | | | |
| 79 | 5940 | | | |
| 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 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 |

From Rao et al 1982

Does not incl de f gitive dust

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

| Source | LCFs | Injuries | Fatalities |
|---|---|---|---|
| Pollutants | $1x10^{7}$ | — | — |
| Accidents | — | $5\ 1x10^{-7}$ | $3\ 0x10^{-8}$ |

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 1 way distance of 50 miles) would be required to cause 1 additional latent cancer fatality Approximately 210,000 truck shipments would be required to result in 1 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 The soil contamination data currently available for radionuclides VOCs, and metals are presented in Appendix A. These data suggest that the levels of all compounds detected in the soil remain well below the soil thresholds calculated in the Plan for Prevention of Contaminant Dispersion (PPCD) for drilling activities and vehicular traffic For example plutonium239/240 levels at the 903 Pad were found to range from 0 020 picocuries per gram (pCi/g) to 500 pCi/g Thus, the highest level recorded is one order of magnitude below the soil threshold for vehicular traffic recommended in the PPCD and more than two orders of magnitude below the soil threshold of 68 200 pCi/g for well drilling A similar situation exists for compounds detected at the Mound and East Trenches areas Therefore on the basis of existing data, neither well drilling nor vehicular traffic associated with the IM/IRA are expected to present significant health risks due to chemical exposure

It is possible that ongoing soil analysis at OU2 associated with the RI will discover pockets of higher chemical contamination In this event, the data from soil analyses will be compared to the PPCD soil thresholds If soil thresholds are exceeded or if real time air monitoring suggests a potential problem then mitigation measures including unpaved road wetting applications will be implemented

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 desiccants 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, desiccants, 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 drilling 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 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 cubic yards) 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 cubic yards) In general routine transportation activities will be less than those for the 903 Pad and more than Mound and will have very small impacts