

UCAR CARBON COMPANY INC. P.O. BOX 513, COLUMBIA, TENNESSEE 38402-0513

January 21, 1992

Mr. Robert J. Mitrey  
Associate Sanitary Engineer  
New York State Department of  
Environmental Conservation  
600 Delaware Street  
Buffalo, New York 14202-1073

Re: Quarterly Report of Groundwater Analysis  
Republic Solid Waste Management Facility  
Post-closure Monitoring Program

Dear Mr. Mitrey:

I am enclosing a copy of the fifteenth quarter's groundwater sampling analysis from the closed Republic Solid Waste Management Facility. Bedrock well, BW-4 continues to demonstrate some slight volatile organic contamination in the less than one part per million range.

The following will summarize the positive organic parameters:

| <u>Contaminate</u>             | <u>15th Qtr.</u><br><u>ppb</u> | <u>Mean</u><br><u>Conc.</u><br><u>ppb.</u> | <u>Range</u><br><u>ppb</u> |
|--------------------------------|--------------------------------|--|----------------------------|
| Vinyl Chloride                 | 58                             | 91   | 29-300                     |
| Trans-1,2-<br>Dichloroethene   | 260                            | 133  | 5.6-260                    |
| Chloroform                     | 9.6                            | 8  | 0-11.3                     |
| Trichloroethene                | 330                            | 343  | 30-740                     |
| Tetrachloroethane<br>1,1,2,2-  | 310                            | 292  | 72-380                     |
| Tetrachloroethane              | 6.2                            | 763  | 6.2-1600                   |
| Hexachlorobutadiene            | 72                             | 55   | 10-160                     |
| bis(2-ethylhexyl)<br>Phthalate | 16                             | 16   | 0-16                       |

UCAR Carbon Company continues to maintain the opinion that this contamination at well BW-4-86 is not related to the closed Republic Solid Waste Management Facility particularly since the down-gradient bedrock well BW-6 continues to show no contamination.

*AMM MM7*  
*Done*  
*file 32N:3*  
*you checked*

Mr. Robert J. Mitrey  
January 21, 1992  
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If you have further questions or concerns about this data, please contact me at 615-380-4215.

Very truly yours,

UCAR CARBON COMPANY, INC.



R. A. Bolton  
HSEP Manager

RAB/bc

cc: Mr. Jim Devald, Sr. Public Health Engineer  
Niagara County Health Department  
P. O. Box 428  
Niagara Falls, NY 14302-0428

Mr. Dave O'Tool  
New York Department of Environmental Conservation  
50 Wolf Road  
Albany, NY 12233

Mr. A. C. Ogg

ENVIRONMENTAL  
CONSERVATION

UCAR CARBON COMPANY, INC.

QUARTERLY REPUBLIC WASTE MANAGEMENT  
FACILITY POST CLOSURE MONITORING  
PROGRAM

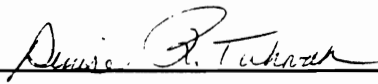
Prepared By:



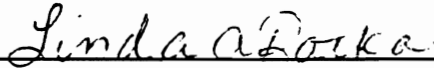
*"A Company Dedicated to Honesty, Quality and Service"*

QA/QC Verification

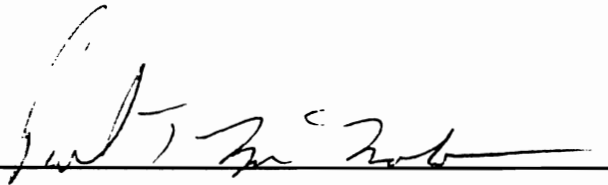
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



Denise R. Tuhovak  
Organics Supervisor



Linda A. Ratka  
Senior Inorganic Technician



Paul T. McMahon  
Quality Control Officer

The following are standard abbreviations:

BQL - Below Quantifiable Limits  
ND - None Detected  
NG - No Growth of Colonies  
NR - Not Requested

**ADVANCED ENVIRONMENTAL SERVICES, INC.**

**QUARTERLY MONITORING WELL INFORMATION**

UCAR Carbon Company  
Niagara Falls, New York

AES Code: CTC

| Monitoring Well I.D. | Evacuation Date | Top of Inner Casing Elevation (ft.) | Monitoring Well Diameter | Water Level (ft.) | Water Elevation (ft.) | Bottom of Well (ft.) | Volume of Standing Water (gallons) | Volume of Evacuated Water (gallons) | Recharge Rate |
|----------------------|-----------------|-------------------------------------|--------------------------|-------------------|-----------------------|----------------------|------------------------------------|-------------------------------------|---------------|
| / BW-1               | 12/16/91        | 610.72                              | 4                        | 19.89             | 590.83                | 28.60                | 5.69                               | 16.0                                | C             |
| / BW-2               | 12/18/91        | 608.43                              | 4                        | 18.02             | 590.41                | 26.10                | 5.27                               | 16.0                                | C             |
| / BW-3               | 12/17/91        | 604.72                              | 4                        | 16.23             | 588.49                | 24.70                | 5.53                               | 17.0                                | C             |
| / BW-4               | 12/17/91        | 607.08                              | 4                        | 16.18             | 590.90                | 22.50                | 4.13                               | 16.0                                | C             |
| / BW-5               | 12/17/91        | 603.33                              | 4                        | 15.32             | 588.01                | 25.70                | 6.78                               | 24.0                                | C             |
| / BW-6               | 12/18/91        | 607.04                              | 4                        | 19.26             | 587.78                | 24.65                | 3.52                               | 10.0                                | R             |
| / MW-1               | 12/16/91        | 609.43                              | 2                        | 14.92             | 594.51                | 21.10                | 1.01                               | 1.5(DRY)                            | S             |
| / MW-2               | 12/18/91        | 607.54                              | 2                        | 21.77             | 585.77                | 24.40                | 0.43                               | 1.5(DRY)                            | R             |
| / MW-3               | 12/17/91        | 601.61                              | 2                        | 14.20             | 587.41                | 16.20                | 0.33                               | 2.0(DRY)                            | N/A           |
| OW-1 SOUTH           | 12/18/91        | 608.81                              | 4                        | 8.75              | 608.81                | 81.05                | 47.20                              | NR                                  | N/A           |
| OW-2 NORTH           | 12/18/91        | 607.06                              | 4                        | 8.95              | 607.06                | 35.90                | 17.59                              | NR                                  | N/A           |

Abbreviations:

- VS = Very Slow ----- Recharge Rate longer than 24 hr period.
- S = Slow ----- Recharge Rate within 24 hr period.
- R = Rapid ----- Recharge Rate within 1 hr period.
- C = Continuous ---- Recharge Rate immediate.
- NR = Not Required
- N/A = Not Applicable

*Michael Champ*  
Technician

1-13-92  
Date

**ADVANCED ENVIRONMENTAL SERVICES, INC.**

**QUARTERLY MONITORING FIELD INFORMATION**

UCAR Carbon Company  
Niagara Falls, New York

AES Code: CTC

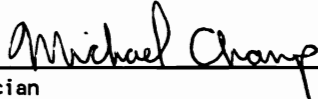
| Monitoring Well I.D. | Date     | Sampling Time | Water Level (ft.) | Turbidity (NTU) | Filter Time | Comments   |
|----------------------|----------|---------------|-------------------|-----------------|-------------|--|
| /BW-1                | 12/17/91 | 10:55 AM      | 19.62             | 9.25            | 4:25 PM     | Clear w/orange particuli, no odor.                           |
| /BW-2                | 12/18/91 | 11:05 AM      | 18.03             | 335.00          | 4:00 PM     | Clear with fine black particuli.                             |
| /BW-3                | 12/17/91 | 3:35 PM       | 16.25             | 27.50           | 4:50 PM     | Slightly cloudy w/black solids, slight odor.                 |
| /BW-4                | 12/17/91 | 3:45 PM       | 16.71             | 550.00          | 5:00 PM     | Dark orange/rust color, globules of solids, strong SO2 odor. |
| /BW-5                | 12/17/91 | 11:45 AM      | 15.35             | 96.30           | 4:45 PM     | Orange particulates, slight odor.                            |
| /BW-6                | 12/18/91 | 3:20 PM       | 19.45             | 1091.00         | 4:15 PM     | Cloudy to turbid black.                                      |
| /MW-1                | 12/17/91 | 11:10 AM      | 15.07             | 17.60           | 4:35 PM     | Cloudy, suspended solids, slight odor.                       |
| /MW-2                | 12/18/91 | 2:55 PM       | 21.78             | 301.00          | ----*       | Turbid black.  |
| MW-2                 | 12/19/91 | 11:30 AM      | 24.33             | N/A             | N/A**       | Turbid black w/black solids, odor.                           |
| ✓ MW-3               | 12/18/91 | 3:00 PM       | DRY               | DRY             | N/A         | Well dry, no sample taken                                    |
| OW-1 SOUTH           | N/A      | N/A           | N/A               | N/A             | N/A         | N/A  |
| OW-2 NORTH           | N/A      | N/A           | N/A               | N/A             | N/A         | N/A  |
| /BLIND DUP           | 12/18/91 | 3:20 PM       | N/A               | 945             | 4:15 PM     | Cloudy to turbid, black.                                     |

The blind duplicate site was BW-6 and the quality control site was BW-4.

\* Insufficient volume for filtered parameters.

\*\* Monitoring location sampled for TKN, Ammonia, and Nitrate before well went dry.

N/A = Not Applicable

  
 Technician Date 1-13-92

CUST SAMPLE ID: MW-1  
 COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
 LABORATORY REFERENCE NO: 10619  
 LABORATORY INORGANICS

COLLECTION METHOD: GRAB  
 SAMPLE TYPE: GROUNDWATER

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Iron, Total (on flame)        | 8.96               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Iron, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Potassium, Total (on flame)   | 40.7               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Potassium, Soluble (on flame) | 37.5               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Zinc, Total (on flame)        | 0.66               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Zinc, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Ammonia                       | 7.80               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen       | 8.0                | mg/l  | ----                    | 0.1                          | EPA 351.2 |

|                              |                                |
|------------------------------|--------------------------------|
| CUST SAMPLE ID: BW-1         | LABORATORY JOB NO: 914082      |
| COLLECTION DATE(S): 12/17/91 | LABORATORY REFERENCE NO: 10620 |
| COLLECTION METHOD: GRAB      | LABORATORY INORGANICS          |
| SAMPLE TYPE: GROUNDWATER     |                                |

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Iron, Total (on flame)        | 4.36               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Iron, Total (on flame)        | 1.09               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Potassium, Total (on flame)   | 4.57               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Potassium, Soluble (on flame) | 4.33               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Zinc, Total (on flame)        | 2.13               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Zinc, Soluble (on flame)      | 1.26               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Ammonia                       | 0.16               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen       | 0.4                | mg/l  | ----                    | 0.1                          | EPA 351.2 |



|   |  |
|---|--|
| CUST SAMPLE ID: BW-3<br>COLLECTION DATE(S): 12/17/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914082<br>LABORATORY REFERENCE NO: 10621<br>LABORATORY INORGANICS |
|---|--|

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Iron, Total (on flame)        | 2.98               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Iron, Soluble (on flame)      | 0.77               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Potassium, Total (on flame)   | 4.10               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Potassium, Soluble (on flame) | 4.09               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Zinc, Total (on flame)        | 0.99               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Zinc, Soluble (on flame)      | 0.16               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Ammonia                       | 0.74               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrate <i>1.2/le?</i>        | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen       | 1.2                | mg/l  | ----                    | 0.1                          | EPA 351.2 |

CUST SAMPLE ID: BW-4  
COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
LABORATORY REFERENCE NO: 10622  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Iron, Total (on flame)        | 567                | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Iron, Soluble (on flame)      | 2.96               | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Potassium, Total (on flame)   | 30.8               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Potassium, Soluble (on flame) | 30.4               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Zinc, Total (on flame)        | 5.40               | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Zinc, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Ammonia                       | 7.10               | mg/l  | ----                    | 0.02                         | EPA 350.1   |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2   |
| Total Kjeldahl Nitrogen       | 7.8                | mg/l  | ----                    | 0.1                          | EPA 351.2   |
| Chloromethane                 | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Vinyl Chloride                | 58                 | ug/l  | ----                    | 10                           | SW 846 8240 |
| Chloroethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Bromomethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Acetone                       | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 1,1-dichloroethene            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Disulfide              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Methylene Chloride            | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| trans-1,2-dichloroethene      | 260                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1-dichloroethane            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Vinyl Acetate                 | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 2-butanone                    | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| Chloroform                    | 9.6                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,1-Trichloroethane         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Tetrachloride          | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Benzene                       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |

CUST SAMPLE ID: BW-4  
COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
LABORATORY REFERENCE NO: 10622  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters     | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|---------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| 1,2-dichloroethane        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Trichloroethene           | 330                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,2-dichloropropane       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromodichloromethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-Chloroethyl vinyl ether | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| 4-Methyl-2-Pentanone      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| cis-1,3-dichloropropene   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Toluene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| trans-1,3-dichloropropene | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2-Trichloroethane     | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Tetrachloroethene         | 310                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorodibromomethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorobenzene             | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Ethylbenzene              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromoform                 | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2,2-Tetrachloroethane | 6.2                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-hexanone                | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| o/p-Xylene                | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| m-Xylene                  | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Styrene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| N-Nitrosodimethylamine    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| bis (2-chloroethyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,3-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,4-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| Benzyl Alcohol            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |

CUST SAMPLE ID: BW-4  
COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
LABORATORY REFERENCE NO: 10622  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 1,2-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroisopropyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| N-nitrosodipropylamine        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachloroethane              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Nitrobenzene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Isophorone                    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroethoxy) Methane  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 1,2,4-trichlorobenzene        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Naphthalene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloroaniline               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobutadiene           | 72 *               | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylnaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorocyclopentadiene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chloronaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Dimethylphthalate             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,6-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Acenaphthylene                | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Acenaphthene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzofuran                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Diethylphthalate              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Chlorophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluorene                      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

CUST SAMPLE ID: BW-4  
 COLLECTION DATE(S): 12/17/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: GROUNDWATER

LABORATORY JOB NO: 914082  
 LABORATORY REFERENCE NO: 10622  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters        | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 4-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| n-nitrosodiphenylamine       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Bromophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobenzene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenanathrene                | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Anthracene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-Butylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluoranthene                 | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzidine                    | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Pyrene                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Butylbenzylphthalate         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3,3-dichlorobenzidine        | BQL *              | ug/l  | ----                    | 20                           | SW846 8270 |
| Benzo (a) Anthracene         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-ethylhexyl) Phthalate | 16 *               | ug/l  | ----                    | 10                           | SW846 8270 |
| Chrysene                     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-octylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (b) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (k) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (a) Pyrene             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Indeno (1,2,3-cd)pyrene      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzo (a,h) Anthracene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (g,h,i) Perylene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenol                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

|                              |                                |
|------------------------------|--------------------------------|
| CUST SAMPLE ID: BW-4         | LABORATORY JOB NO: 914082      |
| COLLECTION DATE(S): 12/17/91 | LABORATORY REFERENCE NO: 10622 |
| COLLECTION METHOD: GRAB      | LABORATORY INORGANICS/ORGANICS |
| SAMPLE TYPE: GROUNDWATER     |                                |

| Analytical Parameters      | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|----------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 2-nitrophenol              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dimethylphenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzoic Acid               | BQL *              | ug/l  | ----                    | 30                           | SW846 8270 |
| 2,4-dichlorophenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chlorophenol             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloro-3-methylphenol    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,6-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,5-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4-nitrophenol              | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4,6-Dinitro-2-Methylphenol | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| pentachlorophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |

FOOTNOTES

\* Samples for 8270 analysis were collected in clear jars. While, Method 8270 specifies amber jars. Customer was notified 12/20/91.

|                              |                                |
|------------------------------|--------------------------------|
| CUST SAMPLE ID: BW-5         | LABORATORY JOB NO: 914082      |
| COLLECTION DATE(S): 12/17/91 | LABORATORY REFERENCE NO: 10623 |
| COLLECTION METHOD: GRAB      | LABORATORY INORGANICS          |
| SAMPLE TYPE: GROUNDWATER     |                                |

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Iron, Total (on flame)        | 14.0               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Iron, Soluble (on flame)      | 0.48               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Potassium, Total (on flame)   | 2.92               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Potassium, Soluble (on flame) | 2.89               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Zinc, Total (on flame)        | 2.01               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Zinc, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Ammonia                       | 0.27               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen       | 0.5                | mg/l  | ----                    | 0.1                          | EPA 351.2 |

CUST SAMPLE ID: TRIP BLANK  
COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
LABORATORY REFERENCE NO: 10624  
LABORATORY ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: BAKER WATER

| Analytical Parameters     | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|---------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Chloromethane             | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Vinyl Chloride            | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Chloroethane              | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Bromomethane              | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Acetone                   | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 1,1 dichloroethene        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Disulfide          | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Methylene Chloride        | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| trans-1,2-dichloroethene  | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1 dichloroethane        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Vinyl Acetate             | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 2-butanone                | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| Chloroform                | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,1-Trichloroethane     | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Tetrachloride      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Benzene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,2 dichloroethane        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Trichloroethene           | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,2 dichloropropane       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromodichloromethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-Chloroethyl vinyl ether | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| 4-Methyl-2-Pentanone      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| cis-1,3-dichloropropene   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Toluene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| trans-1,3-dichloropropene | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |



|   |  |
|---|--|
| CUST SAMPLE ID: TRIP BLANK<br>COLLECTION DATE(S): 12/17/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: BAKER WATER | LABORATORY JOB NO: 914082<br>LABORATORY REFERENCE NO: 10624<br>LABORATORY ORGANICS |
|---|--|

| Analytical Parameters     | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|---------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| 1,1,2-Trichloroethane     | BQL                | ug/l  | ----                    | 50.                          | SW 846 8240 |
| Tetrachloroethene         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorodibromomethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorobenzene             | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Ethylbenzene              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromoform                 | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2,2-Tetrachloroethane | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-hexanone                | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| o/p-Xylene                | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| m-Xylene                  | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Styrene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |

CUST SAMPLE ID: FIELD BLANK  
 COLLECTION DATE(S): 12/17/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: DI WATER

LABORATORY JOB NO: 914082  
 LABORATORY REFERENCE NO: 10625  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Iron, Total (on flame)        | BQL                | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Potassium, Total (on flame)   | BQL                | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Zinc, Total (on flame)        | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Ammonia                       | BQL                | mg/l  | ----                    | 0.02                         | EPA 350.1   |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2   |
| Total Kjeldahl Nitrogen       | BQL                | mg/l  | ----                    | 0.1                          | EPA 351.2   |
| N-Nitrosodimethylamine        | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| bis (2-chloroethyl) Ether     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 1,3-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 1,4-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzyl Alcohol                | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 1,2-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| bis (2-chloroisopropyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| N-nitrosodipropylamine        | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Hexachloroethane              | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Nitrobenzene                  | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Isophorone                    | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| bis (2-chloroethoxy) Methane  | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 1,2,4-trichlorobenzene        | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Napthalene                    | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-chloroaniline               | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Hexachlorobutadiene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2-methylnapthalene            | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Hexachlorocyclopentadiene     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2-chloronapthalene            | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |

CUST SAMPLE ID: FIELD BLANK  
 COLLECTION DATE(S): 12/17/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: DI WATER

LABORATORY JOB NO: 914082  
 LABORATORY REFERENCE NO: 10625  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters        | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|------------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| 2-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| Dimethylphthalate            | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,6-dinitrotoluene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Acenaphthylene               | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 3-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| Acenaphthene                 | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Dibenzofuran                 | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,4-dinitrotoluene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Diethylphthalate             | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-Chlorophenylphenylether    | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Fluorene                     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| n-nitrosodiphenylamine       | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-Bromophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Hexachlorobenzene            | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Phenanthrene                 | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Anthracene                   | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| di-n-Butylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Fluoranthene                 | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzidine                    | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| Pyrene                       | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Butylbenzylphthalate         | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 3,3-dichlorobenzidine        | BQL *              | ug/l  | ----                    | 20                           | SW 846 8270 |
| Benzo (a) Anthracene         | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| bis (2-ethylhexyl) Phthalate | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |

CUST SAMPLE ID: FIELD BLANK  
 COLLECTION DATE(S): 12/17/91

LABORATORY JOB NO: 914082  
 LABORATORY REFERENCE NO: 10625  
 LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
 SAMPLE TYPE: DI WATER

| Analytical Parameters      | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|----------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Chrysene                   | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| di-n-octylphthalate        | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzo (b) Fluoranthene     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzo (k) Fluoranthene     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzo (a) Pyrene           | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Indeno (1,2,3-cd)pyrene    | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Dibenzo (a,h) Anthracene   | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzo (g,h,i) Perylene     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Phenol                     | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2-methylphenol             | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-methylphenol             | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2-nitrophenol              | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,4-dimethylphenol         | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| Benzoic Acid               | BQL *              | ug/l  | ----                    | 30                           | SW 846 8270 |
| 2,4-dichlorophenol         | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2-chlorophenol             | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 4-chloro-3-methylphenol    | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,4,6-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,4,5-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW 846 8270 |
| 2,4-dinitrophenol          | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| 4-nitrophenol              | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| 4,6-Dinitro-2-Methylphenol | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |
| pentachlorophenol          | BQL *              | ug/l  | ----                    | 40                           | SW 846 8270 |

## FOOTNOTES

\* Samples for 8270 analysis were collected in clear jars. While, Method 8270 specifies amber jars. Customer was notified 12/20/91.

ADVANCED ENVIRONMENTAL SERVICES, INC.  
 LABORATORY REPORT  
 QUALITY CONTROL - PRECISION  
 =====

JOB# 914082

PAGE 1

Type of Analysis: Duplicate Analysis  
 Client: UCAR CARBON COMPANY INC.

A.E.S. Job Code: CTC  
 Units: Milligrams/Liter

| Analytical Parameters            | Sample No. | Original Concentration | Duplicate Concentration | Average Concentration | Range | Relative % Difference |
|----------------------------------|------------|------------------------|-------------------------|-----------------------|-------|-----------------------|
| Zinc, Total                      | 10622      | 5.20                   | 5.60                    | 5.40                  | 0.4   | 7.4                   |
| Zinc, Soluble                    | 10622      | BQL                    | BQL                     | BQL                   | NA    | NA                    |
| Potassium, Total                 | 10622      | 30.5                   | 31.0                    | 30.8                  | 0.5   | 1.6                   |
| Potassium, Soluble               | 10622      | 30.4                   | 30.4                    | 30.4                  | 0     | 0                     |
| Iron, Total                      | 10622      | 543                    | 591                     | 567                   | 48    | 8.5                   |
| Iron, Soluble                    | 10622      | 2.91                   | 3.00                    | 2.96                  | 0.09  | 3.0                   |
| Nitrite                          | 10622      | BQL                    | BQL                     | BQL                   | NA    | NA                    |
| Total Kjeldahl Nitrogen          | 10622      | 8.0                    | 7.6                     | 7.8                   | 0.4   | 5.1                   |
| Ammonia                          | 10622      | 7.00                   | 7.20                    | 7.10                  | 0.2   | 2.8                   |
| Vinyl Chloride (ug/l)            | 10622      | 60                     | 55                      | 58                    | 5.0   | 9                     |
| Chloroform (ug/l)                | 10622      | 9.8                    | 9.5                     | 9.6                   | 0.3   | 3                     |
| 1,1,2,2-Tetrachloroethane (ug/l) | 10622      | 6.2                    | 6.1                     | 6.2                   | 0.1   | 2                     |
| trans-1,2-Dichloroethene (ug/l)  | 10622      | 260                    | 250                     | 260                   | 10    | 4                     |

\* Relative Percent Difference = (Range/Average) X 100

FOOTNOTES

\*\* Due to extraction problem the duplicate for the 8270 analysis could not be reported.

ADVANCED ENVIRONMENTAL SERVICES, INC.  
 LABORATORY REPORT  
 QUALITY CONTROL - PRECISION

JOB# 914082

PAGE 2

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|  |                                     |
|--|-------------------------------------|
| Type of Analysis: Duplicate Analysis<br>Client: UCAR CARBON COMPANY INC. | A.E.S. Job Code: CTC<br>Units: ug/l |
|--|-------------------------------------|

| Analytical Parameters   | Sample No. | Original Concentration | Duplicate Concentration | Average Concentration | Range | Relative % Difference |
|-------------------------|------------|------------------------|-------------------------|-----------------------|-------|-----------------------|
| Trichloroethene         | 10622      | 330                    | 320                     | 330                   | 10    | 3                     |
| Tetrachloroethene       | 10622      | 320                    | 300                     | 310                   | 20    | 6                     |
| All other 8240 Analytes | 10622      | BQL                    | BQL                     | BQL                   | NA    | NA                    |

\* Relative Percent Difference = (Range/Average) X 100

FOOTNOTES

\*\* Due to extraction problem the duplicate for the 8270 analysis could not be reported.

=====

Type of Analysis: Matrix Spikes and E.P.A. Standards  
 Client: UCAR CARBON COMPANY INC.

A.E.S. Job Code: CTC  
 Units: mg/l

| Analytical Parameters     | Sample No. | Type   | Observed Concentration | Original Concentration | Added Concentration | Percent Recovery* |
|---------------------------|------------|--------|------------------------|------------------------|---------------------|-------------------|
| Zinc, Total               | 10622      | SPK    | 5.90                   | 5.40                   | 0.50                | 100               |
| Zinc, Soluble             | 10622      | SPK    | 0.47                   | BQL                    | 0.50                | 94                |
| Potassium, Total          | 10622      | SPK ** | 36.2                   | 15.4                   | 20.0                | 104               |
| Potassium, Soluble        | 10622      | SPK ** | 36.4                   | 15.2                   | 20.0                | 106               |
| Iron, Total               | 10622      | SPK    | 570                    | 567                    | 4.00                | 75                |
| Iron, Soluble             | 10622      | SPK    | 6.82                   | 2.96                   | 4.00                | 96                |
| Nitrite                   | 10622      | SPK    | 0.26                   | BQL                    | 0.25                | 104               |
| Total Kjeldahl Nitrogen   | 10622      | SPK    | 17                     | 7.8                    | 8.0                 | 115               |
| Total Kjeldahl Nitrogen   | ----       | EPA    | 5.2                    | 5.0                    | NONE                | 104               |
| Ammonia                   | 10622      | SPK    | 18.4                   | 7.1                    | 10.0                | 113               |
| Ammonia                   | ----       | EPA    | 1.95                   | 1.98                   | NONE                | 98                |
| 1,1-Dichloroethene (ug/l) | 10622      | SPK    | 22.9                   | BQL                    | 20.0                | 114               |
| Chloroform (ug/l)         | 10622      | SPK    | 29.8                   | 9.6                    | 20.0                | 101               |

\* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

\* If Added=NONE: % Recovery = 100 x ( Observed Concentration / "background" Original Concentration )

FOOTNOTES

\*\* Spike performed on a sample dilution.

Type of Analysis: Matrix Spikes and E.P.A. Standards  
 Client: UCAR CARBON COMPANY INC.

A.E.S. Job Code: CTC  
 Units: ug/l or ppb

| Analytical Parameters   | Sample No. | Type | Observed Concentration | Original Concentration | Added Concentration | Percent Recovery* |
|-------------------------|------------|------|------------------------|------------------------|---------------------|-------------------|
| Benzene                 | 10622      | SPK  | 21.5                   | BQL                    | 20.0                | 108               |
| Toluene                 | 10622      | SPK  | 21.4                   | BQL                    | 20.0                | 107               |
| Chlorobenzene           | 10622      | SPK  | 20.2                   | BQL                    | 20.0                | 101               |
| Phenol                  | 10622      | SPK  | 112                    | BQL                    | 200                 | 56                |
| 2-Chlorophenol          | 10622      | SPK  | 139                    | BQL                    | 200                 | 70                |
| 1,4-Dichlorobenzene     | 10622      | SPK  | 73.1                   | BQL                    | 100                 | 73                |
| N-nitrosodipropylamine  | 10622      | SPK  | 81.1                   | BQL                    | 100                 | 81                |
| 1,2,4-Trichlorobenzene  | 10622      | SPK  | 79.0                   | BQL                    | 100                 | 79                |
| 4-Chloro-3-Methylphenol | 10622      | SPK  | 151                    | BQL                    | 200                 | 75                |
| Acenaphthene            | 10622      | SPK  | 79.9                   | BQL                    | 100                 | 80                |
| 4-Nitrophenol           | 10622      | SPK  | 119                    | BQL                    | 200                 | 60                |
| 2,4-Dinitrotoluene      | 10622      | SPK  | 91.5                   | BQL                    | 100                 | 92                |
| Pentachlorophenol       | 10622      | SPK  | 206                    | BQL                    | 200                 | 103               |

\* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

\* If Added=NONE: % Recovery = 100 x ( Observed Concentration / "background" Original Concentration )



Type of Analysis: Matrix Spikes and E.P.A. Standards  
 Client: UCAR CARBON COMPANY INC.

A.E.S. Job Code: CTC  
 Units: ug/l or ppb

| Analytical Parameters | Sample No. | Type | Observed Concentration | Original Concentration | Added Concentration | Percent Recovery* |
|-----------------------|------------|------|------------------------|------------------------|---------------------|-------------------|
| Pyrene                | 10622      | SPK  | 72.7                   | BQL                    | 100                 | 73                |

\* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

\* If Added=NONE: % Recovery = 100 x ( Observed Concentration / "background" Original Concentration )

|   |  |
|---|--|
| CUST SAMPLE ID: BW-2<br>COLLECTION DATE(S): 12/18/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914098<br>LABORATORY REFERENCE NO: 10667<br>LABORATORY INORGANIC ANALYSIS |
|---|--|

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Iron, Total (on flame)        | 19.0               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Iron, Soluble (on flame)      | 2.74               | mg/l  | ----                    | 0.30                         | EPA 236.1 |
| Potassium, Total (on flame)   | 8.26               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Potassium, Soluble (on flame) | 8.03               | mg/l  | ----                    | 1.00                         | EPA 258.1 |
| Zinc, Total (on flame)        | 36.5               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Zinc, Soluble (on flame)      | 0.15               | mg/l  | ----                    | 0.05                         | EPA 289.1 |
| Ammonia                       | 1.48               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen       | 1.6                | mg/l  | ----                    | 0.1                          | EPA 351.2 |

|   |   |
|---|---|
| * CUST SAMPLE ID: BW-6<br>COLLECTION DATE(S): 12/18/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914098<br>LABORATORY REFERENCE NO: 10668<br>LABORATORY INORGANICS/ORGANICS |
|---|---|

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Iron, Total (on flame)        | 618                | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Iron, Soluble (on flame)      | 5.40               | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Potassium, Total (on flame)   | 24.2               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Potassium, Soluble (on flame) | 1.74               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Zinc, Total (on flame)        | 1.06               | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Zinc, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Ammonia                       | 0.23               | mg/l  | ----                    | 0.02                         | EPA 350.1   |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2   |
| Total Kjeldahl Nitrogen       | 0.5                | mg/l  | ----                    | 0.1                          | EPA 351.2   |
| Chloromethane                 | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Vinyl Chloride                | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Chloroethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Bromomethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Acetone                       | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 1,1-dichloroethene            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Disulfide              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Methylene Chloride            | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| trans-1,2-dichloroethene      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1-dichloroethane            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Vinyl Acetate                 | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 2-butanone                    | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| Chloroform                    | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,1-Trichloroethane         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Tetrachloride          | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Benzene                       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |

CUST SAMPLE ID: BW-6  
COLLECTION DATE(S): 12/18/91

LABORATORY JOB NO: 914098  
LABORATORY REFERENCE NO: 10668  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters     | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|---------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| 1,2-dichloroethane        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Trichloroethene           | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,2-dichloropropane       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromodichloromethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-Chloroethyl vinyl ether | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| 4-Methyl-2-Pentanone      | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| cis-1,3-dichloropropene   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Toluene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| trans-1,3-dichloropropene | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2-Trichloroethane     | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Tetrachloroethene         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorodibromomethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorobenzene             | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Ethylbenzene              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromoform                 | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2,2-Tetrachloroethane | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-hexanone                | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| o/p-Xylene                | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| m-Xylene                  | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Styrene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| N-Nitrosodimethylamine    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| bis (2-chloroethyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,3-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,4-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| Benzyl Alcohol            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |

CUST SAMPLE ID: BW-6  
COLLECTION DATE(S): 12/18/91

LABORATORY JOB NO: 914098  
LABORATORY REFERENCE NO: 10668  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 1,2-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroisopropyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| N-nitrosoinpropylamine        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachloroethane              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Nitrobenzene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Isophorone                    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroethoxy) Methane  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 1,2,4-trichlorobenzene        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Naphthalene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloroaniline               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobutadiene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylnaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorocyclopentadiene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chloronaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Dimethylphthalate             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,6-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Acenaphthylene                | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Acenaphthene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzofuran                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Diethylphthalate              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Chlorophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluorene                      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

\* CUST SAMPLE ID: BW-6  
COLLECTION DATE(S): 12/18/91

LABORATORY JOB NO: 914098  
LABORATORY REFERENCE NO: 10668  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters        | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 4-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| n-nitrosodiphenylamine       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Bormophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobenzene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenanthrene                 | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Anthracene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-Butylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluoranthene                 | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzidine                    | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Pyrene                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Butylbenzylphthalate         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3,3-dichlorobenzidine        | BQL *              | ug/l  | ----                    | 20                           | SW846 8270 |
| Benzo (a) Anthracene         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-ethylhexyl) Phthalate | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Chrysene                     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-octylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (b) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (k) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (a) Pyrene             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Indeno (1,2,3-cd) Pyrene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzo (a,h) Anthracene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (g,h,i) Perylene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenol                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

|   |   |
|---|---|
| CUST SAMPLE ID: BW-6<br>COLLECTION DATE(S): 12/18/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914098<br>LABORATORY REFERENCE NO: 10668<br>LABORATORY INORGANICS/ORGANICS |
|---|---|

| Analytical Parameters      | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|----------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 2-nitrophenol              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dimethylphenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzoic Acid               | BQL *              | ug/l  | ----                    | 30                           | SW846 8270 |
| 2,4-dichlorophenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chlorophenol             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloro-3-methylphenol    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,6-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,5-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4-nitrophenol              | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4,6-Dinitro-2-Methylphenol | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| pentachlorophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |

FOOTNOTES

\* Samples for 8270 analysis were collected in clear jars. While, method 8270 specifies amber jars. Customer was notified 12/20/91.

CUST SAMPLE ID: BLIND      DUPLICATE (BW-6)  
 COLLECTION DATE(S): 12/18/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: GROUNDWATER

LABORATORY JOB NO: 914098  
 LABORATORY REFERENCE NO: 10669  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| Iron, Total (on flame)        | 271                | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Iron, Soluble (on flame)      | 2.48               | mg/l  | ----                    | 0.30                         | EPA 236.1   |
| Potassium, Total (on flame)   | 23.9               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Potassium, Soluble (on flame) | 1.85               | mg/l  | ----                    | 1.00                         | EPA 258.1   |
| Zinc, Total (on flame)        | 0.38               | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Zinc, Soluble (on flame)      | BQL                | mg/l  | ----                    | 0.05                         | EPA 289.1   |
| Ammonia                       | 0.24               | mg/l  | ----                    | 0.02                         | EPA 350.1   |
| Nitrite                       | BQL                | mg/l  | ----                    | 0.01                         | EPA 353.2   |
| Total Kjeldahl Nitrogen       | 0.4                | mg/l  | ----                    | 0.1                          | EPA 351.2   |
| Chloromethane                 | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Vinyl Chloride                | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Chloroethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Bromomethane                  | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| Acetone                       | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 1,1-dichloroethene            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Disulfide              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Methylene Chloride            | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| trans-1,2-dichloroethene      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1-dichloroethane            | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Vinyl Acetate                 | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| 2-butanone                    | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| Chloroform                    | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,1-Trichloroethane         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Carbon Tetrachloride          | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Benzene                       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |



CUST SAMPLE ID: BLIND      DUPLICATE (BW-6)  
 COLLECTION DATE(S): 12/18/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: GROUNDWATER

LABORATORY JOB NO: 914098  
 LABORATORY REFERENCE NO: 10669  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters     | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method      |
|---------------------------|--------------------|-------|-------------------------|------------------------------|-------------|
| 1,2-dichloroethane        | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Trichloroethene           | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,2-dichloropropane       | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromodichloromethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-Chloroethyl vinyl ether | BQL                | ug/l  | ----                    | 10                           | SW 846 8240 |
| 4-Methyl-2-Pentanone      | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| cis-1,3-dichloropropene   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Toluene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| trans-1,3-dichloropropene | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2-Trichloroethane     | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Tetrachloroethene         | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorodibromomethane      | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Chlorobenzene             | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Ethylbenzene              | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Bromoform                 | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 1,1,2,2-Tetrachloroethane | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| 2-hexanone                | BQL                | ug/l  | ----                    | 50                           | SW 846 8240 |
| o/p-Xylene                | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| m-Xylene                  | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| Styrene                   | BQL                | ug/l  | ----                    | 5.0                          | SW 846 8240 |
| N-Nitrosodimethylamine    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| bis (2-chloroethyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,3-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| 1,4-dichlorobenzene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |
| Benzyl Alcohol            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270  |

CUST SAMPLE ID: BLIND      DUPLICATE (BW-6)  
 COLLECTION DATE(S): 12/18/91  
 COLLECTION METHOD: GRAB  
 SAMPLE TYPE: GROUNDWATER

LABORATORY JOB NO: 914098  
 LABORATORY REFERENCE NO: 10669  
 LABORATORY INORGANICS/ORGANICS

| Analytical Parameters         | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|-------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 1,2-dichlorobenzene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroisopropyl) Ether | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| N-nitrosodipropylamine        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachloroethane              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Nitrobenzene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Isophorone                    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-chloroethoxy) Methane  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 1,2,4-trichlorobenzene        | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Naphthalene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloroaniline               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobutadiene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylnaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorocyclopentadiene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chloronaphthalene           | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Dimethylphthalate             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,6-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Acenaphthylene                | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3-nitroaniline                | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| Acenaphthene                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzofuran                  | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrotoluene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Diethylphthalate              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Chlorophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluorene                      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

CUST SAMPLE ID: BLIND  
COLLECTION DATE(S): 12/18/91

DUPLICATE (BW-6)

LABORATORY JOB NO: 914098  
LABORATORY REFERENCE NO: 10669  
LABORATORY INORGANICS/ORGANICS

COLLECTION METHOD: GRAB  
SAMPLE TYPE: GROUNDWATER

| Analytical Parameters        | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|------------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 4-nitroaniline               | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| n-nitrosodiphenylamine       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-Bromophenylphenylether     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Hexachlorobenzene            | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenanthrene                 | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Anthracene                   | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-Butylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Fluoranthene                 | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzidine                    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Pyrene                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Butylbenzylphthalate         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 3,3-dichlorobenzidine        | BQL *              | ug/l  | ----                    | 20                           | SW846 8270 |
| Benzo (a) Anthracene         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| bis (2-ethylhexyl) Phthalate | 85                 | ug/l  | ----                    | 10                           | SW846 8270 |
| Chrysene                     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| di-n-octylphthalate          | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (b) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (k) Fluoranthene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (a) Pyrene             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Indeno (1,2,3-cd) Pyrene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Dibenzo (a,h) Anthracene     | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzo (g,h,i) Perylene       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Phenol                       | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-methylphenol               | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |

|  |                  |   |
|--|------------------|---|
| CUST SAMPLE ID: BLIND<br>COLLECTION DATE(S): 12/18/91<br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | DUPLICATE (BW-6) | LABORATORY JOB NO: 914098<br>LABORATORY REFERENCE NO: 10669<br>LABORATORY INORGANICS/ORGANICS |
|--|------------------|---|

| Analytical Parameters      | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method     |
|----------------------------|--------------------|-------|-------------------------|------------------------------|------------|
| 2-nitrophenol              | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dimethylphenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| Benzoic Acid               | BQL *              | ug/l  | ----                    | 30                           | SW846 8270 |
| 2,4-dichlorophenol         | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2-chlorophenol             | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 4-chloro-3-methylphenol    | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,6-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4,5-trichlorophenol      | BQL *              | ug/l  | ----                    | 10                           | SW846 8270 |
| 2,4-dinitrophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4-nitrophenol              | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| 4,6-Dinitro-2-Methylphenol | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |
| pentachlorophenol          | BQL *              | ug/l  | ----                    | 40                           | SW846 8270 |

FOOTNOTES

\* Samples for 8270 analysis were collected in clear jars while Method 8270 specifies amber jars. Customer was notified 12/20/91.

|   |  |
|---|--|
| CUST SAMPLE ID: MW-2<br>COLLECTION DATE(S): 12/18/91<br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914127<br>LABORATORY REFERENCE NO: 10772<br>LABORATORY INORGANIC ANALYSIS |
|---|--|

| Analytical Parameters | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method |
|-----------------------|--------------------|-------|-------------------------|------------------------------|--------|
|-----------------------|--------------------|-------|-------------------------|------------------------------|--------|

|                             |      |      |      |      |           |
|-----------------------------|------|------|------|------|-----------|
| Iron, Total (on flame)      | 5.66 | mg/l | ---- | 0.30 | EPA 236.1 |
| Potassium, Total (on flame) | 7.38 | mg/l | ---- | 1.00 | EPA 258.1 |
| Zinc, Total (on flame)      | 2.40 | mg/l | ---- | 0.05 | EPA 289.1 |

|   |  |
|---|--|
| CUST SAMPLE ID: MW-2<br>COLLECTION DATE(S): 12/19/91<br><br>COLLECTION METHOD: GRAB<br>SAMPLE TYPE: GROUNDWATER | LABORATORY JOB NO: 914127<br>LABORATORY REFERENCE NO: 10773<br>LABORATORY INORGANIC ANALYSIS |
|---|--|

| Analytical Parameters   | Analytical Results | Units | Method Detection Limits | Practical Quantifiable Limit | Method    |
|-------------------------|--------------------|-------|-------------------------|------------------------------|-----------|
| Ammonia                 | 1.70               | mg/l  | ----                    | 0.02                         | EPA 350.1 |
| Nitrite                 | 0.04               | mg/l  | ----                    | 0.01                         | EPA 353.2 |
| Total Kjeldahl Nitrogen | 2.4                | mg/l  | ----                    | 0.1                          | EPA 351.2 |















**AES ORGANICS DEPARTMENT TRACEABILITY**

JOB CODE: CTC

| <u>Technician Signature</u> | <u>AES Sample #</u> | <u>Method</u> | <u>Date of Analysis</u> | <u>Time of Analysis</u> |
|-----------------------------|---------------------|---------------|-------------------------|-------------------------|
| <i>Jim Felt</i>             | 10668, 10669        | 8270          | 12/27/91                | 12:09, 13:15            |
| <i>Jim Felt</i>             | 10668, 10669        | 8240          | 12/27/91                | 13:02, 13:42            |
|                             |                     |               |                         |                         |
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2186 LIBERTY DRIVE  
NIAGARA FALLS, NY 14304 • (716) 283-3120

# CHAIN OF CUSTODY RECORD

PROJECT NAME: OCAR Carbon  
~~UNION CARBIDE~~ *ome*

SAMPLER'S SIGNATURE: [Signature]

| CONTAINER CLASSIFICATION |                  |                                |     |      |              |                |       |
|--------------------------|------------------|--------------------------------|-----|------|--------------|----------------|-------|
| UNPRESERVED              | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) |                | TOTAL |
|                          |                  |                                |     |      | VIAL (PRES.) | VIAL (UNPRES.) |       |

JOB CODE: CTC

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: BW-6

| DATE     | TIME  | SAMPLE IDENTIFICATION | GRAB | COMP | SAMPLE TYPE | CONTAINER CLASSIFICATION |                  |                                |     |      |              |                |       | PARAMETERS/REMARKS |  |
|----------|-------|-----------------------|------|------|-------------|--------------------------|------------------|--------------------------------|-----|------|--------------|----------------|-------|--------------------|--|
|          |       |                       |      |      |             | UNPRESERVED              | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) | VIAL (UNPRES.) | TOTAL |                    |  |
| 12/18/91 | 11:05 | BW-2                  |      |      |             | 2                        | 1                |                                |     |      |              |                |       | 3                  | T4 SOL METALS, Ammo, N/te, TRN                 |
| 12/18/91 | 15:20 | BW-6                  |      |      |             | 1                        | 2                | 1                              |     |      | 2            |                |       | 6                  | T4 SOL METALS, Ammo, N/te, TRN,<br>TCLSV, TCLV |
| 12/18/91 | 15:20 | BLIND DUPLICATE       |      |      |             | 1                        | 2                | 1                              |     |      | 2            |                |       | 6                  | [Signature]                                    |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |
|          |       |                       |      |      |             |                          |                  |                                |     |      |              |                |       |                    |  |

TOTAL NUMBER OF CONTAINERS 15

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

|   |                         |                        |                                    |
|---|-------------------------|------------------------|------------------------------------|
| 1. RELINQUISHED BY:<br><u>[Signature]</u> | DATE<br><u>12/18/91</u> | TIME<br><u>4:35 pm</u> | RECEIVED BY:<br><u>[Signature]</u> |
| 2. RELINQUISHED BY:<br>_____              | DATE<br>_____           | TIME<br>_____          | RECEIVED BY:<br>_____              |
| 3. RELINQUISHED BY:<br>_____              | DATE<br>_____           | TIME<br>_____          | RECEIVED BY:<br>_____              |

7593

# CHAIN OF CUSTODY RECORD

PROJECT NAME: UNION BRIDGE

SAMPLER'S SIGNATURE: \_\_\_\_\_

| CONTAINER CLASSIFICATION |                  |                                |     |      |              |                |
|--------------------------|------------------|--------------------------------|-----|------|--------------|----------------|
| UNPRESERVED              | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) | VIAL (UNPRES.) |

JOB CODE: 070

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: \_\_\_\_\_

| DATE | TIME | SAMPLE IDENTIFICATION | GRAB | COMP | SAMPLE TYPE | UNPRESERVED | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) | VIAL (UNPRES.) | TOTAL | PARAMETERS/REMARKS |
|------|------|-----------------------|------|------|-------------|-------------|------------------|--------------------------------|-----|------|--------------|----------------|-------|--------------------|
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |
|      |      |                       |      |      |             |             |                  |                                |     |      |              |                |       |                    |

TOTAL NUMBER OF CONTAINERS 25

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

|                           |                      |                     |                    |
|---------------------------|----------------------|---------------------|--------------------|
| 1. RELINQUISHED BY: _____ | DATE <u>12/17/97</u> | TIME <u>4:55 PM</u> | RECEIVED BY: _____ |
| 2. RELINQUISHED BY: _____ | DATE _____           | TIME _____          | RECEIVED BY: _____ |
| 3. RELINQUISHED BY: _____ | DATE _____           | TIME _____          | RECEIVED BY: _____ |



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# CHAIN OF CUSTODY RECORD

PROJECT NAME: WEAR CARBON

| CONTAINER CLASSIFICATION |                  |                                |     |      |              |                |
|--------------------------|------------------|--------------------------------|-----|------|--------------|----------------|
| UNPRESERVED              | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) | VIAL (UNPRES.) |

JOB CODE: CTC

SAMPLER'S SIGNATURE: Mike Champ

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: \_\_\_\_\_

| DATE     | TIME | SAMPLE IDENTIFICATION | GRAB | COMP | SAMPLE TYPE | CONTAINER CLASSIFICATION |                  |                                |     |      |              |                | TOTAL  | PARAMETERS/REMARKS |
|----------|------|-----------------------|------|------|-------------|--------------------------|------------------|--------------------------------|-----|------|--------------|----------------|--|--------------------|
|          |      |                       |      |      |             | UNPRESERVED              | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | HCL | NAOH | VIAL (PRES.) | VIAL (UNPRES.) |  |                    |
| 12/19/91 |      | MW-2                  | ✓    |      | Groundwater | 1                        | 1                |                                |     |      |              | 2              | T. Metals, Ammo., N/ITE, TRN<br>(partial site, Metals taken on 12-18-91) |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |
|          |      |                       |      |      |             |                          |                  |                                |     |      |              |                |  |                    |

TOTAL NUMBER OF CONTAINERS 2

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

|  |                         |                        |                                    |
|--|-------------------------|------------------------|------------------------------------|
| 1. RELINQUISHED BY:<br><u>Mike Champ</u> | DATE<br><u>12-19-91</u> | TIME<br><u>3:30 pm</u> | RECEIVED BY:<br><u>[Signature]</u> |
| 2. RELINQUISHED BY:                      | DATE                    | TIME                   | RECEIVED BY:                       |
| 3. RELINQUISHED BY:                      | DATE                    | TIME                   | RECEIVED BY:                       |

1/6/98