

UCAR

32N03.GW46

UCAR CARBON COMPANY INC.

P.O. Box 887, Niagara Falls, NY 14302-0887

April 6, 1998

Mr. Mark Hans, PE
Regional Solid Materials Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

RECEIVED

APR 7 1998

NYCERS - REG. 9
FOIL
X REL UNREL

32N03

Subject: Quarterly Report of Groundwater Analysis
Republic Solid Waste Management Facility
Post-Closure Monitoring Program

Dear Mr. Hans,

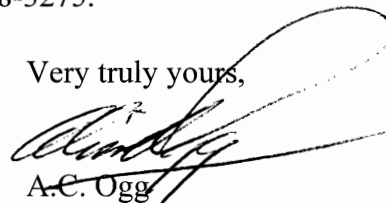
I am enclosing a copy of the fortieth (40) quarter's groundwater sampling analysis from the closed Republic Waste Management Facility. Bedrock well, BW-4, continues to demonstrate some slight volatile organic contamination in the less than one part per million range.

The attached table summarizes the positive organic parameters from BW-4 for the fortieth (40) quarter.

Though Trichloroethene (TCE) was found in groundwater on the north boundary (bedrock well BW-4) of the site, it has been shown by soil gas and surface soil sampling to originate from an area just north of the site. The downgradient bedrock well BW-6 continues to show no similar contamination.

If you have any questions, please contact me at 278-3275.

Very truly yours,



A.C. Ogg
Site Manager

A.C. Ogg
nm
encls.

**QUARTERLY REPORT OF GROUNDWATER ANALYSIS
REPUBLIC SOLID WASTE MANAGEMENT FACILITY POST-CLOSURE MONITORING PROGRAM**

40TH QUARTER

POSITIVE ORGANIC PARAMETERS FROM BW-4

CONTAMINATE	40th Quarter ppb	Mean Conc. ppb	Range ppb
1,2-Dichlorethene (Total)	176	270	200 - 570
Trichloroethene	72	288	30 - 740
Tetrachloroethene	22	223	72 - 440
Hexachlobutadiene	33	48	10 – 160
Vinyl Chloride	54	95	29 – 300

CC: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
Environmental Division
5467 Upper Mountain Road
Lockport, New York 14094-1899

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APR 7 1993

WASTE
FACILITY

UCAR CARBON COMPANY, INCORPORATED

REPUBLIC WASTE MANAGEMENT FACILITY

POST CLOSURE MONITORING PROGRAM

QUARTERLY REPORT

FEBRUARY 1998

Prepared By:

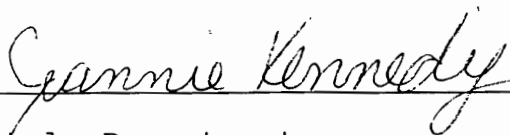


"A Company Dedicated to Honesty, Quality and Service"

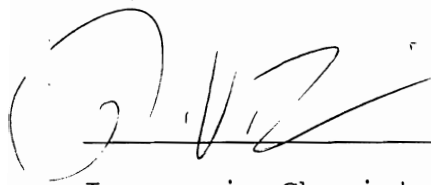
March 18, 1998
REF: CTC8198/100B
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 8198

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.



Metals Department



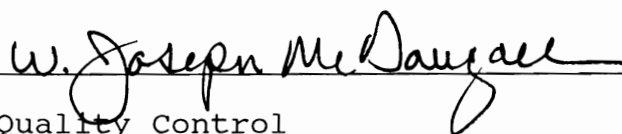
Inorganic Chemistry



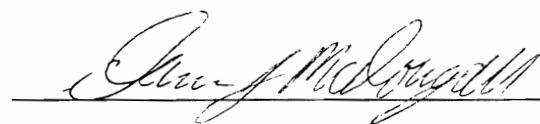
Organic Chemistry



Field Services



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - WELL INFORMATION

February 18, 1998 thru February 20, 1998

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 8198

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	2/18/98	610.72	4	13.61	597.11	28.85	9.95	34.0	C
BW-2	2/19/98	608.43	4	10.36	598.07	26.60	10.60	35.0	C
BW-3	2/19/98	604.72	4	4.69	600.03	22.91	11.89	45.0	C
BW-4	2/19/98	607.08	4	6.52	600.56	22.69	10.56	35.0	C
BW-5	2/18/98	603.33	4	3.61	599.72	28.80	16.44	52.0	C
BW-6	2/19/98	607.04	4	11.61	595.43	25.15	8.84	27.0	C
MW-1	2/18/98	609.43	2	10.62	598.81	23.40	2.09	2.25 (Dry)	S
MW-2	2/19/98	607.54	3	20.16	587.38	24.61	1.63	3.0 (Dry)	VS
MW-3	2/19/98	601.61	2	3.50	598.11	16.11	2.06	4.9 (Dry)	S
OW-1 SOUTH	2/20/98	608.81	2	5.01	603.80	NR	NR	NR	N/A
OW-2 NORTH	2/20/98	607.06	2	4.92	602.14	NR	NR	NR	N/A

Abbreviations:

VS = Very Slow ----- Recharge Rate longer than 24 hr period.

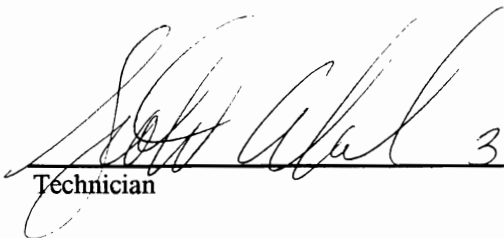
S = Slow ----- Recharge Rate within 24 hr period.

R = Rapid ----- Recharge Rate within 1 hr period.

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable


Technician

3-3-98
Date

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
February 18, 1998 thru February 20, 1998

UCAR CARBON COMPANY, INC.

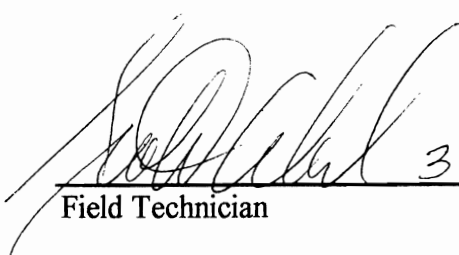
Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 8198

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	2/18/98	2:20 PM	13.99	22.0	3:50 PM	Light Tan Tint
BW-2	2/19/98	11:40 AM	10.56	12.7	3:55 PM	Light Tan Tint with odor.
BW-3	2/19/98	2:00 PM	4.78	0.05	4:00 PM	Clear.
BW-4	2/19/98	3:00 PM	6.68	1.45	4:15 PM	Clear
BW-5	2/18/98	11:20 AM	3.68	0.4	3:45 PM	Clear
BW-6	2/20/98	3:05 PM	14.78	9.7	3:55 PM	Clear with odor.
MW-1	2/19/98	2:20 PM	9.97	11.5	4:10 PM	Cloudy
MW-2	2/20/98	2:15 PM	24.03	179.0	4:10 PM	Cloudy brown.
MW-3	2/20/98	11:15 AM	3.29	90.3	3:45 PM	Cloudy
OW-1 South	2/20/98	11:30 AM	5.01	NA	NA	Required to take water elevation only.
OW-2 North	2/20/98	2:20 PM	4.92	NA	NA	Required to take water elevation only.
Blind Dup	2/20/98	3:05 PM	14.78	10.5	3:55 PM	Clear with odor.
Trip Blank	2/20/98	10:00 AM	NA	0.19	NA	Deionized Water

The Blind Duplicate site was BW-6.


Field Technician

3-3-98
Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/19/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-1

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	11.5	NTU	0.1	EPA 180.1
Ammonia	5.9	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	5.6	mg/L	0.1	EPA 351.3
Total Iron	2.55	mg/L	0.060	EPA 200.7
Soluble Iron	0.124	mg/L	0.060	EPA 200.7
Total Potassium	36	mg/L	1.8	EPA 200.7
Soluble Potassium	39 **	mg/L	1.8	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/20/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-2

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	90.3	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.42	mg/L	0.1	EPA 351.3
Total Iron	3.84	mg/L	0.060	EPA 200.7
Soluble Iron	0.213	mg/L	0.060	EPA 200.7
Total Potassium	2.4	mg/L	1.8	EPA 200.7
Soluble Potassium	1.8	mg/L	1.8	EPA 200.7
Total Zinc	0.052	mg/L	0.016	EPA 200.7
Soluble Zinc	0.018	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/18/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-3

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	22	NTU	0.1	EPA 180.1
Ammonia	1.9	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	2.1	mg/L	0.1	EPA 351.3
Total Iron	1.82	mg/L	0.060	EPA 200.7
Soluble Iron	1.29	mg/L	0.060	EPA 200.7
Total Potassium	12	mg/L	1.8	EPA 200.7
Soluble Potassium	14 **	mg/L	1.8	EPA 200.7
Total Zinc	0.444	mg/L	0.016	EPA 200.7
Soluble Zinc	0.073	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/19/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-4

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	12.7	NTU	0.1	EPA 180.1
Ammonia	1.2	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.78	mg/L	0.1	EPA 351.3
Total Iron	2.79	mg/L	0.060	EPA 200.7
Soluble Iron	2.78	mg/L	0.060	EPA 200.7
Total Potassium	6.3	mg/L	1.8	EPA 200.7
Soluble Potassium	7.3 **	mg/L	1.8	EPA 200.7
Total Zinc	0.166	mg/L	0.016	EPA 200.7
Soluble Zinc	0.060	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/19/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-5

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.05	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.64	mg/L	0.1	EPA 351.3
Total Iron	0.292	mg/L	0.060	EPA 200.7
Soluble Iron	0.271	mg/L	0.060	EPA 200.7
Total Potassium	2.1	mg/L	1.8	EPA 200.7
Soluble Potassium	2.1	mg/L	1.8	EPA 200.7
Total Zinc	0.213	mg/L	0.016	EPA 200.7
Soluble Zinc	0.227 **	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/19/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-6

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.45	NTU	0.1	EPA 180.1
Ammonia	2.3	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	1.9	mg/L	0.1	EPA 351.3
Total Iron	2.24	mg/L	0.060	EPA 200.7
Soluble Iron	2.07	mg/L	0.060	EPA 200.7
Total Potassium	10	mg/L	1.8	EPA 200.7
Soluble Potassium	11 **	mg/L	1.8	EPA 200.7
Total Zinc	0.140	mg/L	0.016	EPA 200.7
Soluble Zinc	0.058	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	20	SW 846 8240
Bromomethane	ND	µg/L	20	SW 846 8240
Vinyl chloride	54.1 ✓	µg/L	20	SW 846 8240
Chloroethane	ND	µg/L	20	SW 846 8240
Methylene chloride	ND	µg/L	20	SW 846 8240
Acetone	ND	µg/L	20	SW 846 8240
Carbon disulfide	ND	µg/L	20	SW 846 8240
1,1-Dichloroethene	ND	µg/L	20	SW 846 8240
1,1-Dichloroethane	ND	µg/L	20	SW 846 8240
1,2-Dichloroethylene (total) 1,2-DCE	175.7 ✓	µg/L	20	SW 846 8240
Chloroform	ND	µg/L	20	SW 846 8240
1,2-Dichloroethane	ND	µg/L	20	SW 846 8240
2-Butanone	ND	µg/L	20	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	20	SW 846 8240
Carbon tetrachloride	ND	µg/L	20	SW 846 8240
Vinyl acetate	ND	µg/L	20	SW 846 8240
Bromodichloromethane	ND	µg/L	20	SW 846 8240

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/19/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-6

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2-Dichloropropane	ND	µg/L	20	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	20	SW 846 8240
Trichloroethene <i>7CE</i>	71.5	µg/L	20	SW 846 8240
Chlorodibromomethane	ND	µg/L	20	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	20	SW 846 8240
Benzene	ND	µg/L	20	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	20	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	20	SW 846 8240
Bromoform	ND	µg/L	20	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8240
2-Hexanone	ND	µg/L	20	SW 846 8240
Tetrachloroethene <i>1,1,2,2</i>	21.9	µg/L	20	SW 846 8240
Toluene	ND	µg/L	20	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	20	SW 846 8240
Chlorobenzene	ND	µg/L	20	SW 846 8240
Ethylbenzene	ND	µg/L	20	SW 846 8240
Styrene	ND	µg/L	20	SW 846 8240
m-Xylene	ND	µg/L	20	SW 846 8240
o/p-Xylene	ND	µg/L	20	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/19/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-6

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene <i>HCIButad</i>	33	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/19/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-6

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-5
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/18/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-7

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.4	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.87	mg/L	0.1	EPA 351.3
Total Iron	0.989	mg/L	0.060	EPA 200.7
Soluble Iron	1.05 **	mg/L	0.060	EPA 200.7
Total Potassium	2.3	mg/L	1.8	EPA 200.7
Soluble Potassium	2.0	mg/L	1.8	EPA 200.7
Total Zinc	0.070	mg/L	0.016	EPA 200.7
Soluble Zinc	0.074 **	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-8

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	9.7	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.28	mg/L	0.1	EPA 351.3
Total Iron	2.86	mg/L	0.060	EPA 200.7
Soluble Iron	1.94	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.8	EPA 200.7
Soluble Potassium	ND	mg/L	1.8	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	ND	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-8

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	ND	µg/L	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-8

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-8

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-9

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	10.5	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.50	mg/L	0.1	EPA 351.3
Total Iron	3.30	mg/L	0.060	EPA 200.7
Soluble Iron	1.99	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.8	EPA 200.7
Soluble Potassium	ND	mg/L	1.8	EPA 200.7
Total Zinc	0.050	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	ND	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-9

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	ND	µg/L	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-9

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-9

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-10

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.19	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.33	mg/L	0.1	EPA 351.3
Total Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.8	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	ND	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-10

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	ND	µg/L	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-10

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/98
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 8198-10

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/20/98
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 8198-11

PROJECT ID: 8198

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	179	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.86	mg/L	0.1	EPA 351.3
Total Iron	78.0	mg/L	0.060	EPA 200.7
Soluble Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	2.6	mg/L	1.8	EPA 200.7
Soluble Potassium	2.4	mg/L	1.8	EPA 200.7
Total Zinc	4.15	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 1

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.3	8198-6	Matrix Spike	112
Nitrite	HACH 8507	8198-6	Matrix Spike	99
Total Kjeldahl Nitrogen	EPA 351.3	8198-6	Matrix Spike	99
Total Iron	EPA 200.7	8198-6	Matrix Spike	96
Soluble Iron	EPA 200.7	8198-6	Matrix Spike	116
Total Potassium	EPA 200.7	8198-6	Matrix Spike	103
Soluble Potassium	EPA 200.7	8198-6	Matrix Spike	98
Total Zinc	EPA 200.7	8198-6	Matrix Spike	100
Soluble Zinc	EPA 200.7	8198-6	Matrix Spike	102
Chloromethane	SW 846 8240	8198-6	Matrix Spike	151
Bromomethane	SW 846 8240	8198-6	Matrix Spike	103
Vinyl chloride	SW 846 8240	8198-6	Matrix Spike	224
Chloroethane	SW 846 8240	8198-6	Matrix Spike	122
Methylene chloride	SW 846 8240	8198-6	Matrix Spike	110
Acetone	SW 846 8240	8198-6	Matrix Spike	114
Carbon disulfide	SW 846 8240	8198-6	Matrix Spike	109
1,1-Dichloroethene	SW 846 8240	8198-6	Matrix Spike	122
1,1-Dichloroethane	SW 846 8240	8198-6	Matrix Spike	128
1,2-Dichloroethylene (total)	SW 846 8240	8198-6	Matrix Spike	548
Chloroform	SW 846 8240	8198-6	Matrix Spike	108
1,2-Dichloroethane	SW 846 8240	8198-6	Matrix Spike	101
2-Butanone	SW 846 8240	8198-6	Matrix Spike	131
1,1,1-Trichloroethane	SW 846 8240	8198-6	Matrix Spike	92
Carbon tetrachloride	SW 846 8240	8198-6	Matrix Spike	85
Vinyl acetate	SW 846 8240	8198-6	Matrix Spike	135
Bromodichloromethane	SW 846 8240	8198-6	Matrix Spike	104
1,2-Dichloropropane	SW 846 8240	8198-6	Matrix Spike	140
cis-1,3-Dichloropropene	SW 846 8240	8198-6	Matrix Spike	122
Trichloroethene	SW 846 8240	8198-6	Matrix Spike	274

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Chlorodibromomethane	SW 846 8240	8198-6	Matrix Spike	90
1,1,2-Trichloroethane	SW 846 8240	8198-6	Matrix Spike	120
Benzene	SW 846 8240	8198-6	Matrix Spike	128
trans-1,3-Dichloropropene	SW 846 8240	8198-6	Matrix Spike	109
2-Chloroethyl vinyl ether	SW 846 8240	8198-6	Matrix Spike	53
Bromoform	SW 846 8240	8198-6	Matrix Spike	80
4-Methyl-2-pentanone	SW 846 8240	8198-6	Matrix Spike	126
2-Hexanone	SW 846 8240	8198-6	Matrix Spike	114
Tetrachloroethene	SW 846 8240	8198-6	Matrix Spike	134
Toluene	SW 846 8240	8198-6	Matrix Spike	118
1,1,2,2-Tetrachloroethane	SW 846 8240	8198-6	Matrix Spike	114
Chlorobenzene	SW 846 8240	8198-6	Matrix Spike	107
Ethylbenzene	SW 846 8240	8198-6	Matrix Spike	104
Styrene	SW 846 8240	8198-6	Matrix Spike	104
m-Xylene	SW 846 8240	8198-6	Matrix Spike	103
o/p-Xylene	SW 846 8240	8198-6	Matrix Spike	104
Aniline	SW 846 8270	8198-6	Matrix Spike	52
Benzoic acid	SW 846 8270	8198-6	Matrix Spike	46
Benzyl alcohol	SW 846 8270	8198-6	Matrix Spike	41
Phenol	SW 846 8270	8198-6	Matrix Spike	36
bis(2-chloroethyl)ether	SW 846 8270	8198-6	Matrix Spike	67
2-Chlorophenol	SW 846 8270	8198-6	Matrix Spike	77
1,3-Dichlorobenzene	SW 846 8270	8198-6	Matrix Spike	71
1,4-Dichlorobenzene	SW 846 8270	8198-6	Matrix Spike	78
1,2-Dichlorobenzene	SW 846 8270	8198-6	Matrix Spike	76
2-Methylphenol	SW 846 8270	8198-6	Matrix Spike	65
bis(2-chloroisopropyl)ether	SW 846 8270	8198-6	Matrix Spike	74
4-Methylphenol	SW 846 8270	8198-6	Matrix Spike	63
n-Nitrosodi-n-propylamine	SW 846 8270	8198-6	Matrix Spike	75

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Hexachloroethane	SW 846 8270	8198-6	Matrix Spike	76
Nitrobenzene	SW 846 8270	8198-6	Matrix Spike	76
Isophorone	SW 846 8270	8198-6	Matrix Spike	71
2-Nitrophenol	SW 846 8270	8198-6	Matrix Spike	88
2,4-Dimethylphenol	SW 846 8270	8198-6	Matrix Spike	65
bis(2-chloroethoxy)methane	SW 846 8270	8198-6	Matrix Spike	77
2,4-Dichlorophenol	SW 846 8270	8198-6	Matrix Spike	90
1,2,4-Trichlorobenzene	SW 846 8270	8198-6	Matrix Spike	93
Naphthalene	SW 846 8270	8198-6	Matrix Spike	77
Hexachlorobutadiene	SW 846 8270	8198-6	Matrix Spike	106
4-Chloro-3-methylphenol	SW 846 8270	8198-6	Matrix Spike	74
2-Methylnaphthalene	SW 846 8270	8198-6	Matrix Spike	83
Hexachlorocyclopentadiene	SW 846 8270	8198-6	Matrix Spike	114
2,4,6-Trichlorophenol	SW 846 8270	8198-6	Matrix Spike	89
2,4,5-Trichlorophenol	SW 846 8270	8198-6	Matrix Spike	98
2-Chloronaphthalene	SW 846 8270	8198-6	Matrix Spike	77
Dimethyl phthalate	SW 846 8270	8198-6	Matrix Spike	79
Acenaphthylene	SW 846 8270	8198-6	Matrix Spike	75
2,6-Dinitrotoluene	SW 846 8270	8198-6	Matrix Spike	79
Acenaphthene	SW 846 8270	8198-6	Matrix Spike	75
2,4-Dinitrophenol	SW 846 8270	8198-6	Matrix Spike	117
4-Nitrophenol	SW 846 8270	8198-6	Matrix Spike	47
Dibenzofuran	SW 846 8270	8198-6	Matrix Spike	80
2,4-Dinitrotoluene	SW 846 8270	8198-6	Matrix Spike	95
Diethyl phthalate	SW 846 8270	8198-6	Matrix Spike	70
4-Chlorophenyl phenyl ether	SW 846 8270	8198-6	Matrix Spike	92
Fluorene	SW 846 8270	8198-6	Matrix Spike	78
4,6-Dinitro-2-methylphenol	SW 846 8270	8198-6	Matrix Spike	94
n-Nitrosodiphenylamine	SW 846 8270	8198-6	Matrix Spike	80

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
4-Bromophenyl phenyl ether	SW 846 8270	8198-6	Matrix Spike	99
Hexachlorobenzene	SW 846 8270	8198-6	Matrix Spike	109
Pentachlorophenol	SW 846 8270	8198-6	Matrix Spike	107
Phenanthrene	SW 846 8270	8198-6	Matrix Spike	79
Anthracene	SW 846 8270	8198-6	Matrix Spike	80
Carbazole	SW 846 8270	8198-6	Matrix Spike	73
di-n-Butylphthalate	SW 846 8270	8198-6	Matrix Spike	77
Fluoranthene	SW 846 8270	8198-6	Matrix Spike	89
Pyrene	SW 846 8270	8198-6	Matrix Spike	67
Butyl benzyl phthalate	SW 846 8270	8198-6	Matrix Spike	61
3,3'-Dichlorobenzidine	SW 846 8270	8198-6	Matrix Spike	49
Benzo(a)anthracene	SW 846 8270	8198-6	Matrix Spike	74
Chrysene	SW 846 8270	8198-6	Matrix Spike	75
bis(2ethylhexyl)phthalate	SW 846 8270	8198-6	Matrix Spike	62
di-n-Octylphthalate	SW 846 8270	8198-6	Matrix Spike	62
Benzo(b)fluoranthene	SW 846 8270	8198-6	Matrix Spike	80
Benzo(k)fluoranthene	SW 846 8270	8198-6	Matrix Spike	79
Benzo(a)pyrene	SW 846 8270	8198-6	Matrix Spike	77
Indeno(1,2,3-cd)pyrene	SW 846 8270	8198-6	Matrix Spike	62
Dibenzo(a,h)anthracene	SW 846 8270	8198-6	Matrix Spike	64
Benzo(g,h,i)perylene	SW 846 8270	8198-6	Matrix Spike	52

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.3	8198-6	Duplicate	0.5
Nitrite	HACH 8507	8198-6	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.3	8198-6	Duplicate	1.0
Total Iron	EPA 200.7	8198-6	Duplicate	2.8
Soluble Iron	EPA 200.7	8198-6	Duplicate	2.6
Total Potassium	EPA 200.7	8198-6	Duplicate	4.4
Soluble Potassium	EPA 200.7	8198-6	Duplicate	6.4
Total Zinc	EPA 200.7	8198-6	Duplicate	0
Soluble Zinc	EPA 200.7	8198-6	Duplicate	3.3
Vinyl chloride	SW 846 8240	8198-6	Duplicate	7.0
1,2-Dichloroethylene (total)	SW 846 8240	8198-6	Duplicate	1.0
Trichloroethene	SW 846 8240	8198-6	Duplicate	3.5
1,1,2-Trichloroethane	SW 846 8240	8198-6	Duplicate	3.5
Tetrachloroethene	SW 846 8240	8198-6	Duplicate	1.5
Aniline	SW 846 8270	8198-6	Duplicate	NA
Benzoic acid	SW 846 8270	8198-6	Duplicate	NA
Benzyl alcohol	SW 846 8270	8198-6	Duplicate	NA
Phenol	SW 846 8270	8198-6	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	8198-6	Duplicate	NA
2-Chlorophenol	SW 846 8270	8198-6	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	8198-6	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	8198-6	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	8198-6	Duplicate	NA
2-Methylphenol	SW 846 8270	8198-6	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	8198-6	Duplicate	NA
4-Methylphenol	SW 846 8270	8198-6	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	8198-6	Duplicate	NA
Hexachloroethane	SW 846 8270	8198-6	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Nitrobenzene	SW 846 8270	8198-6	Duplicate	NA
Isophorone	SW 846 8270	8198-6	Duplicate	NA
2-Nitrophenol	SW 846 8270	8198-6	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	8198-6	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	8198-6	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	8198-6	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	8198-6	Duplicate	NA
Naphthalene	SW 846 8270	8198-6	Duplicate	NA
4-Chloroaniline	SW 846 8270	8198-6	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	8198-6	Duplicate	19
4-Chloro-3-methylphenol	SW 846 8270	8198-6	Duplicate	NA
2-Methylnaphthalene	SW 846 8270	8198-6	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	8198-6	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	8198-6	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	8198-6	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	8198-6	Duplicate	NA
2-Nitroaniline	SW 846 8270	8198-6	Duplicate	NA
Dimethyl phthalate	SW 846 8270	8198-6	Duplicate	NA
Acenaphthylene	SW 846 8270	8198-6	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	8198-6	Duplicate	NA
3-Nitroaniline	SW 846 8270	8198-6	Duplicate	NA
Acenaphthene	SW 846 8270	8198-6	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	8198-6	Duplicate	NA
4-Nitrophenol	SW 846 8270	8198-6	Duplicate	NA
Dibenzofuran	SW 846 8270	8198-6	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	8198-6	Duplicate	NA
Diethyl phthalate	SW 846 8270	8198-6	Duplicate	NA
4-Chlorophenyl phenyl ether	SW 846 8270	8198-6	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 8198

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Fluorene	SW 846 8270	8198-6	Duplicate	NA
4-Nitroaniline	SW 846 8270	8198-6	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	8198-6	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	8198-6	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	8198-6	Duplicate	NA
Hexachlorobenzene	SW 846 8270	8198-6	Duplicate	NA
Pentachlorophenol	SW 846 8270	8198-6	Duplicate	NA
Phenanthrene	SW 846 8270	8198-6	Duplicate	NA
Anthracene	SW 846 8270	8198-6	Duplicate	NA
Carbazole	SW 846 8270	8198-6	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	8198-6	Duplicate	NA
Fluoranthene	SW 846 8270	8198-6	Duplicate	NA
Pyrene	SW 846 8270	8198-6	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	8198-6	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	8198-6	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	8198-6	Duplicate	NA
Chrysene	SW 846 8270	8198-6	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	8198-6	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	8198-6	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	8198-6	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	8198-6	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	8198-6	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	8198-6	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	8198-6	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	8198-6	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

Project Identification

[illegible]

Please note Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

Project Identification

[illegible]

Please note Areas marked by a dash indicate that no sample preparation is required under the applied methodology

Project Identification UTC 8198

[illegible]

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology

Project Identification

[illegible]

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

ADVANCED
ENVIRONMENTAL SERVICES INC.

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

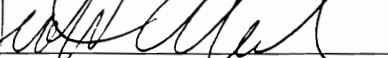
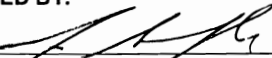
SAMPLER'S SIGNATURE: Walt Webb

JOB CODE: CTC

[illegible]

TOTAL NUMBER OF CONTAINERS 20

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 9/20/98	TIME 4 ¹⁰ PM	RECEIVED BY: 
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: UCAR CARBON

PROJECT NAME: _____

SAMPLER'S SIGNATURE: [Signature]

CONTAINER CLASSIFICATION									
UNPRESERVED									
	HNO ₃	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)	OTHER	TOTAL	

PROJECT I.D.#: 8198

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO ₃	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)	OTHER	TOTAL	PARAMETERS / REMARKS
2-19-98	2:20 PM	MW-1	X		GROUNDDWATER	1	2	1						4	TOTAL 9 SOLUBLE METALS
2	11:40 AM	BW-2	X		2	1	2	1						4	TRN, AMMONIA, NITRITE
	2:00 PM	BW-3	X		2	1								4	
2-19-98	3:00 PM	BW-4	X		GROUNDDWATER	6	6	3		6				21	TOTAL 9 SOLUBLE METALS TRN, AMMONIA, NITRITE TCLV, TCLSV

TOTAL NUMBER OF CONTAINERS 33

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: <u>[Signature]</u>	DATE 2-19-98	TIME 4:20 PM	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____

ADVANCED
ENVIRONMENTAL SERVICES, INC.

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

SAMPLER'S SIGNATURE: Scott Abel

JOB CODE: C/C

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: <u>Scott Abel</u>	DATE <u>2/18/98</u>	TIME <u>3:50 PM</u>	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: <u>[Signature]</u>
3. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____