32N03. GW40

UCAR CARBON COMPANY INC. P.O. BOX 887, NIAGARA FALLS, NEW YORK 14302

January 13, 1995

Mr. Peter J. Buechi, PE
Regional Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

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

Dear Mr. Buechi:

I am enclosing a copy of the twenty-seventh quarter's groundwater sampling analysis from the closed Republic Waste Management Facility. Bedrock well, BW-4-86, 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:

Contaminate	Conc. 27th Qtr. ppb.	Mean Conc. ppb.	Range ppb
1,2-Dichloroethene(Total)	200	200	200
Trichloroethene	170	305	30-740
Tetrachloroethene	110	259	72-440
Hexachlorobutadiene	53	52	10-160
Vinyl Chloride	58	94	29-300

UCAR Carbon Company Inc. continues to maintain the position that this contamination at well, BW-4-86 is not related to the closed Republic Waste Management Facility given the fact that

downgradient bedrock well, BW-6-86, 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
enc.

cc: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
P.O. Box 428
Niagara Falls, N.Y. 14302-0428

Mr. Dave O'Toole
New York Department of Environmental Conservation
50 Wolf Road
Albany, N.Y. 12233-4013

UCAR CARBON COMPANY, INCORPORATED

REPUBLIC WASTE MANAGEMENT FACILITY

POST CLOSURE MONITORING PROGRAM

QUARTERLY REPORT

FOURTH QUARTER 1994

Prepared By:

ADVANCED ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

January 6, 1995
REF: CTC43VB/100B

QA/QC VERIFICATION FOR PROJECT ID 43VB

The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherance 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.

Pinila A Patka

Inorganic Chemistry

Susan Sprocchi

Organic Chemistry

Field Services

W. Joseph McDougall

Quality Control

Bradley S. Matt for

Kristen Olson
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

Advanced Environmental Services, Inc.
2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - WELL INFORMATION

December 14, 1994 thru December 16, 1994

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC **Project I.D. # 43VB**

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	12/15/94	610.72	4	15.06	595.66	34.50	12.69	38.0	C
BW-2	12/15/94	608.43	4	12.69	595.74	35.00	14.56	40.0	C
BW-3	12/14/94	604.72	4	9.13	595.59	22.40	8.66	25.0	C
BW-4	12/14/94	607.08	4	9.21	597.87	25.00	10.31	31.0	C
BW-5	12/14/94	603.33	4	7.09	596.24	24.90	11.63	35.0	C
BW-6	12/15/94	607.04	4	14.20	592.84	32.90	12.21	37.0	C
MW-1	12/15/94	609.43	2	11.53	597.90	21.10	1.56	2.0 (Dry)	S
MW-2	12/15/94	607.54	2	9.24	598.30	24.60	2.51	8.0 (Dry)	VS
MW-3	12/14/94	601.61	2	3.77	597.84	15.25	1.87	6.0	R
OW-1 SOUTH	12/15/94	608.81	2	6.92	601.89	8.70	0.29	NR	N/A
OW-2 NORTH	12/15/94	607.06	2	6.32	600.74	9.74	0.56	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.

1-5-94

Field Technician Date

Advanced Environmental Services, Inc.
2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
December14, 1994 thru December 16, 1994

UCAR CARBON COMPANY, INC.
Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC **Project I.D. #43VB**

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	12/15/94	1:00 PM	15.47	95.0	3:55 PM	Cloudy brown to tan with a slight odor
BW-2	12/15/94	2:15 PM	13.02	120.0	3:50 PM	Turbid brown with a slight SO2 odor.
BW-3	12/14/94	11:50 AM	9.16	5.0	11:50 AM	Clear with a slight SO2 odor.
BW-4	12/14/94	11:45 AM	9.91	40.0	4:20 PM	Clear with black solids and a visible oil and grease sheen.
BW-5	12/14/94	2:05 PM	7.19	100.0	4:30 PM	Tanish brown.
BW-6	12/15/94	2:25 PM	17.68	280.0	3:45 PM	Very turbid tan.
MW-1	12/16/94	2:25 PM	12.01	20.0	3:15 PM	Clear.
MW-2	12/16/94	2:35 PM	17.44	25.0	3:20 PM	Slightly turbid yellow with a slight odor.
MW-3	12/14/94	2:15 PM	13.95	140.0	4:25 PM	Cloudy turbid tanish brown.
OW-1 South	12/15/94	1:35 PM	6.92	NA	NA	Required to take water elevation only.
OW-2 North	12/15/94	2:40 PM	6.32	NA	NA	Required to take water elevation only.
Blind Dup	12/15/94	2:25 PM	17.68	295.0	3:40 PM	Very turbid tan.
Trip Blank	12/14/94	9:50 AM	NA	1.6	NA	Deionized Water

The Blind Duplicate site is BW-6.

1-5-94
FIELD TECHNICIAN Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/16/94 - 1:00 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-1
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	20	NTU	0.1	EPA 180.1
Ammonia	1.2	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	<1 **	mg/L	0.1	EPA 351.2
Total Iron	5.7	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	39	mg/L	1.0	EPA 200.7
Soluble Potassium	42	mg/L	1.0	EPA 200.7
Total Zinc	0.04	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7

* Analysis performed in the field.
** High limit due to sample matrix; dilution was required.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 2:15 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-2
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	140	NTU	0.1	EPA 180.1
Ammonia	0.12	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	<0.2 **	mg/L	0.1	EPA 351.2
Total Iron	9.4	mg/L	0.05	EPA 200.7
Soluble Iron	1.3	mg/L	0.05	EPA 200.7
Total Potassium	3.2	mg/L	1.0	EPA 200.7
Soluble Potassium	1.0	mg/L	1.0	EPA 200.7
Total Zinc	0.04	mg/L	0.02	EPA 200.7
Soluble Zinc	0.06	mg/L	0.02	EPA 200.7

* Analysis performed in the field.
** High limit due to sample matrix; dilution was required.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 1:00 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-3
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	95	NTU	0.1	EPA 180.1
Ammonia	0.22	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.46	mg/L	0.1	EPA 351.2
Total Iron	10	mg/L	0.05	EPA 200.7
Soluble Iron	0.72	mg/L	0.05	EPA 200.7
Total Potassium	3.9	mg/L	1.0	EPA 200.7
Soluble Potassium	3.5	mg/L	1.0	EPA 200.7
Total Zinc	20	mg/L	0.02	EPA 200.7
Soluble Zinc	0.71	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:15 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-4
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	120	NTU	0.1	EPA 180.1
Ammonia	0.95	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	1.2	mg/L	0.1	EPA 351.2
Total Iron	13.6	mg/L	0.05	EPA 200.7
Soluble Iron	4.2	mg/L	0.05	EPA 200.7
Total Potassium	7.0	mg/L	1.0	EPA 200.7
Soluble Potassium	6.0	mg/L	1.0	EPA 200.7
Total Zinc	8.8	mg/L	0.02	EPA 200.7
Soluble Zinc	0.16	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 11:50 AM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-5
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5	NTU	0.1	EPA 180.1
Ammonia	0.87	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	1.1	mg/L	0.1	EPA 351.2
Total Iron	1.4	mg/L	0.05	EPA 200.7
Soluble Iron	2.1	mg/L	0.05	EPA 200.7
Total Potassium	5.6	mg/L	1.0	EPA 200.7
Soluble Potassium	4.7	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 11:45 AM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-6

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	40	NTU	0.1	EPA 180.1
Ammonia	3.1	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	3.2	mg/L	0.1	EPA 351.2
Total Iron	5.0	mg/L	0.05	EPA 200.7
Soluble Iron	2.9	mg/L	0.05	EPA 200.7
Total Potassium	13	mg/L	1.0	EPA 200.7
Soluble Potassium	12	mg/L	1.0	EPA 200.7
Total Zinc	2.9	mg/L	0.02	EPA 200.7
Soluble Zinc	0.17	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	58	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethene (total)	200	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 11:45 AM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-6

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	170	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	110	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 11:45 AM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-6

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	53	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 11:45 AM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-6

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-5
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 2:05 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-7
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	100	NTU	0.1	EPA 180.1
Ammonia	0.19	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.3	mg/L	0.1	EPA 351.2
Total Iron	8.9	mg/L	0.05	EPA 200.7
Soluble Iron	2.1	mg/L	0.05	EPA 200.7
Total Potassium	3.6	mg/L	1.0	EPA 200.7
Soluble Potassium	2.4	mg/L	1.0	EPA 200.7
Total Zinc	9.5	mg/L	0.02	EPA 200.7
Soluble Zinc	0.28	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-8
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	280	NTU	0.1	EPA 180.1
Ammonia	0.22	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	<0.2 **	mg/L	0.1	EPA 351.2
Total Iron	191	mg/L	0.05	EPA 200.7
Soluble Iron	3.8	mg/L	0.05	EPA 200.7
Total Potassium	12	mg/L	1.0	EPA 200.7
Soluble Potassium	2.0	mg/L	1.0	EPA 200.7
Total Zinc	0.31	mg/L	0.02	EPA 200.7
Soluble Zinc	0.19	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethene (total)	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.
** High limit due to sample matrix; dilution was required.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-8
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-8

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-8
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-9

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	295	NTU	0.1	EPA 180.1
Ammonia	0.24	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.2	mg/L	0.1	EPA 351.2
Total Iron	166	mg/L	0.05	EPA 200.7
Soluble Iron	4.0	mg/L	0.05	EPA 200.7
Total Potassium	11	mg/L	1.0	EPA 200.7
Soluble Potassium	3.0	mg/L	1.0	EPA 200.7
Total Zinc	0.30	mg/L	0.02	EPA 200.7
Soluble Zinc	0.68	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethene (total)	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	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): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-9
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-9

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/15/94 - 2:25 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-9
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: TRIP BLANK
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 9:50 AM
SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-10

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.6	NTU	0.1	EPA 180.1
Ammonia	BQL	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	BQL	mg/L	0.1	EPA 351.2
Total Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethene (total)	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240
Benzene	BQL	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): 12/14/94 - 9:50 AM
SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-10
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: TRIP BLANK
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 9:50 AM
SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-10

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: TRIP BLANK
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/14/94 - 9:50 AM
SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-10

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 12/16/94 - 2:35 PM
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 43VB-11
PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	25	NTU	0.1	EPA 180.1
Ammonia	0.25	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.29	mg/L	0.1	EPA 351.2
Total Iron	3.5	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	2.4	mg/L	1.0	EPA 200.7
Soluble Potassium	1.9	mg/L	1.0	EPA 200.7
Total Zinc	0.03	mg/L	0.02	EPA 200.7
Soluble Zinc	0.03	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE:

AES CLIENT ID: CTC

PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Ammonia	BQL	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	BQL	mg/L	0.1	EPA 351.2
Total Iron	BQL	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Soluble Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethene (total)	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240

CLIENT: Ucar Carbon Company, Incorporated AES CLIENT ID: CTC
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE: PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated AES CLIENT ID: CTC
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE: PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated AES CLIENT ID: CTC
SAMPLE ID: METHOD BLANK
COLLECTION METHOD:
COLLECTION DATE(S):
SAMPLE TYPE: PROJECT ID: 43VB

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 43VB

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.1	43VB-6	Matrix Spike	104
Ammonia	EPA 350.1	---	Independent Standard	102
Nitrite	EPA 353.2	43VB-6	Matrix Spike	96
Nitrite	EPA 353.2	---	Independent Standard	98
Total Kjeldahl Nitrogen	EPA 351.2	43VB-6	Matrix Spike	100
Total Kjeldahl Nitrogen	EPA 351.2	---	Independent Standard	102
Total Iron	EPA 200.7	43VB-6	Matrix Spike	111
Total Iron	EPA 200.7	---	Independent Standard	98
Soluble Iron	EPA 200.7	43VB-6	Matrix Spike	98
Soluble Iron	EPA 200.7	---	Independent Standard	91
Total Potassium	EPA 200.7	43VB-6	Matrix Spike	96
Total Potassium	EPA 200.7	---	Independent Standard	100
Soluble Potassium	EPA 200.7	43VB-6	Matrix Spike	100
Soluble Potassium	EPA 200.7	---	Independent Standard	93
Total Zinc	EPA 200.7	43VB-6	Matrix Spike	84
Total Zinc	EPA 200.7	---	Independent Standard	97
Soluble Zinc	EPA 200.7	43VB-6	Matrix Spike	97
Soluble Zinc	EPA 200.7	---	Independent Standard	90
1,1-Dichloroethene	SW 846 8240	43VB-6	Matrix Spike	108
1,1-Dichloroethene	SW 846 8240	---	Independent Standard	100
Trichloroethene	SW 846 8240	43VB-6	Matrix Spike	60
Trichloroethene	SW 846 8240	---	Independent Standard	90
Benzene	SW 846 8240	43VB-6	Matrix Spike	92
Benzene	SW 846 8240	---	Independent Standard	90
Toluene	SW 846 8240	43VB-6	Matrix Spike	90
Toluene	SW 846 8240	---	Independent Standard	92
Chlorobenzene	SW 846 8240	43VB-6	Matrix Spike	96
Chlorobenzene	SW 846 8240	---	Independent Standard	98
1,4-Dichlorobenzene	SW 846 8270	43VB-6	Matrix Spike	49

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 43VB

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
1,4-Dichlorobenzene	SW 846 8270	---	Independent Standard	58
n-Nitrosodi-n-propylamine	SW 846 8270	43VB-6	Matrix Spike	69
n-Nitrosodi-n-propylamine	SW 846 8270	---	Independent Standard	87
1,2,4-Trichlorobenzene	SW 846 8270	43VB-6	Matrix Spike	51
1,2,4-Trichlorobenzene	SW 846 8270	---	Independent Standard	61
Acenaphthene	SW 846 8270	43VB-6	Matrix Spike	56
Acenaphthene	SW 846 8270	---	Independent Standard	64
2,4-Dinitrotoluene	SW 846 8270	43VB-6	Matrix Spike	57
2,4-Dinitrotoluene	SW 846 8270	---	Independent Standard	70
Hexachlorobenzene	SW 846 8270	43VB-6	Matrix Spike	61
Hexachlorobenzene	SW 846 8270	---	Independent Standard	71
Pyrene	SW 846 8270	43VB-6	Matrix Spike	55
Pyrene	SW 846 8270	---	Independent Standard	66
Phenol	SW 846 8270	43VB-6	Matrix Spike	38
Phenol	SW 846 8270	---	Independent Standard	50
2-Chlorophenol	SW 846 8270	43VB-6	Matrix Spike	74
2-Chlorophenol	SW 846 8270	---	Independent Standard	75
4-Chloro-3-methylphenol	SW 846 8270	43VB-6	Matrix Spike	79
4-Chloro-3-methylphenol	SW 846 8270	---	Independent Standard	85
4-Nitrophenol	SW 846 8270	43VB-6	Matrix Spike	38
4-Nitrophenol	SW 846 8270	---	Independent Standard	51
Pentachlorophenol	SW 846 8270	43VB-6	Matrix Spike	61
Pentachlorophenol	SW 846 8270	---	Independent Standard	91

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 43VB

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.1	43VB-6	Duplicate	0
Nitrite	EPA 353.2	43VB-6	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.2	43VB-6	Duplicate	6.4
Total Iron	EPA 200.7	43VB-6	Duplicate	0.19
Soluble Iron	EPA 200.7	43VB-6	Duplicate	7.1
Total Potassium	EPA 200.7	43VB-6	Duplicate	7.8
Soluble Potassium	EPA 200.7	43VB-6	Duplicate	2.9
Total Zinc	EPA 200.7	43VB-6	Duplicate	0
Soluble Zinc	EPA 200.7	43VB-6	Duplicate	0
Vinyl chloride	SW 846 8240	43VB-6	Duplicate	7.0
1,2-Dichloroethene (total)	SW 846 8240	43VB-6	Duplicate	2.0
Trichloroethene	SW 846 8240	43VB-6	Duplicate	4.0
Tetrachloroethene	SW 846 8240	43VB-6	Duplicate	6.0
bis(2-chloroethyl)ether	SW 846 8270	43VB-6	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	43VB-6	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	43VB-6	Duplicate	NA
Benzyl alcohol	SW 846 8270	43VB-6	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	43VB-6	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	43VB-6	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	43VB-6	Duplicate	NA
Hexachloroethane	SW 846 8270	43VB-6	Duplicate	NA
Nitrobenzene	SW 846 8270	43VB-6	Duplicate	NA
Isophorone	SW 846 8270	43VB-6	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	43VB-6	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	43VB-6	Duplicate	NA
Naphthalene	SW 846 8270	43VB-6	Duplicate	NA
4-Chloroaniline	SW 846 8270	43VB-6	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	43VB-6	Duplicate	31

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

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 43VB

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
2-Methylnaphthalene	SW 846 8270	43VB-6	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	43VB-6	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	43VB-6	Duplicate	NA
2-Nitroaniline	SW 846 8270	43VB-6	Duplicate	NA
Dimethyl phthalate	SW 846 8270	43VB-6	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	43VB-6	Duplicate	NA
Acenaphthylene	SW 846 8270	43VB-6	Duplicate	NA
3-Nitroaniline	SW 846 8270	43VB-6	Duplicate	NA
Acenaphthene	SW 846 8270	43VB-6	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	43VB-6	Duplicate	NA
Dibenzofuran	SW 846 8270	43VB-6	Duplicate	NA
Diethyl phthalate	SW 846 8270	43VB-6	Duplicate	NA
4-Chlorophenyl phenyl ether	SW 846 8270	43VB-6	Duplicate	NA
Fluorene	SW 846 8270	43VB-6	Duplicate	NA
4-Nitroaniline	SW 846 8270	43VB-6	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	43VB-6	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	43VB-6	Duplicate	NA
Hexachlorobenzene	SW 846 8270	43VB-6	Duplicate	NA
Phenanthrene	SW 846 8270	43VB-6	Duplicate	NA
Anthracene	SW 846 8270	43VB-6	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	43VB-6	Duplicate	NA
Fluoranthene	SW 846 8270	43VB-6	Duplicate	NA
Pyrene	SW 846 8270	43VB-6	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	43VB-6	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	43VB-6	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	43VB-6	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	43VB-6	Duplicate	NA
Chrysene	SW 846 8270	43VB-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: 43VB

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
di-n-Octylphthalate	SW 846 8270	43VB-6	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	43VB-6	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	43VB-6	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	43VB-6	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	43VB-6	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	43VB-6	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	43VB-6	Duplicate	NA
Phenol	SW 846 8270	43VB-6	Duplicate	NA
2-Chlorophenol	SW 846 8270	43VB-6	Duplicate	NA
2-Methylphenol	SW 846 8270	43VB-6	Duplicate	NA
4-Methylphenol	SW 846 8270	43VB-6	Duplicate	NA
2-Nitrophenol	SW 846 8270	43VB-6	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	43VB-6	Duplicate	NA
Benzoic acid	SW 846 8270	43VB-6	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	43VB-6	Duplicate	NA
4-Chloro-3-methylphenol	SW 846 8270	43VB-6	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	43VB-6	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	43VB-6	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	43VB-6	Duplicate	NA
4-Nitrophenol	SW 846 8270	43VB-6	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	43VB-6	Duplicate	NA
Pentachlorophenol	SW 846 8270	43VB-6	Duplicate	NA

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

Advanced Environmental Services

AES Job Code CTC

Sample Traceability Report

AES Job No. 436B

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
436B 1-11	12-14	1010	205	9.3	12-20	C.S	200.7	12-21	HR
		1400	24	—	—	—	200.7	12-27	M.S.

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 43VB

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
43VB-6	12-14-94	4000	99	—	—	—	8240	12-20-94	MM
43VB-8	12-15-94	"	"	—	—	—	"	"	"
43VB-9	12-15-94	"	"	—	—	—	"	"	"
43VB-10	12-14-94	"	"	—	—	—	"	"	"

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

AES Job Code CTC

Sample Traceability Report

AES Job No. 43VB

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
43VB-06	12/14/94	4300	125	8270	12/20/94	CWS/MF	8270	1/4/95	SCS
" -10	"	"	"	"	"	"	"	"	"
" -08	"	"	"	"	"	"	"	"	"
43VB-09	12/14/94	4300	125	8270	12/20/94	CWS/MF	"	"	"

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 43VB

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
43VB-(2,5-7,10)	12/14-15/94	2027	70	351.2	12-19-94	CW	351.2	12/20/94	TS
43VB(1-11)	12/14-15/94	2005	63	—	—	—	350.1	12/19/94	TS
43VB-(3,4,11)	12/14-15/94	2027	71	351.2	12/27/94	CW	351.2	12/28/94	TS
43VB(1-6)	12/14-15/94	2122	41	—	—	—	353.2	12/21/94	TS
43VB(7-11)	12/14-15/94	2122	45	—	—	—	353.2	1-4-95	TS
43VB-10	12-15-94	2027	71	351.2	1-4-95	CW	351.2	1-5-95	TS

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304
(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR CARBON

SAMPLER'S SIGNATURE: [signature] / [signature]

PROJECT I.D. #: 43VB

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
12/15/94	2:25 pm	BW-6	✓		Ground H_2O	2	2	1				2	7	Metals, Sol. Metals*, N/ITE, TKN
"	" pm	Blind Duplicate	✓		" "	2	2	1				2	7	AMMO, TCLSV, Turb.*, TCLV
12/15/94	1:00 pm	BW-1	✓		Ground H_2O		2	1					3	Metals, Sol. Metals*, N/ITE,
"	2:15 pm	BW-2	✓		" "		2	1					3	TKN, AMMO, Turb.*

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.

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: [signature]	12-15-94	4:20 pm	Marilyn Ozimiw [signature]
2. RELINQUISHED BY:			
3. RELINQUISHED BY:			

CHAIN OF CUSTODY RECORD

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304
(716) 283-3120
(800) 791-3120
FAX (716) 283-4727

PROJECT NAME: UCAR CARBON

PROJECT I.D. #: 43V13

SAMPLER'S SIGNATURE: [signature]

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
12-16-94	2:25pm	MW-1	✓		GROUND WATER		2	1					3	METALS, SOL. METALS*, NITE,
12-16-94	2:35pm	MW-2	✓		" "		2	1					3	TKN, AMMO, TURB.*

TOTAL NUMBER OF CONTAINERS: 6

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

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: [signature]	12/16/94	3:30pm	Marilyn Dyppino
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY: