UCAR

UCAR CARBON COMPANY INC.

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

April 4, 1996

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

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 thirty second (32) 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 thirty second (32) quarter.

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

32ND QUARTER

POSITIVE ORGANIC PARAMETERS FROM BW-4

CONTAMINATE	32nd Quarter ppb	Mean Conc. ppb	Range ppb
Trans-1,2-Dichlorethene (Total)	320	260	200 - 320
Trichloroethene	150	290	30 - 740
Tetrachloroethene	90	242	72 - 440
Hexachlorobutadiene	34	50	10 - 160
Vinyl Chloride	90	94	29 - 300

CC: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
P.O. Box 428
Niagara Falls, New York 14302-0428

APR 03 1996

UCAR CARBON COMPANY, INCORPORATED

REPUBLIC WASTE MANAGEMENT FACILITY

POST CLOSURE MONITORING PROGRAM

FIRST QUARTER, 1996

Prepared By:

ADVANCED ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

March 29, 1996
REF: CTC619T/100B

QA/QC VERIFICATION FOR PROJECT ID 619T

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.

Frank J Sawant

Metals Department

Linda A Ratka

Inorganic Chemistry

Susan Israel

Organic Chemistry

Field Services

W J McDougall

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

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

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
February 28, 1996 thru March 1, 1996

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC **Project I.D. # 619T**

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	2/29/96	3:20 PM	14.45	16	4:30 PM	Clear with an SO2 odor
BW-2	3/1/96	11:15 PM	11.77	22	12:50 PM	light Tint, Strong odor
BW-3	2/29/96	3:00 PM	6.56	5	4:15 PM	Clear.
BW-4	2/29/96	2:20 PM	7.60	7	4:20 PM	Clear
BW-5	2/28/96	3:25 PM	4.82	775	4:05 PM	Clear
BW-6	3/1/96	11.00 AM	17.95	30	1.00 PM	Clear, Strong odor
MW-1	3/1/96	10:35 AM	10.81	28	12:30 PM	Clear
MW-2**	3/1/96	10:15 AM	24.20	478	12:15 PM	Cloudy black
MW-3	2/28/96	2:35 PM	11.97	775	4:10 PM	Turbid Orange brown
OW-1 South	3/1/96	10:45 AM	5.40	NA	NA	Required to take water elevation only.
OW-2 North	3/1/96	10:40 AM	5.43	NA	NA	Required to take water elevation only.
Blind Dup	3/1/96	11:00 AM	N/A	28	12:42 PM	Clear, Strong odor
Trip Blank	11/29/95	1:25 PM	NA	2	NA	Deionized Water

** Insufficient volume and recharge rate to collect for Ammonia, TKN, Nitrate and Soluble Metals.
Sufficient volume did exist to collect Total Metals & Turbidity.
The Blind Duplicate site is BW-6.

Field Technician 3-18-96 Date

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

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
February 28, 1996 thru March 1, 1996

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC **Project I.D. # 619T**

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	2/29/96	610.72	4	14.39	596.33	28.85	9.44	29.0	C
BW-2	2/29/96	608.43	4	11.62	596.81	26.60	9.78	37.0	C
BW-3	2/29/96	604.72	4	6.52	598.20	22.91	10.70	33.0	C
BW-4	2/29/96	607.08	4	7.46	599.62	22.69	9.94	30.0	C
BW-5	2/28/96	603.33	4	4.70	598.63	28.80	15.73	48.0	C
BW-6	2/29/96	607.04	4	13.04	594.00	25.15	7.91	35.0	C
MW-1	2/29/96	609.43	2	10.64	598.79	23.40	2.08	2.10 (Dry)	S
MW-2	2/29/96	607.54	2	23.24	584.30	24.61	0.22	0.65 (Dry)	VS
MW-3	2/28/96	601.61	2	4.02	597.59	16.11	1.97	6.0	R
OW-1 SOUTH	3/1/96	608.81	2	5.40	608.81	36.05	5.00	NR	N/A
OW-2 NORTH	3/1/96	607.06	2	5.43	607.06	35.90	4.97	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 Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 10:35
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-1

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	28	NTU	0.1	EPA 180.1
Ammonia	5.9	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	13	mg/L	0.4	EPA 351.2
Total Iron	3.9	mg/L	0.05	EPA 200.7
Soluble Iron	0.13	mg/L	0.05	EPA 200.7
Total Potassium	37	mg/L	1.0	EPA 200.7
Soluble Potassium	38 **	mg/L	1.0	EPA 200.7
Total Zinc	0.04	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.02	EPA 200.7

* Analysis performed in the field.
** The soluble result is higher than the total result, but within 20% relative difference.
The difference is insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/28/96 - 2:35
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-2
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	775	NTU	0.1	EPA 180.1
Ammonia	0.12	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	1.2	mg/L	0.4	EPA 351.2
Total Iron	4.7	mg/L	0.05	EPA 200.7
Soluble Iron	0.86	mg/L	0.05	EPA 200.7
Total Potassium	1.4	mg/L	1.0	EPA 200.7
Soluble Potassium	ND	mg/L	1.0	EPA 200.7
Total Zinc	0.06	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 3:20
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-3
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	16	NTU	0.1	EPA 180.1
Ammonia	0.47	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	1.5	mg/L	0.4	EPA 351.2
Total Iron	1.1	mg/L	0.05	EPA 200.7
Soluble Iron	0.97	mg/L	0.05	EPA 200.7
Total Potassium	2.5	mg/L	1.0	EPA 200.7
Soluble Potassium	3.3	mg/L	1.0	EPA 200.7
Total Zinc	0.13	mg/L	0.02	EPA 200.7
Soluble Zinc	0.23	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): 03/01/96 - 11:15
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-4
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	22	NTU	0.1	EPA 180.1
Ammonia	1.1	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	2.8	mg/L	0.4	EPA 351.2
Total Iron	2.2	mg/L	0.05	EPA 200.7
Soluble Iron	2.1	mg/L	0.05	EPA 200.7
Total Potassium	6.8	mg/L	1.0	EPA 200.7
Soluble Potassium	7.8 **	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.
** The soluble result is higher than the total result, but within 20% relative difference.
The difference is insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 3:00
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-5
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5	NTU	0.1	EPA 180.1
Ammonia	0.12	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	ND	mg/L	0.4	EPA 351.2
Total Iron	0.39	mg/L	0.05	EPA 200.7
Soluble Iron	0.29	mg/L	0.05	EPA 200.7
Total Potassium	1.9	mg/L	1.0	EPA 200.7
Soluble Potassium	2.0 **	mg/L	1.0	EPA 200.7
Total Zinc	0.15	mg/L	0.02	EPA 200.7
Soluble Zinc	0.25	mg/L	0.02	EPA 200.7

* Analysis performed in the field.
** The soluble result is higher than the total result, but within 20% relative difference. The difference is insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 2:20
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-6

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	7	NTU	0.1	EPA 180.1
Ammonia	3.1	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	2.9	mg/L	0.4	EPA 351.2
Total Iron	1.8	mg/L	0.05	EPA 200.7
Soluble Iron	1.9 **	mg/L	0.05	EPA 200.7
Total Potassium	11	mg/L	1.0	EPA 200.7
Soluble Potassium	11	mg/L	1.0	EPA 200.7
Total Zinc	0.06	mg/L	0.02	EPA 200.7
Soluble Zinc	0.07 **	mg/L	0.02	EPA 200.7
Chloromethane	ND	µg/L	50 ***	SW 846 8240
Bromomethane	ND	µg/L	50	SW 846 8240
Vinyl chloride	90	µg/L	50	SW 846 8240
Chloroethane	ND	µg/L	50	SW 846 8240
Methylene chloride	ND	µg/L	50	SW 846 8240
Acetone	ND	µg/L	50	SW 846 8240
Carbon disulfide	ND	µg/L	50	SW 846 8240
1,1-Dichloroethene	ND	µg/L	50	SW 846 8240
1,1-Dichloroethane	ND	µg/L	50	SW 846 8240
1,2-Dichloroethylene (total)	320	µg/L	50	SW 846 8240
Chloroform	ND	µg/L	50	SW 846 8240
1,2-Dichloroethane	ND	µg/L	50	SW 846 8240
2-Butanone	ND	µg/L	50	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	50	SW 846 8240
Carbon tetrachloride	ND	µg/L	50	SW 846 8240
Bromodichloromethane	ND	µg/L	50	SW 846 8240
1,2-Dichloropropane	ND	µg/L	50	SW 846 8240

* Analysis performed in the field.
** The soluble result is higher than the total result, but within 20% relative difference.
The difference is insignificant.
*** High limit due to sample matrix; dilution was required for all 8240 compounds.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 2:20
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-6

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	ND	µg/L	50	SW 846 8240
Trichloroethene	150	µg/L	50	SW 846 8240
Chlorodibromomethane	ND	µg/L	50	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	50	SW 846 8240
Benzene	ND	µg/L	50	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	50	SW 846 8240
Bromoform	ND	µg/L	50	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	50	SW 846 8240
2-Hexanone	ND	µg/L	50	SW 846 8240
Tetrachloroethene	90	µg/L	50	SW 846 8240
Toluene	ND	µg/L	50	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	50	SW 846 8240
Chlorobenzene	ND	µg/L	50	SW 846 8240
Ethylbenzene	ND	µg/L	50	SW 846 8240
Styrene	ND	µg/L	50	SW 846 8240
m-Xylene	ND	µg/L	50	SW 846 8240
o/p-Xylene	ND	µg/L	50	SW 846 8240
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
Nitrobenzene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 2:20
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-6
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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	34	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
4-Nitroaniline	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-4
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/29/96 - 2:20
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-6
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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	10	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): 02/28/96 - 3:25
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-7
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	775	NTU	0.1	EPA 180.1
Ammonia	0.11	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.70	mg/L	0.4	EPA 351.2
Total Iron	1.3	mg/L	0.05	EPA 200.7
Soluble Iron	1.0	mg/L	0.05	EPA 200.7
Total Potassium	2.6	mg/L	1.0	EPA 200.7
Soluble Potassium	1.0	mg/L	1.0	EPA 200.7
Total Zinc	0.06	mg/L	0.02	EPA 200.7
Soluble Zinc	0.10	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): 03/01/96 - 11:00
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-8

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	30	NTU	0.1	EPA 180.1
Ammonia	0.13	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	ND	mg/L	0.4	EPA 351.2
Total Iron	3.0	mg/L	0.05	EPA 200.7
Soluble Iron	2.4	mg/L	0.05	EPA 200.7
Total Potassium	ND	mg/L	1.0	EPA 200.7
Soluble Potassium	1.2	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	mg/L	0.02	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
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

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 11:00
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-8

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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
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
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
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 11:00
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-8

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-6
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 11:00
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-8
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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	10	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): 03/01/96
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-9
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	28	NTU	0.1	EPA 180.1
Ammonia	0.14	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.46	mg/L	0.4	EPA 351.2
Total Iron	3.2	mg/L	0.05	EPA 200.7
Soluble Iron	2.4	mg/L	0.05	EPA 200.7
Total Potassium	ND	mg/L	1.0	EPA 200.7
Soluble Potassium	1.1	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	mg/L	0.02	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
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

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-9
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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
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
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
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-9
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BLIND DUPLICATE
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-9

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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	10	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): 03/01/96 - 9:00
SAMPLE TYPE: DI WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-10
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	2	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.05	EPA 350.1
Nitrite	ND	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	ND	mg/L	0.4	EPA 351.2
Total Iron	ND	mg/L	0.05	EPA 200.7
Total Potassium	ND	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	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	17	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
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
1,1,2-Trichloroethane	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): 03/01/96 - 9:00
SAMPLE TYPE: DI WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-10
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	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
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
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

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: TRIP BLANK
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 9:00
SAMPLE TYPE: DI WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-10

PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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
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

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: TRIP BLANK
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 03/01/96 - 9:00
SAMPLE TYPE: DI WATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-10
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
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	10	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): 03/01/96 - 10:15
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 619T-11
PROJECT ID: 619T

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	478	NTU	0.1	EPA 180.1
Total Iron	130	mg/L	0.05	EPA 200.7
Total Potassium	2.9	mg/L	1.0	EPA 200.7
Total Zinc	12	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 619T

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.1	619T-6	Matrix Spike	115
Nitrite	EPA 353.2	619T-6	Matrix Spike	113
Total Kjeldahl Nitrogen	EPA 351.2	619T-6	Matrix Spike	90
Total Iron	EPA 200.7	619T-6	Matrix Spike	88
Soluble Iron	EPA 200.7	619T-6	Matrix Spike	101
Total Potassium	EPA 200.7	619T-6	Matrix Spike	91
Soluble Potassium	EPA 200.7	619T-6	Matrix Spike	102
Total Zinc	EPA 200.7	619T-6	Matrix Spike	83
Soluble Zinc	EPA 200.7	619T-6	Matrix Spike	101
1,2-Dichloroethylene (total)	SW 846 8240	619T-6	Matrix Spike	118
Chloroform	SW 846 8240	619T-6	Matrix Spike	114
Bromodichloromethane	SW 846 8240	619T-6	Matrix Spike	90
Trichloroethene	SW 846 8240	619T-6	Matrix Spike	92
Chlorodibromomethane	SW 846 8240	619T-6	Matrix Spike	88
Benzene	SW 846 8240	619T-6	Matrix Spike	112
Bromoform	SW 846 8240	619T-6	Matrix Spike	68
Tetrachloroethene	SW 846 8240	619T-6	Matrix Spike	82
Toluene	SW 846 8240	619T-6	Matrix Spike	100
1,1,2,2-Tetrachloroethane	SW 846 8240	619T-6	Matrix Spike	90
Chlorobenzene	SW 846 8240	619T-6	Matrix Spike	106
Ethylbenzene	SW 846 8240	619T-6	Matrix Spike	100
Phenol	SW 846 8270	619T-6	Matrix Spike	40
2-Chlorophenol	SW 846 8270	619T-6	Matrix Spike	82
1,4-Dichlorobenzene	SW 846 8270	619T-6	Matrix Spike	55
n-Nitrosodi-n-propylamine	SW 846 8270	619T-6	Matrix Spike	107
1,2,4-Trichlorobenzene	SW 846 8270	619T-6	Matrix Spike	60
4-Chloro-3-methylphenol	SW 846 8270	619T-6	Matrix Spike	88
Acenaphthene	SW 846 8270	619T-6	Matrix Spike	85
4-Nitrophenol	SW 846 8270	619T-6	Matrix Spike	54

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 619T

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
2,4-Dinitrotoluene	SW 846 8270	619T-6	Matrix Spike	93
Pentachlorophenol	SW 846 8270	619T-6	Matrix Spike	101
Pyrene	SW 846 8270	619T-6	Matrix Spike	91

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 619T

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.1	619T-6	Duplicate	25
Nitrite	EPA 353.2	619T-6	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.2	619T-6	Duplicate	13
Total Iron	EPA 200.7	619T-6	Duplicate	5.3
Soluble Iron	EPA 200.7	619T-6	Duplicate	0
Total Potassium	EPA 200.7	619T-6	Duplicate	9.5
Soluble Potassium	EPA 200.7	619T-6	Duplicate	0
Total Zinc	EPA 200.7	619T-6	Duplicate	NA
Soluble Zinc	EPA 200.7	619T-6	Duplicate	4.3
Vinyl chloride	SW 846 8240	619T-6	Duplicate	5.2
1,2-Dichloroethylene (total)	SW 846 8240	619T-6	Duplicate	6.0
Trichloroethene	SW 846 8240	619T-6	Duplicate	0.0
Tetrachloroethene	SW 846 8240	619T-6	Duplicate	0.0
Phenol	SW 846 8270	619T-6	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	619T-6	Duplicate	NA
2-Chlorophenol	SW 846 8270	619T-6	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	619T-6	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	619T-6	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	619T-6	Duplicate	NA
2-Methylphenol	SW 846 8270	619T-6	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	619T-6	Duplicate	NA
4-Methylphenol	SW 846 8270	619T-6	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	619T-6	Duplicate	NA
Hexachloroethane	SW 846 8270	619T-6	Duplicate	NA
Nitrobenzene	SW 846 8270	619T-6	Duplicate	NA
Isophorone	SW 846 8270	619T-6	Duplicate	NA
2-Nitrophenol	SW 846 8270	619T-6	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	619T-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: 619T

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
bis(2-chloroethoxy)methane	SW 846 8270	619T-6	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	619T-6	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	619T-6	Duplicate	NA
Naphthalene	SW 846 8270	619T-6	Duplicate	NA
4-Chloroaniline	SW 846 8270	619T-6	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	619T-6	Duplicate	5.7
4-Chloro-3-methylphenol	SW 846 8270	619T-6	Duplicate	NA
2-Methylnaphthalene	SW 846 8270	619T-6	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	619T-6	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	619T-6	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	619T-6	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	619T-6	Duplicate	NA
2-Nitroaniline	SW 846 8270	619T-6	Duplicate	NA
Dimethyl phthalate	SW 846 8270	619T-6	Duplicate	NA
Acenaphthylene	SW 846 8270	619T-6	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	619T-6	Duplicate	NA
3-Nitroaniline	SW 846 8270	619T-6	Duplicate	NA
Acenaphthene	SW 846 8270	619T-6	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	619T-6	Duplicate	NA
4-Nitrophenol	SW 846 8270	619T-6	Duplicate	NA
Dibenzofuran	SW 846 8270	619T-6	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	619T-6	Duplicate	NA
Diethyl phthalate	SW 846 8270	619T-6	Duplicate	NA
4-Chlorophenyl phenyl ether	SW 846 8270	619T-6	Duplicate	NA
Fluorene	SW 846 8270	619T-6	Duplicate	NA
4-Nitroaniline	SW 846 8270	619T-6	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	619T-6	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	619T-6	Duplicate	NA

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CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 619T

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
4-Bromophenyl phenyl ether	SW 846 8270	619T-6	Duplicate	NA
Hexachlorobenzene	SW 846 8270	619T-6	Duplicate	NA
Pentachlorophenol	SW 846 8270	619T-6	Duplicate	NA
Phenanthrene	SW 846 8270	619T-6	Duplicate	NA
Anthracene	SW 846 8270	619T-6	Duplicate	NA
Carbazole	SW 846 8270	619T-6	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	619T-6	Duplicate	NA
Fluoranthene	SW 846 8270	619T-6	Duplicate	NA
Pyrene	SW 846 8270	619T-6	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	619T-6	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	619T-6	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	619T-6	Duplicate	NA
Chrysene	SW 846 8270	619T-6	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	619T-6	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	619T-6	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	619T-6	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	619T-6	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	619T-6	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	619T-6	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	619T-6	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	619T-6	Duplicate	NA

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

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 619T

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
619T-1-7	2/28-29/96 3/1/96	2005	12	—	—	—	350.1	3/6/96	L3
619T 1-3,5-7,12	2/28-29/96 3/1/96	2120	12	-	-	—	353.2	3/13/96	MS
619T-1,4,6,8	3/01/96	2027	17	351.2	3/21/96	CMR	351.2	3/21/96	L3
619T-4,8,9,10	3/01/96	2120	14	—	—	—	~~350.1~~ 18	3/20/96	L3
619T-1	3/25-29/96	2027	18	351.2	3/26/96	L3	353.2 351.2	3/26/96	L3

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. 619T

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
619T-6	2-29-96	4000	14	—	—	—	8240	3-7-96	MM
-8	3-1-96	〃	〃	—	—	—	〃	〃	〃
-9	3-1-96	〃	〃	—	—	—	〃	〃	〃
-10	3-1-96	〃	〃	—	—	—	〃	〃	〃

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. 619T

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
619T 1-11	2/28/96 - 3/11/96	1010	—	9.3	3/5/96	KM	200.7	3/18/96	KM

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. 619T

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
619T-06	2-26-96	4300	17	3510 8270	3-7-96	SF	8270	3/12/96	SCS
-06 dup	2-27-96								
06 spk	"								
-08	3-1-96								
-09									
-10									

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

PROJECT I.D. #: 6197

SAMPLER'S SIGNATURE:

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
3-1-96	10:35 AM	GW-1 ✓	X		WATER		2	1					3	TOTALS SOLUBLE METALS
	11:15 AM	BW-2 ✓	X				2	1					3	NITRATE, AMMONIA, TKN
	11:__ AM	BW-6 ✓	X			1	2	1			2		6	TCLSV, TCLV
	—	BLIND DUPLICATE	X			1	2	1			2		6	
	9:__ AM	TRIP BLANK ✓	X		D.I. WATER	2	1	1			2		6	
	12:15 PM	MW-2	X		WATER		1						1	T METALS

TOTAL NUMBER OF CONTAINERS 25

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

	DATE	TIME	
1. RELINQUISHED BY:	3-1-96	1 50 PM	RECEIVED BY:
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

CHAIN OF CUSTODY RECORD

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

PROJECT NAME: UCAR CARBON

PROJECT I.D. #: 6197

SAMPLER'S 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
2/24/94	2:00 pm	[illegible]	✓		Ground H2O		2	1					3	Tot. + Sol. Metals, Ammo, N/O2,
"	3:2 pm	[illegible]-1	✓		" "		2	1					3	TKN, Turb *
2/24/94	[illegible] pm	BLD-4 (QC SITE)	✓		Ground H2O	3	6	3			6		18	Tot. + Sol. Metals, Ammo, TKN,
														N/O2, Turb *, TCLP,
														TCLP,
														* Done in Field

TOTAL NUMBER OF CONTAINERS: 44

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	TIME	RECEIVED BY:
	2/24/94	11:25 AM	
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED 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. #: 6194

SAMPLER'S SIGNATURE:

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
2-28-96	2:30 pm	MW-3	✓		GROUND H2O		2	1					3	AMMONIA, NITRATE, TKN, TOX*
"	2:45 pm	DW-5	✓		"		2	1					3	

TOTAL NUMBER OF CONTAINERS: 6

* = ONE IN FIELD

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	TIME	RECEIVED BY:
	2-28-96	4:15 pm	
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY: