



32NO3.6W55

not
fill in

UCAR CARBON COMPANY INC.

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

May 3, 2000

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

SUBJECT: UCAR Republic Landfill #32NO3

Dear Mr. Hans,

Please find enclosed a copy of the sampling results that were sent to Mary E. McIntosh, Engineering Geologist II of the New York State Department of Environmental Conservation Region 9 Office.

Modifications to the Post Closure Sampling Program have been made and approved by the New York State Department of Environmental Conservation. We will no longer be taking quarterly samples. They will now be taken on a semi-annual basis.

If you have any questions please feel free to call me at 278-3486.

Very truly yours,

Robert Bucci
Site Manager

R. Bucci
nm
enc.

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

RECEIVED

May 4 2000

REL UNREL



UCAR CARBON COMPANY INC.

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

May 2, 2000

Ms. Mary F. McIntosh
Engineering Geologist II
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Ms. McIntosh:

Re: Baseline Monitoring Event
UCAR Republic SWMF #32N03

The baseline monitoring event for the above-referenced site was conducted March 29-30, 2000. With two exceptions, the sample collection and analyses were performed in accordance with the program outlined in the letters from M. McIntosh (New York State Department of Environmental Conservation [NYSDEC]) to R. Bucci (UCAR) dated January 18, 2000 and February 23, 2000. The exceptions to the program were:

- i) due to insufficient well recovery volume, no sample was collected from monitoring well MW-2; and
- ii) due to insufficient sample volume, nitrite analysis was not performed for MW-1.

A sample collection and analysis summary is presented in Table 1.

The analytical laboratory report for this sampling event is enclosed and the data are summarized in Table 2. The data obtained from this monitoring event are consistent with previous data.

As described in the letter dated January 18, 2000, samples were collected from each of the Environmental Remediation Program (ERP) wells to determine whether volatile organic compounds (VOCs) were present. One VOC, cis-1,2-dichloroethene, was detected in one of the ERP wells (GW-8B). The concentration of cis-1,2-dichloroethene detected in GW-8B was 14 micrograms per liter ($\mu\text{g/L}$). Due to the detected presence of a VOC compound, well GW-8B will be added to the monitoring program in the annual event. A summary of the Post-Closure Monitoring Program is presented in Table 3 and the analytical parameter list is presented in Table 4. The next Post-Closure Monitoring event will be conducted in September 2000.

Should you have any questions or require additional information please do not hesitate to contact the undersigned.

Yours truly,

Robert Bucci, Site Manager

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MAY 4 2000
NYSDEC
REL UNREL

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
UCAR REPUBLIC SWMF #32N03

Well ID.	Purge Date	Sampling Date	One Well Volume (gals)	Number of Volumes Purged	Total Volume Purged (gals)	Turbidity (NTUs)	Analytical Parameters				Comments
							VOCs	Total Metals	Dissolved Metals	Misc. Parameters	
MW-3	3/29/2000	3/29/2000	2	10	20	245	X	X	X	X	
GW-7B	3/29/2000	3/29/2000	10	3	30	3.9	X				
GW-11B	3/29/2000	3/29/2000	8.8	3	27	2.9	X				
GW-9A	3/29/2000	3/29/2000	2.4	3	7.5	747	X				
GW-9B	3/29/2000	3/29/2000	7.8	3	24	39.8	X	X		X	
GW-8A	3/29/2000	3/29/2000	2.4	3	7	75.7	X				
GW-8B	3/29/2000	3/29/2000	6.7	3	20	122	X				
GW-10A	3/29/2000	3/29/2000	3.3	3	10	1550	X				
GW-10B	3/29/2000	3/29/2000	7.6	3	20	24.8	X				
MW-1	3/29-30/00	3/30/2000	2.25	1+	3.25	31.2	X	X(Partial)	X(Partial)	X(Partial)	Limited volume for sampling
MW-2	3/29-30/00	N/S	0.12	4+	0.5	N/M					Not sampled, insufficient volume
BW-5	3/30/2000	3/30/2000	15	3	45	14.6	X	X		X	MS/MSD
BW-3	3/30/2000	3/30/2000	11.1	3	35	5.4	X	X		X	
BW-2	3/30/2000	3/30/2000	10.6	3	33	2.9	X	X		X	
BW-6	3/30/2000	3/30/2000	8.1	3	24	9.8	X	X		X	
BW-4	3/30/2000	3/30/2000	9.7	3	33	0.4	X	X		X	Occasional oily sheen
BW-1	3/30/2000	3/30/2000	6.2	3	20	57.6	X	X	X	X	

Notes:

Gals. Gallons.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
NTUs Nephelometric turbidity units.
VOCs Volatile Organic Compounds.

TABLE 2

**SUMMARY OF GENERAL PARAMETERS AND COMPOUNDS DETECTED
UCAR REPUBLIC SWMF #32N03**

<i>Parameters</i>	<i>Units</i>	<i>BW-1</i> <i>03/30/00</i>	<i>BW-2</i> <i>03/30/00</i>	<i>BW-3</i> <i>03/30/00</i>	<i>BW-4</i> <i>03/30/00</i>	<i>BW-5</i> <i>03/30/00</i>	<i>BW-6</i> <i>03/30/00</i>	<i>MW-1</i> <i>03/30/00</i>	<i>MW-3</i> <i>03/29/00</i>
Turbidity	NTU	57.6	2.9	5.4	0.4	14.6	9.8	31.2	245
Ammonia	mg/L	ND 0.4	ND 0.4	ND 0.4	2.5	ND 0.4	ND 0.4	ND 0.4	ND 0.4
Nitrite	mg/L	ND 0.04	ND 0.04	ND 0.04	ND 0.04	ND 0.04	ND 0.04	NA ⁽¹⁾	ND 0.04
TKN	mg/L	1.06	0.94	1.39	3.1	ND 0.8	0.98	0.82	1.36
Iron, total	mg/L	3.02	0.87	1.21	2.41	2.79	2.67	4.64	10.1
Potassium, total	mg/L	4.64	8.47	1.85	11.9	2	0.83	37.9	2.86
Zinc, total	mg/L	3.54	0.1	1.11	0.06	0.18	0.02	0.05	0.07
Iron, dissolved	mg/L	2.45	NA	NA	NA	NA	NA	NA	2.11
Potassium, dissolved	mg/L	5.27	NA	NA	NA	NA	NA	NA	2.29
Zinc, dissolved	mg/L	3.75	NA	NA	NA	NA	NA	NA	0.11
Chloroethane	ug/L	ND 10	22	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10
Vinyl chloride	ug/L	ND 10	ND 10	15	ND 10	ND 10	ND 10	ND 10	ND 10
cis-1,2-Dichloroethene	ug/L	ND 10	ND 10	ND 10	180	ND 10	ND 10	ND 10	ND 10
Tetrachloroethene	ug/L	ND 10	ND 10	ND 10	135	ND 10	ND 10	ND 10	ND 10
Trichloroethene	ug/L	ND 10	ND 10	ND 10	178	ND 10	ND 10	ND 10	ND 10
Vinyl chloride	ug/L	ND 10	ND 10	ND 10	115	ND 10	ND 10	ND 10	ND 10

TABLE 2

**SUMMARY OF GENERAL PARAMETERS AND COMPOUNDS DETECTED
UCAR REPUBLIC SWMF #32N03**

<i>Parameters</i>	<i>Units</i>	<i>GW-7B</i> <i>03/29/00</i>	<i>GW-8A</i> <i>03/29/00</i>	<i>GW-8B</i> <i>03/29/00</i>	<i>GW-9A</i> <i>03/29/00</i>	<i>GW-9B</i> <i>03/29/00</i>	<i>GW-10A</i> <i>03/29/00</i>	<i>GW-10B</i> <i>03/29/00</i>	<i>GW-11B</i> <i>03/29/00</i>
Turbidity	NTU	3.9	75.7	122	747	39.8	24.8	1550	2.9
Ammonia	mg/L	NA	NA	NA	NA	ND 0.4	NA	NA	NA
Nitrite	mg/L	NA	NA	NA	NA	ND 0.04	NA	NA	NA
TKN	mg/L	NA	NA	NA	NA	ND 0.8	NA	NA	NA
Iron, total	mg/L	NA	NA	NA	NA	0.47	NA	NA	NA
Potassium, total	mg/L	NA	NA	NA	NA	6.20	NA	NA	NA
Zinc, total	mg/L	NA	NA	NA	NA	ND 0.016	NA	NA	NA
Iron, dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Potassium, dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Zinc, dissolved	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	ug/L	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10
Vinyl chloride	ug/L	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10
cis-1,2-Dichloroethene	ug/L	ND 10	ND 10	14	ND 10	ND 10	ND 10	ND 10	ND 10
Tetrachloroethene	ug/L	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10
Trichloroethene	ug/L	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10
Vinyl chloride	ug/L	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10	ND 10

Notes:

- (1) Insufficient sample volume.
 NA Not Analyzed.
 NDx Non-detect at associated value.
 NTU Nephelometric Turbidity Units.
 TKN Total Kjeldahl Nitrogen.

TABLE 3
POST-CLOSURE MONITORING PROGRAM SUMMARY
UCAR REPUBLIC SWMF #32N03

	<i>Annual</i>	<i>Semi-Annual</i>
MW-1	X	X ⁽¹⁾
MW-2	X	X ⁽¹⁾
MW-3	X	X ⁽¹⁾
BW-1	X	X
BW-2	X	X ⁽¹⁾
BW-3	X	X
BW-4	X	X
BW-5	X	X ⁽¹⁾
BW-6	X	X
GW-8B	X	X ⁽¹⁾
GW-9B	X	X ⁽¹⁾

Notes:

⁽¹⁾ VOC analyses not performed in this event.

TABLE 4
MONITORING PARAMETERS
UCAR REPUBLIC SWMF #32N03

Water Level Elevation

Turbidity
Ammonia
Nitrite
Total Kjeldahl Nitrogen

Iron⁽¹⁾
Potassium⁽¹⁾
Zinc⁽¹⁾

Volatile Organic Compounds⁽²⁾

Notes:

- (1) Total and soluble analyses to be
performed when turbidity is > 50 NTU
- (2) Method 8260

CRA SERVICES

REPUBLIC WASTE MANAGEMENT FACILITY
POST CLOSURE MONITORING PROGRAM
ANNUAL EVENT + INITIAL BASELINE EVENT
SAMPLE DATE: MARCH 30, 2000

Prepared By:

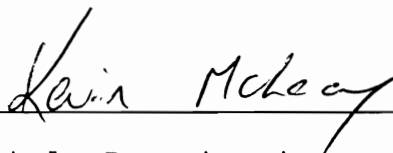


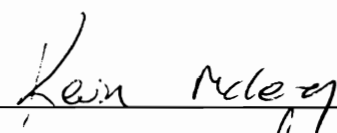
"A Company Dedicated to Honesty, Quality and Service"

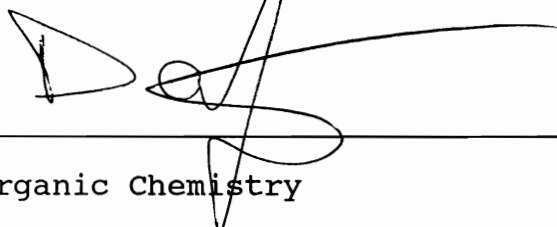
April 13, 2000
REF: CTC01NJ
Lab ID No. 10233

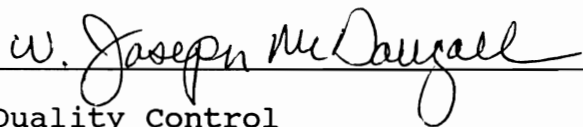
QA/QC VERIFICATION FOR PROJECT ID 01NJ

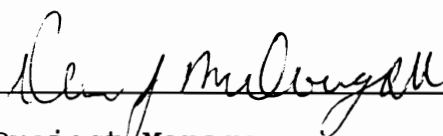
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.


Metals Department


Inorganic Chemistry


Organic Chemistry


Quality Control


Project Manager

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

The following are standard abbreviations:

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

Advanced Environmental Services, Inc.

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

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
March 29/30 2000

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 01NJ

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	03/30/00	3:15 PM	20.10	57.6	4:30 PM	Grey Tint
BW-2	03/30/00	11:00 AM	20.50	2.9	NR	Clear/Yellow Tint
BW-3	03/30/00	10:25 AM	16.20	5.4	NR	Clear
BW-4	03/30/00	2:50 PM	15.00	0.4	NR	Clear
BW-5	03/30/00	2:40 PM	7.50	14.6	NR	Clear
BW-6	03/30/00	11:55 AM	18.10	9.8	NR	Clear
MW-1	03/29/00	2:45 PM	31.20	31.2	NR	Clear
MW-2	03/29/00	3:00 PM	Dry	N/A	N/A	Dry
MW-3	03/29/00	10:45 AM	13.50	245.0	4:15 PM	Cloudy, Brown
Blind Dup	NR					
Trip Blank	NR					

NR= Not required

N/A= Not Available

 4/1/00
Field Technician Date

Advanced Environmental Services, Inc.

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

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
March29/30 2000

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 01NJ

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
GW-7B	03/29/00	10:45 AM	5.90	3.9	NR	Clear
GW-11B	03/29/00	10:30 AM	6.50	2.9	NR	Clear
GW-9B	03/29/00	11:40 AM	28.50	39.8	NR	Clear
GW-9A	03/29/00	11:30 AM	20.90	747.0	NR	Muddy,Brown
GW-8A	03/29/00	11:55 AM	17.20	75.7	NR	Sl. Cloudy
GW-8B	03/29/00	12:30 PM	24.30	122.0	NR	Cloudy
GW-10A	03/29/00	2:55 PM	25.50	24.8	NR	Clear
GW-10B	03/29/00	2:45 PM	26.50	1550.0	NR	Muddy,Brown


Field Technician

4/1/00
Date

Advanced Environmental Services, Inc.

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

QUARTERLY GROUNDWATER MONITORING - WELL INFORMATION
March 29~~1~~30,2000

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 01NJ

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	3/30/00	610.72	4	14.92	595.80	24.38	6.18	20.0	C
BW-2	3/30/00	608.43	4	12.30	596.13	26.54	10.60	33.0	C
BW-3	3/30/00	604.72	4	7.80	596.92	24.85	11.10	35.0	C
BW-4	3/30/00	607.08	4	13.03	594.05	22.65	6.28	19.0	C
BW-5	3/30/00	603.33	4	5.77	597.56	28.77	15.01	45.0	C
BW-6	3/30/00	607.04	4	12.58	594.46	24.94	8.07	24.0	C
MW-1	3/29/00	609.43	2	7.81	601.62	21.02	2.17	3.00(Dry)	VS
MW-2	3/29/00	607.54	3	23.85	583.69	24.59	0.27	0.4(Dry)	VS
MW-3	3/29/00	601.61	2	3.30	598.31	15.35	1.98	20.0	C
OW-1 SOUTH	3/30/00	608.81	2	5.97	602.84	NR	NR	NR	NR
OW-2 NORTH	3/30/00	607.06	2	5.85	601.21	NR	NR	NR	NR

Abbreviations:

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

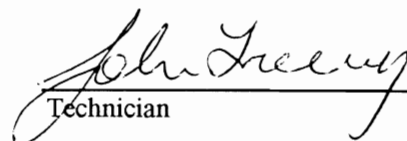
S = Slow ----- Recharge Rate within 24 hr period.

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

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable

 4/1/00
Technician Date

Advanced Environmental Services, Inc.

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

QUARTERLY GROUNDWATER MONITORING - WELL INFORMATION

March 29,30 2000

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 01NJ

Monitoring Well I.D.	Evacuation Date	Top of Outer 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
GW-7B	3/29/00	603.08	3	5.84	597.24	32.32	9.93	30.0	C
GW-8A	3/29/00	604.04	2	5.80	598.24	20.11	2.35	7.0	C
GW-8B	3/29/00	603.90	3	7.57	596.33	25.48	6.72	20.0	C
GW-9A	3/29/00	603.29	2	7.98	595.31	22.51	2.38	7.5	C
GW-9B	3/29/00	603.40	3	11.25	592.15	32.05	7.80	24.0	C
GW-10A	3/29/00	603.17	2	12.40	590.77	32.80	3.33	10.0	C
GW-10B	3/29/00	603.29	3	12.54	590.75	30.20	7.60	21.0	C
GW-11B	3/29/00	601.89	3	4.58	597.31	28.14	8.84	27.0	C

Abbreviations:

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

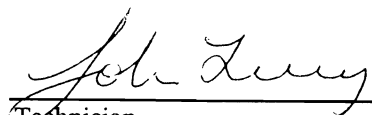
S = Slow ----- Recharge Rate within 24 hr period.

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

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable



Technician

4/1/00

Date

CLIENT: CRA Services
 SAMPLE ID: GW-7B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-1

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	3.9	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-7B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-1

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-8A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-2

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	75.7	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-8A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-2

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-8B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-3

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	122	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	14	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-8B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-3

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-9A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-4

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	747	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-9A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-4

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-9B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-5

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	39.8	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	0.468	mg/L	0.060	EPA 200.7
Total Potassium	6.20	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	ND	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-9B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-5

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-10A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-6

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	24.8	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-10A
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-6

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-10B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-7

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1550	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-10B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-7

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: GW-11B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-8

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	2.9	NTU	0.1	EPA 180.1
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: GW-11B
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-8

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: BW-1
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-9

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	57.6	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	3.02	mg/L	0.060	EPA 200.7
Total Potassium	4.64	mg/L	1.0	EPA 200.7
Total Zinc	3.54	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	1.06	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-1
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-9

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260
Soluble Iron	2.45	mg/L	0.060	EPA 200.7
Soluble Potassium	5.27	mg/L	1.0	EPA 200.7
Soluble Zinc	3.75	mg/L	0.016	EPA 200.7

CLIENT: CRA Services
 SAMPLE ID: BW-2
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-10

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	2.9	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	0.872	mg/L	0.060	EPA 200.7
Total Potassium	8.47	mg/L	1.0	EPA 200.7
Total Zinc	0.099	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.94	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	22	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-2
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-10

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: BW-3
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-11

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5.4	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	1.21	mg/L	0.060	EPA 200.7
Total Potassium	1.85	mg/L	1.0	EPA 200.7
Total Zinc	1.11	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	1.39	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-3
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-11

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	15	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: BW-4
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-12

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.4	NTU	0.1	EPA 180.1
Ammonia	2.5	mg/L	0.4	EPA 350.3
Total Iron	2.41	mg/L	0.060	EPA 200.7
Total Potassium	11.9	mg/L	1.0	EPA 200.7
Total Zinc	0.058	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	3.10	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	180 ✓	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-4
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-12

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	135 ✓	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	178 ✓	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	115 ✓	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: BW-5
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-13

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	14.6	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	2.79	mg/L	0.060	EPA 200.7
Total Potassium	2.00	mg/L	1.0	EPA 200.7
Total Zinc	0.175	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	ND	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-5
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-13

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: BW-6
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-14

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	9.8	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	2.67	mg/L	0.060	EPA 200.7
Total Potassium	0.829	mg/L	1.0	EPA 200.7
Total Zinc	0.018	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.98	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: BW-6
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-14

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: MW-1 Limited Sample Available
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-15

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	31.2	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	4.64	mg/L	0.060	EPA 200.7
Total Potassium	37.9	mg/L	1.0	EPA 200.7
Total Zinc	0.047	mg/L	0.016	EPA 200.7
Total Kjeldahl Nitrogen	0.82	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: MW-1 Limited Sample Available
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/30/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-15

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: MW-3
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-17

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	245	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	10.1	mg/L	0.060	EPA 200.7
Total Potassium	2.86	mg/L	1.0	EPA 200.7
Total Zinc	0.067	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	1.36	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260

* Analysis performed in the field.

CLIENT: CRA Services
 SAMPLE ID: MW-3
 COLLECTION METHOD: Grab
 COLLECTION DATE(S): 03/29/00
 SAMPLE TYPE: Groundwater

AES CLIENT ID: CRACD
 AES SAMPLE ID: 01NJ-17

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260
Soluble Iron	2.11	mg/L	0.060	EPA 200.7
Soluble Potassium	2.29	mg/L	1.0	EPA 200.7
Soluble Zinc	0.106	mg/L	0.016	EPA 200.7

CLIENT: CRA Services
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CRACD

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Ammonia	ND	mg/L	0.4	EPA 350.3
Total Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	ND	mg/L	0.8	EPA 351.3
Acetone	ND	µg/L	20	SW 846 8260
Acrylonitrile	ND	µg/L	100	SW 846 8260
Benzene	ND	µg/L	10	SW 846 8260
Bromochloromethane	ND	µg/L	10	SW 846 8260
Bromodichloromethane	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
Carbon disulfide	ND	µg/L	20	SW 846 8260
Carbon tetrachloride	ND	µg/L	10	SW 846 8260
Chlorobenzene	ND	µg/L	10	SW 846 8260
Chloroethane	ND	µg/L	10	SW 846 8260
Chloroform	ND	µg/L	10	SW 846 8260
Chlorodibromomethane	ND	µg/L	10	SW 846 8260
1,2-Dibromo-3-chloropropane	ND	µg/L	10	SW 846 8260
1,2-Dibromoethane	ND	µg/L	10	SW 846 8260
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8260
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8260
trans-1,4-Dichloro-2-butene	ND	µg/L	10	SW 846 8260
1,1-Dichloroethane	ND	µg/L	10	SW 846 8260
1,2-Dichloroethane	ND	µg/L	10	SW 846 8260
1,1-Dichloroethene	ND	µg/L	10	SW 846 8260
cis-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
trans-1,2-Dichloroethene	ND	µg/L	10	SW 846 8260
1,2-Dichloropropane	ND	µg/L	10	SW 846 8260

CLIENT: CRA Services
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CRACD

PROJECT ID: 01NJ

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8260
Ethylbenzene	ND	µg/L	10	SW 846 8260
2-Hexanone	ND	µg/L	20	SW 846 8260
Methyl bromide	ND	µg/L	10	SW 846 8260
Methyl chloride	ND	µg/L	10	SW 846 8260
Methylene bromide	ND	µg/L	10	SW 846 8260
Methylene chloride	ND	µg/L	10	SW 846 8260
Methyl ethyl ketone	ND	µg/L	20	SW 846 8260
Methyl iodide	ND	µg/L	20	SW 846 8260
4-Methyl-2-pentanone	ND	µg/L	20	SW 846 8260
Styrene	ND	µg/L	10	SW 846 8260
Bromoform	ND	µg/L	10	SW 846 8260
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8260
Tetrachloroethene	ND	µg/L	10	SW 846 8260
Toluene	ND	µg/L	10	SW 846 8260
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8260
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8260
Trichloroethene	ND	µg/L	10	SW 846 8260
Trichlorofluoromethane	ND	µg/L	10	SW 846 8260
1,2,3-Trichloropropane	ND	µg/L	10	SW 846 8260
Vinyl acetate	ND	µg/L	20	SW 846 8260
Vinyl chloride	ND	µg/L	10	SW 846 8260
Xylenes	ND	µg/L	10	SW 846 8260

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QUALITY CONTROL REPORT

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CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.3	---	Independent Standard	90
Ammonia	EPA 350.3	01NJ-13	Matrix Spike	93
Ammonia	EPA 350.3	---	Independent Standard	90
Total Iron	EPA 200.7	---	Independent Standard	100
Total Iron	EPA 200.7	01NJ-13	Matrix Spike	115
Total Iron	EPA 200.7	---	Independent Standard	100
Total Potassium	EPA 200.7	---	Independent Standard	88
Total Potassium	EPA 200.7	01NJ-13	Matrix Spike	101
Total Potassium	EPA 200.7	---	Independent Standard	88
Total Zinc	EPA 200.7	---	Independent Standard	103
Total Zinc	EPA 200.7	01NJ-13	Matrix Spike	92
Total Zinc	EPA 200.7	---	Independent Standard	103
Nitrite	HACH 8507	---	Independent Standard	100
Nitrite	HACH 8507	01NJ-13	Matrix Spike	88
Nitrite	HACH 8507	---	Independent Standard	100
Total Kjeldahl Nitrogen	EPA 351.3	---	Independent Standard	98
Total Kjeldahl Nitrogen	EPA 351.3	01NJ-13	Matrix Spike	87
Total Kjeldahl Nitrogen	EPA 351.3	---	Independent Standard	99
Acetone	SW 846 8260	---	Independent Standard	79
Acetone	SW 846 8260	01NJ-13	Matrix Spike	92
Acrylonitrile	SW 846 8260	---	Independent Standard	NA
Acrylonitrile	SW 846 8260	01NJ-13	Matrix Spike	NA
Benzene	SW 846 8260	---	Independent Standard	118
Benzene	SW 846 8260	01NJ-13	Matrix Spike	110
Bromochloromethane	SW 846 8260	---	Independent Standard	101
Bromochloromethane	SW 846 8260	01NJ-13	Matrix Spike	96
Bromodichloromethane	SW 846 8260	---	Independent Standard	89
Bromodichloromethane	SW 846 8260	01NJ-13	Matrix Spike	87
Bromoform	SW 846 8260	---	Independent Standard	83

CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Bromoform	SW 846 8260	01NJ-13	Matrix Spike	84
Carbon disulfide	SW 846 8260	---	Independent Standard	117
Carbon disulfide	SW 846 8260	01NJ-13	Matrix Spike	119
Carbon tetrachloride	SW 846 8260	---	Independent Standard	88
Carbon tetrachloride	SW 846 8260	01NJ-13	Matrix Spike	87
Chlorobenzene	SW 846 8260	---	Independent Standard	103
Chlorobenzene	SW 846 8260	01NJ-13	Matrix Spike	101
Chloroethane	SW 846 8260	---	Independent Standard	109
Chloroethane	SW 846 8260	01NJ-13	Matrix Spike	99
Chloroform	SW 846 8260	---	Independent Standard	97
Chloroform	SW 846 8260	01NJ-13	Matrix Spike	92
Chlorodibromomethane	SW 846 8260	---	Independent Standard	88
Chlorodibromomethane	SW 846 8260	01NJ-13	Matrix Spike	89
1,2-Dibromo-3-chloropropane	SW 846 8260	---	Independent Standard	86
1,2-Dibromo-3-chloropropane	SW 846 8260	01NJ-13	Matrix Spike	96
1,2-Dibromoethane	SW 846 8260	---	Independent Standard	95
1,2-Dibromoethane	SW 846 8260	01NJ-13	Matrix Spike	98
1,2-Dichlorobenzene	SW 846 8260	---	Independent Standard	93
1,2-Dichlorobenzene	SW 846 8260	01NJ-13	Matrix Spike	94
1,4-Dichlorobenzene	SW 846 8260	---	Independent Standard	95
1,4-Dichlorobenzene	SW 846 8260	01NJ-13	Matrix Spike	95
trans-1,4-Dichloro-2-butene	SW 846 8260	---	Independent Standard	NA
trans-1,4-Dichloro-2-butene	SW 846 8260	01NJ-13	Matrix Spike	NA
1,1-Dichloroethane	SW 846 8260	---	Independent Standard	114
1,1-Dichloroethane	SW 846 8260	01NJ-13	Matrix Spike	107
1,2-Dichloroethane	SW 846 8260	---	Independent Standard	83
1,2-Dichloroethane	SW 846 8260	01NJ-13	Matrix Spike	87
1,1-Dichloroethene	SW 846 8260	---	Independent Standard	106
1,1-Dichloroethene	SW 846 8260	01NJ-13	Matrix Spike	104

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT
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CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
cis-1,2-Dichloroethene	SW 846 8260	---	Independent Standard	111
cis-1,2-Dichloroethene	SW 846 8260	01NJ-13	Matrix Spike	106
trans-1,2-Dichloroethene	SW 846 8260	---	Independent Standard	112
trans-1,2-Dichloroethene	SW 846 8260	01NJ-13	Matrix Spike	108
1,2-Dichloropropane	SW 846 8260	---	Independent Standard	101
1,2-Dichloropropane	SW 846 8260	01NJ-13	Matrix Spike	100
cis-1,3-Dichloropropene	SW 846 8260	---	Independent Standard	99
cis-1,3-Dichloropropene	SW 846 8260	01NJ-13	Matrix Spike	96
trans-1,3-Dichloropropene	SW 846 8260	---	Independent Standard	101
trans-1,3-Dichloropropene	SW 846 8260	01NJ-13	Matrix Spike	95
Ethylbenzene	SW 846 8260	---	Independent Standard	103
Ethylbenzene	SW 846 8260	01NJ-13	Matrix Spike	107
2-Hexanone	SW 846 8260	---	Independent Standard	85
2-Hexanone	SW 846 8260	01NJ-13	Matrix Spike	95
Methyl bromide	SW 846 8260	---	Independent Standard	101
Methyl bromide	SW 846 8260	01NJ-13	Matrix Spike	90
Methyl chloride	SW 846 8260	---	Independent Standard	115
Methyl chloride	SW 846 8260	01NJ-13	Matrix Spike	113
Methylene bromide	SW 846 8260	---	Independent Standard	90
Methylene bromide	SW 846 8260	01NJ-13	Matrix Spike	85
Methylene chloride	SW 846 8260	---	Independent Standard	119
Methylene chloride	SW 846 8260	01NJ-13	Matrix Spike	107
Methyl ethyl ketone	SW 846 8260	---	Independent Standard	91
Methyl ethyl ketone	SW 846 8260	01NJ-13	Matrix Spike	100
Methyl iodide	SW 846 8260	---	Independent Standard	103
Methyl iodide	SW 846 8260	01NJ-13	Matrix Spike	94
4-Methyl-2-pentanone	SW 846 8260	---	Independent Standard	82
4-Methyl-2-pentanone	SW 846 8260	01NJ-13	Matrix Spike	93
Styrene	SW 846 8260	---	Independent Standard	107

CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Styrene	SW 846 8260	01NJ-13	Matrix Spike	104
Bromoform	SW 846 8260	---	Independent Standard	83
Bromoform	SW 846 8260	01NJ-13	Matrix Spike	84
1,1,2,2-Tetrachloroethane	SW 846 8260	---	Independent Standard	102
1,1,2,2-Tetrachloroethane	SW 846 8260	01NJ-13	Matrix Spike	116
Tetrachloroethene	SW 846 8260	---	Independent Standard	99
Tetrachloroethene	SW 846 8260	01NJ-13	Matrix Spike	98
Toluene	SW 846 8260	---	Independent Standard	104
Toluene	SW 846 8260	01NJ-13	Matrix Spike	103
1,1,1-Trichloroethane	SW 846 8260	---	Independent Standard	80
1,1,1-Trichloroethane	SW 846 8260	01NJ-13	Matrix Spike	81
1,1,2-Trichloroethane	SW 846 8260	---	Independent Standard	97
1,1,2-Trichloroethane	SW 846 8260	01NJ-13	Matrix Spike	101
Trichloroethene	SW 846 8260	---	Independent Standard	98
Trichloroethene	SW 846 8260	01NJ-13	Matrix Spike	94
Trichlorofluoromethane	SW 846 8260	---	Independent Standard	94
Trichlorofluoromethane	SW 846 8260	01NJ-13	Matrix Spike	84
1,2,3-Trichloropropane	SW 846 8260	---	Independent Standard	92
1,2,3-Trichloropropane	SW 846 8260	01NJ-13	Matrix Spike	137
Vinyl acetate	SW 846 8260	---	Independent Standard	97
Vinyl acetate	SW 846 8260	01NJ-13	Matrix Spike	95
Vinyl chloride	SW 846 8260	---	Independent Standard	121
Vinyl chloride	SW 846 8260	01NJ-13	Matrix Spike	124
Xylenes	SW 846 8260	---	Independent Standard	98
Xylenes	SW 846 8260	01NJ-13	Matrix Spike	94

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

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CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.3	01NJ-13	Duplicate	0
Total Iron	EPA 200.7	01NJ-13	Duplicate	2.7
Total Potassium	EPA 200.7	01NJ-13	Duplicate	0.61
Total Zinc	EPA 200.7	01NJ-13	Duplicate	0.24
Nitrite	HACH 8507	01NJ-13	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.3	01NJ-13	Duplicate	NA

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

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 1

CLIENT: CRA Services

AES CLIENT ID: CRACD
PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Acetone	SW 846 8260	01NJ-13	Martix Spike Duplicate	90
Acrylonitrile	SW 846 8260	01NJ-13	Martix Spike Duplicate	116
Benzene	SW 846 8260	01NJ-13	Martix Spike Duplicate	117
Bromochloromethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	95
Bromodichloromethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	84
Bromoform	SW 846 8260	01NJ-13	Martix Spike Duplicate	84
Carbon disulfide	SW 846 8260	01NJ-13	Martix Spike Duplicate	114
Carbon tetrachloride	SW 846 8260	01NJ-13	Martix Spike Duplicate	78
Chlorobenzene	SW 846 8260	01NJ-13	Martix Spike Duplicate	98
Chloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	124
Chloroform	SW 846 8260	01NJ-13	Martix Spike Duplicate	92
Chlorodibromomethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	88
1,2-Dibromo-3-chloropropane	SW 846 8260	01NJ-13	Martix Spike Duplicate	101
1,2-Dibromoethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	99
1,2-Dichlorobenzene	SW 846 8260	01NJ-13	Martix Spike Duplicate	94
1,4-Dichlorobenzene	SW 846 8260	01NJ-13	Martix Spike Duplicate	97
trans-1,4-Dichloro-2-butene	SW 846 8260	01NJ-13	Martix Spike Duplicate	NA
1,1-Dichloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	106
1,2-Dichloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	84
1,1-Dichloroethene	SW 846 8260	01NJ-13	Martix Spike Duplicate	100
cis-1,2-Dichloroethene	SW 846 8260	01NJ-13	Martix Spike Duplicate	105
trans-1,2-Dichloroethene	SW 846 8260	01NJ-13	Martix Spike Duplicate	104
1,2-Dichloropropane	SW 846 8260	01NJ-13	Martix Spike Duplicate	96
cis-1,3-Dichloropropene	SW 846 8260	01NJ-13	Martix Spike Duplicate	89
trans-1,3-Dichloropropene	SW 846 8260	01NJ-13	Martix Spike Duplicate	104
Ethylbenzene	SW 846 8260	01NJ-13	Martix Spike Duplicate	96
2-Hexanone	SW 846 8260	01NJ-13	Martix Spike Duplicate	104
Methyl bromide	SW 846 8260	01NJ-13	Martix Spike Duplicate	104
Methyl chloride	SW 846 8260	01NJ-13	Martix Spike Duplicate	116

CLIENT: CRA Services

AES CLIENT ID: CRACD
 PROJECT ID: 01NJ

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Methylene bromide	SW 846 8260	01NJ-13	Martix Spike Duplicate	82
Methylene chloride	SW 846 8260	01NJ-13	Martix Spike Duplicate	102
Methyl ethyl ketone	SW 846 8260	01NJ-13	Martix Spike Duplicate	113
Methyl iodide	SW 846 8260	01NJ-13	Martix Spike Duplicate	85
4-Methyl-2-pentanone	SW 846 8260	01NJ-13	Martix Spike Duplicate	88
Styrene	SW 846 8260	01NJ-13	Martix Spike Duplicate	99
Bromoform	SW 846 8260	01NJ-13	Martix Spike Duplicate	84
1,1,2,2-Tetrachloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	127
Tetrachloroethene	SW 846 8260	01NJ-13	Martix Spike Duplicate	96
Toluene	SW 846 8260	01NJ-13	Martix Spike Duplicate	92
1,1,1-Trichloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	80
1,1,2-Trichloroethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	101
Trichloroethene	SW 846 8260	01NJ-13	Martix Spike Duplicate	86
Trichlorofluoromethane	SW 846 8260	01NJ-13	Martix Spike Duplicate	78
1,2,3-Trichloropropane	SW 846 8260	01NJ-13	Martix Spike Duplicate	123
Vinyl acetate	SW 846 8260	01NJ-13	Martix Spike Duplicate	99
Vinyl chloride	SW 846 8260	01NJ-13	Martix Spike Duplicate	118
Xylenes	SW 846 8260	01NJ-13	Martix Spike Duplicate	94

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification CTC OINJ

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
OINJ 9-15, D	3/30/00			9.3	4/13/00	RP	200.7	4/4/00	Km

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

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification

CTC-01NJ

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
1,2,3,4,5,6	3/24/00	—	—	—	—	—	8260	4/5/00	DJ
13	3/30/00	—	—	—	—	—	8260	4/5/00	DJ
7,8,17	3/29/00	—	—	—	—	—	8260	4/6/00	DJ
9,10,11,12,14,15	3/30/00	—	—	—	—	—	8260	4/6/00	DJ

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

Advanced Environmental Services, Inc.

Sample Traceability Report

Project Identification

CTC 01NJ

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
01NJ ^{5,7} 9-17	3/29+30/00	2120		-	-	-	8507	3/30/00	LR
01NJ ⁵ 9-13	3/29+30/00	2005	250	-	-	-	350.1	4/6/00	MF
01NJ ^{14,15} 17	3/29/00 3/30/00	2005	251	-	-	-	350.1	4/10/00	MF
01NS ^{5,9-15} 17	3/29-30/00	2027	214	351.3	4/11/00	KM	351.3	4/11/00	KM

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

ADVANCED

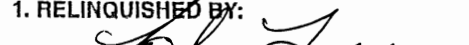
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

SAMPLER'S SIGNATURE: John Jones

JOB CODE: C7C

GRAB COMP PAGE 1 of 2 SAMPLE TYPE

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 3/30/00	TIME 4:30pm	RECEIVED BY: 
2. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____

ADVANCED
ENVIRONMENTAL SERVICES INC.

Fax (716) 283-4727

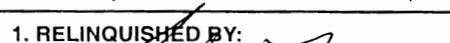
John L. Lutz

JOB CODE: CTC

PAGE 2 of 2

PROJECT NAME: <u>BASELINE SAMPLING</u>					CONTAINER CLASSIFICATION										PROJECT I.D.#: <u>01NJ</u>	
SAMPLER'S SIGNATURE: <u>John Luning</u>					PAGE <u>2</u> of <u>2</u> UNPRESERVED HNO₃ H₂SO₄ HCL NaOH VIAL (PRES.) VIAL (UNPRES.) OTHER TOTAL										JOB CODE: <u>CTC</u>	
DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP											SAMPLE TYPE	PARAMETERS / REMARKS
3/29/00	11:40am	GW9B	X			1	1	1			2		5	TKN, AMMONIA		
3/30/00	2:45pm	MW1	X				1	1			2		4	TOTAL METALS		
3/29/00	10:45AM	MW3	X			1	2	1			2		6	BASELINE VOLS		
3/30/00	2:40PM	BW5 + Qc	X			2	2	2			4		10	NITRITE		
3/30/00	10:25AM	BW3	X			1	1	1			2		5			
3/30/00	11:00AM	BW2	X			1	1	1			2		5			
3/30/00	11:55AM	BW6	X			1	1	1			2		5			
3/30/00	3:15PM	BW1	X			1	2	1			2		6			
3/30/00	2:50PM	BW4	X			1	1	1			2		5			
														MW1 - LIMITED SAMPLE - NO NITRITE		
														MW2 - DRY NO SAMPLE		
														BW1, MW3 ALSO		
														SOL. METALS		
NOTE: Please indicate required analysis, and whom we may						TOTAL NUMBER OF CONTAINERS										51

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 3/30/00	TIME 4:30 PM	RECEIVED BY: 
2. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____