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International Specialists in the Environment

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EPA Region 5 Records Ctr.
248106

December 28, 1995

Samuel F. Borries, On-Scene Coordinator
U. S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604

Re: Summary of Residential Soil Sampling Results, Gateway Initiative Project, East St. Louis, Illinois, Contract Number 68-W0-0037, Technical Direction Document (TDD) # T05-9512-701.

Dear Mr. Borries:

Attached please find the results of residential soil sampling and analysis for selected metals which were collected by Ecology and Environment, Inc. (E & E), for the above-referenced project. On December 11 through 13, 1995, E & E personnel Dean Tiebout and Cathy Sullivan, accompanied by Connie Letsky, Peter Sorenson, and J. Stanley Black of the Illinois Environmental Protection Agency (IEPA), collected 88 surface soil samples (including 8 duplicate samples) from the project area as defined in the Sampling Quality Assurance/Quality Control (QA/QC) Work Plan for the site. The Work Plan was prepared by E & E and submitted to The United States Environmental Protection Agency (U.S. EPA) on December 7, 1995. Samples were collected from the upper inch of soil using a stainless steel spoon. If grass cover was present in the area to be sampled, the sample was collected by first removing the grass layer, then collecting a sample from the first inch of soil below the grass layer.

In accordance with the sampling plan, samples were collected within a 0.5 mile radius of the Arkansas Post and Pole site, from areas owned by the City of East St. Louis, or from abandoned lots; unless prior permission was obtained from individual residents to collect a sample from their property. Twenty-four of the 80 samples were collected from the yards of current residents of the area, with prior permission obtained by IEPA. A list of the samples collected, along with the location of each sample relative to nearby city streets, is attached. Residential addresses are included for the samples collected from residential yards. The project area and approximate sample locations are illustrated in Figures 1 through 5.

Samples were analyzed at E & E's Analytical Services Center (ASC), in Buffalo, New York, for arsenic, cadmium, copper, lead, nickel, and zinc. A summary of the analytical results and the laboratory data results are also attached.

Please feel free to contact me if you have any questions concerning this submittal.

Sincerely,
ECOLOGY AND ENVIRONMENT, INC.

Cathy Sullivan
for Dean Tiebout
E & E Project Manager

for Tom Kouris
TAT Leader

Attachments:

A - Sample Location Summary
B - Site Figures
C - Summary of Sample Analytical Results
D - Laboratory Data Results

ATTACHMENT A

SAMPLE LOCATION SUMMARY

Table 1
SAMPLE LOCATION SUMMARY

Date	Sample number	Location/comments	Resident Address (if applicable)*
Quadrant 1			
12/11/95	1QSS01	94 feet southwest of Baugh; 30 feet southeast of 1st Street	Not Applicable
12/11/95	1QSS02	30 feet southeast of 1st Street; 39 feet southwest of Dutchers lane	Not Applicable
12/11/95	1QSS03	200 feet northwest of 2nd Street; 45 feet north of Bowman - in a park by a merry-go-round	Not Applicable
12/11/95	1QSS04	232 feet southeast of 1st Street; 64 feet north of Bowman - in park by swingset	Not Applicable
12/11/95	1QSS05	134 feet north of Bowman; 123 feet southeast of 1st - in park by a picnic bench	Not Applicable
12/11/95	1QSS06	266 feet southeast of 1st; 152 feet northeast of Bowman - in park in front of slide	Not Applicable
12/11/95	1QSS07	30 feet southeast of 1st; 91 feet southwest of Exchange	Not Applicable
12/11/95	1QSS08	43 feet southeast of 2nd; 118 feet northeast of Dutchers	Not Applicable
12/11/95	1QSS09	31 feet northeast of Dutchers; 339 feet southeast of 2nd	220 Rear Bowman
12/11/95	1QSS09D	31 feet northeast of Dutchers; 339 feet southeast of 2nd	220 Rear Bowman
12/11/95	1QSS10	32 feet southwest of Baugh; 115 feet southeast of 2nd	204 Baugh
12/11/95	1QSS11	101 feet northeast of edge of St.Clair; 20 feet northwest of 2nd	Not Applicable
12/11/95	1QSS12	23 feet northwest of 1st; 9 feet southwest of Pennsylvania	Not Applicable
Quadrant 2			
12/11/95	2QSS01	43 feet southwest of Exchange; 181 feet northwest of 2nd	122 Exchange
12/11/95	2QSS02	247 feet southeast of 2nd; 36 feet southwest of Exchange	218 Exchange
12/11/95	2QSS03	30 feet northwest of Exchange; 258 feet southeast of 3rd	319 Exchange
12/11/95	2QSS03D	30 feet northwest of Exchange; 258 feet southeast of 3rd	319 Exchange
12/11/95	2QSS04	24 feet northeast of Winstanley; 104 feet northwest of railroad tracks - bare soil by picnic bench in front yard	421 Winstanley
12/11/95	2QSS05	224 feet northwest of 4th; 34 feet southwest of Winstanley	320 Winstanley
12/11/95	2QSS06	184 feet northwest of 3rd; 25 feet southwest of Winstanley	222A Winstanley
12/11/95	2QSS07	26 feet northeast of Winstanley; 176 feet northwest of 2nd	121 Winstanley
12/11/95	2QSS08	238 feet southeast of 2nd; 34 feet northeast of Bowman	213 Bowman
12/11/95	2QSS09	56 feet northwest of 3rd; 50 feet southwest of Bowman	Not Applicable

Table 1
SAMPLE LOCATION SUMMARY

Date	Sample number	Location/comments	Resident Address (if applicable)*
12/12/95	2QSS10	43 feet northwest of 2nd; 114 feet southwest of Winstanley	Not Applicable
12/12/95	2QSS11	29 feet northeast of unnamed street between Winstanley and Exchange; 116 feet southeast of 2nd	Not Applicable
12/12/95	2QSS12	28 feet southeast of 2nd; 53 feet northeast of Exchange	Not Applicable
12/12/95	2QSS13	227 feet southwest of Exchange; 30 feet northwest of 2nd - across from North End Community Center	Not Applicable
12/12/95	2QSS14	42 feet northwest of 3rd; 63 feet southwest of alley between Exchange and Bowman	Not Applicable
12/12/95	2QSS15	24 feet northwest of 4th; 68 feet southwest of alley between Exchange and Winstanley	Not Applicable
12/12/95	2QSS15D	24 feet northwest of 4th; 68 feet southwest of alley between Exchange and Winstanley	Not Applicable
12/12/95	2QSS16	56 feet northeast of Exchange; 41 feet southeast of 7th	Not Applicable
12/12/95	2QSS17	18 feet northwest of 8th; 230 feet southwest of dead end	Not Applicable
12/12/95	2QSS18	191 feet southeast of 7th; 47 feet northeast of Exchange - adjacent to a vegetable garden	Not Applicable
12/12/95	2QSS19	38 feet southeast of 4th; 50 feet northeast of Exchange	1106 North 4th
12/12/95	2QSS20	101 feet northwest of 4th; 36 feet southwest of Exchange	Not Applicable
12/13/95	2QSS21	54 feet northwest of 7th; 156 feet southwest of Exchange	Not Applicable
12/13/95	2QSS22	219 feet southwest of Exchange; 25 feet northwest of 7th	Not Applicable
12/13/95	2QSS23	24 feet southwest of Exchange; 144 feet northwest of 7th	Not Applicable
Quadrant 3			
12/13/95	3QSS01	28 feet northeast of Ohio; 134 feet northwest of 6th	Not Applicable
12/13/95	3QSS02	43 feet northeast of Ohio; 20 feet northwest of 6th	Not Applicable
12/13/95	3QSS03	104 feet northeast of Ohio; 38 feet northwest of 6th	507 N. 6th
12/13/95	3QSS04	142 feet southwest of Summit; 40 feet southeast of 6th	540 N. 6th
12/13/95	3QSS04D	142 feet southwest of Summit; 40 feet southeast of 6th	540 N. 6th
12/13/95	3QSS05	29 feet southwest of Summit; 53 feet southeast of 6th	Not Applicable
12/13/95	3QSS06	76 feet northeast of Ohio; 20 feet northwest of 7th	Not Applicable
12/13/95	3QSS07	310 feet southwest of Summit; 31 feet southeast of 7th	Not Applicable
12/13/95	3QSS08	33 feet northeast of Summit; 45 feet northwest of 7th	Not Applicable

Table 1
SAMPLE LOCATION SUMMARY

Date	Sample number	Location/comments	Resident Address (if applicable)*
12/13/95	3QSS09	20 feet northwest of 8th; 267 feet southwest of Summit	Not Applicable
12/13/95	3QSS09D	20 feet northwest of 8th; 267 feet southwest of Summit	Not Applicable
12/13/95	3QSS10	38 feet northwest of 8th; 19 feet southwest of Summit	Not Applicable
12/13/95	3QSS11	23 feet northwest of 9th; 51 feet northeast of Summit	Not Applicable
12/13/95	3QSS12	20 feet southwest of Summit; 175 feet southeast of 7th	Not Applicable
12/13/95	3QSS13	19 feet southeast of 6th; 99 feet northeast of Summit	Not Applicable
12/13/95	3QSS14	30 feet southeast of 6th; 299 feet northeast of Summit	Not Applicable
12/13/95	3QSS15	24 feet southeast of 6th; 59 feet northeast of Pennsylvania	Not Applicable
12/13/95	3QSS16	190 feet southeast of 6th; 33 feet southwest of Pennsylvania	610 Pennsylvania
12/13/95	3QSS17	35 feet northwest of 7th; 298 feet northeast of Summit	629 7th
12/13/95	3QSS18	31 feet northeast of Pennsylvania; 40 feet southeast of 7th	Not Applicable
12/13/95	3QSS19	34 feet northeast of Pennsylvania; 145 feet southeast of 7th	709 Pennsylvania
12/13/95	3QSS19D	34 feet northeast of Pennsylvania; 145 feet southeast of 7th	709 Pennsylvania
12/13/95	3QSS20	33 feet southeast of 8th; 195 feet southwest of Pennsylvania	642 8th
Quadrant 4			
12/12/95	4QSS01	137 feet southwest of Winstanley; 40 feet northwest of 9th	Not Applicable
12/12/95	4QSS02	206 feet northeast of Exchange; 37 feet northwest of 9th	Not Applicable
12/12/95	4QSS03	56 feet southeast of 9th; 42 feet southwest of Walter	Not Applicable
12/12/95	4QSS04	65 feet southeast of 9th; 282 feet southwest of Walter	Not Applicable
12/12/95	4QSS05	180 feet northwest of 11th; 21 feet southwest of Walter	920 Walter
12/12/95	4QSS05D	180 feet northwest of 11th; 21 feet southwest of Walter	920 Walter
12/12/95	4QSS06	65 feet northeast of Pennsylvania; 44 feet southeast of 8th	Not Applicable
12/12/95	4QSS07	280 feet northeast of Pennsylvania; 36 feet northwest of 8th	Not Applicable
12/12/95	4QSS08	45 feet southeast of 8th; 248 feet southwest of St. Clair	Not Applicable
12/12/95	4QSS09	52 feet southeast of 9th; 97 feet southwest of edge of St. Clair	Not Applicable
12/12/95	4QSS10	42 feet southeast of 9th; 278 feet northeast of Pennsylvania	716 9th

Table 1
SAMPLE LOCATION SUMMARY

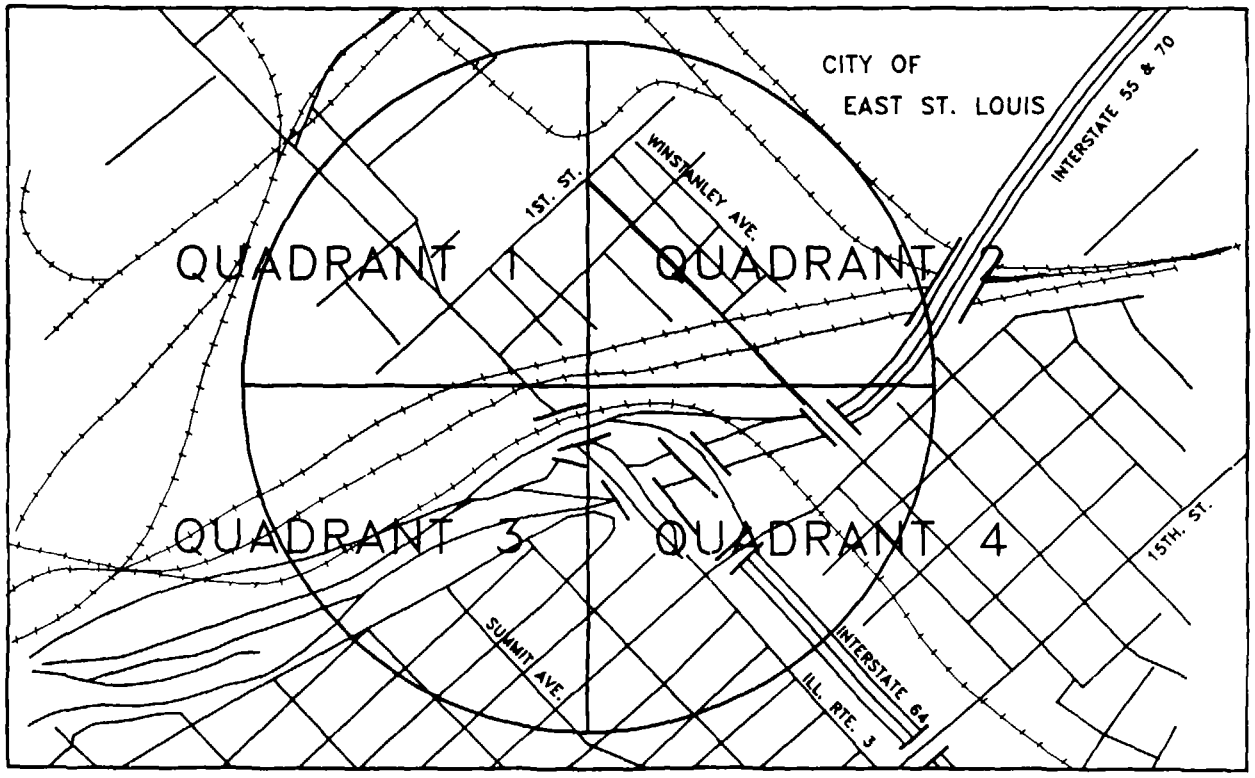
Date	Sample number	Location/comments	Resident Address (if applicable)*
12/12/95	4QSS11	35 feet northeast of Pennsylvania; 41 feet southeast of 9th	Not Applicable
12/12/95	4QSS12	111 feet southeast of 9th; 30 feet southwest of Pennsylvania	Not Applicable
12/12/95	4QSS13	30 feet southwest of Pennsylvania; 90 feet northwest of 10th	Not Applicable
12/12/95	4QSS14	44 feet southwest of Summit; 37 feet northwest of 10th - by Rock High School	Not Applicable
12/12/95	4QSS15	32 feet southeast of 10th; 435 feet southwest of Pennsylvania	620 10th
12/12/95	4QSS15D	32 feet southeast of 10th; 435 feet southwest of Pennsylvania	620 10th
12/12/95	4QSS16	37 feet southwest of Pennsylvania; 149 feet northwest of 11th	Not Applicable
12/12/95	4QSS17	34 feet northeast of Pennsylvania; 37 feet southeast of 11th	Not Applicable
12/12/95	4QSS18	362 feet northeast of Pennsylvania; 18 feet northwest of 11th	725 11th
12/12/95	4QSS19	101 feet southwest of St Clair; 31 feet northwest of 11th	Not Applicable
12/12/95	4QSS20	37 feet northwest of 10th; 556 feet southwest of St. Clair	715 10th
12/12/95	4QSS21	39 feet northwest of 10th; 101 feet southwest of St. Clair	Not Applicable
12/13/95	4QSS22	38 feet southeast of 7th; 391 feet northeast of Pennsylvania	726 7th
12/13/95	4QSS23	180 feet northwest of 13th; 38 feet northeast of Baugh	1123 Baugh
12/13/95	4QSS24	22 feet northwest of 11th; 85 feet northeast of Baugh	Not Applicable
12/13/95	4QSS25	19 feet northwest of 11th; 174 feet northeast of Baugh	Not Applicable

***Note: Residential addresses were recorded when samples were collected from specified residential yards with prior permission from the owner of the residence. Other samples were collected from areas owned by the City of East St. Louis, or from abandoned properties.**

ATTACHMENT B

SITE FIGURES

ZT490019



AREA LOCATION

SCALE (FT. APPROX.):

0 500 1000 2000

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FIGURE 1 STUDY AREA LOCATION MAP
GATEWAY INITIATIVE PROJECT
EAST ST. LOUIS, IL.

ZT4D001A

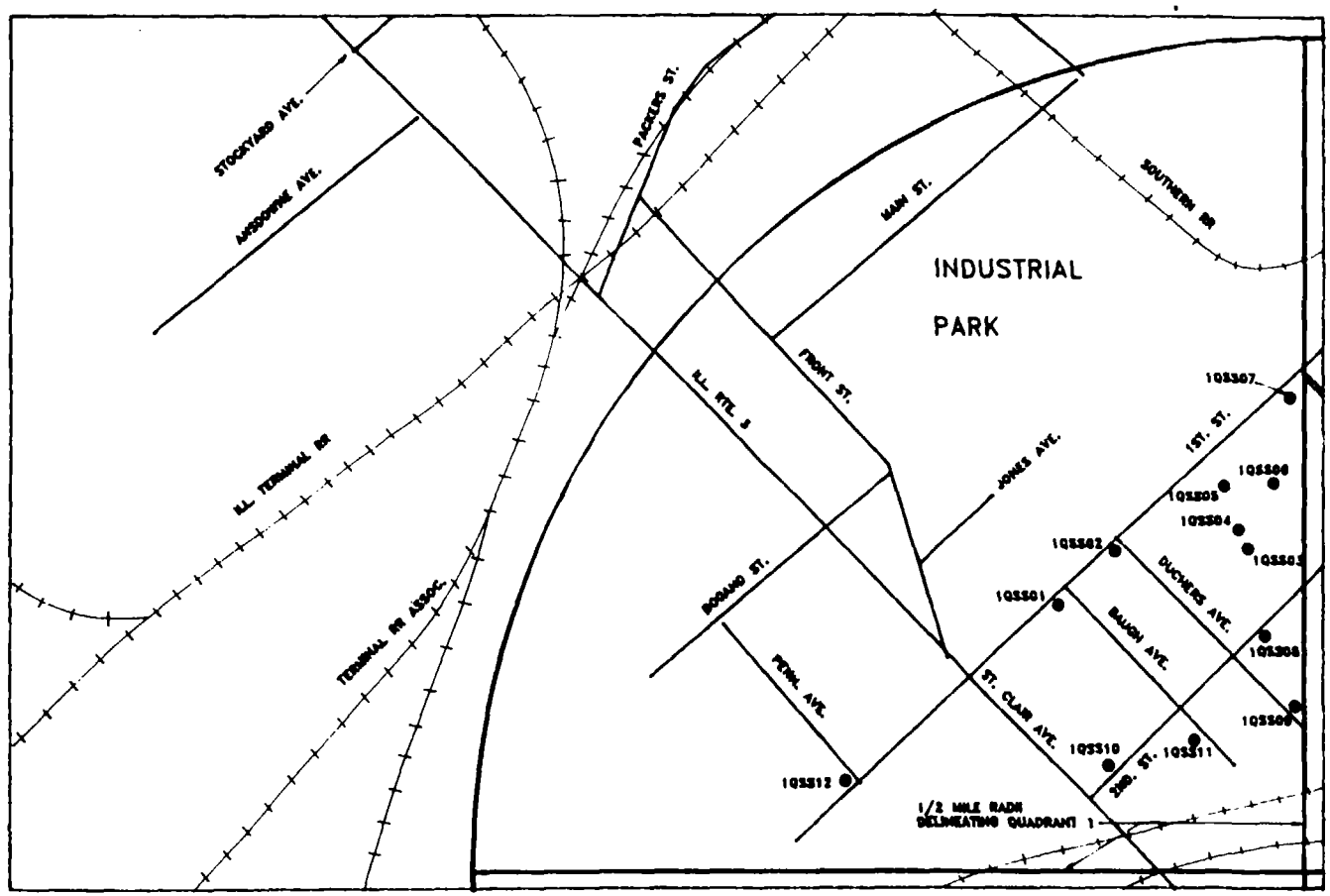

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FIGURE 2 – SOIL SAMPLE LOCATIONS
GATEWAY INITIATIVE – QUADRANT 1
EAST ST. LOUIS, ILLINOIS

ZT4D002A

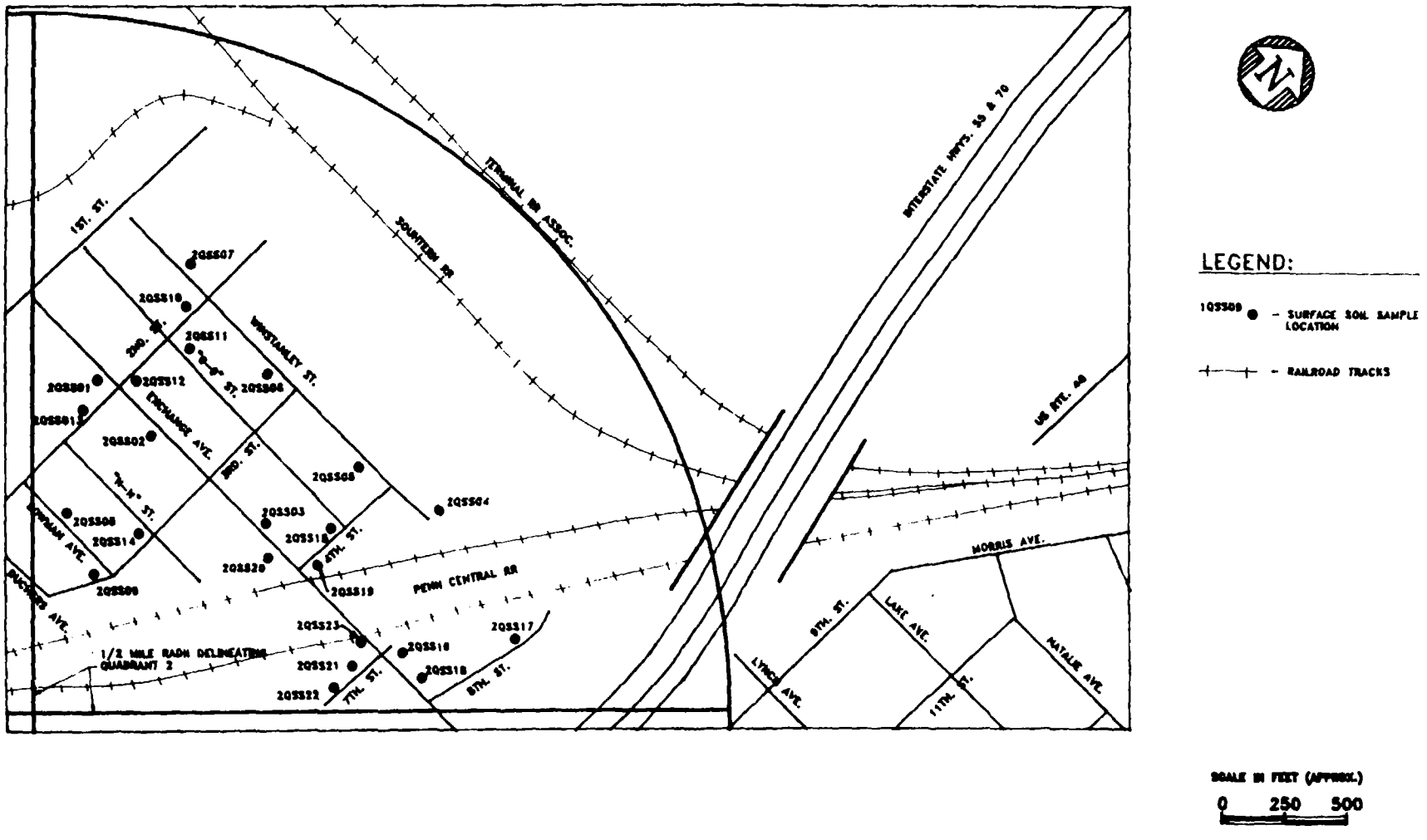

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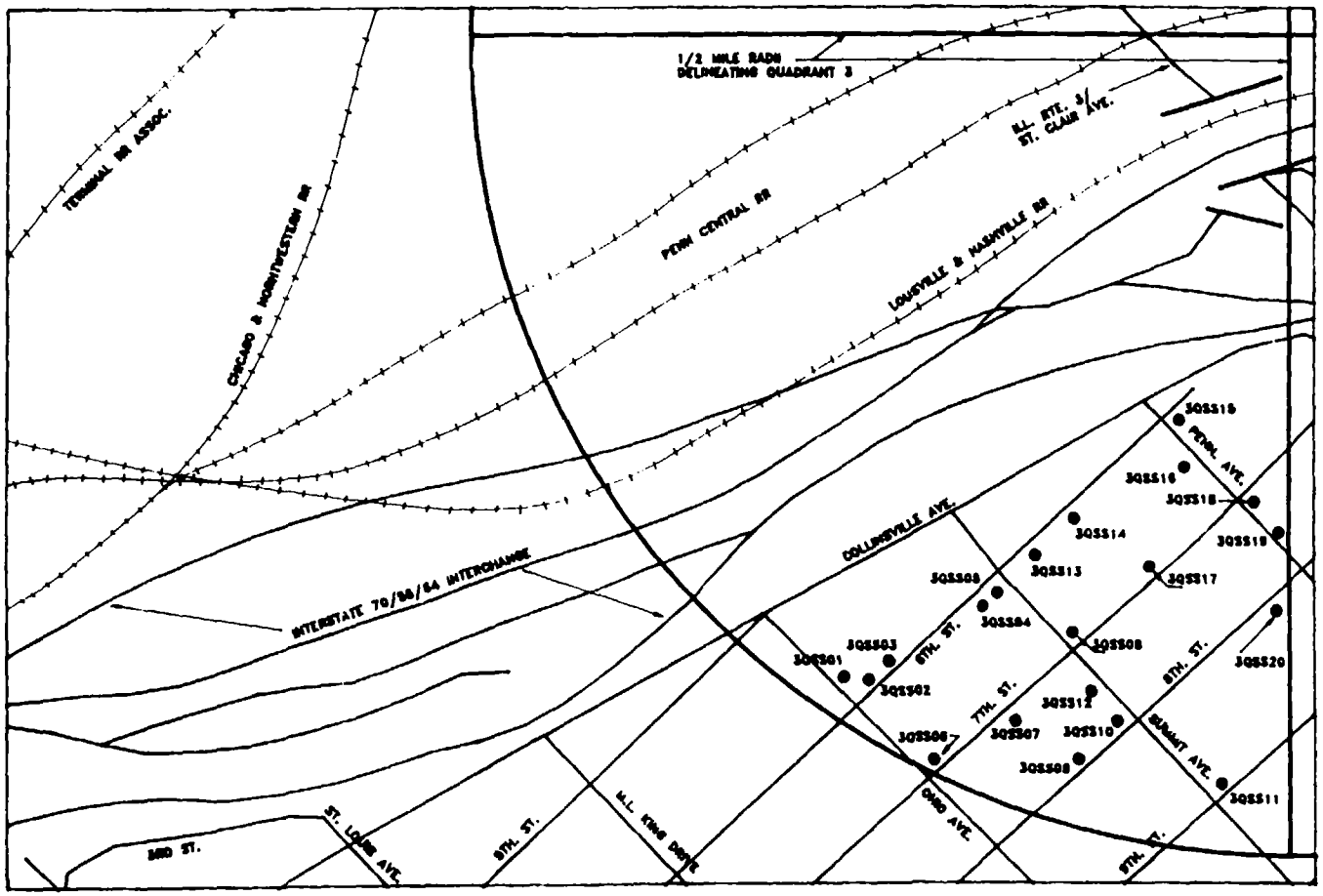
FIGURE 3 – SAMPLE LOCATIONS
GATEWAY INITIATIVE – QUADRANT 2
EAST ST. LOUIS, ILLINOIS

ZT40003A



LEGEND:

3QS509 ● - SURFACE SOIL SAMPLE LOCATION

+—+ - RAILROAD TRACKS

SCALE IN FEET (APPROX.)
0 250 500

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FIGURE 4 – SAMPLE LOCATIONS
GATEWAY INITIATIVE – QUADRANT 3
EAST ST. LOUIS, ILLINOIS

ZT40004A

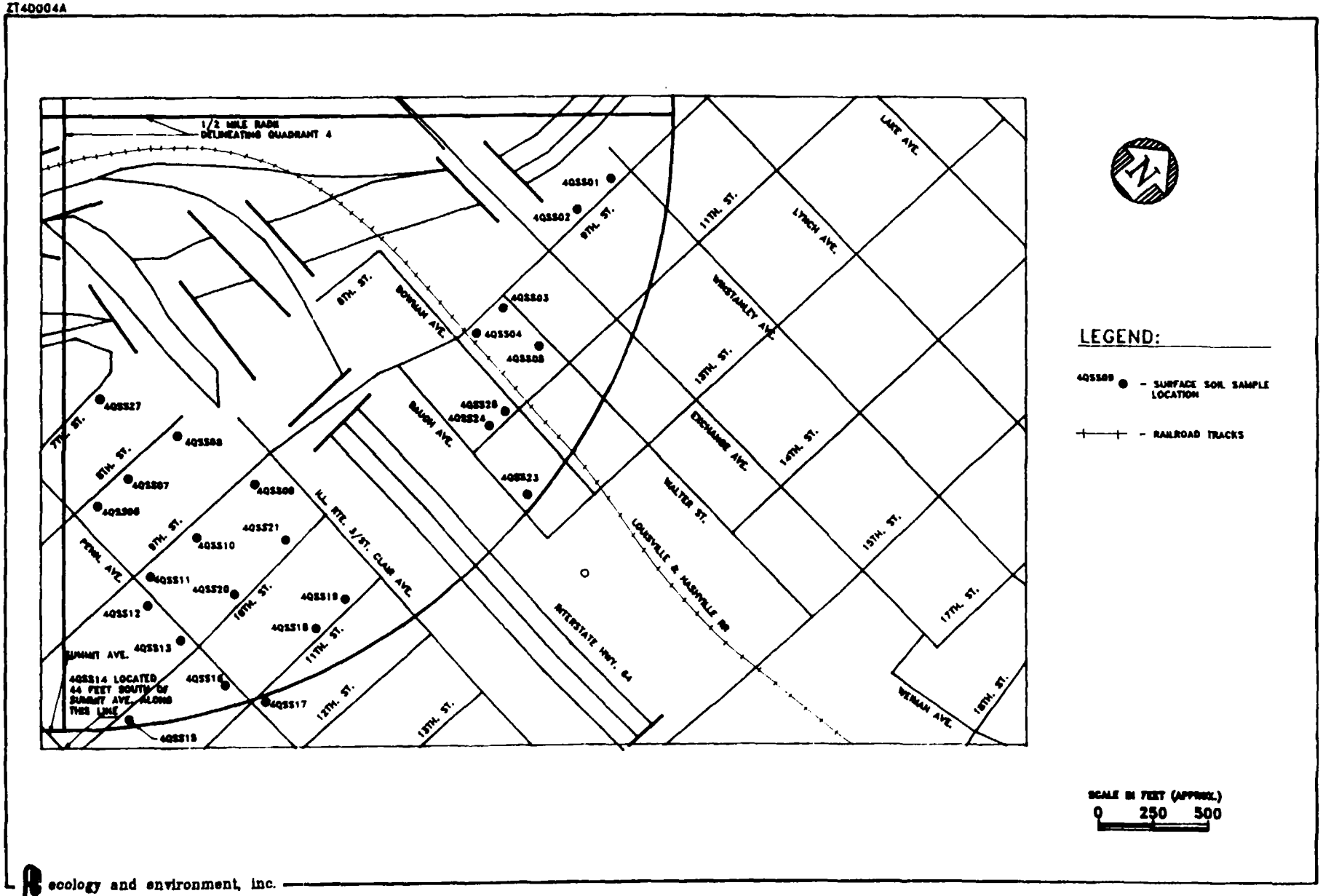

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FIGURE 5 – SAMPLE LOCATIONS
GATEWAY INITIATIVE – QUADRANT 4
EAST ST. LOUIS, ILLINOIS

ATTACHMENT C

SUMMARY OF SAMPLE ANALYTICAL RESULTS

Table 2

SUMMARY OF SAMPLE ANALYTICAL RESULTS

Sample	Parameter (mg/kg)					
	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc
1QSS01	7.5	2.8	169	481	39.4	1,560
1QSS02	6.5	2.7	145	636	38.3	1,320
1QSS03	8.4	0.44	37.6	114	20.1	279
1QSS04	6.8	1.3	34.4	116	17.8	313
1QSS05	8.9	2.3	51.3	177	21.7	472
1QSS06	5.2	0.91	23.5	100	15.1	217
1QSS07	8.2	3.3	207	634	48.5	2,010
1QSS08	8.4	1.2	58.3	382	26	543
1QSS09	6.5	U	49.2	111	22.4	479
1QSS09D	6.7	U	42.9	146	26.7	417
1QSS10	14.1	4	150	1,340	30.9	1,280
1QSS11	20.7	7.8	223	1,640	22.8	1,200
1QSS12	18.7	62.3	111	1,910	12.1	2,540
2QSS01	8	0.56	140	148	19.5	394
2QSS02	8.6	0.95	47.1	320	21	402
2QSS03	6.8	0.34	48.2	246	18	328
2QSS03D	6.6	0.23	50.7	279	17.6	326
2QSS04	8.6	4	69.1	332	22.3	578
2QSS05	64.8	2.5	378	825	42.1	1,670
2QSS06	8.9	1.2	67.4	437	26.2	700
2QSS07	9.9	U	42.7	235	25.5	385
2QSS08	8	1.7	51.3	507	22.3	926
2QSS09	9.1	0.79	64.6	1,080	23.4	1,480
2QSS10	6.3	U	31.4	225	17.8	238
2QSS11	7.1	0.25	61.4	370	17.7	576

Table 2

SUMMARY OF SAMPLE ANALYTICAL RESULTS

Sample	Parameter (mg/kg)					
	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc
2QSS12	1.6	U	99.9	570	23.1	736
2QSS13	6.1	U	97.2	521	20	580
2QSS14	7.9	3.7	34.4	154	21.2	251
2QSS15	9	0.99	62.8	390	24.2	619
2QSS15D	9.9	0.48	65.5	460	24.3	805
2QSS16	6.9	1.2	86.3	310	18.8	767
2QSS17	11.6	4.3	85.5	581	24.7	808
2QSS18	9	1.6	71.3	875	22.4	662
2QSS19	6.8	U	27	58.3	16.3	178
2QSS20	10.3	2.3	79	478	28	626
2QSS21	12.6	2.2	57.7	441	19.7	551
2QSS22	5.6	0.20	88.2	362	24.2	550
2QSS23	12.5	1.2	111	657	27.2	1,030
3QSS01	8.2	2.1	74.7	379	21	516
3QSS02	9.3	5.6	62.2	395	12.1	544
3QSS03	8.2	3.1	57.4	543	15.2	582
3QSS04	11	1.8	69.4	349	29.8	469
3QSS04D	11	1.5	66.9	328	32.5	448
3QSS05	10.1	2.1	66.6	424	24.2	587
3QSS06	7.6	2.4	48.9	232	21.1	414
3QSS07	8.7	4.2	94.8	621	26	822
3QSS08	21.7	1.2	54.9	330	21.2	287
3QSS09	13.3	8.1	113	746	25.7	1,020
3QSS09D	12.6	8.3	115	757	23.6	1,030
3QSS10	9.8	5.1	105	508	21.9	1,220

Table 2

SUMMARY OF SAMPLE ANALYTICAL RESULTS

Sample	Parameter (mg/kg)					
	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc
3QSS11	5.8	0.28	39.9	117	22.5	268
3QSS12	11.3	7	91.5	457	24.9	849
3QSS13	11.3	2.2	145	703	21.9	935
3QSS14	7.5	0.27	40	288	18	296
3QSS15	6.6	U	55.9	101	16.5	210
3QSS16	11.5	1.9	49.5	1,290	19.2	638
3QSS17	9.4	1.4	49.2	636	25	452
3QSS18	25.4	1.8	53.2	370	17.7	418
3QSS19	6.9	U	19.8	98	16.9	140
3QSS19D	7.1	U	19.4	92.8	17.2	131
3QSS20	12.0	3.6	63	551	18	542
4QSS01	18.4	1.8	134	1,580	224	1,010
4QSS02	11.7	2.5	69.3	3,680	22.3	883
4QSS03	13	U	45.4	151	25.7	277
4QSS04	9.8	3.9	121	938	19.8	1,220
4QSS05	8	4.4	197	675	28.7	993
4QSS05D	6.8	3.6	148	620	28.2	1,060
4QSS06	6.8	1.3	44.3	307	18.3	353
4QSS07	8.5	1.7	57.3	408	42.8	463
4QSS08	7.2	U	76.6	929	46.7	612
4QSS09	6.5	3.2	37.7	294	15	418
4QSS10	9	1.3	46.4	286	18	316
4QSS11	6.9	2.4	47.5	314	15.6	329
4QSS12	6.8	2.2	38.8	433	12.6	311
4QSS13	7.3	2.6	46.1	224	15.1	500

Table 2

SUMMARY OF SAMPLE ANALYTICAL RESULTS

Sample	Parameter (mg/kg)					
	Arsenic	Cadmium	Copper	Lead	Nickel	Zinc
4QSS14	5.3	0.94	30.1	116	12.5	234
4QSS15	9.8	10.5	111	837	19.9	948
4QSS15D	9.6	11.2	111	876	19.8	976
4QSS16	7.6	1	32.5	130	16.6	208
4QSS17	6.9	1.6	33.9	139	16.3	243
4QSS18	9.9	1	50.6	206	20.2	277
4QSS19	11.5	4.6	85	653	18.1	600
4QSS20	11.5	2.8	124	553	20.9	459
4QSS21	7	2.3	39.3	183	17.6	329
4QSS22	9.7	1.3	55.2	963	23	501
4QSS23	12.6	4.1	59.7	279	23.8	597
4QSS24	11.9	2.5	89.5	503	24.9	614
4QSS25	15.4	2.5	110	739	21.3	900

Key:

U = Undetected

ATTACHMENT D

LABORATORY DATA RESULTS

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Chicago, Illinois 60604
Tel: (312) 663-9415, Fax: (312) 663-0791

M E M O R A N D U M

DATE: December 27, 1995

TO: Dean Tiebout, E & E Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Arsenic, Cadmium, Copper, Nickel, Lead, and Zinc, Gateway Initiative, East St. Louis, St. Clair County, Illinois

REFERENCE: Project TDD T05-9512-001 Analytical TDD T05-9512-801
Project PAN EIL0903VAA Analytical PAN EIL0903AAA

The data quality assurance (QA) review of 20 soil samples collected from the Gateway Initiative site is complete. The samples were collected on December 11, 1995, by Ecology and Environment, Inc. (E & E) under a Technical Assistance Team (TAT) Technical Directive Document (TDD). The samples were submitted to Ecology and Environment Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 6010. All results are reported on a dry-weight basis.

Sample Identification

TAT Identification No.	Laboratory Identification No.
1QSS01	37296
1QSS02	37297
1QSS03	37298
1QSS04	37299
1QSS05	37300
1QSS06	37301
1QSS07	37302
1QSS08	37303
1QSS09	37304
1QSS09D	37305
1QSS10	37306

recycled paper

TAT Identification No.	Laboratory Identification No.
1QSS11	37307
1QSS12	37308
2QSS01	37309
2QSS02	37310
2QSS03	37311
2QSS03D	37312
2QSS04	37313
2QSS05	37314
2QSS06	37315

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on December 11, 1995, and analyzed on December 15, 1995. This is within the six-month limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90% to 110%, as required.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90% to 110% recoveries, as required.

III. Blanks: Acceptable

A method blank (preparation blank) was analyzed with each analytical batch. Trace levels of lead were detected in the preparation blank; all sample values for lead exceeded ten times the blank level and no qualification was required. No target analytes were detected in the calibration blanks.

IV. Instrument Interference Check Samples (ICSs): Acceptable

The ICSs were analyzed and all parameters were within established quality control limits.

V. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.

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111 West Jackson Boulevard
Chicago, Illinois 60604
Tel: (312) 663-9415, Fax: (312) 663-0791

M E M O R A N D U M

DATE: December 27, 1995

TO: Dean Tiebout, E & E Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Arsenic, Cadmium, Copper, Nickel, Lead, and Zinc, Gateway Initiative, East St. Louis, St. Clair County, Illinois

REFERENCE: Project TDD T05-9512-001 Analytical TDD T05-9512-801
Project PAN EIL0903VAA Analytical PAN EIL0903AAA

The data quality assurance (QA) review of 20 soil samples collected from the Gateway Initiative site is complete. The samples were collected on December 11 and 12, 1995, by Ecology and Environment, Inc. (E & E) under a Technical Assistance Team (TAT) Technical Directive Document (TDD). The samples were submitted to Ecology and Environment Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 6010. All results are reported on a dry-weight basis.

Sample Identification

TAT Identification No.	Laboratory Identification No.
2QSS07	37351
2QSS08	37352
2QSS09	37353
2QSS10	37355
2QSS11	37356
2QSS12	37357
2QSS13	37358
2QSS14	37359
2QSS15	37360
2QSS15D	37361
2QSS16	37362
2QSS17	37363

recycled paper

TAT Identification No.	Laboratory Identification No.
2QSS18	37364
2QSS19	37365
2QSS20	37366
4QSS01	37368
4QSS02	37369
4QSS03	37367
4QSS04	37370
4QSS05	37371

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on December 11 and 12, 1995, and analyzed on December 15, 1995. This is within the six-month limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90% to 110%, as required.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90% to 110% recoveries, as required.

III. Blanks: Acceptable

A method blank (preparation blank) was analyzed with each analytical batch. Trace levels of lead were detected in the preparation blank; all sample values for lead exceeded ten times the blank level and no qualification was required. No target analytes were detected in the calibration blanks.

IV. Instrument Interference Check Samples (ICSs): Acceptable

The ICSs were analyzed and all parameters were within established quality control limits.

V. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.

ecology and environment, inc.
International Specialists in the Environment

111 West Jackson Boulevard
Chicago, Illinois 60604
Tel: (312) 663-9415, Fax. (312) 663-0791

M E M O R A N D U M

DATE: December 27, 1995

TO: Dean Tiebout, E & E Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Arsenic, Cadmium, Copper, Nickel, Lead, and Zinc, Gateway Initiative, East St. Louis, St. Clair County, Illinois

REFERENCE: Project TDD T05-9512-001 Analytical TDD T05-9512-801
Project PAN EIL0903VAA Analytical PAN EIL0903AAA

The data quality assurance (QA) review of 20 soil samples collected from the Gateway Initiative site is complete. The samples were collected on December 12 and 13, 1995, by Ecology and Environment, Inc. (E & E) under a Technical Assistance Team (TAT) Technical Directive Document (TDD). The samples were submitted to Ecology and Environment Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 6010. All results are reported on a dry-weight basis.

Sample Identification

TAT Identification No.	Laboratory Identification No.
3QSS01	37461
3QSS02	37462
4QSS05D	37378
4QSS06	37379
4QSS07	37380
4QSS08	37381
4QSS09	37382
4QSS10	37383
4QSS11	37384
4QSS12	37385
4QSS13	37386

recycled paper

TAT Identification No.	Laboratory Identification No.
4QSS14	37387
4QSS15	37388
4QSS15D	37389
4QSS16	37390
4QSS17	37391
4QSS18	37392
4QSS19	37393
4QSS20	37394
4QSS21	37395

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on December 12 and 13, 1995, and analyzed on December 17 and 18, 1995. This is within the six-month limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90% to 110%, as required.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90% to 110% recoveries, as required.

III. Blanks: Acceptable

A method blank (preparation blank) was analyzed with each analytical batch. No target analytes were detected in the method or calibration blanks.

IV. Instrument Interference Check Samples (ICSs): Acceptable

The ICSs were analyzed and all parameters were within established quality control limits.

V. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.

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M E M O R A N D U M

DATE: December 27, 1995

TO: Dean Tiebout, E & E Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Arsenic, Cadmium, Copper, Nickel, Lead, and Zinc, Gateway Initiative, East St. Louis, St. Clair County, Illinois

REFERENCE: Project TDD T05-9512-001 Analytical TDD T05-9512-801
Project PAN EIL0903VAA Analytical PAN EIL0903AAA

The data quality assurance (QA) review of 20 soil samples collected from the Gateway Initiative site is complete. The samples were collected on December 13, 1995, by Ecology and Environment, Inc. (E & E) under a Technical Assistance Team (TAT) Technical Directive Document (TDD). The samples were submitted to Ecology and Environment Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 6010. All results are reported on a dry-weight basis.

Sample Identification

TAT Identification No.	Laboratory Identification No.
3QSS03	37463
3QSS04	37464
3QSS04D	37365
3QSS05	37366
3QSS06	37367
3QSS07	37368
3QSS08	37369
3QSS09	37370
3QSS09D	37371
3QSS10	37372
3QSS11	37373

recycled paper

TAT Identification No.	Laboratory Identification No.
3QSS12	37374
3QSS13	37375
3QSS14	37376
3QSS15	37377
3QSS16	37378
3QSS17	37379
3QSS18	37380
3QSS19	37381
3QSS19D	37382

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on December 13, 1995, and analyzed on December 19, 1995. This is within the six-month limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90% to 110%, as required.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90% to 110% recoveries, as required.

III. Blanks: Acceptable

A method blank (preparation blank) was analyzed with each analytical batch. A trace level of lead was detected in the preparation blank; all sample values exceeded ten times the preparation blank level and qualification was not required. No target compounds were detected in the calibration blanks.

IV. Instrument Interference Check Samples (ICSs): Acceptable

The ICSs were analyzed and all parameters were within established quality control limits.

V. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.2

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M E M O R A N D U M

DATE: December 27, 1995

TO: Dean Tiebout, E & E Project Manager, E & E, Chicago, Illinois

FROM: David Hendren, TAT Analytical Services Manager, E & E, Chicago, Illinois

THROUGH: Mary Jane Ripp, TAT QA Reports Manager, E & E, Chicago, Illinois

SUBJECT: Inorganic Data Quality Review for Arsenic, Cadmium, Copper, Nickel, Lead, and Zinc, Gateway Initiative, East St. Louis, St. Clair County, Illinois

REFERENCE: Project TDD T05-9512-001 Analytical TDD T05-9512-801
Project PAN EIL0903VAA Analytical PAN EIL0903AAA

The data quality assurance (QA) review of eight soil samples collected from the Gateway Initiative site is complete. The samples were collected on December 13, 1995, by Ecology and Environment, Inc. (E & E) under a Technical Assistance Team (TAT) Technical Directive Document (TDD). The samples were submitted to Ecology and Environment Inc., Analytical Services Center, Lancaster, New York. The laboratory analyses were performed according to the United States Environmental Protection Agency (U.S. EPA) Solid Waste 846 Method 6010. All results are reported on a dry-weight basis.

Sample Identification

TAT Identification No.	Laboratory Identification No.
2QSS21	37488
2QSS22	37489
2QSS23	37490
3QSS20	37483
4QSS22	37484
4QSS23	37485
4QSS24	37486
4QSS25	37487

recycled paper

Data Qualifications:

I. Sample Holding Time: Acceptable

The samples were collected on December 13, 1995, and analyzed on December 19, 1995. This is within the six-month limit.

II. Calibration:

- Initial Calibration: Acceptable

Recoveries for the initial calibration verification were within 90% to 110%, as required.

- Continuing Calibration: Acceptable

All analytes included in the continuing calibration verification standard were within 90% to 110% recoveries, as required.

III. Blanks: Acceptable

A method blank (preparation blank) was analyzed with each analytical batch. A trace level of lead was detected in the preparation blank; all sample values exceeded ten times the preparation blank level and qualification was not required. No target compounds were detected in the calibration blanks.

IV. Instrument Interference Check Samples (ICSs): Acceptable

The ICSs were analyzed and all parameters were within established quality control limits.

V. Overall Assessment of Data For Use: Acceptable

The overall usefulness of the data is based on criteria for QA Level II as outlined in the Office of Solid Waste and Emergency Response (OSWER) Directive 9360.4-01 (April 1990) Data Validation Procedures, Section 3.0, Metallic Inorganic Parameters. Based upon the information provided, the data are acceptable for use.

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS01

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37296

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.5			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.8			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	169			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	481			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	39.4			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1560			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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recycled paper

ecology and environment

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS02

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37297

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_		_		NR
7440-36-0	Antimony_		_		NR
7440-38-2	Arsenic__	6.5	_		P_
7440-39-3	Barium___		_		NR
7440-41-7	Beryllium		_		NR
7440-43-9	Cadmium__	2.7	_		P_
7440-70-2	Calcium__		_		NR
7440-47-3	Chromium_		_		NR
7440-48-4	Cobalt___		_		NR
7440-50-8	Copper___	145	_		P_
7439-89-6	Iron____		_		NR
7439-92-1	Lead____	636	_		P_
7439-95-4	Magnesium		_		NR
7439-96-5	Manganese		_		NR
7439-97-6	Mercury__		_		NR
7440-02-0	Nickel___	38.3	_		P_
7440-09-7	Potassium		_		NR
7782-49-2	Selenium_		_		NR
7440-22-4	Silver___		_		NR
7440-23-5	Sodium___		_		NR
7440-28-0	Thallium_		_		NR
7440-62-2	Vanadium_		_		NR
7440-66-6	Zinc____	1320	_		P_
	Cyanide__		_		NR
			_		

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS03

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37298

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _82.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.4			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.44	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	37.6			P
7439-89-6	Iron				NR
7439-92-1	Lead	114			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	20.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	279			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS04

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37299

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.8			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	34.4			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	116			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	17.8			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	313			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS05

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37300

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.9			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	51.3			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	177			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	472			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS06

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37301

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _90.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	5.2			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.91			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	23.5			P
7439-89-6	Iron_____				NR
7439-92-1	Lead_____	100			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	15.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	217			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS07

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37302

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.2			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	3.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	207			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	634			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	48.5			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	2010			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS08

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37303

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.4			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.2			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	58.3			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	382			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	26.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	543			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS09

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37304

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _80.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.5			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.04	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	49.2			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	111			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.4			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	479			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS09D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37306

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _81.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.7			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.04	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	42.9			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	146			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	26.7			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	417			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS10

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37305

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	14.1			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.0			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	150			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	1340			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	30.9			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1280			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS11

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37307

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	20.7			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	7.8			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	223			P_
7439-89-6	Iron_____				NR
7439-92-1	Lead_____	1640			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.8			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	1200			P_
_____	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

1QSS12

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37308

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _77.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	18.7			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	62.3			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	111			P_
7439-89-6	Iron_____				NR
7439-92-1	Lead_____	1910			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	12.1			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	2540			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS01

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37309

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.0			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.56	B		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	140			P_
7439-89-6	Iron_____				NR
7439-92-1	Lead_____	148			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	19.5			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	394			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

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EPA SAMPLE NO.

2QSS02

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37310

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.6			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.95			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	47.1			P
7439-89-6	Iron				NR
7439-92-1	Lead	320			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	21.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	402			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS03

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37311

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.8			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.34	B		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	48.2			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	246			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	18.0			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	328			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS03D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37312

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.6			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.23	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	50.7			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	279			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	17.6			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	326			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS04

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37313

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _87.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.6			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.0			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	69.1			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	332			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.3			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	578			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS05

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37314

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _69.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	64.8			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.5			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	378			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	825			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	42.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1670			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS06

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.852 SAS No.: _____ SDG No.: 37296_

Matrix (soil/water): SOIL_ Lab Sample ID: 37315

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.9			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.2			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	67.4			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	437			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	26.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	700			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS07

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37351

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.9		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.03	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	42.7		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	235		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	25.5			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	385		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS08

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37352

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.0		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.7			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	51.3		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	507		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.3			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	926		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS09

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37353

Level (low/med): LOW__ Date Received: 12/12/95

% Solids: _79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.1		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.79			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	64.6		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	1080		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	23.4			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1480		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS10

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37355

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.3		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.03	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	31.4		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	225		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	17.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	238		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS11

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37356

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.1		*	P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.25	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	61.4		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	370		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	17.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	576		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS12

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37357

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	1.6		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.03	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	99.9		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	570		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	23.1			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	736		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS13

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37358

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.1		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.03	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	97.2		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	521		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	20.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	580		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

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EPA SAMPLE NO.

2QSS14

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37359

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.9		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	3.7			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	34.4		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	154		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	251		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS15

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37360

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _79.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.0		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.99			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	62.8		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	390		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	24.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	619		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS15D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37361

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _79.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.9		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.48	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	65.5		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	460		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	24.3			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	805		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS16

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37362

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.9		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	86.3		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	310		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	18.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	767		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS17

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37363

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.6		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	85.5		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	581		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	24.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	808		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS18

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37364

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.0		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.6			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	71.3		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	875		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.4			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	662		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS19

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37365

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _83.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.8		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.04	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	27.0		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	58.3		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	16.3			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	178		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS20

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37366

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _83.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	10.3		*	P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	79.0		EN	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	478		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	28.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	626		*	P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS21

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37488

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _81.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	12.6			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.2			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	57.7		*	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	441			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	19.7			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	551			P_
_____	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS22

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37489

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	5.6			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.20	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	88.2		*	P
7439-89-6	Iron_____				NR
7439-92-1	Lead____	362			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	24.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	550			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2QSS23

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37490

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	12.5			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.2			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	111		*	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	657			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	27.2			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1030			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS01

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37461

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.2			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.1			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	74.7		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	379		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.0			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	516			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS02

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37462

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.3			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	5.6			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	62.2		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	395		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	12.1			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	544			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS03

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37463

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _78.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.2			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	3.1			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	57.4			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	543		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	15.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	582			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS04

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37464

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.0			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.8			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	69.4			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	349		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	29.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	469			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS04D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37465

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.0			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	66.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	328		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	32.5			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	448			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS05

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37466

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _83.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	10.1			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.1			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	66.6			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	424		E	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	24.2			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	587			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS06

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37467

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.6			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	48.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	232		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	21.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	414			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS07

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37468

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.7			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.2			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	94.8			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	621		E	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	26.0			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	822			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS08

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37469

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	21.7			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.2			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	54.9			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	330		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	287			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS09

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37470

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	13.3			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	8.1			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	113			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	746		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	25.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1020			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS09D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37471

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _76.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	12.6			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	8.3			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	115			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	757		E	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	23.6			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1030			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS10

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37472

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.8			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	5.1			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	105			P
7439-89-6	Iron_____				NR
7439-92-1	Lead_____	508		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc_____	1220			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS11

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37473

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	5.8			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.28	B		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	39.9			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	117		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	22.5			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	268			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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EPA SAMPLE NO.

3QSS12

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37474

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _72.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.3			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	7.0			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	91.5			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	457		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	24.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	849			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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EPA SAMPLE NO.

3QSS13

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37475

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.3			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.2			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	145			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	703		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	21.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	935			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

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EPA SAMPLE NO.

3QSS14

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37476

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _85.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.5			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.27	B		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	40.0			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	288		E	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	18.0			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	296			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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EPA SAMPLE NO.

3QSS15

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37477

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.6			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.04	U		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	55.9			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	101		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	16.5			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	210			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS16

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37478

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _91.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.5			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.9			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	49.5			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	1290		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	19.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	638			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS17

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37479

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.4			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	49.2			P
7439-89-6	Iron				NR
7439-92-1	Lead	636		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	25.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	452			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS18

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37480

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	25.4			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.8			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	53.2			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	370		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	17.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	418			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS19

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37481

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _81.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.9			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.04	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	19.8			P
7439-89-6	Iron				NR
7439-92-1	Lead	98.0		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	16.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	140			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS19D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.878 SAS No.: _____ SDG No.: 37463_

Matrix (soil/water): SOIL_ Lab Sample ID: 37482

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.1			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.04	U		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	19.4			P
7439-89-6	Iron____				NR
7439-92-1	Lead____	92.8		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	17.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	131			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

3QSS20

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37483

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	12.0			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	63.0		*	P
7439-89-6	Iron				NR
7439-92-1	Lead	551			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	18.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	542			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS01

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37368

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	18.4		*	P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.8			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	134		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	1580		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	224			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	1010		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS02

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37369

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.7		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	69.3		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	3680		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	22.3			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	883		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS03

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37367

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _88.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	13.0		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.03	U		P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	45.4		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	151		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	25.7			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	277		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS04

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37370

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _87.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	9.8		*	P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	121		EN	P
7439-89-6	Iron				NR
7439-92-1	Lead	938		*	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	19.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	1220		*	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS05

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.862 SAS No.: _____ SDG No.: 37351_

Matrix (soil/water): SOIL_ Lab Sample ID: 37371

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _49.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.0		*	P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.4			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	197		EN	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	675		*	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	28.7			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	993		*	P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: M_____

Color After: CL_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS05D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37378

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _59.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	148		N	P
7439-89-6	Iron				NR
7439-92-1	Lead	620		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	28.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	1060			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS06

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37379

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.8			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	44.3		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	307		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	18.3			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	353			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS07

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37380

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _77.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	8.5			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.7			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	57.3		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	408		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	42.8			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	463			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS08

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37381

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.2			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.03	U		P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	76.6		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	929		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	46.7			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	612			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS09

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37382

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _82.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.5			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.2			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	37.7		N	P
7439-89-6	Iron				NR
7439-92-1	Lead	294		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	15.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	418			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS10

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37383

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.0			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	46.4		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	286		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	18.0			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	316			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS11

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37384

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.9			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.4			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt__				NR
7440-50-8	Copper__	47.5		N	P
7439-89-6	Iron__				NR
7439-92-1	Lead__	314		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel__	15.6			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver__				NR
7440-23-5	Sodium__				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc__	329			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS12

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37385

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.8			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.2			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	38.8		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	433		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	12.6			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	311			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS13

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37386

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.3			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.6			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	46.1		N	P
7439-89-6	Iron				NR
7439-92-1	Lead	224		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	15.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	500			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS14

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37387

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _85.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	5.3			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	0.94			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	30.1		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	116		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	12.5			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	234			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS15

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37388

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.8			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	10.5			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	111		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	837		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	19.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	948			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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TAT - CHICAGO

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS15D

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37389

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _83.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.6			P_
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	11.2			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	111		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	876		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	19.8			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	976			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS16

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37390

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _86.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	7.6			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.0			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	32.5		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	130		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	16.6			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	208			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS17

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37391

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	6.9			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.6			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	33.9		N	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	139		N	P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	16.3			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	243			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS18

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37392

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.9			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.00			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	50.6		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	206		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	20.2			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	277			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS19

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37393

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.5			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.6			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	85.0		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	653		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	18.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	600			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:
ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS20

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37394

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	11.5			P
7440-39-3	Barium__				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	2.8			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	124		N	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	553		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	20.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	459			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS21

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.867 SAS No.: _____ SDG No.: 37378_

Matrix (soil/water): SOIL_ Lab Sample ID: 37395

Level (low/med): LOW__ Date Received: 12/13/95

% Solids: _80.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.0			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.3			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	39.3		N	P
7439-89-6	Iron				NR
7439-92-1	Lead	183		N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	17.6			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	329			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS22

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37484

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	9.7			P
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	1.3			P
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	55.2		*	P
7439-89-6	Iron____				NR
7439-92-1	Lead____	963			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	23.0			P
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	501			P
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

ARTIFACTS_=_ROCKS,_STICKS,_LEAVES

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TAT - CHICAGO

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS23

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37485

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _90.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__	12.6			P_
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__	4.1			P_
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	59.7		*	P_
7439-89-6	Iron____				NR
7439-92-1	Lead____	279			P_
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	23.8			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	597			P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

4QSS24

Lab Name: ECOLOGY_AND_ENVIRONMENT__ Contract: _____

Lab Code: EANDE_ Case No.: 9502.879 SAS No.: _____ SDG No.: 37483_

Matrix (soil/water): SOIL_ Lab Sample ID: 37486

Level (low/med): LOW__ Date Received: 12/14/95

% Solids: _90.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	11.9			P
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper	89.5		*	P
7439-89-6	Iron				NR
7439-92-1	Lead	503			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	24.9			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	614			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: H_____

Color After: Y_____ Clarity After: C_____ Artifacts: YES___

Comments:

_____ARTIFACTS_=_ROCKS,_STICKS,_LEAVES_____

FORM I - IN ILM03.0