Accredited Laboratories, Inc.
Foot of Pershing Avenue, P.O. Box 369
Carteret, New Jersey 07008-0369
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ANALYTICAL DATA REPORT

for

Guardian Environmental Service
1280 Porter Road
Bear, DE 19701

Project: NL/Dutch Boy

ACCREDITED LABORATORIES CASE No.: 2916
DATE RECEIVED: 4/12/93

Field ID	Laboratory Sample #
BHC-1	9302500
BHC-2	9302501
BHC-3	9302502
BHC-4	9302503
BHC-5	9302504
BHC-6	9302505
BHC-7	9302506
BHC-8	9302507
BHC-9	9302508

Accredited Laboratories, Inc. New Jersey Certification Number 12486. This data has been reviewed and accepted by:

Yun-shen Lee, Ph.D. 4/26/93
Technical Director

YSL:jp

346805

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NON-CONFORMANCE SUMMARY

Accredited Labs received 9 solid samples (Project: NL/Dutch Boy; ALI Case #2916) from Guardian Environmental Service on 4/12/93 for the analyses of Metals and TCLP Metals.

All analyses were performed within the required holding time.

All solid analyses were reported on a dry weight basis.

STATE OF NEW JERSEY

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Let's protect our earth

Certifies That

Accredited Laboratories Inc.
Industrial Hygiene & Env. Lab
400 Middlesex Avenue
Carteret, NJ 07008

having duly met the requirements of the

Regulations Governing Laboratory Certification
And Standards Of Performance N.J.A.C. 7:18 et. seq.

is hereby approved as a

State Certified Water Laboratory

To perform the analyses as indicated on the Annual Certified Parameter List
which must accompany this certificate to be valid

12486
PERMANENT CERTIFICATION NUMBER

March 11, 1987
DATE

COMMISSIONER
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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This certification is subject to unannounced laboratory inspections as specified by N.J.A.C. 7:18-2.11(d) and agreed to by the Laboratory Manager on filing the application

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-1

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302500
Date Received: 04/12/93

% Solids: 92.3

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	138		F
7440-39-3	Barium	182		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	18.2		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	141		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	9250		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	8.4		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	30.8		F
7440-22-4	Silver	60.8		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX:SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
F -- analyzed by GFA
P -- analyzed by ICP
A -- analyzed by flame AA
CV -- analyzed by cold vapor
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-1

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302500

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.48	B	P	100.00
7440-43-9	Cadmium	0.15		P	1.00
7440-47-3	Chromium	0.02	B	P	5.00
7439-92-1	Lead	104		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-2

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302501
Date Received: 04/12/93

% Solids: 87.9

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	290		P
7440-39-3	Barium	172		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	9.4		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	113		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	10400		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	1.4		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	46.5		F
7440-22-4	Silver	30.0		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX:SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-2

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302501

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.64		P	100.00
7440-43-9	Cadmium	0.14		P	1.00
7440-47-3	Chromium	0.03	B	P	5.00
7439-92-1	Lead	143		P	5.00
7439-97-6	Mercury	0.00	B	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-3

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302502
Date Received: 04/12/93

% Solids: 88.5

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	203		P
7440-39-3	Barium	159		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	7.8		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	40.8		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	5410		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	1.2		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	10.1		F
7440-22-4	Silver	31.1		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-3

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302502

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.56		P	100.00
7440-43-9	Cadmium	0.10		P	1.00
7440-47-3	Chromium	0.04	B	P	5.00
7439-92-1	Lead	59.0		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-4

Client : GES

Case No.: 2916

Matrix (soil/water): SOIL

Lab Sample ID: 9302503

Date Received: 04/12/93

% Solids: 93.4

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	361		P
7440-39-3	Barium	192		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	13.9		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	256		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	16200		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	4.6		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	5.0		F
7440-22-4	Silver	56.5		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:

MATRIX: SOLID

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-4

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302503

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.25	B	P	100.00
7440-43-9	Cadmium	0.18		P	1.00
7440-47-3	Chromium	0.03	B	P	5.00
7439-92-1	Lead	138		P	5.00
7439-97-6	Mercury	0.00		CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-5

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302504
Date Received: 04/12/93

% Solids: 92.3

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	569		P
7440-39-3	Barium	198		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	24.5		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	229		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	25200		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	5.6		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	4.1		F
7440-22-4	Silver	70.6		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

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ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-5

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302504

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.13		P	5.00
7440-39-3	Barium	0.43	B	P	100.00
7440-43-9	Cadmium	0.27		P	1.00
7440-47-3	Chromium	0.02	B	P	5.00
7439-92-1	Lead	72.0		P	5.00
7439-97-6	Mercury	0.00	B	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	B	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-6

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302505
Date Received: 04/12/93

% Solids: 89.5

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	622		P
7440-39-3	Barium	192		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	19.0		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	158		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	41200		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	2.2		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	68.2		P
7440-22-4	Silver	115		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-6

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302505

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.47	B	P	100.00
7440-43-9	Cadmium	0.13		P	1.00
7440-47-3	Chromium	0.02	B	P	5.00
7439-92-1	Lead	434		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-7

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302506
Date Received: 04/12/93

% Solids: 85.2

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	730		P
7440-39-3	Barium	142		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	13.0		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	43.3		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	37700		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	4.7		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	119		P
7440-22-4	Silver	143		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-7

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302506

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.19	B	P	100.00
7440-43-9	Cadmium	0.13		P	1.00
7440-47-3	Chromium	0.01	B	P	5.00
7439-92-1	Lead	197		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-8

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302507
Date Received: 04/12/93

% Solids: 84.7

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	745		P
7440-39-3	Barium	140		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	11.1		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	39.6		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	28300		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	3.5		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	75.1		P
7440-22-4	Silver	119		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-8

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302507

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.13		P	5.00
7440-39-3	Barium	0.06	B	P	100.00
7440-43-9	Cadmium	0.10		P	1.00
7440-47-3	Chromium	0.01	U	P	5.00
7439-92-1	Lead	170		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

INORGANIC ANALYSIS DATA SHEET

FIELD ID.

BHC-9

Client : GES
Case No.: 2916
Matrix (soil/water): SOIL

Lab Sample ID: 9302508
Date Received: 04/12/93

% Solids: 95.0

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

CAS No.	Analyte	Concentration	C	M
7429-90-5	Aluminum			NR
7440-36-0	Antimony			NR
7440-38-2	Arsenic	321		P
7440-39-3	Barium	198		P
7440-41-7	Beryllium			NR
7440-43-9	Cadmium	9.1		P
7440-70-2	Calcium			NR
7440-47-3	Chromium	115		P
7440-48-4	Cobalt			NR
7440-50-8	Copper			NR
7439-89-6	Iron			NR
7439-92-1	Lead	11300		P
7439-95-4	Magnesium			NR
7439-96-5	Manganese			NR
7439-97-6	Mercury	0.95		CV
7440-02-0	Nickel			NR
7440-09-7	Potassium			NR
7782-49-2	Selenium	6.8		F
7440-22-4	Silver	40.8		P
7440-23-5	Sodium			NR
7440-28-0	Thallium			NR
7440-62-2	Vanadium			NR
7440-66-6	Zinc			NR
	Molybdenu			NR
	Titanium			NR
	Silicon			NR

Comments:
MATRIX: SOLID

Qualifiers:
B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS

FIELD ID.

BHC-9

Client : GES

Case No.: 2916

Matrix (soil/extract): EXTRACT

Lab Sample ID: 9302508

Date Received: 04/12/93

Concentration Units (mg/L): MG/L

CAS No.	Analyte	Concentration	C	M	Regulatory Level
7440-38-2	Arsenic	0.04	U	P	5.00
7440-39-3	Barium	0.37	B	P	100.00
7440-43-9	Cadmium	0.26		P	1.00
7440-47-3	Chromium	0.02	B	P	5.00
7439-92-1	Lead	125		P	5.00
7439-97-6	Mercury	0.00	U	CV	0.20
7782-49-2	Selenium	0.13	U	P	1.00
7440-22-4	Silver	0.01	U	P	5.00

Comments:

Qualifiers:

B -- greater than the IDL but less than the MDL
U -- less than the IDL
P -- analyzed by ICP
CV -- analyzed by cold vapor
F -- analyzed by GFA
A -- analyzed by flame AA
NR -- analysis not requested

METHODOLOGY SUMMARY

Metals (soil)

A 1-5 gram portion of soil is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the flame AA or ICAP of Ag, Al, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Sb, Sn, Tl and Zn. Diluted nitric acid is employed as the final dilution acid for the furnace AA analysis of As, Pb and Se. For the graphite furnace analysis, an aliquot of the digestate is spiked with nickel nitrate solution and is placed into the graphite furnace. The aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. For mercury analysis, a 0.5-1.0 gram portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system. The analytical procedures are derived from "EPA Methods for Evaluating Solid Waste, 3rd Edition, 1986" The AA technique is specified in Method 7000 series. The ICAP technique is specified in Method 6010.

Toxic Characteristic Leaching Procedure - TCLP (EPA Method 1311)

Before the leaching procedure can be initiated, the information regarding the wet % and dry % solid of the solid sample as well as the utilization of extraction fluid, either #1 or #2, must be determined.

For the Metal Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass or plastic extraction bottle and then rotated at 30 +/- 2 rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Metals in the leachate is determined by EPA Method 7471 for mercury, Method 7060 for arsenic, Method 7740 for selenium and Method 6010 (ICAP) and/or Method 7000's (Flame-AA) for the rest of metals.

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony	10000.0	10800.00	108.0	5000.0	4660.00	93.2	4900.00	98.0	P
Arsenic	10000.0	10600.00	106.0	5000.0	4770.00	95.4	4890.00	97.8	P
Barium	10000.0	10300.00	103.0	5000.0	4660.00	93.2	4870.00	97.4	P
Beryllium	10000.0	10200.00	102.0	5000.0	4690.00	93.8	4920.00	98.4	P
Cadmium	10000.0	10100.00	101.0	5000.0	4680.00	93.6	4690.00	93.8	P
Calcium									NR
Chromium	10000.0	10000.00	100.0	5000.0	4570.00	91.4	4680.00	93.6	P
Cobalt									NR
Copper	10000.0	10200.00	102.0	5000.0	4660.00	93.2	4870.00	97.4	P
Iron									NR
Lead	10000.0	10400.00	104.0	5000.0	4800.00	96.0	4770.00	95.4	P
Magnesium									NR
Manganese									NR
Mercury	2.0	2.07	103.5	2.0	2.03	101.5	1.77	88.5	CV
Nickel	10000.0	10400.00	104.0	5000.0	4760.00	95.2	4870.00	97.4	P
Potassium									NR
Selenium	10000.0	10600.00	106.0	5000.0	4640.00	92.8	4960.00	99.2	P
Silver	1000.0	1010.00	101.0	500.0	476.00	95.2	492.00	98.4	P
Sodium									NR
Thallium	10000.0	10400.00	104.0	5000.0	4750.00	95.0	4720.00	94.4	P
Vanadium	10000.0	9760.00	97.6	5000.0	4490.00	89.8	4650.00	93.0	P
Zinc	10000.0	10000.00	100.0	5000.0	4500.00	90.0	4690.00	93.8	P
Molybdenu	10000.0	10300.00	103.0	5000.0	4750.00	95.0	4870.00	97.4	P
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony				5000.0	4880.00	97.6			P
Arsenic				5000.0	4610.00	92.2			P
Barium				5000.0	4880.00	97.6			P
Beryllium				5000.0	4930.00	98.6			P
Cadmium				5000.0	4730.00	94.6			P
Calcium									NR
Chromium				5000.0	4710.00	94.2			P
Cobalt									NR
Copper				5000.0	4890.00	97.8			P
Iron									NR
Lead				5000.0	4890.00	97.8			P
Magnesium									NR
Manganese									NR
Mercury				2.0	2.16	108.0			CV
Nickel				5000.0	4880.00	97.6			P
Potassium									NR
Selenium				5000.0	4910.00	98.2			P
Silver				500.0	491.00	98.2			P
Sodium									NR
Thallium				5000.0	4500.00	90.0			P
Vanadium				5000.0	4660.00	93.2			P
Zinc				5000.0	4690.00	93.8			P
Molybdenu				5000.0	4880.00	97.6			P
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony	10000.0	10900.00	109.0	5000.0	5190.00	103.8	4920.00	98.4	P
Arsenic	100.0	103.00	103.0	100.0	101.00	101.0			F
Barium									NR
Beryllium									NR
Cadmium	10000.0	11000.00	110.0	5000.0	5460.00	109.2	5460.00	109.2	P
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	10300.00	103.0	5000.0	4880.00	97.6	4820.00	96.4	P
Magnesium									NR
Manganese									NR
Mercury	2.0	2.17	108.5	2.0	2.00	100.0	2.09	104.5	CV
Nickel									NR
Potassium									NR
Selenium	100.0	104.00	104.0	100.0	102.00	102.0	101.00	101.0	F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony				5000.0	4870.00	97.4			P
Arsenic	100.0	99.00	99.0	100.0	99.00	99.0			F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				5000.0	4720.00	94.4			P
Magnesium									NR
Manganese									NR
Mercury				2.0	1.98	99.0	2.00	100.0	CV
Nickel									NR
Potassium									NR
Selenium	100.0	106.00	106.0	100.0	106.00	106.0			F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	2.0	2.04	102.0	2.0	1.85	92.5	1.78	89.0	CV
Nickel									NR
Potassium									NR
Selenium	100.0	103.00	103.0	100.0	103.00	103.0			F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930415B__

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	10100.00	101.0	5000.0	4800.00	96.0			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
Titanium									NR
Silicon									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115;

FORM II (PART 1) - IN

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930423T

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Arsenic	10000.0	10500.00	105.0	5000.0	4970.00	99.4	5110.00	102.2	P
Barium	10000.0	10900.00	109.0	5000.0	4930.00	98.6	4930.00	98.6	P
Cadmium	10000.0	10900.00	109.0	5000.0	4750.00	95.0	4830.00	96.6	P
Chromium	10000.0	10800.00	108.0	5000.0	4600.00	92.0	4660.00	93.2	P
Lead	10000.0	10900.00	109.0	5000.0	4630.00	92.6	4740.00	94.8	P
Mercury	2.0	2.12	106.0	2.0	1.94	97.0	1.80	90.0	CV
Selenium	10000.0	10400.00	104.0	5000.0	4720.00	94.4	5050.00	101.0	P
Silver	1000.0	1070.00	107.0	500.0	488.00	97.6	495.00	99.0	P

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930423T

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Arsenic									NR
Barium				5000.0	5370.00	107.4	5140.00	102.8	P
Cadmium				5000.0	5120.00	102.4	5050.00	101.0	P
Chromium				5000.0	5120.00	102.4	4830.00	96.6	P
Lead				5000.0	4960.00	99.2	5300.00	106.0	P
Mercury				2.0	1.87	93.5	1.94	97.0	CV
Selenium									NR
Silver				500.0	535.00	107.0	507.00	101.4	P

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
INITIAL AND CONTINUING CALIBRATION VERIFICATION

ALI QC #: 930423T

Initial Calibration Source: PE484/LEEMAN

Continuing Calibration Source: ALI_____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Arsenic									NR
Barium									NR
Cadmium									NR
Chromium									NR
Lead	10000.0	10500.00	105.0	5000.0	5100.00	102.0	5120.00	102.4	P
Mercury									NR
Selenium									NR
Silver									NR

Control Limits: Mercury 80-120; ICP Metals 90-110; GFA 80-120; CN 85-115

ACCREDITED LABORATORIES INC.

BLANKS

ALI QC #: 930415B

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	43.0	U	43.0	U	43.0	U	43.0	U	4.300	U	P
Arsenic	-49.0	B	44.0	U	44.0	U	44.0	U	4.400	U	P
Barium	-16.6	B	-16.3	B	-15.0	B	-15.1	B	-1.780	B	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.100	U	P
Cadmium	-8.8	B	-11.3	B	-10.5	B	-11.1	B	0.400	U	P
Calcium											NR
Chromium	10.0	U	17.1	B	10.0	U	-13.1	B	1.000	U	P
Cobalt											NR
Copper	8.0	U	8.0	U	8.0	U	9.5	B	0.800	U	P
Iron											NR
Lead	85.0	U	85.0	U	85.0	U	85.0	U	8.500	U	P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.031	U	CV
Nickel	-30.6	B	14.0	U	14.0	U	-26.2	B	-2.020	B	P
Potassium											NR
Selenium	133.0	U	133.0	U	133.0	U	133.0	U	13.300	U	P
Silver	7.0	U	7.0	U	7.0	U	7.0	U	0.700	U	P
Sodium											NR
Thallium	151.0	U	151.0	U	-242.0	B	151.0	U	15.100	U	P
Vanadium	4.0	U	4.0	U	4.0	U	4.0	U	0.400	U	P
Zinc	13.0	U	13.0	U	13.0	U	13.3	B	1.300	U	P
Molybdenu	25.0	U	25.0	U	25.0	U	25.0	U	2.500	U	P
Titanium											NR
Silicon											NR

FORM III - IN

ACCREDITED LABORATORIES INC.

BLANKS

ALI QC #: 930415B__

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony	43.0	U	197.0	B	43.0	U	43.0	U			P
Arsenic	2.0	U	2.0	U					0.200	U	F
Barium											NR
Beryllium											NR
Cadmium	4.0	U	4.0	U	4.0	U					P
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	85.0	U	97.6	B	85.0	U	85.0	U	-8.960	B	P
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.031	U	CV
Nickel											NR
Potassium											NR
Selenium	2.0	B	2.0	U	2.0	U			-0.200	B	F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
Titanium											NR
Silicon											NR

FORM III - IN

ACCREDITED LABORATORIES INC.

BLANKS

ALI QC #: 930415B__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	2.0	U	2.0	U							F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	-210.0	B	85.0	U							P
Magnesium											NR
Manganese											NR
Mercury			0.2	U							CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
Titanium											NR
Silicon											NR

FORM III - IN

ACCREDITED LABORATORIES INC.

BLANKS

ALI QC #: 930415B__

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury	0.2	U	0.2	U	0.2	U					CV
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U							F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR
Titanium											NR
Silicon											NR

FORM III - IN

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
BLANKS

ALI QC #: 930423T

Preparation Blank Matrix (soil/extract): EXTRACT

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic	-65.1	B	-107.0	B	-95.6	B			44.000	U	P
Barium	7.0	U	7.0	U	7.0	U	7.0	U	7.000	U	P
Cadmium	4.0	U	5.5	B	4.0	U	4.0	U	4.000	U	P
Chromium	10.0	U	14.9	B	10.0	U	10.0	U	10.700	B	P
Lead	272.0	B	-119.0	B	85.0	U	85.0	U	85.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.155	U	CV
Selenium	133.0	U	133.0	U	133.0	U			-156.000	B	P
Silver	7.0	U	7.0	U	7.0	U	7.0	U	7.000	U	P

FORM III - IN

3/90

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
BLANKS

ALI QC #: 930423T

Preparation Blank Matrix (soil/extract): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic											NR
Barium			7.0	U							P
Cadmium			4.0	U							P
Chromium			10.0	U							P
Lead			-281.0	B							P
Mercury			0.2	U							CV
Selenium											NR
Silver			7.0	U							P

FORM III - IN

3/90

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
BLANKS

ALI QC #: 930423T

Preparation Blank Matrix (soil/extract): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Arsenic											NR
Barium											NR
Cadmium											NR
Chromium											NR
Lead	-95.0	B	85.0	U	85.0	U					P
Mercury											NR
Selenium											NR
Silver											NR

FORM III - IN

3/90

ACCREDITED LABORATORIES INC.

ICP INTERFERENCE CHECK SAMPLE

ALI QC #: 930415B__

ICP ID Number: PS 2000_____ ICS Source: SPEX-3-129AS

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium	0	500	-12	483.0	96.6	-12	459.0	91.8
Beryllium	0	500	0	479.0	95.8	0	455.0	91.0
Cadmium	0	1000	4	906.0	90.6	3	849.0	84.9
Calcium								
Chromium	0	500	66	528.0	105.6	41	472.0	94.4
Cobalt								
Copper	0	500	-4	488.0	97.6	7	468.0	93.6
Iron								
Lead	0	1000	208	1140.0	114.0	193	1100.0	110.0
Magnesium								
Manganese								
Mercury								
Nickel	0	1000	-23	913.0	91.3	-27	865.0	86.5
Potassium								
Selenium								
Silver	0	1000	87	1080.0	108.0	94	1020.0	102.0
Sodium								
Thallium								
Vanadium	0	500	-19	440.0	88.0	-19	418.0	83.6
Zinc	0	1000	-20	866.0	86.6	-16	828.0	82.8
Molybdenu								
Titanium								
Silicon								

FORM IV - IN

ILM02.1

ACCREDITED LABORATORIES INC.

ICP INTERFERENCE CHECK SAMPLE

ALI QC #: 930415B__

ICP ID Number: PS 2000_____ ICS Source: SPEX-3-129AS

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium	0	1000	26	981.0	98.1	15	1030.0	103.0
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0	1000	281	1070.0	107.0	67	1000.0	100.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Molybdenu								
Titanium								
Silicon								

FORM IV - IN

ILM02.1

ACCREDITED LABORATORIES INC.

ICP INTERFERENCE CHECK SAMPLE

ALI QC #: 930415B__

ICP ID Number: PS 2000_____ ICS Source: SPEX-3-129AS

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	0	1000	35	1040.0	104.0	215	1140.0	114.0
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Molybdenu								
Titanium								
Silicon								

FORM IV - IN

ILM02.1

ACCREDITED LABORATORIES INC.

SPIKE SAMPLE RECOVERY

ALI QC SAMPLE#

2500A

ALI QC #: 930415B
Matrix (soil/water): SOIL
% Solids for Sample: 92.3

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		18201.5168		16793.0661		541.71	260.0		P
Arsenic	75-125	969.6641		447.4540		541.71	96.4		P
Barium	75-125	735.6446		182.0152		541.71	102.2		P
Beryllium	75-125	97.5081		0.8787		108.34	89.2		P
Cadmium	75-125	117.0098		18.2015		108.34	91.2		P
Calcium									NR
Chromium	75-125	318.5265		140.8451		216.68	82.0		P
Cobalt									NR
Copper	75-125	1126.7606		930.6609		270.86	72.4		P
Iron									NR
Lead		10595.8830		9252.4377		270.86	496.0		P
Magnesium									NR
Manganese									NR
Mercury		8.7801		8.4312		0.43	81.1		CV
Nickel	75-125	332.6111		123.5103		270.86	77.2		P
Potassium									NR
Selenium	75-125	482.1235		28.0607	B	541.71	83.8		P
Silver		69.1224		60.7801		5.42	153.9		P
Sodium									NR
Thallium	75-125	469.1224		16.3597	U	541.71	86.6		P
Vanadium	75-125	439.8700		18.8516		541.71	77.7		P
Zinc		2513.5428		2546.0455		541.71	-6.0		P
Molybdenu	75-125	436.6197		3.7920	B	541.71	79.9		P
Titanium									NR
Silicon									NR

Comments:

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ACCREDITED LABORATORIES INC.

SPIKE SAMPLE RECOVERY

ALI QC SAMPLE#

2500A

ALI QC #: 930415B
Matrix (soil/water): SOIL
% Solids for Sample: 92.3

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic		135.9697		137.9198		5.42	-36.0		F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		17.4653		30.8099		5.42	-246.2		F
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR
Titanium									NR
Silicon									NR

Comments:

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
SPIKE SAMPLE RECOVERY

ALI QC SAMPLE#

2635A

ALI QC #: 930423T

Matrix (soil/extract): EXTRACT

Concentration Units (ug/L) : UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75-125	5440.0000		177.0000		5000.00	105.3		P
Barium	75-125	5830.0000		1060.0000		5000.00	95.4		P
Cadmium	75-125	928.0000		20.4000	B	1000.00	90.8		P
Chromium	75-125	1860.0000		40.8000	B	2000.00	91.0		P
Lead	75-125	2970.0000		712.0000		2500.00	90.3		P
Mercury	75-125	4.8180		1.5900		4.00	80.7		CV
Selenium	75-125	5070.0000		133.0000	U	5000.00	101.4		P
Silver	75-125	68.1000		21.2000	B	50.00	93.8		P

Comments:

ACCREDITED LABORATORIES INC.

DUPLICATES

ALI QC SAMPLE#

2500D

ALI QC #: 930415B

Matrix (soil/water): SOIL

% Solids for Sample: 92.3

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		16793.0661		13759.4800		19.9		P
Arsenic		447.4540		593.7161		28.1		P
Barium		182.0152		221.0184		19.4		P
Beryllium	0.5	0.8787		0.9978		12.7		P
Cadmium		18.2015		18.0932		0.6		P
Calcium								NR
Chromium		140.8451		118.0932		17.6		P
Cobalt								NR
Copper		930.6609		717.2264		25.9		P
Iron								NR
Lead		9252.4377		11050.9209		17.7		P
Magnesium								NR
Manganese								NR
Mercury		8.4312		5.4886		42.3		CV
Nickel		123.5103		102.6002		18.5		P
Potassium								NR
Selenium		28.0607	B	20.0433	B	33.3		P
Silver		60.7801		88.9491		37.6		P
Sodium								NR
Thallium		16.3597	U	16.3597	U			P
Vanadium	5.4	18.8516		3.4236	B	138.5		P
Zinc		2546.0455		2091.0076		19.6		P
Molybdenu		3.7920	B	3.1528	B	18.4		P
Titanium								NR
Silicon								NR

FORM VI - IN

ILM02.1

ACCREDITED LABORATORIES INC.

DUPLICATES

ALI QC SAMPLE#

2500D

ALI QC #: 930415B

Matrix (soil/water): SOIL

% Solids for Sample: 92.3

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		137.9198		121.9935		12.3		F
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium		30.8099		21.8310		34.1		F
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR
Titanium								NR
Silicon								NR

FORM VI - IN

ILM02.1

ACCREDITED LABORATORIES INC.

DUPLICATES

ALI QC SAMPLE#

2500T

ALI QC #: 930415B

Matrix (soil/water): SOIL

% Solids for Sample: 92.3

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		447.4540		426.8689		4.7		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper		930.6609		707.4756		27.2		P
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		8.4312		8.9491		6.0		CV
Nickel								NR
Potassium								NR
Selenium		30.8099		22.9144		29.4		F
Silver		60.7801		57.3131		5.9		P
Sodium								NR
Thallium								NR
Vanadium	5.4	18.8516		13.0011		36.7		P
Zinc								NR
Bismuth								NR
Zirconium								NR

FORM VI - IN

ILM02.1

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
DUPLICATES

ALI QC SAMPLE#

2635D

ALI QC #: 930423T

Matrix (soil/extract): EXTRACT

Concentration Units (ug/L) : UG/L

Analyte	Regulatory Level	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		177.0000	B	163.0000	B	8.2		P
Barium	500.0	1060.0000		1070.0000		0.9		P
Cadmium		20.4000	B	15.7000	B	26.0		P
Chromium		40.8000	B	44.6000	B	8.9		P
Lead	300.0	712.0000		496.0000		35.8		P
Mercury	1.0	1.5900		0.5600	B	95.8		CV
Selenium		133.0000	U	133.0000	U			P
Silver		21.2000	B	26.6000	B	22.6		P

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
DUPLICATES

ALI QC SAMPLE#

2635T

ALI QC #: 930423T

Matrix (soil/extract): EXTRACT

Concentration Units (ug/L) : UG/L

Analyte	Regulatory Level	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic								NR
Barium								NR
Cadmium								NR
Chromium								NR
Lead								NR
Mercury	1.0	1.5900		0.3340	B	130.6		CV
Selenium								NR
Silver								NR

ACCREDITED LABORATORIES INC.

LABORATORY CONTROL SAMPLE

ALI QC #: 930415B__

Solid LCS Source: ALI_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony				500.0	480.0				96.0
Arsenic				500.0	491.0				98.2
Barium				500.0	474.0				94.8
Beryllium				100.0	93.2				93.2
Cadmium				100.0	115.0				115.0
Calcium									
Chromium				200.0	182.0				91.0
Cobalt									
Copper				250.0	237.0				94.8
Iron									
Lead				250.0	247.0				98.8
Magnesium									
Manganese									
Mercury									
Nickel				250.0	244.0				97.6
Potassium									
Selenium				500.0	474.0				94.8
Silver				5.0	4.6				92.0
Sodium									
Thallium				500.0	505.0				101.0
Vanadium				500.0	410.0				82.0
Zinc				500.0	464.0				92.8
Molybdenu				500.0	472.0				94.4
Titanium									
Silicon									

FORM VII - IN

ILM02.1

ACCREDITED LABORATORIES INC.

LABORATORY CONTROL SAMPLE

ALI QC #: 930415B__

Solid LCS Source: ALI_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				5.0	5.4				108.0
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese				wc	wc			wc	
Mercury				0.40 ~~0.4~~	0.34 ~~0.3~~			85.0	~~75.0~~
Nickel									
Potassium									
Selenium				5.0	5.4				108.0
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									
Titanium									
Silicon									

FORM VII - IN

ILM02.1

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
LABORATORY CONTROL SAMPLE

ALI QC #: 930423T

Solid LCS Source: _____

Aqueous LCS Source: ALI_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic	5000.00	5610.00	112.2						
Barium	5000.00	5360.00	107.2						
Cadmium	1000.00	1020.00	102.0						
Chromium	2000.00	1980.00	99.0						
Lead	2500.00	2470.00	98.8						
Mercury									
Selenium	5000.00	5660.00	113.2						
Silver	50.00	52.20	104.4						

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
LABORATORY CONTROL SAMPLE

ALI QC #: 930423T

Solid LCS Source: _____

Aqueous LCS Source: ALI_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Arsenic									
Barium									
Cadmium									
Chromium									
Lead									
Mercury	4.00	4.01	100.3						
Selenium									
Silver									

ACCREDITED LABORATORIES INC.

STANDARD ADDITION RESULTS

ALI QC #: 930415B__

Concentration Units: ug/L

Field/ Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
BHC-1	SE	0.089	25.00	0.131	50.00	0.177	75.00	0.207	56.9	0.9965	
BHC-1D	SE	0.078	25.00	0.134	50.00	0.167	75.00	0.190	58.9	0.9800	
BHC-1D	SE	0.068	25.00	0.132	50.00	0.176	75.00	0.205	42.3	0.9855	
BHC-1D	SE	0.042	25.00	0.095	50.00	0.125	75.00	0.159	31.6	0.9914	
BHC-1D	SE	0.062	25.00	0.121	50.00	0.161	75.00	0.193	40.3	0.9903	
BHC-1S	SE	0.092	25.00	0.125	50.00	0.179	75.00	0.244	40.9	0.9901	
BHC-1S	SE	0.105	25.00	0.172	50.00	0.230	75.00	0.270	50.3	0.9940	
BHC-1S	SE	0.092	25.00	0.125	50.00	0.179	75.00	0.244	40.9	0.9901	
BHC-1S	SE	0.105	25.00	0.172	50.00	0.230	75.00	0.270	50.3	0.9940	
BHC-1S	SE	0.071	25.00	0.114	50.00	0.146	75.00	0.209	38.2	0.9907	
BHC-1S	SE	0.080	25.00	0.150	50.00	0.230	75.00	0.272	32.2	0.9928	
BHC-1	SE	0.089	25.00	0.131	50.00	0.177	75.00	0.207	56.9	0.9965	
BHC-2	SE	0.102	25.00	0.152	50.00	0.231	75.00	0.228	60.0	0.9423	
BHC-2	SE	0.204	25.00	0.258	50.00	0.334	75.00	0.385	81.7	0.9971	
BHC-3	SE	0.120	25.00	0.192	50.00	0.196	75.00	0.242	89.2	0.9478	
BHC-3	SE	0.174	25.00	0.284	50.00	0.362	75.00	0.353	81.7	0.9147	
BHC-4	SE	0.137	25.00	0.244	50.00	0.354	75.00	0.373	47.2	0.9663	
BHC-4	SE	0.200	25.00	0.415	50.00	0.435	75.00	0.457	81.6	0.8576	
BHC-5	SE	0.060	25.00	0.135	50.00	0.188	75.00	0.204	38.1	0.9645	
BHC-5	SE	0.070	25.00	0.214	50.00	0.258	75.00	0.274	40.2	0.9120	
BHC-9	SE	0.124	25.00	0.183	50.00	0.253	75.00	0.270	64.6	0.9759	
BHC-9	SE	0.154	25.00	0.312	50.00	0.351	75.00	0.357	75.7	0.8795	

FORM VIII - IN ILM02.1

ACCREDITED LABORATORIES INC.

ICP SERIAL DILUTION

ALI QC SAMPLE#

2500L

ALI QC #: 930415B

Matrix (soil/water): SOIL

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							
Antimony	15500.00		15700.00		1.3		P
Arsenic	4130.00		3775.00		8.6		P
Barium	1680.00		1655.00		1.5		P
Beryllium	8.11		9.00	B	11.0		P
Cadmium	168.00		198.00		17.9		P
Calcium							
Chromium	1300.00		2210.00		70.0		P
Cobalt							
Copper	8590.00		8700.00		1.3		P
Iron							
Lead	8540.00		9600.00		12.4		P
Magnesium							
Manganese							
Mercury							
Nickel	1140.00		1155.00		1.3		P
Potassium							
Selenium	259.00		665.00	U	100.0		P
Silver	561.00		565.00		0.7		P
Sodium							
Thallium	151.00	U	755.00	U			P
Vanadium	174.00		190.50	B	9.5		P
Zinc	23500.00		23400.00		0.4		P
Molybdenu	35.00	B	125.00	U	100.0		P
Titanium							
Silicon							

FORM IX - IN

ILM02.1

ACCREDITED LABORATORIES INC.

REGULATED TCLP METALS
ICP SERIAL DILUTION

ALI QC SAMPLE#

2635L

ALI QC #: 930423T

Matrix (soil/extract): EXTRACT

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	177.00	B	220.00	U	100.0		P
Barium	1060.00		1180.00	B	11.3		P
Cadmium	20.40	B	20.00	U	100.0		P
Chromium	40.80	B	195.00	B	377.9		P
Lead	712.00		425.00	U	100.0		P
Mercury							
Selenium	133.00	U	665.00	U			P
Silver	21.20	B	54.50	B	157.1		P

Accredited Laboratories, Inc.
Foot of Pershing Avenue, P.O. Box 369
Carteret, New Jersey 07008-0369
Telephone: (908) 541-2025
A Subsidiary of **AMAX**

CHAIN OF CUSTODY FORM

Client: Guardian Env. Service
Address: 1280 Porter Rd
City: Bear
State, Zip: De, 19701

Project: NL/Dutch Boy
Contact: Jack Wilson
Phone: 442-0487
Fax: 442-0540

P.O. Number 29611

**M = Matrix (A)=Aqueous (S)=Soil (G)=Sludge (P)=Potable Water (O)=Oil (F)=Filter (K)=Solid (X)=Other

Deliverables (circle one): STD (Reduced) Regulatory ECRA CLP I CLP II
Tier II Data Package

* C = No. Containers

Turnaround: 4-26-93 (if blank, std applies)

ALI Sample No.	Field ID	C*	M**	Date/Time SAMPLED	Sample Description	Analyses
9302500	BHC-1	1	K	4-9-93	Dark Brown dirt	TCLP Metals Total Metals
9302501	BHC-2	1	K	4-9-93	" "	To be done
9302502	BHC-3	1	K	4-9-93	" "	on All samples
9302503	BHC-4	1	K	4-9-93	" "	
9302504	BHC-5	1	K	4-9-93	" "	
9302505	BHC-6	1	K	4-9-93	" "	
9302506	BHC-7	1	K	4-9-93	" "	
9302507	BHC-8	1	K	4-9-93	" "	

Person(s) Assuming Responsibility for Sampling: Print Christine Woodson Sign Christine Woodson
Job Wilson for

Relinquished By: print	Relinquished By: sign	Received By: print	Received By: sign	Organization	Date	Time	Reason
Jack Wilson	Jack Wilson	D. Murdock	D. Murdock	A.L.I	4/12/93	11:15 Am	Pick Up
D. Murdock	D. Murdock	B. Oxner	B. Oxner	A.L.I	4/12/93	11:30 Am	Analytical

Comments: Fax Results To 442-0540 - Make 3 Hard Copies and deliver To Job Site (1056 State St, Perth Amboy)

ALI CASE NO. CV29116

Accredited Laboratories, Inc.
Foot of Pershing Avenue, P.O. Box 369
Carteret, New Jersey 07008-0369
Telephone: (908) 541-2025
A Subsidiary of AMAX

CHAIN OF CUSTODY FORM

Client: Guardian Env Service
Address: 1280 Porter Rd
City: Bear
State, Zip: De, 19701

Project: NL / Dutch Boy
Contact: Jack Wilson
Phone: 442-0487
Fax: 442-0540

P.O. Number 29611

**M = Matrix (A)=Aqueous (S)=Soil (G)=Sludge (P)=Potable Water (O)=Oil (F)=Filter (K)=Solid (X)=Other

Deliverables (circle one): STD (Reduced) Regulatory ECRA CLP I CLP II
Tier II Data Package

* C = No. Containers

Turnaround: 4-26-93
(if blank, std applies)

ALI Sample No.	Field ID	C*	M**	Date/Time SAMPLED	Sample Description	Analyses
9302508	BHC - 9	1	K	4-9-93	Dark Brown dirt	TCLP metals Total metals

Person(s) Assuming Responsibility for Sampling: Print Christine Woodson Sign Christine Woodson
John Wilson for

Relinquished By: print	Relinquished By: sign	Received By: print	Received By: sign	Organization	Date	Time	Reason
Jack Wilson	John Wilson	D. Murdock	D. Murdock	A.L.I.	4/12/93	1:15 Am	Pick Up
D. Murdock	D. Murdock	B. Oxner	B. Oxner	A.L.I	4/12/93	1:30 Am	Analytical

Comments: Fax results to 442-0540 - Make 3 Hard Copies and deliver to Job site (1050 State St, Perth Amboy)

ALI CASE NO. C-29116

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:43

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-1 Case#: 2916 Sample#: 9302500

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD	4/16/93	SAMB	363-90
K	Barium	Ba						4/16/93	SAMB	363-90
K	Cadmium	Cd						4/20/93		363-93
K	Chromium	Cr						4/16/93		363-90
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag						4/16/93	SAMB	363-90
			923							

WC

Quality control Report Number(s): QC 930415B

Reviewed by: SAMB WC Date: 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:43

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-1 Case#: 2916 Sample#: 9302500
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JTD	4/16/93	TH	382-1
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JTD	4/19/93	TH	361-82
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:43

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-1 Case#: 2916 Sample#: 9302500

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method: _____

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JTD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/19/93	TH	369-76
K	Selenium	Se				4/15/93	JTD			
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/22/93 RPT:02report

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Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:49

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-1 Case#: 2916 Sample#: 9302500
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	3603-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	3603-98
K	Silver	Ag						4/25/93		

TA

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:49

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-1 Case#: 2916 Sample#: 9302500
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	369-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC-930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-2 Case#: 2916 Sample#: 9302501
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145
Test Description: Metals Screen (MS)
Project Name: N1/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD	4/16/93	SAMB	363-90
K	Barium	Ba						4/16/93	SAMB	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag						4/16/93	SAMB	363-90
		WC								
			87.9							

Quality control Report Number(s): QC 930415B

Reviewed by: SAMB WC Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-2 Case#: 2916 Sample#: 9302501
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD	ICP ~~4/16/93~~	~~TH~~	~~382-1~~ TH
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD	4/20/93	TH	361-82
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: SAMB DC Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-2 Case#: 2916 Sample#: 9302501
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/19/93	TH	369-70
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

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Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:49

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-2 Case#: 2916 Sample#: 9302501

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

QC#: 930158

Test: TCLP MET

Test Description: TCLP Metals (TCLP MET)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		

TK

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

66

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:49

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-2 Case#: 2916 Sample#: 9302501
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 9301576
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	369-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930423T

Reviewed by: WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-3 Case#: 2916 Sample#: 9302502

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/15/93	JTD	4/16/93	SAMB	363-90
K	Barium	Ba						4/16/93	SAMB	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JTD			
K	Silver	Ag WC						4/16/93	SAMB	363-90
			88.5							

Quality control Report Number(s): QC 930415B

Reviewed by: SAMB WC Date: 4/21/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-3 Case#: 2916 Sample#: 9302502

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/15/93	JJD	~~4/16/93~~	ICP ~~JH~~	~~382-1~~ TA
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD	4/20/93	JH	3d-82
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: SMB WC Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:44

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-3 Case#: 2916 Sample#: 9302502
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/19/93	TH	3/8-72
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:50

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-3 Case#: 2916 Sample#: 9302502
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb						4/26/93		
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		

TH

Quality control Report Number(s): QC930423T

Reviewed by: SAMB Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:50

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-3 Case#: 2916 Sample#: 9302502
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	36985
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:45

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-4 Case#: 2916 Sample#: 9302503

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: N1/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JD	4/16/93	SMB	363-90
K	Barium	Ba						4/16/93	SMB	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JD			
K	Silver	Ag						4/16/93	SMB	363-90
			934							

Quality control Report Number(s): GC 930415B

Reviewed by: SMB WC Date: 4/28/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:45

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-4 Case#: 2916 Sample#: 9302503

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/15/93	JD	~~4/16/93~~	~~TH~~ ICP	~~382-1~~ TH
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JD	4/19/93	TH	361-82
K	Silver	Ag								

Quality control Report Number(s): GC 930415B

Reviewed by: SMB WC Date: 4/22/93 4/23/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:45

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-4 Case#: 2916 Sample#: 9302503
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/15/93	JD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						~~4/20/93~~	TH	80
K	Mercury	Hg				4/16/93	TH	~~4/19/93~~	TH	369-72
K	Selenium	Se				4/15/93	JD			
K	Silver	Ag								

Quality control Report Number(s): GC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:51

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-4 Case#: 2916 Sample#: 9302503
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-9r
K	Barium	Ba						4/25/93	SAMB	
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-9r
K	Silver	Ag						4/25/93		
		TA								

Quality control Report Number(s): QC930423T

Reviewed by: SAMB NC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:51

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-4 Case#: 2916 Sample#: 9302503
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	3B1-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

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Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:46

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-5 Case#: 2916 Sample#: 9302504

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JTD	4/19/93	SAMS	363-90
K	Barium	Ba						4/16/93	SAMS	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-90
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JTD			
K	Silver	Ag						4/16/93	SAMS	363-90
			92.3							

Quality control Report Number(s): QC930415B

Reviewed by: SAMS WC Date: 4/21/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:46

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-5 Case#: 2916 Sample#: 9302504
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/15/93	JTD	~~4/16/93~~	ICP ~~TH~~	~~3821~~ TH
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	~~Se~~ Ca				4/15/93	JTD	4/19/93	TH	3d-82
K	Silver	Ag								

Quality control Report Number(s): QC930415B

Reviewed by: [illegible] Date: 4/22/93 4/26 RPT:02report

Hard Copy Done 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:46

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-5 Case#: 2916 Sample#: 9302504

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143

Test Description: Metals Screen (MS)

Project Name: N1/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JTD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/20/93	TH	369-80
K	Selenium	Se				4/15/93	JTD			
K	Silver	Ag								

Quality control Report Number(s): QC930415B

Reviewed by: WC Date: 4/21/93 4/26/93 RPT:02report

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Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:51

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-5 Case#: 2916 Sample#: 9302504
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		
		TN								

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

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Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:51

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-5 Case#: 2916 Sample#: 9302504
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	JH	4/23/93	JH	369-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930423T

Reviewed by: SMB WC Date: 4/26/93 4/26/93 RPT:02report

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Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:46

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-6 Case#: 2916 Sample#: 9302505

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JJD	4/16/93	SAMS	363-91
K	Barium	Ba						4/16/93	SAMS	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD	4/16/93	SAMS	363-90
K	Silver	Ag						4/16/93	SAMS	363-90
			89.5							

WC

Quality control Report Number(s): QC 930415B

Reviewed by: SAMS WC Date: 4/22/93 4/21/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:46

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-6 Case#: 2916 Sample#: 9302505
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/20/93	TH	369-80
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: Sams WC Date: 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:52

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-6 Case#: 2916 Sample#: 9302505
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		
		Tl								

Quality control Report Number(s): QC930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 7/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:52

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-6 Case#: 2916 Sample#: 9302505
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	36985
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930423T

Reviewed by: SAMS WC Date: 4/26/93 4/26/93 RPT:02report

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Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:47

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-7 Case#: 2916 Sample#: 9302506

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JD	4/16/93	SAMB	363-90
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JD	4/16/93	SAMB	363-90
K	Silver	Ag						4/16/93	SAMB	363-9
		WC								
			85.2							

Quality control Report Number(s): QC930415B

Reviewed by: SAMB WC Date: 4/21/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:47

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-7 Case#: 2916 Sample#: 9302506
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143
Test Description: Metals Screen (MS)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/20/93	TH	369-80
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930415B

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:52

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-7 Case#: 2916 Sample#: 9302506
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method: _____

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	ANALYSIS REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		
		Tl								

Quality control Report Number(s): QC9304237

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:52

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-7 Case#: 2916 Sample#: 9302506
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	369-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC9304237

Reviewed by: SAMB DC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:47

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-8 Case#: 2916 Sample#: 9302507

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD	4/19/93	SAMB	363-92
K	Barium	Ba						4/16/93	SAMB	362-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-90
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD	4/16/93	SAMB	362-90
K	Silver	Ag								
			84.7							

Quality control Report Number(s): QC930415B

Reviewed by: SAMB WC Date: 4/21/93 RPT:02report

Hard Copy Due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:47

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-8 Case#: 2916 Sample#: 9302507

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930143

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/20/93	TH	369-80
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC930415B

Reviewed by: SAMB WC Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Dw 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:53

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-8 Case#: 2916 Sample#: 9302507
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JID	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/93		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JID	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/93		
		Tl								

Quality control Report Number(s): QC 930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

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Hard Copy Rcv 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:53

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-8 Case#: 2916 Sample#: 9302507
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	TH	4/23/93	TH	36985
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:48

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-9 Case#: 2916 Sample#: 9302508

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930145

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JJD	4/16/93	SAMB	363-90
K	Barium	Ba						4/16/93	SAMB	363-90
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb						4/19/93		363-92
K	Mercury	Hg								
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag						4/16/93	SAMB	363-90
			95.0							

WC

Quality control Report Number(s): BC930415B

Reviewed by: SAMB WC Date: 4/21/93 RPT:02report

Hard Copy due 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:48

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-9 Case#: 2916 Sample#: 9302508

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS QC#: 930144

Test Description: Metals Screen (MS)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method: _____

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/15/93	JJD	~~4/16/93~~	~~TH~~ ICP	~~382-1~~ TH
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se TH				4/15/93	JJD	4/19/93	TH	361-82 ~~382-8~~
K	Silver	Ag								

Quality control Report Number(s): BC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

Hard Copy due 4/26

Date:04/12/93

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS LABORATORY CHRONICLE

Time: 14:49:48

Client: Guardian Environmental Service

Test Date Wanted: 04/23/93

Field#: BHC-9 Case#: 2916 Sample#: 9302508
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: MS
Test Description: Metals Screen (MS)
Project Name: N1/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

QC#: 930143

By Method:

MTX	ELEMENT	SYM	RESULT	MDL	UNITS	LABORATORY CHRONICLE PREPARATION DATE	PREPARATION INIT	ANALYSIS DATE	ANALYSIS INIT	REF
K	Arsenic	As				4/15/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/16/93	TH	4/19/93	TH	360-72
K	Selenium	Se				4/15/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930415B

Reviewed by: [illegible] Date: 4/22/93 4/26/93 RPT:02report

Hard Copy Done 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:54

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-9 Case#: 2916 Sample#: 9302508

Client Sample Description: Dark Brown Dirt

Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930158

Test Description: TCLP Metals (TCLP MET)

Project Name: Nl/dutch Boy

Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth

Sample Comments:

By Method: _____

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/23/93	JJD	4/26/93	SAMB	363-98
K	Barium	Ba						4/25/98		
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg								
K	Selenium	Se				4/23/93	JJD	4/26/93	SAMB	363-98
K	Silver	Ag						4/25/98	✓	✓
		Pb								

Quality control Report Number(s): QC 930423T

Reviewed by: SAMB WC Date: 4/26/93 4/26/93 RPT:02report

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Hard Copy Done 4/26

Date:04/12/93 ACCREDITED LABORATORIES, INC. Time: 14:49:54

INORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Wanted: 04/23/93

Field#: BHC-9 Case#: 2916 Sample#: 9302508
Client Sample Description: Dark Brown Dirt
Date Sampled: 04/09/93 Date Received: 04/12/93 Report Package: Tier 2

Test: TCLP MET QC#: 930156
Test Description: TCLP Metals (TCLP MET)
Project Name: Nl/dutch Boy
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge:X=Oth
Sample Comments:

By Method:

						LABORATORY CHRONICLE PREPARATION		ANALYSIS		
MTX	ELEMENT	SYM	RESULT	MDL	UNITS	DATE	INIT	DATE	INIT	REF
K	Arsenic	As				4/23/93	JJD			
K	Barium	Ba								
K	Cadmium	Cd								
K	Chromium-T	Cr								
K	Lead	Pb								
K	Mercury	Hg				4/23/93	RH	4/23/93	RH	369-85
K	Selenium	Se				4/23/93	JJD			
K	Silver	Ag								

Quality control Report Number(s): QC 930423T

Reviewed by: SMB WC Date: 4/26/93 4/26/93 RPT:02report

Hard Copy Due 4/26

Date: 04/12/93 ACCREDITED LABORATORIES, INC. Time:14:50:00

ORGANIC ANALYSIS LABORATORY CHRONICLE

Client: Guardian Environmental Service Test Date Due: 04/23/93

Client Project Name: Nl/dutch Boy

Date Sampled:04/09/93 Date Received:04/12/93 Report Package: Tier 2

Test: TCLP EXT MET QC#:_____

Test Description:TCLP Extraction Metals

By Method: _____

SAMPLE IDENTIFICATION			Mtx	EXTRACTION			ANALYSIS		TIC FLAG
Field#	Case#	Sample#		Date	Time	Init	Date	Time	Init
BHC-1	2916	9302500	K	4/15/93		RJ			
BHC-2	2916	9302501	K						
BHC-3	2916	9302502	K						
BHC-4	2916	9302503	K						
BHC-5	2916	9302504	K						
BHC-6	2916	9302505	K						
BHC-7	2916	9302506	K						
BHC-8	2916	9302507	K						
BHC-9	2916	9302508	K						

Reviewed by: Sams UC Date: 4/26/93 4/26/93

Abreviations:Sample Matrix:
Mtx:A=Aqueous:S=Soil:O=Oil:K=Solid:F=Filters:P=Potable Water:G=Sludge
X=Other RPT:01report