AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

EDMC#: 0069509
SECTION: 1 OF 2

DOCUMENT #: F1192

TITLE: Data Package

0069509

SAF-RC-051
100 & 300 Area Component of the RCBRA - Incremental Soil Sampling
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jill Thomson	H0-23	____NB 4/25/06 INITIAL/DATE
Jeanette Duncan	H9-02	___NB 4/25/06 INITIAL/DATE

COMMENTS:

SDG _F1192___ SAF-RC-051

Rad only X Chem only Rad & Chem

X Complete Partial

Waste Site: Ref and Cr Sediments

RECEIVED
MAY 04 2006
EDMC

CH2M HILL
Applied Sciences Laboratory
2300 NW Walnut Blvd
Corvallis, OR
97330-3538
P.O. Box 428
Corvallis, OR
97339-0428
Tel 541.752.4271
Fax 541.752.0276

CH2MHILL
Applied Sciences Laboratory

RECEIVED
APR 2006

March 23, 2006

ELR Consulting
2328 S. Garfield Street
Kennewick, WA 99337

RE: Laboratory Report for ELR Consulting
Applied Sciences Laboratory Reference No. F1192

Dear Emmett Richards:

On February 14, 2006, CH2M HILL Applied Sciences Laboratory received nine samples with a request for analysis of selected parameters. All analyses were performed by CH2M HILL unless otherwise indicated below.

The analytical results and associated quality control data are enclosed. Any unusual difficulties encountered during the analysis of your samples are discussed in the case narrative. This data package meets standards requested by client and is not intended or implied to meet any other standard.

CH2M HILL Applied Sciences Laboratory appreciates your business and looks forward to serving your analytical needs again. If you should have any questions concerning the data, or if you need additional information, please call Mark Bos at (541) 758-0235, extension 3135.

Sincerely,

Mark Bos
Analytical Manager

Enclosures

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Applied Sciences Laboratory Reference No. F1192

Sample ID	Client Sample ID	Date Collected	Time Collected
F119201	J116N1	02/09/2006	15:30
F119202	J116N3	02/09/2006	14:00
F119203	J112B7	02/09/2006	12:00
F119204	J116N2	02/09/2006	14:45
F119205	J116M4	02/12/2006	14:00
F119206	J116N0	02/09/2006	12:30
F119207	J11731	02/09/2006	16:00
F119208	J116M5	02/12/2006	15:30
F119209	J116M8	02/12/2006	13:15

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CH2M HILL Laboratory Reference No. F1192

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QC Summary 40

Moisture Analysis by Method ASTM D2216 52

Particle Size Analysis by Method D422 62

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Total Kjeldahl Nitrogen Analysis by Method EPA351.4 83
Sample Data Summary 85
QC Summary 96

Total Organic Carbon Analysis by Method ASTM E777 105
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Applied Sciences Laboratory

Organic CLP and CLP Like Data Qualifiers

U — The analyte was analyzed for, but not detected above the reported sample quantitation limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

N — The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".

NJ — The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

P — The primary and confirmation analyte result recoveries do not match.

E — The analyte was positively identified; the associated numerical value exceeded the instrument calibration range.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Inorganic CLP and CLP Like Data Qualifiers

U — The analyte was analyzed for, but not detected above the reported sample quantitation limit.

B — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

E — The analyte was positively identified; the associated numerical value exceeded the instrument calibration range.

N — The matrix spike/matrix spike duplicate recovery for the analyte is outside of acceptance criteria—qualifier is applied to the native sample only.

R — The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

AMMONIA
METHOD EPA 350.3

CASE NARRATIVE
AMMONIA

Analytical Method: EPA 350.3 Batch No.: F1192

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Project Name: ELR Consulting Prime Contractor.:

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate(MS/MSD)
All analyses were performed in accordance with standard operating procedures.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Duplicate Sample(s):
All analyses were performed in accordance with standard operating procedures.

F. Analytical Exceptions:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Elizabeth M Tepper Date: 3/13/06

Reviewed by: Date: 3/20/06

SAMPLE DATA
SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119201

% Moisture: 11

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.30	4.87	2.19	B	mg/kg	1	0.4618 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Matrix: SOIL

% Moisture: 16

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119202

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.19	4.46	2.20	B	mg/kg	1	0.5344 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119203

% Moisture: 20

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.16	4.36	1.76	B	mg/kg	1	0.5737 G	E350.3	02/16/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119204

% Moisture: 10

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.05	3.92	1.65	B	mg/kg	1	0.5675 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119205

% Moisture: 17

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.15	4.32	1.67	B	mg/kg	1	0.5573 G	E350.3	02/16/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119206

% Moisture: 11

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.24	4.65	1.66	B	mg/kg	1	0.483 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Matrix: SOIL

% Moisture: 30

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119207

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.51	5.66	2.02	B	mg/kg	1	0.5046 G	E350.3	02/16/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119208

% Moisture: 7

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.15	4.32	3.81	B	mg/kg	1	0.4982 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119209

% Moisture: 24

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.33	4.98	4.15	B	mg/kg	1	0.5288 G	E350.3	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0216

SDG No.: F1192

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0216

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.534	2.00	1.10	B	mg/kg	1	1 G	E350.3	02/16/06

QC DATA
SUMMARY

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 02/16/06 1000

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606NH3

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Ammonia-N	0.10	154	1.0	97.0	10.0	45.1	100	-13						

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 02/16/06 1000

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606NH3

Analyte	Curve Type	r	Q
Ammonia-N	LNR	0.9995	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Second Source ID: ICV-0216

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606NH3

Analyte	Expected	Found	%D	Q
Ammonia-N	1	1.08	8.0	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Analytical Lot ID: 021606NH32

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606NH3

CCV #1 ID: CV1-0216 CCV #2 ID: CV2-0216 CCV #3 ID: CV3-0216

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Ammonia-N	1	1.05	5.4		10	9.14	-8.6		1	1.09	9.0	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0216

SDG No.: F1192

Analysis Method: E350.3

Initial Cal ID: 021606NH3

Matrix: (Soil/Water) SOIL

Instrument: NONE

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0216

Date Analyzed: 02/16/06

Time Analyzed: 1049

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
04	BS1S0216	BS1S0216	02/16/06	1039
06	J116N1	F119201	02/16/06	1052
07	J116N3	F119202	02/16/06	1054
08	J112B7	F119203	02/16/06	1055
09	J116N2	F119204	02/16/06	1056
10	J116M4	F119205	02/16/06	1058
11	J116N0	F119206	02/16/06	1059
12	J11731	F119207	02/16/06	1101
13	J116M5	F119208	02/16/06	1105
14	J116M8	F119209	02/16/06	1106

COMMENTS:

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

LCS ID: BS1S0216

Initial Cal ID: 021606NH3

Date Analyzed: 02/16/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1039

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Ammonia-N	20	21.6	108.0	80-120	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 021606NH32

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL-1	LEVEL-1	02/16/06	1000
02	LEVEL-2	LEVEL-2	02/16/06	1005
03	LEVEL-3	LEVEL-3	02/16/06	1010
04	LEVEL-4	LEVEL-4	02/16/06	1015
05	CV1-0216	CV1-0216	02/16/06	1025
06	CV2-0216	CV2-0216	02/16/06	1025
07	ICV-0216	ICV-0216	02/16/06	1039
08	BS1S0216	BS1S0216	02/16/06	1039
09	SB1-0216	SB1-0216	02/16/06	1049
10	J116N1	F119201	02/16/06	1052
11	J116N3	F119202	02/16/06	1054
12	J112B7	F119203	02/16/06	1055
13	J116N2	F119204	02/16/06	1056
14	J116M4	F119205	02/16/06	1058
15	J116N0	F119206	02/16/06	1059
16	J11731	F119207	02/16/06	1101
17	J116M5	F119208	02/16/06	1105
18	J116M8	F119209	02/16/06	1106
19	CV3-0216	CV3-0216	02/16/06	1115

COMMENTS: _____

CH2MHILL
Applied Sciences Laboratory

CH2M HILL
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2300 NW Walnut Blvd.
P.O. Box 428
Corvallis, OR 97330-0428
Telephone: 541-752-4271
Fax: 541-752-0276

03/15/06

MDL Study Report

Analytical Method: E350.3

Matrix: Soil

Instrument ID: NONE

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Ammonia	08/05/05	2	2.18	1.70	1.73	1.70	1.73	1.74	1.81		0.170	0.534

ANIONS BY METHOD EPA300.0A

CASE NARRATIVE
ANIONS

Analytical Method: EPA300.0 Batch No.: F1192

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 334247.AQ.ZZ

Base/Command: ELR Consulting Prime Contractor.:

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate Sample(s):
Samples were analyzed in accordance with SOP.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Analytical Exception:
None.

F. Other:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Li Date: 3/3/06

Reviewed by: Douglas A. Hardy Date: 3/7/06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Matrix: SOIL

% Moisture: 11

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119201

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0123	0.254	0.294		mg/kg	1	5.538 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0110	0.254	0.254	U	mg/kg	1	5.538 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.00952	0.254	1.84		mg/kg	1	5.538 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00911	0.254	0.254	U	mg/kg	1	5.538 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0164	0.254	2.54		mg/kg	1	5.538 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119202

% Moisture: 16

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0128	0.263	0.364		mg/kg	1	5.661 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0114	0.263	0.263	U	mg/kg	1	5.661 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.00987	0.263	1.40		mg/kg	1	5.661 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00944	0.263	0.263	U	mg/kg	1	5.661 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0170	0.263	3.07		mg/kg	1	5.661 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119203

% Moisture: 20

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0129	0.266	0.578		mg/kg	1	5.864 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0116	0.266	0.266	U	mg/kg	1	5.864 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.0100	0.266	0.824		mg/kg	1	5.864 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00957	0.266	0.266	U	mg/kg	1	5.864 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0172	0.266	2.97		mg/kg	1	5.864 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Matrix: SOIL

% Moisture: 10

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119204

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0121	0.250	0.310		mg/kg	1	5.564 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0108	0.250	0.250	U	mg/kg	1	5.564 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.00937	0.250	1.69		mg/kg	1	5.564 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00896	0.250	0.250	U	mg/kg	1	5.564 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0161	0.250	2.14		mg/kg	1	5.564 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Matrix: SOIL

% Moisture: 17

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119205

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0138	0.285	0.337		mg/kg	1	5.285 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0124	0.285	0.285	U	mg/kg	1	5.285 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.0107	0.285	0.536		mg/kg	1	5.285 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.0102	0.285	0.285	U	mg/kg	1	5.285 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0184	0.285	3.07		mg/kg	1	5.285 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119206

% Moisture: 11

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0125	0.257	0.417		mg/kg	1	5.468 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0112	0.257	0.257	U	mg/kg	1	5.468 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.00965	0.257	1.40		mg/kg	1	5.468 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00922	0.257	0.257	U	mg/kg	1	5.468 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0166	0.257	2.74		mg/kg	1	5.468 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Matrix: SOIL

% Moisture: 30

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119207

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0154	0.317	3.92		mg/kg	1	5.64 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0137	0.317	0.317	U	mg/kg	1	5.64 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.0119	0.317	0.865		mg/kg	1	5.64 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.0114	0.317	0.317	U	mg/kg	1	5.64 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0204	0.317	23.6		mg/kg	1	5.64 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119208

% Moisture: 7

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0123	0.253	0.343		mg/kg	1	5.305 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0110	0.253	0.253	U	mg/kg	1	5.305 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.00951	0.253	0.737		mg/kg	1	5.305 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00910	0.253	0.253	U	mg/kg	1	5.305 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0163	0.253	1.29		mg/kg	1	5.305 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Matrix: SOIL

% Moisture: 24

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119209

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0130	0.267	0.276		mg/kg	1	6.155 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0116	0.267	0.267	U	mg/kg	1	6.155 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.0100	0.267	0.835		mg/kg	1	6.155 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.00960	0.267	0.267	U	mg/kg	1	6.155 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0172	0.267	3.10		mg/kg	1	6.155 G	E300.0A	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0215

SDG No.: F1192

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0215

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0243	0.500	0.120	B	mg/kg	1	2.5 G	E300.0A	02/15/06
16984-48-8	Fluoride	0.0217	0.500	0.500	U	mg/kg	1	2.5 G	E300.0A	02/15/06
14797-55-8	Nitrate-N	0.0188	0.500	0.500	U	mg/kg	1	2.5 G	E300.0A	02/15/06
14797-65-0	Nitrite-N	0.0180	0.500	0.500	U	mg/kg	1	2.5 G	E300.0A	02/15/06
14808-79-8	Sulfate	0.0323	0.500	0.500	U	mg/kg	1	2.5 G	E300.0A	02/15/06

QC DATA SUMMARY

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 01/30/06 18:27

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Chloride	0.020	0.0032	0.050	0.0041	0.10	0.023	0.50	0.050	1.0	0.11	5.0	0.67	10.0	1.5
Fluoride					0.10	0.0085	0.50	0.046	1.0	0.13	5.0	0.85	10.0	1.8
Nitrate-N	0.020	0.0059	0.050	0.012	0.10	0.067	0.50	0.14	1.0	0.32	5.0	1.8	10.0	4.1
Nitrite-N	0.020	0.0067	0.050	0.012	0.10	0.050	0.50	0.10	1.0	0.25	5.0	1.4	10.0	3.0
Sulfate	0.060	0.0065	0.15	0.014	0.60	0.059	1.5	0.13	3.0	0.27	15.0	1.5	30.0	3.2

Comments:

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 01/30/06 18:27

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Curve Type	r	Q
Chloride	LNR	0.9985	
Fluoride	LNR	0.9988	
Nitrate-N	LNR	0.9983	
Nitrite-N	LNR	0.9988	
Sulfate	LNR	0.9991	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Second Source ID: ICV-0130

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

Analyte	Expected	Found	%D	Q
Chloride	5	5.06	1.2	
Fluoride	5	4.57	-8.6	
Nitrate-N	7.19	7.13	-0.8	
Nitrite-N	1.13	1.02	-9.4	
Sulfate	5	5.14	2.8	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Analytical Lot ID: 021506Q2

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: 300A-013006

CCV #1 ID: CV3-0215 CCV #2 ID: CV4-0215 CCV #3 ID:

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Chloride	5	5.19	3.7		2.5	2.63	5.2					
Fluoride	5	5.24	4.8		2.5	2.66	6.3					
Nitrate-N	5	5.07	1.5		2.5	2.74	9.5					
Nitrite-N	5	5.16	3.2		2.5	2.71	8.6					
Sulfate	15	16.4	9.1		7.5	8.22	9.6					

Comments:

3-WC

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0215

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Sample ID: SB1-0215

Initial Cal ID: 300A-013006

Date Analyzed: 02/15/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 2131

Instrument: ICQ

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
16	BS1S0215	BS1S0215	02/15/06	2052
18	BS3S0215	BS3S0215	02/15/06	2111
19	BS4S0215	BS4S0215	02/15/06	2121
21	J116N1	F119201	02/15/06	2139
24	J116N3	F119202	02/15/06	2209
25	J112B7	F119203	02/15/06	2219
26	J116N2	F119204	02/15/06	2229
27	J116M4	F119205	02/15/06	2238
28	J116N0	F119206	02/15/06	2248
29	J11731	F119207	02/15/06	2258
30	J116M5	F119208	02/15/06	2307
31	J116M8	F119209	02/15/06	2317

COMMENTS:

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS1S0215

Initial Cal ID: 300A-013006

Date Analyzed: 02/15/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 2052

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Chloride	50	53.9	107.7	70-130	
Fluoride	50	57.1	114.1	70-130	
Sulfate	50	54.1	108.1	70-130	

* Values outside of QC limits

Comments:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS3S0215

Initial Cal ID: 300A-013006

Date Analyzed: 02/15/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 2111

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrite-N	11.3	10.7	94.3	70-130	

* Values outside of QC limits

Comments:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS4S0215

Initial Cal ID: 300A-013006

Date Analyzed: 02/15/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 2121

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrate-N	71.9	77.6	107.9	70-130	

* Values outside of QC limits

Comments:

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 300A-013006

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	LEVEL1	LEVEL1	01/30/06	1729
03	LEVEL2	LEVEL2	01/30/06	1739
04	LEVEL3	LEVEL3	01/30/06	1749
05	LEVEL4	LEVEL4	01/30/06	1758
06	LEVEL5	LEVEL5	01/30/06	1808
07	LEVEL6	LEVEL6	01/30/06	1818
08	LEVEL7	LEVEL7	01/30/06	1827
10	ICV-0130	ICV-0130	01/30/06	1846
11	ICV-0130	ICV-0130	01/30/06	1856
13	ICV-0130	ICV-0130	01/30/06	1916

COMMENTS: _____

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 021506Q2

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
15	CV3-0215	CV3-0215	02/15/06	2042
16	BS1S0215	BS1S0215	02/15/06	2052
18	BS3S0215	BS3S0215	02/15/06	2111
19	BS4S0215	BS4S0215	02/15/06	2121
20	SB1-0215	SB1-0215	02/15/06	2131
21	J116N1	F119201	02/15/06	2139
24	J116N3	F119202	02/15/06	2209
25	J112B7	F119203	02/15/06	2219
26	J116N2	F119204	02/15/06	2229
27	J116M4	F119205	02/15/06	2238
28	J116N0	F119206	02/15/06	2248
29	J11731	F119207	02/15/06	2258
30	J116M5	F119208	02/15/06	2307
31	J116M8	F119209	02/15/06	2317
32	CV4-0215	CV4-0215	02/15/06	2337

COMMENTS: _____

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03/03/06

MDL Study Report

Analytical Method: E300.0A

Matrix: Soil

Instrument ID: ICO

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Nitrate	11/01/05	0.25	0.225	0.250	0.215	0.240	0.245	0.225	0.255		0.0149	0.0469
Nitrite-N	11/01/05	0.25	0.230	0.270	0.270	0.260	0.270	0.260	0.265		0.0143	0.0449
Sulfate	11/01/05	0.75	0.790	0.735	0.730	0.795	0.775	0.750	0.760		0.0256	0.0806
Chloride	11/01/05	0.25	0.315	0.315	0.340	0.340	0.290	0.300	0.330		0.0193	0.0607
Fluoride	11/02/05	0.5	0.505	0.480	0.500	0.470	0.490	0.485	0.455		0.0173	0.0543

PERCENT MOISTURE
ASTM D2216

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119201

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	11.0		%	1	20.793 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119202

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	16.3		%	1	9.122 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119203

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	20.3		%	1	19.975 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119204

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	10.1		%	1	19.309 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119205

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	17.1		%	1	13.76 G	ASTM D2216	02/15/06

BT060322-15:13-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119206

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	11.1		%	1	19.62 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119207

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	30.3		%	1	20.851 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119208

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	6.57		%	1	18.247 G	ASTM D2216	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119209

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	23.6		%	1	18.417 G	ASTM D2216	02/15/06

PARTICLE SIZE
METHOD 422

Hanford

Particle Size

695.4 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KM** **03/13/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119201	J116N1	8	2362	2.362	394.70	56.83	56.83	43.17
		16	1180	1.180	58.30	8.39	65.23	34.77
		30	600	0.600	32.20	4.64	69.86	30.14
		50	500	0.500	129.50	18.65	88.51	11.49
		100	147	0.147	70.90	10.21	98.72	1.28
		200	75	0.075	7.20	1.04	99.76	0.24
		pan			1.70	0.24	100.00	0.00
		total			694.5			

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Hanford

Particle Size

506.2 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KM 03/13/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119202	J116N3	8	2362	2.362	342.30	67.76	67.76	32.24
		16	1180	1.180	43.50	8.61	76.37	23.63
		30	600	0.600	20.90	4.14	80.50	19.50
		50	500	0.500	20.00	3.96	84.46	15.54
		100	147	0.147	37.60	7.44	91.90	8.10
		200	75	0.075	30.30	6.00	97.90	2.10
		pan			10.60	2.10	100.00	0.00
		total			505.2			

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Hanford

Particle Size

805.0 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KM** **03/13/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119203	J112B7	8	2362	2.362	206.50	25.68	25.68	74.32
		16	1180	1.180	47.50	5.91	31.58	68.42
		30	600	0.600	245.10	30.48	62.06	37.94
		50	500	0.500	238.60	29.67	91.73	8.27
		100	147	0.147	34.20	4.25	95.98	4.02
		200	75	0.075	20.00	2.49	98.47	1.53
		pan			12.30	1.53	100.00	0.00
		total			804.2			

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Hanford

Particle Size

804.4 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KM 03/14/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119204	J116N2	8	2362	2.362	465.40	57.94	57.94	42.06
		16	1180	1.180	61.00	7.59	65.53	34.47
		30	600	0.600	33.50	4.17	69.70	30.30
		50	500	0.500	146.10	18.19	87.89	12.11
		100	147	0.147	88.70	11.04	98.93	1.07
		200	75	0.075	4.60	0.57	99.50	0.50
		pan			4.00	0.50	100.00	0.00
		total			803.3			

CH2M HILL
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Hanford

Particle Size

1376.8 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/16/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119205	J116M4	8	2362	2.362	509.00	36.96	36.96	63.04
		16	1180	1.180	68.70	4.99	41.95	58.05
		30	600	0.600	221.80	16.11	58.06	41.94
		50	500	0.500	340.50	24.73	82.78	17.22
		100	147	0.147	181.60	13.19	95.97	4.03
		200	75	0.075	40.30	2.93	98.90	1.10
		pan			15.20	1.10	100.00	0.00
		total			1377.1			

CH2M HILL
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Hanford

Particle Size

780.2 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/16/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119206	J116N0	8	2362	2.362	574.80	73.70	73.70	26.30
		16	1180	1.180	122.20	15.67	89.37	10.63
		30	600	0.600	38.80	4.97	94.35	5.65
		50	500	0.500	23.30	2.99	97.33	2.67
		100	147	0.147	12.10	1.55	98.88	1.12
		200	75	0.075	4.10	0.53	99.41	0.59
		pan			4.60	0.59	100.00	0.00
		total			779.9			

CH2M HILL
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2300 NW Walnut Blvd., Corvallis, OR 97330-3538
P.O. Box 428, Corvallis, OR 97339-0428
Tel 541.752.4271 Fax 541.752.0276

Hanford

Particle Size

635.5 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/16/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119207	J11731	8	2362	2.362	0.60	574.80	574.80	-474.80
		16	1180	1.180	1.80	122.20	697.00	-597.00
		30	600	0.600	6.40	38.80	735.80	-635.80
		50	500	0.500	85.80	13.52	749.32	-649.32
		100	147	0.147	439.60	69.28	818.61	-718.61
		200	75	0.075	84.40	13.30	831.91	-731.91
		pan			15.90	2.51	834.41	-734.41
		total			634.5			

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Hanford

Particle Size

753.9 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/16/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119208	J116M5	8	2362	2.362	480.90	574.80	574.80	-474.80
		16	1180	1.180	45.40	122.20	697.00	-597.00
		30	600	0.600	58.80	38.80	735.80	-635.80
		50	500	0.500	127.60	16.96	752.76	-652.76
		100	147	0.147	27.40	3.64	756.41	-656.41
		200	75	0.075	6.40	0.85	757.26	-657.26
		pan			5.70	0.76	758.01	-658.01
		total			752.2			

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Hanford

Particle Size

867.2 **g sample used**

Weight retained is the weight of material ON each sieve

ANALYST: **KE** **03/16/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F119209	J116M8	8	2362	2.362	2.30	574.80	574.80	-474.80
		16	1180	1.180	5.80	122.20	697.00	-597.00
		30	600	0.600	41.90	38.80	735.80	-635.80
		50	500	0.500	348.20	40.27	776.07	-676.07
		100	147	0.147	447.90	51.80	827.87	-727.87
		200	75	0.075	12.90	1.49	829.36	-729.36
		pan			5.70	0.66	830.02	-730.02
		total			864.7			

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pH
METHOD SW9045C

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Matrix: SOIL

% Moisture: 11

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119201

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.73		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Matrix: SOIL

% Moisture: 16

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119202

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.72		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Matrix: SOIL

% Moisture: 20

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119203

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.54		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Matrix: SOIL

% Moisture: 10

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119204

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.89		pH	1	20 G	SW9045C	02/15/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Matrix: SOIL

% Moisture: 17

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119205

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.85		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Matrix: SOIL

% Moisture: 11

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119206

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.89		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119207

% Moisture: 30

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.40		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Matrix: SOIL

% Moisture: 7

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119208

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.70		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Matrix: SOIL

% Moisture: 24

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119209

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.63		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0215

SDG No.: F1192

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0215

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	6.19		pH	1	20 G	SW9045C	02/15/06

ET060315-18:53-F1192-W

FORM I GEN CHEM

TKN
METHOD EPA 351.4

CASE NARRATIVE
TKN

Analytical Method: EPA 351.4 Batch No.: F1192

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

Project Name: ELR Consulting Prime Contractor.:

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate(MS/MSD)
All analyses were performed in accordance with standard operating procedures.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Duplicate Sample(s):
All analyses were performed in accordance with standard operating procedures.

F. Analytical Exceptions:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Elizabeth M Tipps Date: 3/14/06

Reviewed by: Date: 3/20/06

SAMPLE DATA
SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119201

% Moisture: 11

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	47.3	226	825		mg/kg	1	0.4974 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Matrix: SOIL

% Moisture: 16

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119202

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	49.3	235	1090		mg/kg	1	0.5062 G	E351.4	02/16/06

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119203

% Moisture: 20

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	51.3	245	266		mg/kg	1	0.5106 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Matrix: SOIL

% Moisture: 10

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119204

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	43.6	208	201	B	mg/kg	1	0.5344 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119205

% Moisture: 17

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	52.2	249	314		mg/kg	1	0.484 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Matrix: SOIL

% Moisture: 11

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119206

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	42.7	204	240		mg/kg	1	0.5512 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Matrix: SOIL

% Moisture: 30

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119207

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	52.0	248	164	B	mg/kg	1	0.5763 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F119208

% Moisture: 7

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	42.1	201	372		mg/kg	1	0.535 G	E351.4	02/16/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Matrix: SOIL

% Moisture: 24

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119209

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	54.5	260	345		mg/kg	1	0.5063 G	E351.4	02/16/06

MB060320-14:25-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0216

SDG No.: F1192

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0216

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	21.0	100	88.5	B	mg/kg	1	1 G	E351.4	02/16/06

QC DATA
SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 02/16/06 1400

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606TKN

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Total Kjeldahl Nitrogen	2.0	168	20.0	116	200	53.4	2000	-7.8						

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 02/16/06 1400

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606TKN

Analyte	Curve Type	r	Q
Total Kjeldahl Nitrogen as N	LNR	0.9986	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Second Source ID: ICV-0216

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606TKN

Analyte	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	13.6	14.4	5.5	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Analytical Lot ID: 021606TKN

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 021606TKN

CCV #1 ID: CV1-0216 CCV #2 ID: CV2-0216 CCV #3 ID: CV3-0216

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	20	17.2	-13.8		200	196	-2.1		20	18.3	-8.6	

Comments:

3-WC

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0216

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Lab Sample ID: SB1-0216

Initial Cal ID: 021606TKN

Date Analyzed: 02/16/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1435

Instrument: NONE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
09	BS1S0216	BS1S0216	02/16/06	1425
12	J116N1	F119201	02/16/06	1441
13	J116N3	F119202	02/16/06	1444
14	J112B7	F119203	02/16/06	1451
15	J116N2	F119204	02/16/06	1453
16	J116M4	F119205	02/16/06	1455
18	J11731	F119207	02/16/06	1501
19	J116M5	F119208	02/16/06	1509
20	J116M8	F119209	02/16/06	1511

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

LCS ID: BS1S0216

Initial Cal ID: 021606TKN

Date Analyzed: 02/16/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1425

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Total Kjeldahl Nitrogen as N	680	718	105.5	75-125	

* Values outside of QC limits

Comments:

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 021606TKN

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL-1	LEVEL-1	02/16/06	1400
02	LEVEL-2	LEVEL-2	02/16/06	1405
03	LEVEL-3	LEVEL-3	02/16/06	1407
04	LEVEL-4	LEVEL-4	02/16/06	1410
05	CV1-0216	CV1-0216	02/16/06	1415
06	CV2-0216	CV2-0216	02/16/06	1417
07	ICV-0216	ICV-0216	02/16/06	1425
09	BS1S0216	BS1S0216	02/16/06	1425
10	SB1-0216	SB1-0216	02/16/06	1435
12	J116N1	F119201	02/16/06	1441
13	J116N3	F119202	02/16/06	1444
14	J112B7	F119203	02/16/06	1451
15	J116N2	F119204	02/16/06	1453
16	J116M4	F119205	02/16/06	1455
17	J116N0	F119206	02/16/06	1456
18	J11731	F119207	02/16/06	1501
19	J116M5	F119208	02/16/06	1509
20	J116M8	F119209	02/16/06	1511
22	CV3-0216	CV3-0216	02/16/06	1536

COMMENTS: _____

CH2MHILL
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03/20/06

MDL Study Report

Analytical Method: E351.4

Instrument ID: NONE

Matrix: Soil

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Total Kjeldahl Nitrogen	03/17/05	100	100	109	113	103	101	116	99.8		6.66	21.0

TOTAL ORGANIC CARBON
BY ASTM E777-81

CASE NARRATIVE
TOC SOIL

Analytical Method: ASTM E-777 Batch No.: F1192

Lab Name: CH2M HILL Applied Sciences Lab Contract #.: 920842.OTC

I. Holding Times:
All acceptance criteria were met.

II. Analysis:

A. Calibration:
All acceptance criteria were met.

B. Blanks:
All acceptance criteria were met.

C. Matrix Spike/Matrix Spike Duplicate Sample(s):
Samples were analyzed in accordance with SOP.

D. Laboratory Control Spike(LCS)
All acceptance criteria were met.

E. Analytical Exception:
None.

F. Other:
None.

III. Sampling Equipment:
None.

IV. Documentation Exceptions:
None

V. I certify that this data package is in compliance with the terms and conditions agreed to by the client and CH2M HILL, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

Reported by: Date: 2-27-06

Reviewed by: Date: 2/28/6

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N1

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119201

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	35.9	103	1790		mg/kg	1	0.9725 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N3

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119202

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	44.1	126	7460		mg/kg	1	0.7921 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J112B7

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119203

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	42.1	121	1410		mg/kg	1	0.8292 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N2

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119204

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	34.4	98.4	2650		mg/kg	1	1.0166 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M4

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119205

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	26.0	74.4	458		mg/kg	1	1.3445 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116N0

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119206

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	33.2	95.0	6110		mg/kg	1	1.0528 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J11731

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119207

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	34.1	97.5	1660		mg/kg	1	1.0257 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M5

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119208

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	36.6	105	1540		mg/kg	1	0.9554 G	ASTM E-777	02/20/06

AD060227-13:44-F1192-W

FORM I GEN CHEM

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J116M8

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F119209

Date Received: 02/14/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	30.6	87.5	1200		mg/kg	1	1.1427 G	ASTM E-777	02/20/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

SB1-0220

SDG No.: F1192

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0220

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	35.0	100	100	U	mg/kg	1	1 G	ASTM E-777	02/20/06

QC SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Initial Calibration Date: 10/14/05 11:48

Instrument Name: TOC Skalar

Concentration Units: mg/Kg

Initial Calibration ID: 101405S1

Analyte	Std 1	Resp 1	Std 2	Resp 2	Std 3	Resp 3	Std 4	Resp 4	Std 5	Resp 5	Std 6	Resp 6	Std 7	Resp 7
Total Organic Carbon	100	737000	200	1600000	1000	6840000	4000	2.48E+7	8000	4.79E+7				

Comments:

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Initial Calibration Date: 10/14/05 11:48

Instrument Name: TOC Skalar

Concentration Units: mg/Kg

Initial Calibration ID: 101405S1

Analyte	Curve Type	r	Q
Total Organic Carbon	LNR	0.9997	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Second Source ID: ICV-1014

Instrument Name: TOC Skalar

Concentration Units: mg/kg

Initial Calibration ID: 101405S1

Analyte	Expected	Found	%D	Q
Total Organic Carbon	6430	6680	3.9	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Analytical Lot ID: 022006TOCS

Instrument Name: TOC Skalar

Concentration Units: mg/kg

Initial Calibration ID: 101405S1

CCV #1 ID: CV1-0220 CCV #2 ID: CV2-0220 CCV #3 ID: CV3-0220

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Organic Carbon	4000	3820	-4.4		4000	3970	-0.7		4000	4040	0.9	

Comments:

3-WC

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID:

SB1-0220

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Lab Sample ID: SB1-0220

Initial Cal ID: 101405S1

Date Analyzed: 02/20/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1043

Instrument: TOC Skalar

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	BS1S0220	BS1S0220	02/20/06	1034
09	J116N1	F119201	02/20/06	1317
10	J116N3	F119202	02/20/06	1326
11	J112B7	F119203	02/20/06	1336
12	J116N2	F119204	02/20/06	1345
13	J116M4	F119205	02/20/06	1418
17	J116N0	F119206	02/20/06	1501
18	J11731	F119207	02/20/06	1513
19	J116M5	F119208	02/20/06	1525
20	J116M8	F119209	02/20/06	1542

COMMENTS:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

LCS ID: BS1S0220

Initial Cal ID: 101405S1

Date Analyzed: 02/20/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1034

Instrument: TOC Skalar

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Total Organic Carbon	8840	9270	104.8	75-125	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Lab Code: CVO

Instrument: TOC Skalar

Analytical Lot ID: 101405TOCS

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	LEVEL1	LEVEL1	10/14/05	1148
03	LEVEL2	LEVEL2	10/14/05	1158
04	LEVEL3	LEVEL3	10/14/05	1208
05	LEVEL4	LEVEL4	10/14/05	1218
06	LEVEL5	LEVEL5	10/14/05	1228
07	ICV-1014	ICV-1014	10/14/05	1252

COMMENTS:

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F1192

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E-777

Lab Code: CVO

Instrument: TOC Skalar

Analytical Lot ID: 022006TOCS

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	CV1-0220	CV1-0220	02/20/06	1022
02	BS1S0220	BS1S0220	02/20/06	1034
03	SB1-0220	SB1-0220	02/20/06	1043
09	J116N1	F119201	02/20/06	1317
10	J116N3	F119202	02/20/06	1326
11	J112B7	F119203	02/20/06	1336
12	J116N2	F119204	02/20/06	1345
13	J116M4	F119205	02/20/06	1418
16	CV2-0220	CV2-0220	02/20/06	1455
17	J116N0	F119206	02/20/06	1501
18	J11731	F119207	02/20/06	1513
19	J116M5	F119208	02/20/06	1525
20	J116M8	F119209	02/20/06	1542
21	CV3-0220	CV3-0220	02/20/06	1552

COMMENTS: _____

CH2MHILL
Applied Sciences Laboratory

CH2M HILL
Applied Sciences Labortory (ASL)
2300 NW Walnut Blvd.
P.O. Box 428
Corvallis, OR 97330-0428
Telephone: 541-752-4271
Fax: 541-752-0276

02/27/06

MDL Study Report

Analytical Method: ASTM E-777

Matrix: Soil

Instrument ID: TOC Skalar

Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates 1	2	3	4	5	6	7	8	Std. Dev.	MDL
Total Organic Carbon	08/17/05	140	31.0	14.4	8.89	29.4	32.4	27.1	6.37		11.1	35.0

CHAIN OF CUSTODY/SHIPPING DOCUMENTS

F 1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-50	Page 1 of 1

Collector: TILLER JAMES BERNHARD	Company Contact: JOAN KESSNER	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: REF 12 SEDIMENT		SAF No.: RC-047
Ice Chest No.: ERC-99-065	Field Logbook No.: EL-1597	COA: BESRAS6520	Method of Shipment: GROUND TRANSPORT
Shipped To: CH2MHILL	Offsite Property No.: A060151		Bill of Lading/Air Bill No.: SEE OSPC

Price Code: 9N

Air Quality: ☐

Data Turnaround: 21 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	P/G	P/G								
No. of Container(s)	X2 JFD 1-9-06	1	1								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J116N1	OTHER SOLID	2-9-06	1530	X	X	X							1

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-9-06 1530	EAS LOCKED STORAGE	2-9-06 1830
EAS LOCKED STORAGE	02-13-06 0745	RZ Steffler R.J. Steffler	2-13-06 0745
RZ Steffler R.J. Steffler	2-13-06 1500 WCH	Fed Ex	
FED-X	2-14 145	Mike Stanaway	2-14-06 1100
		Kathy McAnley	2/14/06 1335

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-05 = Hyalella
B1539-05 = Nutsedge/Pakchoi
F 1192-01
COC intact.

Matrix *: S=Soil, SE=Sediment, SO=Solid, SI=Sludge, W = Water, D=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-52	Page 1 of 1

Collector: TILLER JAMES BERNHARD	Company Contact: JOAN KESSNER	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: REF/3 SEDIMENT		SAF No.: RC-047
Ice Chest No.: ERC-99-065	Field Logbook No.: EL-1597	COA: BESRAS6520	Method of Shipment: GROUND TRANSPORT
Shipped To: CH2MHILL	Offsite Property No.: A060151		Bill of Lading/Air Bill No.: SEE OSPC

Price Code: 9N

Air Quality: ☐

Data Turnaround: 21 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	P/G	P/G								
No. of Container(s)	~~1~~ 2 2-9-06 KSB	1	1								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J116N3	OTHER SOLID	2-9-06	1400	X	X	X							2

CHAIN OF POSSESSION	Sign/Print Names
Relinquished By/Removed From: JAMES BERNHARD Date/Time: 2-9-06 1400	Received By/Stored In: EAS LOCKED STORAGE Date/Time: 2-9-06 1400
Relinquished By/Removed From: EAS LOCKED STORAGE Date/Time: 02-13-06 0745	Received By/Stored In: RZ Stettler Date/Time: 2-13-06 0745
Relinquished By/Removed From: RZ Stettler Date/Time: 2-13-06 1500 WLH	Received By/Stored In: Fed Ex Date/Time:
Relinquished By/Removed From: Fed-X Date/Time:	Received By/Stored In: [signature] Date/Time: 2-14-06 1100
Relinquished By/Removed From: Date/Time:	Received By/Stored In: Kathy McKenley Date/Time: 2/14/06 1335
Relinquished By/Removed From: Date/Time:	Received By/Stored In: Date/Time:

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-06 Hyalella

B1539-06 Nutsedge/Pakchoi

Custody seals intact

F1192-02

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F 1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-27	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 5, SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. ERC-96-012	Field Logbook No. EL-1598 7 & 1310 6	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	Poly Bag	Poly Bag								
No. of Container(s)	1	1	1								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J112B7	OTHER SOLID	2-12-06	1200	X	X	X							3

CHAIN OF POSSESSION	Sign/Print Names
Relinquished By/Removed From JAMES BERNHARD Date/Time 1900 2-12-06	Received By/Stored In EAS LOCKED STORAGE Date/Time 1900 2-12-06
Relinquished By/Removed From EAS LOCKED STORAGE Date/Time 0745 02-13-06	Received By/Stored In RZ Steffler Date/Time 0745 2-13-06
Relinquished By/Removed From RZ Steffler Date/Time 1500 2-13-06	Received By/Stored In Fed Ex Date/Time
Relinquished By/Removed From Fed-X Date/Time	Received By/Stored In Date/Time 2-14-06
Relinquished By/Removed From Date/Time	Received By/Stored In Kathy McCauley Date/Time 2/14/06 1335
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

Cooler temp for Chemical analysis = 1.4 °C

B1538-07 Hydrilla

B1539-07 Nutsedge/Pakchoi

Custody seals intact

F1192-03

Matrix *

S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F 1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-51	Page 1 of 1

Collector: TILLER JAMES BERNHARD	Company Contact: JOAN KESSNER	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: REF 12 SEDIMENT		SAF No.: RC-047
Ice Chest No.: ERC-96-012	Field Logbook No.: EL-1597	COA: BESRAS6520	Method of Shipment: GROUND TRANSPORT
Shipped To: CH2MHILL	Offsite Property No.: A060151		Bill of Lading/Air Bill No.: SEE OSPC

Price Code: 9N

Air Quality ☐

Data Turnaround: 21 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	#6 DEB 2-9-06	1	1									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									

Sample No.	Matrix *	Sample Date	Sample Time										
J116N2	OTHER SOLID	2-9-06	1445	X	X	X							4

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	1830 2-9-06	EAS LOCKED STORAGE	1830 2-9-06
EAS LOCKED STORAGE	0745 02-13-06	RZ Steffler R.J. Steffler	0745 2-13-06
RZ Steffler R.J. Steffler	1500 WCH 2-13-06	Fed Ex	
Fed-X		[illegible]	2-14-06 1100
		Kathy McKenley	2/14/06 1335

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-~~09~~ 08 ms Hyalella

B1539-~~09~~ 08 ms Nutsedge/Pickerel

custody seals intact

F1192-04

Matrix *: S=Soil, SE=Sediment, SO=Solid, Sl=Sludge, W = Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-43	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr 9 SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. AFS-04-034	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

~~COOL 4C~~ RZS 2-13-06
Cool 4°C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	500 x 2 2-12-06	1	1									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									
Sample No. / Matrix * / Sample Date / Sample Time												
J116M4 / OTHER SOLID / 2-12-06 / 1400	X	X	X									5

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
JAMES BERNHARD	2-12-06 1900	EAS LOCKED STORAGE	2-12-06 1900
EAS LOCKED STORAGE	02-12-06 0745	RZ Stoffler R.Z. Stoffler	2-12-06 0745
RZ Stoffler R.Z. Stoffler	2-13-06 1500	Fed Ex	
Fed-X		[illegible]	2-14-06 1100
		Kmacauley	2/14/06 1335

SPECIAL INSTRUCTIONS

Cooler Temp = 1.4°C

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-09 ms Hydella
B1539-09 Nutsedge/Parkchin
Custody seals intact

F1192-05

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHIEE-011 (08/29/2005)

F 1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-49	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N	Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location REF/M, SEDIMENT		SAF No. RC-047	Air Quality ☐	
Ice Chest No. ERC-96-058	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT		
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	P/G	P/G								
No. of Container(s)	2 SEE 2-9-06	1	1								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J116N0	OTHER SOLID	2-9-06	1230	X	X	X							6

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From JAMES BERNHARD	Date/Time 2-9-06 1530	Received By/Stored In EAS LOCKED STORAGE	Date/Time 2-9-06 1530
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 02-13-06 0745	Received By/Stored In RC Stoffler R.J. Stoffler	Date/Time 2-13-06 0745
Relinquished By/Removed From RC Stoffler R.J. Stoffler	Date/Time 2-13-06 1500	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From Fed Ex	Date/Time	Received By/Stored In Brett Mulkey	Date/Time 2-14-06 1300
Relinquished By/Removed From	Date/Time	Received By/Stored In Kmacarlan	Date/Time 2/14/06 1335
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-10

B1539-10

COC seals intact

F1192-06

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
Te=Tissue
Wi=Wipe
Li=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F 1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-97	Page 1 of 1

Collector: TILLER JAMES BERNHARD	Company Contact: JOAN KESSNER	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 9N	Data Turnaround: 21 Days	Air Quality ☐	
Project Designation: 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location: REF//, SEDIMENT FULL QC	SAF No.: RC-047	
Ice Chest No.: ERC-96-058	Field Logbook No.: EL-1597	COA: BESRAS6520	Method of Shipment: GROUND TRANSPORT
Shipped To: CH2MHILL	Offsite Property No.: A060151	Bill of Lading/Air Bill No.: SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	2 SEB 2-9-06	1	1									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									
Sample No.	Matrix *	Sample Date	Sample Time									
J11731	OTHER SOLID	2-9-06	1600	X	X	X						7

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By/Stored In	Sign/Print Names	Date/Time
Relinquished By/Removed From	JAMES BERNHARD	2-9-06 1830	Received By/Stored In	EAS LOCKED STORAGE	2-9-06 1830
Relinquished By/Removed From	EAS LOCKED STORAGE	02-13-06 0745	Received By/Stored In	RZ Stoffler	2-13-06 0745
Relinquished By/Removed From	RZ Stoffler	2-13-06 1500	Received By/Stored In	Fed Ex	
Relinquished By/Removed From	Fed Ex		Received By/Stored In	BRETT Mckey	2-14-06 1300
Relinquished By/Removed From			Received By/Stored In	K McKinley	2/14/06 1335
Relinquished By/Removed From			Received By/Stored In		

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1532-11

B1539-11

COC seals intact

F1192-07

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-44	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER / Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9N / Data Turnaround 21 Days
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr/OSEDIMENT	SAF No. RC-047	Air Quality ☐
Ice Chest No. ERC-02-501	Field Logbook No. EL-1597 / COA BESRAS6520	Method of Shipment GROUND TRANSPORT	
Shipped To CH2MHILL	Offsite Property No. A060151	Bill of Lading/Air Bill No. SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None								
Type of Container	G/P	P/G	P/G								
No. of Container(s)	X 2 2-12-06	1	1								
Volume	1000g	3000g	19000g								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11								

Sample No.	Matrix *	Sample Date	Sample Time										
J116M5	OTHER SOLID	2-12-06	1530	X	X	X							8

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From JAMES BERNHARD	Date/Time 1500 2-12-06	Received By/Stored In EAS LOCKED STORAGE	Date/Time 1600 2-12-06
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 02-13-06 0745	Received By/Stored In RZ Stoffler	Date/Time 0745 2-13-06
Relinquished By/Removed From RZ Stoffler	Date/Time 1500 2-13-06	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From Fed Ex	Date/Time	Received By/Stored In Brett Mulkey	Date/Time 1500 2-14-06
Relinquished By/Removed From	Date/Time	Received By/Stored In K McCullay	Date/Time 2/14/06 1335
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538-12

B1539-12

COC-seals intact

F1192-08

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

F1192

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-047-47	Page 1 of 1

Collector TILLER JAMES BERNHARD	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH
Project Designation 100 & 300 Area Component of the RCBRA Sediment and Ti	Sampling Location Cr6 SEDIMENT FULL QC		SAF No. RC-047
Ice Chest No. ERC-02-501	Field Logbook No. EL-1597	COA BESRAS6520	Method of Shipment GROUND TRANSPORT
Shipped To CH2MHILL	Offsite Property No. A060151		Bill of Lading/Air Bill No. SEE OSPC

Price Code 9N

Air Quality ☐

Data Turnaround 21 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

POTENTIAL RADIOACTIVE <DOT LIMITS

Special Handling and/or Storage

COOL 4C

Preservation	Cool 4C	None	None									
Type of Container	G/P	P/G	P/G									
No. of Container(s)	JEB 2-12-06	1	1									
Volume	1000g	3000g	19000g									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Sediment Invertebrate Toxicity ASTM E1706	Sediment Phytotoxicity EEDP-04-11									

Sample No.	Matrix *	Sample Date	Sample Time										
J116M8	OTHER SOLID	2-12-06	1315	X	X	X							9

CHAIN OF POSSESSION	Sign/Print Names
Relinquished By/Removed From JAMES BERNHARD Date/Time 1900 2-12-06	Received By/Stored In EAS LOCKED STORAGE Date/Time 1900 2-12-06
Relinquished By/Removed From EAS LOCKED STORAGE Date/Time 0745 02-13-06	Received By/Stored In RZ Steffler R.J. Steffler Date/Time 0745 2-13-06
Relinquished By/Removed From RZ Steffler R.J. Steffler Date/Time 1500 WCH 2-13-06	Received By/Stored In Fed Ex Date/Time
Relinquished By/Removed From Fed Ex Date/Time	Received By/Stored In [signature] Date/Time 1300 Brett Mucky 2-14-06
Relinquished By/Removed From Date/Time	Received By/Stored In KMcKenley Date/Time 2/14/06 1335
Relinquished By/Removed From Date/Time	Received By/Stored In Date/Time

SPECIAL INSTRUCTIONS

(1) IC Anions - 300.0; Ammonia - 350.3; pH (Soil) - 9045; TOC - 9060; Moisture Content - D2216; Nitrogen by Kjeldahl - 351.2; Particle Size (Dry Sieve) - D422

B1538 - 13

B1539 - 13

COC seals intact

F1192-09

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

BHI-EE-011 (08/29/2005)

CH2MHILL
Analytical Services

Sample Receipt Record

Batch Number: F1192 Date received: 2/14/06

Client/Project ELR

VERIFICATION OF SAMPLE CONDITIONS (verify all items) * HD = Client Hand delivered Samples

Observation	YES	NO
Radiological Screening for AFCEE		X
Were custody seals intact and on the outside of the cooler?	X	
If yes, Where? Front____ Rear____ Lt Side____ Rt Side____		
Type of packing material: Ice Blue Ice Bubble wrap FOAM	X	
Was the Chain of Custody inside the cooler?	X	
Was the Chain of Custody properly filled out?	X	
Were the sample containers in good condition?	X	
Containers supplied by ASL?		X
Any sample with < 1/2 holding time remaining? If so contact LPM		X
Was there ice in the cooler? Enter temp. 1.4 C		
All VOCs free of air bubbles ?		N/A

VERIFICATION OF SAMPLE PRESERVATION

Sample No	Nutrients pH <2	Metals pH <2	Volatiles pH <2	Cyanides pH >12	TOC pH <2	TOX pH <2	Other (specify)	N/A (soils/unpres)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

LOGIN AND pH VERIFICATIONS PERFORMED BY

KMcKinley ~~2/14/06~~ 2/14/06 1320

Date/Time Date/Time

Rev 11/05/2003-recptrcd.xls

ExpectedV	Units	Dilution	MDL	RL	LabQualifi	Surrogate	Comments	ParValUnc	Recovery	LowerCont	UpperCont	Basis	ConcQual	MDLAdjus	RLAdjuste	SampleDe	LeachMeth	LeachDate	LeachTime	LeachLot	AnalysisLo	CalRefID
	PERCENT	1	0	0		N						D	=	0	0	J116N1	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116N3	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J112B7	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116N2	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116M4	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116N0	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J11731	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116M5	NONE				021506MC	NONE
	PERCENT	1	0	0		N						D	=	0	0	J116M8	NONE				021506MC	NONE
8840	MG/KG	1	60.1	172		N			104.8	75	125	D	=	60.1	172		NONE				SB1-0220	101405S1
	MG/KG	1	35.9	103		N						D	=	35.9	103	J116N1	NONE				SB1-0220	101405S1
	MG/KG	1	44.1	126		N						D	=	44.1	126	J116N3	NONE				SB1-0220	101405S1
	MG/KG	1	42.1	121		N						D	=	42.1	121	J112B7	NONE				SB1-0220	101405S1
	MG/KG	1	34.4	98.4		N						D	=	34.4	98.4	J116N2	NONE				SB1-0220	101405S1
	MG/KG	1	26	74.4		N						D	=	26	74.4	J116M4	NONE				SB1-0220	101405S1
	MG/KG	1	33.2	95		N						D	=	33.2	95	J116N0	NONE				SB1-0220	101405S1
	MG/KG	1	34.1	97.5		N						D	=	34.1	97.5	J11731	NONE				SB1-0220	101405S1
	MG/KG	1	36.6	105		N						D	=	36.6	105	J116M5	NONE				SB1-0220	101405S1
	MG/KG	1	30.6	87.5		N						D	=	30.6	87.5	J116M8	NONE				SB1-0220	101405S1
0	MG/KG	1	35	100	U	N						D	U	35	100		NONE				SB1-0220	101405S1
50	MG/KG	1	0.0243	0.5		N			107.7	70	130	D	=	0.0243	0.5		NONE				021506Q2	300A-013006
50	MG/KG	1	0.0217	0.5		N			114.1	70	130	D	=	0.0217	0.5		NONE				021506Q2	300A-013006
50	MG/KG	1	0.0323	0.5		N			108.1	70	130	D	=	0.0323	0.5		NONE				021506Q2	300A-013006
11.3	MG/KG	1	0.018	0.5		N			94.3	70	130	D	=	0.018	0.5		NONE				021506Q2	300A-013006
71.9	MG/KG	1	0.0188	0.5		N			107.9	70	130	D	=	0.0188	0.5		NONE				021506Q2	300A-013006
	MG/KG	1	0.011	0.226		N						D	=	0.0123	0.254	J116N1	NONE				021506Q2	300A-013006
	MG/KG	1	0.0098	0.226	U	N						D	U	0.011	0.254	J116N1	NONE				021506Q2	300A-013006
	MG/KG	1	0.00848	0.226		N						D	=	0.00952	0.254	J116N1	NONE				021506Q2	300A-013006
	MG/KG	1	0.00811	0.226	U	N						D	U	0.00911	0.254	J116N1	NONE				021506Q2	300A-013006
	MG/KG	1	0.0146	0.226		N						D	=	0.0164	0.254	J116N1	NONE				021506Q2	300A-013006
	MG/KG	1	0.0107	0.221		N						D	=	0.0128	0.263	J116N3	NONE				021506Q2	300A-013006
	MG/KG	1	0.00959	0.221	U	N						D	U	0.0114	0.263	J116N3	NONE				021506Q2	300A-013006
	MG/KG	1	0.00829	0.221		N						D	=	0.00987	0.263	J116N3	NONE				021506Q2	300A-013006
	MG/KG	1	0.00793	0.221	U	N						D	U	0.00944	0.263	J116N3	NONE				021506Q2	300A-013006
	MG/KG	1	0.0142	0.221		N						D	=	0.017	0.263	J116N3	NONE				021506Q2	300A-013006
	MG/KG	1	0.0104	0.213		N						D	=	0.0129	0.266	J112B7	NONE				021506Q2	300A-013006
	MG/KG	1	0.00926	0.213	U	N						D	U	0.0116	0.266	J112B7	NONE				021506Q2	300A-013006
	MG/KG	1	0.00801	0.213		N						D	=	0.01	0.266	J112B7	NONE				021506Q2	300A-013006
	MG/KG	1	0.00766	0.213	U	N						D	U	0.00957	0.266	J112B7	NONE				021506Q2	300A-013006
	MG/KG	1	0.0138	0.213		N						D	=	0.0172	0.266	J112B7	NONE				021506Q2	300A-013006
	MG/KG	1	0.0109	0.225		N						D	=	0.0121	0.25	J116N2	NONE				021506Q2	300A-013006
	MG/KG	1	0.00975	0.225	U	N						D	U	0.0108	0.25	J116N2	NONE				021506Q2	300A-013006
	MG/KG	1	0.00844	0.225		N						D	=	0.00937	0.25	J116N2	NONE				021506Q2	300A-013006
	MG/KG	1	0.00807	0.225	U	N						D	U	0.00896	0.25	J116N2	NONE				021506Q2	300A-013006
	MG/KG	1	0.0145	0.225		N						D	=	0.0161	0.25	J116N2	NONE				021506Q2	300A-013006
	MG/KG	1	0.0115	0.237		N						D	=	0.0138	0.285	J116M4	NONE				021506Q2	300A-013006
	MG/KG	1	0.0103	0.237	U	N						D	U	0.0124	0.285	J116M4	NONE				021506Q2	300A-013006
	MG/KG	1	0.00888	0.237		N						D	=	0.0107	0.285	J116M4	NONE				021506Q2	300A-013006
	MG/KG	1	0.00849	0.237	U	N						D	U	0.0102	0.285	J116M4	NONE				021506Q2	300A-013006
	MG/KG	1	0.0153	0.237		N						D	=	0.0184	0.285	J116M4	NONE				021506Q2	300A-013006
	MG/KG	1	0.0111	0.229		N						D	=	0.0125	0.257	J116N0	NONE				021506Q2	300A-013006
	MG/KG	1	0.00993	0.229	U	N						D	U	0.0112	0.257	J116N0	NONE				021506Q2	300A-013006
	MG/KG	1	0.00858	0.229		N						D	=	0.00965	0.257	J116N0	NONE				021506Q2	300A-013006

	MG/KG	1	0.00821	0.229 U	N				D	U	0.00922	0.257	J116N0	NONE	021506Q2 300A-013006
	MG/KG	1	0.0147	0.229	N				D	=	0.0166	0.257	J116N0	NONE	021506Q2 300A-013006
	MG/KG	1	0.0108	0.222	N				D	=	0.0154	0.317	J11731	NONE	021506Q2 300A-013006
	MG/KG	1	0.00962	0.222 U	N				D	U	0.0137	0.317	J11731	NONE	021506Q2 300A-013006
	MG/KG	1	0.00832	0.222	N				D	=	0.0119	0.317	J11731	NONE	021506Q2 300A-013006
	MG/KG	1	0.00796	0.222 U	N				D	U	0.0114	0.317	J11731	NONE	021506Q2 300A-013006
	MG/KG	1	0.0143	0.222	N				D	=	0.0204	0.317	J11731	NONE	021506Q2 300A-013006
	MG/KG	1	0.0114	0.236	N				D	=	0.0123	0.253	J116M5	NONE	021506Q2 300A-013006
	MG/KG	1	0.0102	0.236 U	N				D	U	0.011	0.253	J116M5	NONE	021506Q2 300A-013006
	MG/KG	1	0.00885	0.236	N				D	=	0.00951	0.253	J116M5	NONE	021506Q2 300A-013006
	MG/KG	1	0.00846	0.236 U	N				D	U	0.0091	0.253	J116M5	NONE	021506Q2 300A-013006
	MG/KG	1	0.0152	0.236	N				D	=	0.0163	0.253	J116M5	NONE	021506Q2 300A-013006
	MG/KG	1	0.00987	0.203	N				D	=	0.013	0.267	J116M8	NONE	021506Q2 300A-013006
	MG/KG	1	0.00882	0.203 U	N				D	U	0.0116	0.267	J116M8	NONE	021506Q2 300A-013006
	MG/KG	1	0.00763	0.203	N				D	=	0.01	0.267	J116M8	NONE	021506Q2 300A-013006
	MG/KG	1	0.00729	0.203 U	N				D	U	0.0096	0.267	J116M8	NONE	021506Q2 300A-013006
	MG/KG	1	0.0131	0.203	N				D	=	0.0172	0.267	J116M8	NONE	021506Q2 300A-013006
0	MG/KG	1	0.0243	0.5 B	N				D	J	0.0243	0.5		NONE	021506Q2 300A-013006
0	MG/KG	1	0.0217	0.5 U	N				D	U	0.0217	0.5		NONE	021506Q2 300A-013006
0	MG/KG	1	0.0188	0.5 U	N				D	U	0.0188	0.5		NONE	021506Q2 300A-013006
0	MG/KG	1	0.018	0.5 U	N				D	U	0.018	0.5		NONE	021506Q2 300A-013006
0	MG/KG	1	0.0323	0.5 U	N				D	U	0.0323	0.5		NONE	021506Q2 300A-013006
20	MG/KG	1	0.534	2	N	108	80	120	D	=	0.534	2		NONE	021606NH 021606NH3
	MG/KG	1	1.16	4.33 B	N				D	J	1.3	4.87	J116N1	NONE	021606NH 021606NH3
	MG/KG	1	0.999	3.74 B	N				D	J	1.19	4.46	J116N3	NONE	021606NH 021606NH3
	MG/KG	1	0.931	3.49 B	N				D	J	1.16	4.36	J112B7	NONE	021606NH 021606NH3
	MG/KG	1	0.941	3.52 B	N				D	J	1.05	3.92	J116N2	NONE	021606NH 021606NH3
	MG/KG	1	0.958	3.59 B	N				D	J	1.15	4.32	J116M4	NONE	021606NH 021606NH3
	MG/KG	1	1.11	4.14 B	N				D	J	1.24	4.65	J116N0	NONE	021606NH 021606NH3
	MG/KG	1	1.06	3.96 B	N				D	J	1.51	5.66	J11731	NONE	021606NH 021606NH3
	MG/KG	1	1.07	4.01 B	N				D	J	1.15	4.32	J116M5	NONE	021606NH 021606NH3
	MG/KG	1	1.01	3.78 B	N				D	J	1.33	4.98	J116M8	NONE	021606NH 021606NH3
0	MG/KG	1	0.534	2 B	N				D	J	0.534	2		NONE	021606NH 021606NH3
680	MG/KG	1	21	100	N	105.5	75	125	D	=	21	100		NONE	021606KN 021606TKN
	MG/KG	1	42.1	201	N				D	=	47.3	226	J116N1	NONE	021606KN 021606TKN
	MG/KG	1	41.4	198	N				D	=	49.3	235	J116N3	NONE	021606KN 021606TKN
	MG/KG	1	41	196	N				D	=	51.3	245	J112B7	NONE	021606KN 021606TKN
	MG/KG	1	39.2	187 B	N				D	J	43.6	208	J116N2	NONE	021606KN 021606TKN
	MG/KG	1	43.3	207	N				D	=	52.2	249	J116M4	NONE	021606KN 021606TKN
	MG/KG	1	38	181	N				D	=	42.7	204	J116N0	NONE	021606KN 021606TKN
	MG/KG	1	36.4	174 B	N				D	J	52	248	J11731	NONE	021606KN 021606TKN
	MG/KG	1	39.2	187	N				D	=	42.1	201	J116M5	NONE	021606KN 021606TKN
	MG/KG	1	41.4	198	N				D	=	54.5	260	J116M8	NONE	021606KN 021606TKN
0	MG/KG	1	21	100 B	N				D	J	21	100		NONE	021606KN 021606TKN
	PH UNITS	1	0	0	N				D	=	0	0	J116N1	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116N3	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J112B7	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116N2	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116M4	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116N0	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J11731	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116M5	NONE	021506PH NONE
	PH UNITS	1	0	0	N				D	=	0	0	J116M8	NONE	021506PH NONE
0	PH UNITS	1	0	0	N				D	=	0	0		NONE	021506PH NONE

4.00EPAC CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E300.0A	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	22:48	2/15/2006	22:48	88.9	SB1-0215	14797-65-(	NO2N	Nitrite-N	0.257
4.00EPAC CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E300.0A	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	22:48	2/15/2006	22:48	88.9	SB1-0215	14808-79-(	SO4	Sulfate	2.74
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E300.0A	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	22:58	2/15/2006	22:58	69.7	SB1-0215	16887-00-(	CL	Chloride	3.92
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E300.0A	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	22:58	2/15/2006	22:58	69.7	SB1-0215	16984-48-(	F	Fluoride	0.317
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E300.0A	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	22:58	2/15/2006	22:58	69.7	SB1-0215	14797-55-(	NO3N	Nitrate-N	0.865
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E300.0A	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	22:58	2/15/2006	22:58	69.7	SB1-0215	14797-65-(	NO2N	Nitrite-N	0.317
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E300.0A	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	22:58	2/15/2006	22:58	69.7	SB1-0215	14808-79-(	SO4	Sulfate	23.6
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E300.0A	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	23:07	2/15/2006	23:07	93.43	SB1-0215	16887-00-(	CL	Chloride	0.343
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E300.0A	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	23:07	2/15/2006	23:07	93.43	SB1-0215	16984-48-(	F	Fluoride	0.253
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E300.0A	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	23:07	2/15/2006	23:07	93.43	SB1-0215	14797-55-(	NO3N	Nitrate-N	0.737
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E300.0A	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	23:07	2/15/2006	23:07	93.43	SB1-0215	14797-65-(	NO2N	Nitrite-N	0.253
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E300.0A	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	23:07	2/15/2006	23:07	93.43	SB1-0215	14808-79-(	SO4	Sulfate	1.29
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E300.0A	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	23:17	2/15/2006	23:17	76.4	SB1-0215	16887-00-(	CL	Chloride	0.276
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E300.0A	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	23:17	2/15/2006	23:17	76.4	SB1-0215	16984-48-(	F	Fluoride	0.267
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E300.0A	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	23:17	2/15/2006	23:17	76.4	SB1-0215	14797-55-(	NO3N	Nitrate-N	0.835
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E300.0A	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	23:17	2/15/2006	23:17	76.4	SB1-0215	14797-65-(	NO2N	Nitrite-N	0.267
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E300.0A	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	23:17	2/15/2006	23:17	76.4	SB1-0215	14808-79-(	SO4	Sulfate	3.1
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	E300.0A	METHOD				2/15/2006	21:31	2/15/2006	21:31	100	SB1-0215	16887-00-(	CL	Chloride	0.12
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	E300.0A	METHOD				2/15/2006	21:31	2/15/2006	21:31	100	SB1-0215	16984-48-(	F	Fluoride	0.5
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	E300.0A	METHOD				2/15/2006	21:31	2/15/2006	21:31	100	SB1-0215	14797-55-(	NO3N	Nitrate-N	0.5
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	E300.0A	METHOD				2/15/2006	21:31	2/15/2006	21:31	100	SB1-0215	14797-65-(	NO2N	Nitrite-N	0.5
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	E300.0A	METHOD				2/15/2006	21:31	2/15/2006	21:31	100	SB1-0215	14808-79-(	SO4	Sulfate	0.5
4.00EPAC CHMC	F1192	BS1S0216	BS1S0216	BS	SOIL	BS1S0216	E350.3	METHOD				2/16/2006	10:39	2/16/2006	10:39	100	SB1-0216	7664-41-7	NH3N	Ammonia-I	21.6
4.00EPAC CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E350.3	METHOD	2/9/2006	15:30	2/14/2006	2/16/2006	10:52	2/16/2006	10:52	89	SB1-0216	7664-41-7	NH3N	Ammonia-I	2.19
4.00EPAC CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E350.3	METHOD	2/9/2006	14:00	2/14/2006	2/16/2006	10:54	2/16/2006	10:54	83.7	SB1-0216	7664-41-7	NH3N	Ammonia-I	2.2
4.00EPAC CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E350.3	METHOD	2/9/2006	12:00	2/14/2006	2/16/2006	10:55	2/16/2006	10:55	79.7	SB1-0216	7664-41-7	NH3N	Ammonia-I	1.76
4.00EPAC CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E350.3	METHOD	2/9/2006	14:45	2/14/2006	2/16/2006	10:56	2/16/2006	10:56	89.9	SB1-0216	7664-41-7	NH3N	Ammonia-I	1.65
4.00EPAC CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E350.3	METHOD	2/12/2006	14:00	2/14/2006	2/16/2006	10:58	2/16/2006	10:58	82.9	SB1-0216	7664-41-7	NH3N	Ammonia-I	1.67
4.00EPAC CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E350.3	METHOD	2/9/2006	12:30	2/14/2006	2/16/2006	10:59	2/16/2006	10:59	88.9	SB1-0216	7664-41-7	NH3N	Ammonia-I	1.66
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E350.3	METHOD	2/9/2006	16:00	2/14/2006	2/16/2006	11:01	2/16/2006	11:01	69.7	SB1-0216	7664-41-7	NH3N	Ammonia-I	2.02
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E350.3	METHOD	2/12/2006	15:30	2/14/2006	2/16/2006	11:05	2/16/2006	11:05	93.43	SB1-0216	7664-41-7	NH3N	Ammonia-I	3.81
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E350.3	METHOD	2/12/2006	13:15	2/14/2006	2/16/2006	11:06	2/16/2006	11:06	76.4	SB1-0216	7664-41-7	NH3N	Ammonia-I	4.15
4.00EPAC CHMC	F1192	SB1-0216	SB1-0216	LB	SOIL	SB1-0216	E350.3	METHOD				2/16/2006	10:49	2/16/2006	10:49	100	SB1-0216	7664-41-7	NH3N	Ammonia-I	1.1
4.00EPAC CHMC	F1192	BS1S0216	BS1S0216	BS	SOIL	BS1S0216	E351.4	METHOD				2/16/2006	14:25	2/16/2006	14:25	100	SB1-0216	7727-37-9	KN	Total Kjeld	718
4.00EPAC CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E351.4	METHOD	2/9/2006	15:30	2/14/2006	2/16/2006	14:41	2/16/2006	14:41	89	SB1-0216	7727-37-9	KN	Total Kjeld	825
4.00EPAC CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E351.4	METHOD	2/9/2006	14:00	2/14/2006	2/16/2006	14:44	2/16/2006	14:44	83.7	SB1-0216	7727-37-9	KN	Total Kjeld	1090
4.00EPAC CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E351.4	METHOD	2/9/2006	12:00	2/14/2006	2/16/2006	14:51	2/16/2006	14:51	79.7	SB1-0216	7727-37-9	KN	Total Kjeld	266
4.00EPAC CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E351.4	METHOD	2/9/2006	14:45	2/14/2006	2/16/2006	14:53	2/16/2006	14:53	89.9	SB1-0216	7727-37-9	KN	Total Kjeld	201
4.00EPAC CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E351.4	METHOD	2/12/2006	14:00	2/14/2006	2/16/2006	14:55	2/16/2006	14:55	82.9	SB1-0216	7727-37-9	KN	Total Kjeld	314
4.00EPAC CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E351.4	METHOD	2/9/2006	12:30	2/14/2006	2/16/2006	14:56	2/16/2006	14:56	88.9	WB1-0216	7727-37-9	KN	Total Kjeld	240
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	E351.4	METHOD	2/9/2006	16:00	2/14/2006	2/16/2006	15:01	2/16/2006	15:01	69.7	SB1-0216	7727-37-9	KN	Total Kjeld	164
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	E351.4	METHOD	2/12/2006	15:30	2/14/2006	2/16/2006	15:09	2/16/2006	15:09	93.43	SB1-0216	7727-37-9	KN	Total Kjeld	372
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	E351.4	METHOD	2/12/2006	13:15	2/14/2006	2/16/2006	15:11	2/16/2006	15:11	76.4	SB1-0216	7727-37-9	KN	Total Kjeld	345
4.00EPAC CHMC	F1192	SB1-0216	SB1-0216	LB	SOIL	SB1-0216	E351.4	METHOD				2/16/2006	14:35	2/16/2006	14:35	100	SB1-0216	7727-37-9	KN	Total Kjeld	88.5
4.00EPAC CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	SW9045C	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	17:34	2/15/2006	17:34	89	SB1-0215	pH	PH	pH	7.73
4.00EPAC CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	SW9045C	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	17:40	2/15/2006	17:40	83.7	SB1-0215	pH	PH	pH	7.72
4.00EPAC CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	SW9045C	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	17:42	2/15/2006	17:42	79.7	SB1-0215	pH	PH	pH	7.54
4.00EPAC CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	SW9045C	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	17:43	2/15/2006	17:43	89.9	SB1-0215	pH	PH	pH	7.89
4.00EPAC CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	SW9045C	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	17:45	2/15/2006	17:45	82.9	SB1-0215	pH	PH	pH	7.85
4.00EPAC CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	SW9045C	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	17:46	2/15/2006	17:46	88.9	SB1-0215	pH	PH	pH	7.89
4.00EPAC CHMC	F1192	J11731	J11731	N	SOIL	F119207	SW9045C	METHOD	2/9/2006	16:00	2/14/2006	2/15/2006	17:47	2/15/2006	17:47	69.7	SB1-0215	pH	PH	pH	7.4
4.00EPAC CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	SW9045C	METHOD	2/12/2006	15:30	2/14/2006	2/15/2006	17:49	2/15/2006	17:49	93.43	SB1-0215	pH	PH	pH	7.7
4.00EPAC CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	SW9045C	METHOD	2/12/2006	13:15	2/14/2006	2/15/2006	17:50	2/15/2006	17:50	76.4	SB1-0215	pH	PH	pH	7.63
4.00EPAC CHMC	F1192	SB1-0215	SB1-0215	LB	SOIL	SB1-0215	SW9045C	METHOD				2/15/2006	17:27	2/15/2006	17:27	100	SB1-0215	pH	PH	pH	6.19

VersionCo	LabName	SDG	FieldID	NativeID	QAQCTyp	LRType	Matrix	LabSampl	AnalysisM	ExtractionI	SampleDa	SampleTin	ReceiveDa	ExtractDat	ExtractTim	AnalysisDa	AnalysisTi	PercentSo	LabLotCtlN	CAS	ParamID	Analyte	Result
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	ASTM D22	NONE	2/9/2006	15:30	2/14/2006			2/15/2006	10:05	89		MOISTURI	MOIST	Moisture	11
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	ASTM D22	NONE	2/9/2006	14:00	2/14/2006			2/15/2006	10:05	83.7		MOISTURI	MOIST	Moisture	16.3
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	ASTM D22	NONE	2/9/2006	12:00	2/14/2006			2/15/2006	10:05	79.7		MOISTURI	MOIST	Moisture	20.3
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	ASTM D22	NONE	2/9/2006	14:45	2/14/2006			2/15/2006	10:05	89.9		MOISTURI	MOIST	Moisture	10.1
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	ASTM D22	NONE	2/12/2006	14:00	2/14/2006			2/15/2006	10:05	82.9		MOISTURI	MOIST	Moisture	17.1
4.00	EPAC	CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	ASTM D22	NONE	2/9/2006	12:30	2/14/2006			2/15/2006	10:05	88.9		MOISTURI	MOIST	Moisture	11.1
4.00	EPAC	CHMC	F1192	J11731	J11731	N	SOIL	F119207	ASTM D22	NONE	2/9/2006	16:00	2/14/2006			2/15/2006	10:05	69.7		MOISTURI	MOIST	Moisture	30.3
4.00	EPAC	CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	ASTM D22	NONE	2/12/2006	15:30	2/14/2006			2/15/2006	10:05	93.43		MOISTURI	MOIST	Moisture	6.57
4.00	EPAC	CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	ASTM D22	NONE	2/12/2006	13:15	2/14/2006			2/15/2006	10:05	76.4		MOISTURI	MOIST	Moisture	23.6
4.00	EPAC	CHMC	F1192	BS1S0220	BS1S0220	BS	SOIL	BS1S0220	ASTM E-7	NONE						2/20/2006	10:34	100		TOC	TOC	Total Orga	9270
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	ASTM E-7	NONE	2/9/2006	15:30	2/14/2006			2/20/2006	13:17	89		TOC	TOC	Total Orga	1790
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	ASTM E-7	NONE	2/9/2006	14:00	2/14/2006			2/20/2006	13:26	83.7		TOC	TOC	Total Orga	7460
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	ASTM E-7	NONE	2/9/2006	12:00	2/14/2006			2/20/2006	13:36	79.7		TOC	TOC	Total Orga	1410
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	ASTM E-7	NONE	2/9/2006	14:45	2/14/2006			2/20/2006	13:45	89.9		TOC	TOC	Total Orga	2650
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	ASTM E-7	NONE	2/12/2006	14:00	2/14/2006			2/20/2006	14:18	82.9		TOC	TOC	Total Orga	458
4.00	EPAC	CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	ASTM E-7	NONE	2/9/2006	12:30	2/14/2006			2/20/2006	15:01	88.9		TOC	TOC	Total Orga	6110
4.00	EPAC	CHMC	F1192	J11731	J11731	N	SOIL	F119207	ASTM E-7	NONE	2/9/2006	16:00	2/14/2006			2/20/2006	15:13	69.7		TOC	TOC	Total Orga	1660
4.00	EPAC	CHMC	F1192	J116M5	J116M5	N	SOIL	F119208	ASTM E-7	NONE	2/12/2006	15:30	2/14/2006			2/20/2006	15:25	93.43		TOC	TOC	Total Orga	1540
4.00	EPAC	CHMC	F1192	J116M8	J116M8	N	SOIL	F119209	ASTM E-7	NONE	2/12/2006	13:15	2/14/2006			2/20/2006	15:42	76.4		TOC	TOC	Total Orga	1200
4.00	EPAC	CHMC	F1192	SB1-0220	SB1-0220	LB	SOIL	SB1-0220	ASTM E-7	NONE						2/20/2006	10:43	100		TOC	TOC	Total Orga	100
4.00	EPAC	CHMC	F1192	BS1S0215	BS1S0215	BS	SOIL	BS1S0215	E300.0A	METHOD				2/15/2006	20:52	2/15/2006	20:52	100	SB1-0215	16887-00-4	CL	Chloride	53.9
4.00	EPAC	CHMC	F1192	BS1S0215	BS1S0215	BS	SOIL	BS1S0215	E300.0A	METHOD				2/15/2006	20:52	2/15/2006	20:52	100	SB1-0215	16984-48-1	F	Fluoride	57.1
4.00	EPAC	CHMC	F1192	BS1S0215	BS1S0215	BS	SOIL	BS1S0215	E300.0A	METHOD				2/15/2006	20:52	2/15/2006	20:52	100	SB1-0215	14808-79-1	SO4	Sulfate	54.1
4.00	EPAC	CHMC	F1192	BS3S0215	BS3S0215	BS	SOIL	BS3S0215	E300.0A	METHOD				2/15/2006	21:11	2/15/2006	21:11	100	SB1-0215	14797-65-1	NO2N	Nitrite-N	10.7
4.00	EPAC	CHMC	F1192	BS4S0215	BS4S0215	BS	SOIL	BS4S0215	E300.0A	METHOD				2/15/2006	21:21	2/15/2006	21:21	100	SB1-0215	14797-55-1	NO3N	Nitrate-N	77.6
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E300.0A	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	21:39	2/15/2006	21:39	89	SB1-0215	16887-00-4	CL	Chloride	0.294
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E300.0A	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	21:39	2/15/2006	21:39	89	SB1-0215	16984-48-1	F	Fluoride	0.254
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E300.0A	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	21:39	2/15/2006	21:39	89	SB1-0215	14797-55-1	NO3N	Nitrate-N	1.84
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E300.0A	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	21:39	2/15/2006	21:39	89	SB1-0215	14797-65-1	NO2N	Nitrite-N	0.254
4.00	EPAC	CHMC	F1192	J116N1	J116N1	N	SOIL	F119201	E300.0A	METHOD	2/9/2006	15:30	2/14/2006	2/15/2006	21:39	2/15/2006	21:39	89	SB1-0215	14808-79-1	SO4	Sulfate	2.54
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E300.0A	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	22:09	2/15/2006	22:09	83.7	SB1-0215	16887-00-4	CL	Chloride	0.364
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E300.0A	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	22:09	2/15/2006	22:09	83.7	SB1-0215	16984-48-1	F	Fluoride	0.263
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E300.0A	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	22:09	2/15/2006	22:09	83.7	SB1-0215	14797-55-1	NO3N	Nitrate-N	1.4
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E300.0A	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	22:09	2/15/2006	22:09	83.7	SB1-0215	14797-65-1	NO2N	Nitrite-N	0.263
4.00	EPAC	CHMC	F1192	J116N3	J116N3	N	SOIL	F119202	E300.0A	METHOD	2/9/2006	14:00	2/14/2006	2/15/2006	22:09	2/15/2006	22:09	83.7	SB1-0215	14808-79-1	SO4	Sulfate	3.07
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E300.0A	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	22:19	2/15/2006	22:19	79.7	SB1-0215	16887-00-4	CL	Chloride	0.578
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E300.0A	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	22:19	2/15/2006	22:19	79.7	SB1-0215	16984-48-1	F	Fluoride	0.266
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E300.0A	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	22:19	2/15/2006	22:19	79.7	SB1-0215	14797-55-1	NO3N	Nitrate-N	0.824
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E300.0A	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	22:19	2/15/2006	22:19	79.7	SB1-0215	14797-65-1	NO2N	Nitrite-N	0.266
4.00	EPAC	CHMC	F1192	J112B7	J112B7	N	SOIL	F119203	E300.0A	METHOD	2/9/2006	12:00	2/14/2006	2/15/2006	22:19	2/15/2006	22:19	79.7	SB1-0215	14808-79-1	SO4	Sulfate	2.97
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E300.0A	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	22:29	2/15/2006	22:29	89.9	SB1-0215	16887-00-4	CL	Chloride	0.31
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E300.0A	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	22:29	2/15/2006	22:29	89.9	SB1-0215	16984-48-1	F	Fluoride	0.25
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E300.0A	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	22:29	2/15/2006	22:29	89.9	SB1-0215	14797-55-1	NO3N	Nitrate-N	1.69
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E300.0A	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	22:29	2/15/2006	22:29	89.9	SB1-0215	14797-65-1	NO2N	Nitrite-N	0.25
4.00	EPAC	CHMC	F1192	J116N2	J116N2	N	SOIL	F119204	E300.0A	METHOD	2/9/2006	14:45	2/14/2006	2/15/2006	22:29	2/15/2006	22:29	89.9	SB1-0215	14808-79-1	SO4	Sulfate	2.14
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E300.0A	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	22:38	2/15/2006	22:38	82.9	SB1-0215	16887-00-4	CL	Chloride	0.337
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E300.0A	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	22:38	2/15/2006	22:38	82.9	SB1-0215	16984-48-1	F	Fluoride	0.285
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E300.0A	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	22:38	2/15/2006	22:38	82.9	SB1-0215	14797-55-1	NO3N	Nitrate-N	0.536
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E300.0A	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	22:38	2/15/2006	22:38	82.9	SB1-0215	14797-65-1	NO2N	Nitrite-N	0.285
4.00	EPAC	CHMC	F1192	J116M4	J116M4	N	SOIL	F119205	E300.0A	METHOD	2/12/2006	14:00	2/14/2006	2/15/2006	22:38	2/15/2006	22:38	82.9	SB1-0215	14808-79-1	SO4	Sulfate	3.07
4.00	EPAC	CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E300.0A	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	22:48	2/15/2006	22:48	88.9	SB1-0215	16887-00-4	CL	Chloride	0.417
4.00	EPAC	CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E300.0A	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	22:48	2/15/2006	22:48	88.9	SB1-0215	16984-48-1	F	Fluoride	0.257
4.00	EPAC	CHMC	F1192	J116N0	J116N0	N	SOIL	F119206	E300.0A	METHOD	2/9/2006	12:30	2/14/2006	2/15/2006	22:48	2/15/2006	22:48	88.9	SB1-0215	14797-55-1	NO3N	Nitrate-N	1.4