AR TARGET SHEET

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

EDMC#: 0070624
SECTION: 1 OF 2

DOCUMENT #: F2012

TITLE: Data Package

SAF-RC-072
100 & 300 Area Component of the RCBRA - Discrete Soil Sampling FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Jill Thomson	H0-23	KW 8/16/06 INITIAL/DATE
Jackie Queen	H0-23	KW 8/16/06 INITIAL/DATE
Jeanette Duncan	H9-02	KW 8/16/06 INITIAL/DATE

COMMENTS:

SDG F2012 SAF-RC-072

Rad only X Chem only Rad & Chem

X Complete Partial

Waste Site: **1607-D2:1**
618-4
600-181
600-171
600-139
16-DR-1&2

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

July 11, 2006

ELR Consulting
2328 S. Garfield Street
Kennewick, WA 99337

RE: Laboratory Report for ELR Consulting
Applied Sciences Laboratory Reference No. F2012

Dear Emmett Richards:

On June 22, 2006, CH2M HILL Applied Sciences Laboratory received 13 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

F2012
RC-072

CLIENT SAMPLE CROSS-REFERENCE

CH2M HILL Applied Sciences Laboratory Reference No. F2012

Sample ID	Client Sample ID	Date Collected	Time Collected
F201201	J12N97	06/19/2006	12:10
F201202	J12N98	06/19/2006	12:40
F201203	J12NB8	06/19/2006	15:00
F201204	J12NB9	06/19/2006	15:30
F201205	J12NC0	06/19/2006	16:00
F201206	J12NB4	06/20/2006	10:45
F201207	J12NB5	06/20/2006	11:30
F201208	J12NB6	06/20/2006	12:00
F201209	J12NB1	06/20/2006	09:10
F201210	J12NB2	06/20/2006	09:30
F201211	J12NB3	06/20/2006	10:00
F201212	J12NB0	06/19/2006	13:50
F201213	J12N99	06/19/2006	13:10

Table of Contents
CH2M HILL Laboratory Reference No. F2012

Page

Ammonia Analysis by Method EPA350.3 5
Sample Data Summary 7
QC Summary 22

Anions Analysis by Method E300.0 32
Sample Data Summary 34
QC Summary 49

Moisture Analysis by Method ASTM D2216 62

Particle Size Analysis by Method D422 76

pH Analysis by Method SW9045C 90

Total Kjeldahl Nitrogen Analysis by Method EPA351.4 104
Sample Data Summary 106
QC Summary 121

Total Organic Carbon Analysis by Method ASTM E777 131
Sample Data Summary 133
QC Summary 149

Chain of Custody/Shipping Documents 164

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.: F2012

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

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: Elizabeth M Tejera Date: 7-6-06

Reviewed by: [signature] Date: 7/10/06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N97

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.984	3.69	15.0		mg/kg	1	0.5594 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N98

SDG No.: F2012

Matrix: SOIL

% Moisture: 2

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.844	3.16	7.67		mg/kg	1	0.6456 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB8

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201203

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.771	2.89	3.80		mg/kg	1	0.6996 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB9

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.864	3.24	7.44		mg/kg	1	0.6241 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NC0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.04	3.91	8.41		mg/kg	1	0.5169 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.862	3.23	6.81		mg/kg	1	0.6389 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB5

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	1.03	3.85	12.8		mg/kg	1	0.5249 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.849	3.18	3.87		mg/kg	1	0.6353 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

% Moisture: 1 .

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.829	3.11	5.93		mg/kg	1	0.6505 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.778	2.91	3.22		mg/kg	1	0.6936 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB3

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.748	2.80	6.66		mg/kg	1	0.7213 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.715	2.68	4.09		mg/kg	1	0.754 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N99

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7664-41-7	Ammonia-N	0.754	2.83	4.22		mg/kg	1	0.7079 G	E350.3	06/30/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: SB1-0630

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0630

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	2.00	U	mg/kg	1	1 G	E350.3	06/30/06

QC DATA
SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 06/30/06 1340

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 063006NH3

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	176	1.0	122	10.0	66.3	100	7.4						

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Initial Calibration Date: 06/30/06 1340

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 063006NH3

Analyte	Curve Type	r	Q
Ammonia-N	LNR	0.9996	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Analytical Lot ID: 063006NH3

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 063006NH3

CCV #1 ID: CV1-0630 CCV #2 ID: CV2-0630 CCV #3 ID: CV3-0630

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Ammonia-N	1	0.959	-4.1		10	9.40	-6.0		10	9.43	-5.7	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Analytical Lot ID: 063006NH3

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 063006NH3

CCV #4 ID: CV4-0630 CCV #5 ID: CCV #6 ID:

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Ammonia-N	10	9.35	-6.5									

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Second Source ID: ICV-0630

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 063006NH3

Analyte	Expected	Found	%D	Q
Ammonia-N	10	9.62	-3.8	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0630

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Lab Sample ID: SB1-0630

Initial Cal ID: 063006NH3

Date Analyzed: 06/30/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1440

Instrument: NONE

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

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
08	BS1S0630	BS1S0630	06/30/06	1432
12	J12N97	F201201	06/30/06	1450
13	J12N98	F201202	06/30/06	1452
14	J12NB8	F201203	06/30/06	1457
15	J12NB9	F201204	06/30/06	1501
16	J12NC0	F201205	06/30/06	1503
17	J12NB4	F201206	06/30/06	1508
18	J12NB5	F201207	06/30/06	1512
19	J12NB6	F201208	06/30/06	1515
20	J12NB1	F201209	06/30/06	1521
21	J12NB2	F201210	06/30/06	1527
23	J12NB3	F201211	06/30/06	1532
24	J12NB0	F201212	06/30/06	1537
25	J12N99	F201213	06/30/06	1538

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

LCS ID: BS1S0630

Initial Cal ID: 063006NH3

Date Analyzed: 06/30/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1432

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Ammonia-N	200	193	96.6	75-125	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E350.3

Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 063006NH3

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL 1	LEVEL 1	06/30/06	1340
02	LEVEL 2	LEVEL 2	06/30/06	1345
03	LEVEL 3	LEVEL 3	06/30/06	1350
04	LEVEL 4	LEVEL 4	06/30/06	1355
05	CV1-0630	CV1-0630	06/30/06	1426
06	CV2-0630	CV2-0630	06/30/06	1428
07	ICV-0630	ICV-0630	06/30/06	1430
08	BS1S0630	BS1S0630	06/30/06	1432
10	SB1-0630	SB1-0630	06/30/06	1440
12	J12N97	F201201	06/30/06	1450
13	J12N98	F201202	06/30/06	1452
14	J12NB8	F201203	06/30/06	1457
15	J12NB9	F201204	06/30/06	1501
16	J12NC0	F201205	06/30/06	1503
17	J12NB4	F201206	06/30/06	1508
18	J12NB5	F201207	06/30/06	1512
19	J12NB6	F201208	06/30/06	1515
20	J12NB1	F201209	06/30/06	1521
21	J12NB2	F201210	06/30/06	1527
22	CV3-0630	CV3-0630	06/30/06	1530
23	J12NB3	F201211	06/30/06	1532
24	J12NB0	F201212	06/30/06	1537
25	J12N99	F201213	06/30/06	1538
33	CV4-0630	CV4-0630	06/30/06	1610

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

07/06/06

MDL Study Report

Analytical Method: E350.3
Matrix: Soil

Instrument ID: NONE
Concentration Units: mg/kg

Analyte	Analysis Date	Amt. Spiked	Replicates								Std. Dev.	MDL
			1	2	3	4	5	6	7	8		
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.: F2012

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

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: Date: 6/29/06

Reviewed by: Date: 7/10/06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N97

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0646	0.532	0.653		mg/kg	1	4.843 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0578	0.532	0.743		mg/kg	1	4.843 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0500	0.532	0.658		mg/kg	1	4.843 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0478	0.532	0.532	U	mg/kg	1	4.843 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0858	0.532	2.40		mg/kg	1	4.843 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N98

SDG No.: F2012

Matrix: SOIL

% Moisture: 2

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0528	0.435	0.265	B	mg/kg	1	5.866 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0472	0.435	0.369	B	mg/kg	1	5.866 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0408	0.435	0.873		mg/kg	1	5.866 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0390	0.435	0.435	U	mg/kg	1	5.866 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0701	0.435	1.52		mg/kg	1	5.866 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB8

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F201203

% Moisture: 1

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0567	0.467	0.116	B	mg/kg	1	5.413 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0506	0.467	0.487		mg/kg	1	5.413 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0438	0.467	0.218	B	mg/kg	1	5.413 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0419	0.467	0.467	U	mg/kg	1	5.413 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0752	0.467	1.21		mg/kg	1	5.413 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB9

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0577	0.475	0.0806	B	mg/kg	1	5.314 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0516	0.475	0.370	B	mg/kg	1	5.314 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0446	0.475	0.142	B	mg/kg	1	5.314 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0427	0.475	0.475	U	mg/kg	1	5.314 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0766	0.475	1.13		mg/kg	1	5.314 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NC0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0604	0.497	0.130	B	mg/kg	1	5.08 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0540	0.497	0.483	B	mg/kg	1	5.08 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0467	0.497	0.468	B	mg/kg	1	5.08 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0446	0.497	0.0448	B	mg/kg	1	5.08 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0802	0.497	1.72		mg/kg	1	5.08 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0681	0.561	0.297	B	mg/kg	1	4.597 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0609	0.561	0.426	B	mg/kg	1	4.597 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0526	0.561	0.879		mg/kg	1	4.597 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0503	0.561	0.196	B	mg/kg	1	4.597 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0904	0.561	0.683		mg/kg	1	4.597 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB5

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0495	0.408	0.472		mg/kg	1	6.192 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0443	0.408	0.224	B	mg/kg	1	6.192 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0383	0.408	2.83		mg/kg	1	6.192 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0366	0.408	0.444		mg/kg	1	6.192 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0658	0.408	1.40		mg/kg	1	6.192 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0637	0.524	0.167	B	mg/kg	1	4.816 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0569	0.524	0.292	B	mg/kg	1	4.816 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0492	0.524	1.30		mg/kg	1	4.816 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0471	0.524	0.172	B	mg/kg	1	4.816 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0846	0.524	0.830		mg/kg	1	4.816 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0552	0.454	0.319	B	mg/kg	1	5.557 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0493	0.454	0.332	B	mg/kg	1	5.557 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0427	0.454	6.59		mg/kg	1	5.557 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0408	0.454	0.510		mg/kg	1	5.557 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0733	0.454	4.10		mg/kg	1	5.557 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0532	0.438	0.241	B	mg/kg	1	5.765 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0475	0.438	0.250	B	mg/kg	1	5.765 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0411	0.438	2.93		mg/kg	1	5.765 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0393	0.438	0.373	B	mg/kg	1	5.765 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0706	0.438	2.47		mg/kg	1	5.765 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB3

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0542	0.446	0.173	B	mg/kg	1	5.661 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0484	0.446	0.306	B	mg/kg	1	5.661 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0419	0.446	1.36		mg/kg	1	5.661 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0400	0.446	0.337	B	mg/kg	1	5.661 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0719	0.446	1.34		mg/kg	1	5.661 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0606	0.499	0.130	B	mg/kg	1	5.064 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0541	0.499	0.434	B	mg/kg	1	5.064 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0468	0.499	1.41		mg/kg	1	5.064 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0448	0.499	0.499	U	mg/kg	1	5.064 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0804	0.499	1.37		mg/kg	1	5.064 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N99

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0530	0.436	0.166	B	mg/kg	1	5.729 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0474	0.436	0.262	B	mg/kg	1	5.729 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0410	0.436	1.86		mg/kg	1	5.729 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0392	0.436	0.131	B	mg/kg	1	5.729 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0704	0.436	1.43		mg/kg	1	5.729 G	E300.0A	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: SB1-0628

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0628

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
16887-00-6	Chloride	0.0607	0.500	0.255	B	mg/kg	1	5 G	E300.0A	06/28/06
16984-48-8	Fluoride	0.0543	0.500	0.500	U	mg/kg	1	5 G	E300.0A	06/28/06
14797-55-8	Nitrate-N	0.0469	0.500	0.500	U	mg/kg	1	5 G	E300.0A	06/28/06
14797-65-0	Nitrite-N	0.0449	0.500	0.500	U	mg/kg	1	5 G	E300.0A	06/28/06
14808-79-8	Sulfate	0.0806	0.500	0.500	U	mg/kg	1	5 G	E300.0A	06/28/06

QC DATA SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 06/14/06 18:59

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: EPA300A-061406

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	0.0	0.0	0.050	0.010	0.10	0.018	0.50	0.071	1.0	0.16	5.0	0.80	10.0	1.6
Fluoride	0.0	0.0	0.050	0.0080	0.10	0.017	0.50	0.078	1.0	0.18	5.0	0.96	10.0	2.1
Nitrate-N	0.0	0.0	0.050	0.017	0.10	0.038	0.50	0.19	1.0	0.38	5.0	2.0	10.0	4.2
Nitrite-N	0.0	0.0	0.050	0.014	0.10	0.031	0.50	0.16	1.0	0.33	5.0	1.7	10.0	3.5
Sulfate	0.030	0.020	0.15	0.018	0.60	0.038	1.5	0.17	3.1	0.34	15.0	1.7	30.0	3.6

Comments:

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 06/14/06 18:59

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: EPA300A-061406

Analyte	Std 8	Resp 8	Std 9	Resp 9	Std 10	Resp 10								
Chloride	25.0	4.2												
Fluoride	25.0	5.3												
Nitrate-N														
Nitrite-N	25.0	8.7												
Sulfate	75.0	9.2												

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Initial Calibration Date: 06/14/06 18:59

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: EPA300A-061406

Analyte	Curve Type	r	Q
Chloride	LNR	0.9999	
Fluoride	LNR	0.9998	
Nitrate-N	LNR	0.9997	
Nitrite-N	LNR	1.0000	
Sulfate	LNR	0.9999	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Second Source ID: ICV-0614

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: EPA300A-061406

Analyte	Expected	Found	%D	Q
Chloride	5	5.01	0.2	
Fluoride	5	5.50	10.0	
Nitrate-N	7.19	7.38	2.6	
Nitrite-N	1.13	1.15	1.6	
Sulfate	5	5.49	9.8	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Analytical Lot ID: 06280601

Instrument Name: ICQ

Concentration Units: mg/L

Initial Calibration ID: EPA300A-061406

CCV #1 ID: CV1-0628 CCV #2 ID: CV2-0628 CCV #3 ID: CV3-0628

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Chloride	2.5	2.44	-2.6		5	4.80	-4.0		5	4.84	-3.2	
Fluoride	2.5	2.29	-8.4		5	4.87	-2.6		5	4.58	-8.3	
Nitrate-N	2.5	2.45	-2.0		5	4.84	-3.3		5	4.82	-3.7	
Nitrite-N	2.5	2.52	0.6		5	4.82	-3.6		5	4.78	-4.4	
Sulfate	7.5	7.15	-4.7		15	14.3	-4.4		15	14.2	-5.1	

Comments:

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0628

SDG No.: F2012

Analysis Method: E300.0A

Initial Cal ID: EPA300A-06140

Matrix: (Soil/Water) SOIL

Instrument: ICQ

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0628

Date Analyzed: 06/28/06

Time Analyzed: 1242

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

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
16	BS1S0628	BS1S0628	06/28/06	1112
18	BS2S0628	BS2S0628	06/28/06	1157
19	BS3S0628	BS3S0628	06/28/06	1219
23	J12N97	F201201	06/28/06	1519
26	J12N98	F201202	06/28/06	1626
27	J12NB8	F201203	06/28/06	1649
28	J12NB9	F201204	06/28/06	1711
29	J12NC0	F201205	06/28/06	1734
30	J12NB4	F201206	06/28/06	1756
31	J12NB5	F201207	06/28/06	1819
32	J12NB6	F201208	06/28/06	1841
34	J12NB1	F201209	06/28/06	1926
35	J12NB2	F201210	06/28/06	1949
36	J12NB3	F201211	06/28/06	2011
37	J12NB0	F201212	06/28/06	2034
38	J12N99	F201213	06/28/06	2056

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS1S0628

Initial Cal ID: EPA300A-06140

Date Analyzed: 06/28/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1112

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Chloride	25	25.3	101	90-110	
Fluoride	25	26.3	105	90-110	
Sulfate	25	27.0	108	90-110	

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS2S0628

Initial Cal ID: EPA300A-06140

Date Analyzed: 06/28/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1157

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrite-N	5.65	5.78	102	90-110	

* Values outside of QC limits

Comments:

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

LCS ID: BS3S0628

Initial Cal ID: EPA300A-06140

Date Analyzed: 06/28/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1219

Instrument: ICQ

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Nitrate-N	36	38.0	106	90-110	

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 300A-061406

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
02	LEVEL1	LEVEL1	06/14/06	1620
04	LEVEL2	LEVEL2	06/14/06	1644
05	LEVEL3	LEVEL3	06/14/06	1707
06	LEVEL4	LEVEL4	06/14/06	1730
07	LEVEL5	LEVEL5	06/14/06	1752
08	LEVEL6	LEVEL6	06/14/06	1815
09	LEVEL7	LEVEL7	06/14/06	1837
10	LEVEL8	LEVEL8	06/14/06	1859
11	ICV-0614	ICV-0614	06/14/06	1922
12	ICV-0614	ICV-0614	06/14/06	1944
14	ICV-0614	ICV-0614	06/14/06	2029

COMMENTS: _____

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E300.0A

Lab Code: CVO

Instrument: ICQ

Analytical Lot ID: 062806Q1

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
15	CV1-0628	CV1-0628	06/28/06	1049
16	BS1S0628	BS1S0628	06/28/06	1112
18	BS2S0628	BS2S0628	06/28/06	1157
19	BS3S0628	BS3S0628	06/28/06	1219
20	SB1-0628	SB1-0628	06/28/06	1242
23	J12N97	F201201	06/28/06	1519
26	J12N98	F201202	06/28/06	1626
27	J12NB8	F201203	06/28/06	1649
28	J12NB9	F201204	06/28/06	1711
29	J12NC0	F201205	06/28/06	1734
30	J12NB4	F201206	06/28/06	1756
31	J12NB5	F201207	06/28/06	1819
32	J12NB6	F201208	06/28/06	1841
33	CV2-0628	CV2-0628	06/28/06	1904
34	J12NB1	F201209	06/28/06	1926
35	J12NB2	F201210	06/28/06	1949
36	J12NB3	F201211	06/28/06	2011
37	J12NB0	F201212	06/28/06	2034
38	J12N99	F201213	06/28/06	2056
43	CV3-0628	CV3-0628	06/28/06	2249

COMMENTS: _____

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

06/29/06

MDL Study Report

Analytical Method: E300.0A
Matrix: Soil

Instrument ID: ICQ
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: J12N97

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	2.74		%	1	7.161 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N98

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	1.86		%	1	8.87 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB8

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201203

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.485		%	1	11.955 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB9

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.759		%	1	13.567 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NC0

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	1.18		%	1	13.55 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	2.86		%	1	9.811 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB5

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.766		%	1	11.227 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.640		%	1	12.179 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	1.20		%	1	12.539 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	1.21		%	1	9.896 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB3

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.488		%	1	11.681 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB0

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	1.00		%	1	13.24 G	ASTM D2216	06/26/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N99

SDG No.: F2012

Matrix: SOIL

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
MOISTURE	Moisture	0.00	0.00	0.155		%	1	10.34 G	ASTM D2216	06/26/06

PARTICLE SIZE
METHOD 422

Hanford

Particle Size

490.0 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: **KRM** **7/5/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201201	J12N97	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	20.70	4.23	4.23	95.77
		30	600	0.600	70.40	14.39	18.62	81.38
		50	500	0.500	146.70	29.98	48.60	51.40
		100	147	0.147	99.90	20.42	69.02	30.98
		200	75	0.075	117.70	24.05	93.07	6.93
		pan			33.90	6.93	100.00	0.00
		total			489.3			

CH2M HILL
Applied Sciences Group

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

491.4 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201202	J12N98	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	8.00	1.63	1.63	98.37
		30	600	0.600	40.60	8.27	9.90	90.10
		50	500	0.500	85.80	17.48	27.38	72.62
		100	147	0.147	103.40	21.06	48.44	51.56
		200	75	0.075	210.10	42.80	91.24	8.76
		pan			43.00	8.76	100.00	0.00
		total			490.9			

CH2M HILL
Applied Sciences Group

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

509.8 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201203	J12NB8	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	1.50	0.29	0.29	99.71
		30	600	0.600	118.90	23.35	23.64	76.36
		50	500	0.500	322.90	63.40	87.04	12.96
		100	147	0.147	60.40	11.86	98.90	1.10
		200	75	0.075	3.80	0.75	99.65	0.35
		pan			1.80	0.35	100.00	0.00
		total			509.3			

CH2M HILL
Applied Sciences Group

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

512.7 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201204	J12NB9	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	0.50	0.10	0.10	99.90
		30	600	0.600	53.90	10.53	10.62	89.38
		50	500	0.500	324.70	63.41	74.03	25.97
		100	147	0.147	111.70	21.81	95.84	4.16
		200	75	0.075	16.30	3.18	99.02	0.98
		pan			5.00	0.98	100.00	0.00
		total			512.1			

CH2M HILL
Applied Sciences Group

2300 NW Walnut Blvd., Corvallis, OR 97330-5538
P.O. Box 428, Corvallis, OR 97339-0428
Tel 541.752.4271 Fax 541.752.0276

Hanford

Particle Size

533.3 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201205	J12NC0	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	1.40	0.26	0.26	99.74
		30	600	0.600	59.00	11.08	11.34	88.66
		50	500	0.500	305.50	57.36	68.70	31.30
		100	147	0.147	124.70	23.41	92.11	7.89
		200	75	0.075	30.90	5.80	97.92	2.08
		pan			11.10	2.08	100.00	0.00
		total			532.6			

CH2M HILL
Applied Sciences Group

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

512.8 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM **7/5/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201206	J12NB4	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	2.50	0.49	0.49	99.51
		30	600	0.600	86.00	16.78	17.27	82.73
		50	500	0.500	209.10	40.81	58.08	41.92
		100	147	0.147	89.20	17.41	75.49	24.51
		200	75	0.075	98.10	19.15	94.63	5.37
		pan			27.50	5.37	100.00	0.00
		total			512.4			

CH2M HILL
Applied Sciences Group

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

518.5 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: **KRM** 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201207	J12NB5	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	0.20	0.04	0.04	99.96
		30	600	0.600	51.30	9.91	9.94	90.06
		50	500	0.500	275.70	53.23	63.18	36.82
		100	147	0.147	115.20	22.24	85.42	14.58
		200	75	0.075	61.70	11.91	97.34	2.66
		pan			13.80	2.66	100.00	0.00
		total			517.9			

CH2M HILL
Applied Sciences Group

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

526.7 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201208	J12NB6	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	12.40	2.36	2.36	97.64
		30	600	0.600	139.40	26.50	28.86	71.14
		50	500	0.500	209.00	39.73	68.59	31.41
		100	147	0.147	81.30	15.46	84.05	15.95
		200	75	0.075	69.20	13.16	97.21	2.79
		pan			14.70	2.79	100.00	0.00
		total			526.0			

CH2M HILL
Applied Sciences Group

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

510.5 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201209	J12NB1	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	13.60	2.67	2.67	97.33
		30	600	0.600	46.80	9.18	11.85	88.15
		50	500	0.500	203.10	39.85	51.70	48.30
		100	147	0.147	144.30	28.31	80.01	19.99
		200	75	0.075	83.10	16.30	96.31	3.69
		pan			18.80	3.69	100.00	0.00
		total			509.7			

CH2M HILL
Applied Sciences Group

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

512.3 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM **7/5/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201210	J12NB2	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	1.20	0.23	0.23	99.77
		30	600	0.600	27.30	5.34	5.57	94.43
		50	500	0.500	212.70	41.59	47.16	52.84
		100	147	0.147	163.20	31.91	79.08	20.92
		200	75	0.075	84.10	16.45	95.52	4.48
		pan			22.90	4.48	100.00	0.00
		total			511.4			

CH2M HILL
Applied Sciences Group

2300 NW Walnut Blvd., Corvallis, OR 97330-3536
P.O. Box 428, Corvallis, OR 97339-0428
Tel 541.752.4271 Fax 541.752.0276

Hanford

Particle Size

510.3 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: **KRM** **7/5/2006**

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201211	J12NB3	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	0.60	0.12	0.12	99.88
		30	600	0.600	12.20	2.39	2.51	97.49
		50	500	0.500	146.20	28.66	31.17	68.83
		100	147	0.147	197.30	38.68	69.85	30.15
		200	75	0.075	134.00	26.27	96.12	3.88
		pan			19.80	3.88	100.00	0.00
		total			510.1			

CH2M HILL
Applied Sciences Group

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

510.0 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201212	J12NB0	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	9.10	1.79	1.79	98.21
		30	600	0.600	76.40	15.00	16.79	83.21
		50	500	0.500	216.60	42.54	59.33	40.67
		100	147	0.147	138.90	27.28	86.61	13.39
		200	75	0.075	56.50	11.10	97.70	2.30
		pan			11.70	2.30	100.00	0.00
		total			509.2			

CH2M HILL
Applied Sciences Group

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

510.1 g sample used

Weight retained is the weight of material ON each sieve

ANALYST: KRM 7/5/2006

Lab I.D.	Client I.D.	Sieve #	Sieve Size (um)	Sieve Size (mm)	Weight Retained (g)	Weight Retained (%)	Cumulative Coarser (%)	Cumulative Finer (%)
F201213	J12N99	8	2362	2.362	0.00	0.00	0.00	100.00
		16	1180	1.180	1.00	0.20	0.20	99.80
		30	600	0.600	34.00	6.67	6.87	93.13
		50	500	0.500	184.30	36.17	43.03	56.97
		100	147	0.147	152.70	29.96	73.00	27.00
		200	75	0.075	122.00	23.94	96.94	3.06
		pan			15.60	3.06	100.00	0.00
		total			509.6			

CH2M HILL
Applied Sciences Group

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

pH
METHOD SW9045C

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N97

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.37		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N98

SDG No.: F2012

Matrix: SOIL

% Moisture: 2

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.55		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB8

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F201203

% Moisture: 1

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.54		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB9

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.45		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12NC0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.47		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.21		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12NB5

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.22		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.18		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.58		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.05		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB3

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	7.05		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.61		pH	1	20 G	SW9045C	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N99

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
pH	pH	0.00	0.00	8.41		pH	1	20 G	SW9045C	06/28/06

TKN
METHOD EPA 351.4

CASE NARRATIVE
TKN

Analytical Method: EPA 351.4 Batch No.: F2012

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

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):
All acceptance criteria were met.

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: Elizabeth M Tepp Date: 7-6-06

Reviewed by: Date: 7/10/06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N97

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	48.9	179	139	B	mg/kg	1	0.5753 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N98

SDG No.: F2012

Matrix: SOIL

% Moisture: 2

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	54.8	201	181	B	mg/kg	1	0.5081 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB8

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201203

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	40.9	150	287		mg/kg	1	0.674 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB9

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	38.9	143	237		mg/kg	1	0.7087 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NC0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	50.9	187	274		mg/kg	1	0.5416 G	E351.4	07/03/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

% Moisture: 3

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	54.6	200	265		mg/kg	1	0.5147 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB5

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	42.9	157	211		mg/kg	1	0.6422 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	35.7	131	249		mg/kg	1	0.7711 G	E351.4	07/03/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	42.4	155	296		mg/kg	1	0.6501 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	37.4	137	280		mg/kg	1	0.7363 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB3

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	38.0	139	311		mg/kg	1	0.7243 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB0

SDG No.: F2012

Matrix: SOIL

% Moisture: 1

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	39.7	146	257		mg/kg	1	0.694 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N99

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
7727-37-9	Total Kjeldahl Nitrogen as N	37.6	138	215		mg/kg	1	0.7248 G	E351.4	07/03/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: SB1-0703

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0703

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	27.3	100	68.8	B	mg/kg	1	1 G	E351.4	07/03/06

QC DATA
SUMMARY

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 07/03/06 1400

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 070306TKN

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	177	20.0	121	200	66.4	2000	8.1						

Comments:

2-WC

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Initial Calibration Date: 07/03/06 1400

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 070306TKN

Analyte	Curve Type	r	Q
Total Kjeldahl Nitrogen as N	LNR	0.9998	

Comments:

2B-WC

GENERAL CHEMISTRY SECOND SOURCE CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Second Source ID: ICV-0703

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 070306TKN

Analyte	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	28.4	31.3	10.0	

Comments:

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Analytical Lot ID: 070306TKN

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 070306TKN

CCV #1 ID: CV1-0703 CCV #2 ID: CV2-0703 CCV #3 ID: CV3-0703

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	20	20.5	2.4		200	189	-5.5		20	18.4	-7.9	

Comments:

2A-WC

GENERAL CHEMISTRY CALIBRATION VERIFICATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Analytical Lot ID: 070306TKN

Instrument Name: NONE

Concentration Units: mg/L

Initial Calibration ID: 070306TKN

CCV #4 ID: CV4-0703 CCV #5 ID: CCV #6 ID:

Analyte	Expected	Found	%D	Q	Expected	Found	%D	Q	Expected	Found	%D	Q
Total Kjeldahl Nitrogen as N	20	18.4	-7.9									

Comments:

3-WC

SOIL GENERAL CHEMISTRY METHOD BLANK SUMMARY

Field Sample ID: SB1-0703

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

Lab Sample ID: SB1-0703

Initial Cal ID: 070306TKN

Date Analyzed: 07/03/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1518

Instrument: NONE

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

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
05	BS1S0703	BS1S0703	07/03/06	1515
08	J12N97	F201201	07/03/06	1521
09	J12N98	F201202	07/03/06	1524
10	J12NB8	F201203	07/03/06	1525
11	J12NB9	F201204	07/03/06	1528
12	J12NC0	F201205	07/03/06	1530
13	J12NB4	F201206	07/03/06	1532
14	J12NB5	F201207	07/03/06	1533
15	J12NB6	F201208	07/03/06	1535
16	J12NB1	F201209	07/03/06	1537
17	J12NB2	F201210	07/03/06	1539
19	J12NB3	F201211	07/03/06	1545
20	J12NB0	F201212	07/03/06	1547
21	J12N99	F201213	07/03/06	1549

COMMENTS: _____

7-WC

GENERAL CHEMISTRY LABORATORY CONTROL SAMPLE

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4

LCS ID: BS1S0703

Initial Cal ID: 070306TKN

Date Analyzed: 07/03/06

Matrix: (Soil/Water) SOIL

Time Analyzed: 1515

Instrument: NONE

Concentration Units: mg/kg

Analyte	Expected	Found	%R	QC Limits %R	Q
Total Kjeldahl Nitrogen as N	1420	1590	112	75-125	

* Values outside of QC limits

Comments:

14-WC

GENERAL CHEMISTRY ANALYTICAL SEQUENCE

SDG No.: F2012 Lab Name: CH2M HILL/LAB/CVO

Analysis Method: E351.4 Lab Code: CVO

Instrument: NONE

Analytical Lot ID: 070306TKN

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	LEVEL 1	LEVEL 1	07/03/06	1400
02	LEVEL 2	LEVEL 2	07/03/06	1405
03	LEVEL 3	LEVEL 3	07/03/06	1410
04	LEVEL 4	LEVEL 4	07/03/06	1415
05	CV1-0703	CV1-0703	07/03/06	1507
06	CV2-0703	CV2-0703	07/03/06	1509
07	ICV-0703	ICV-0703	07/03/06	1511
09	BS1S0703	BS1S0703	07/03/06	1515
11	SB1-0703	SB1-0703	07/03/06	1518
12	J12N97	F201201	07/03/06	1521
13	J12N98	F201202	07/03/06	1524
14	J12NB8	F201203	07/03/06	1525
15	J12NB9	F201204	07/03/06	1528
16	J12NC0	F201205	07/03/06	1530
17	J12NB4	F201206	07/03/06	1532
18	J12NB5	F201207	07/03/06	1533
19	J12NB6	F201208	07/03/06	1535
20	J12NB1	F201209	07/03/06	1537
21	J12NB2	F201210	07/03/06	1539
22	CV3-0703	CV3-0703	07/03/06	1542
23	J12NB3	F201211	07/03/06	1545
24	J12NB0	F201212	07/03/06	1547
25	J12N99	F201213	07/03/06	1549
31	CV4-0703	CV4-0703	07/03/06	1614

COMMENTS: _____

_____

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

07/06/06

MDL Study Report

Analytical Method: E351.4
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
Total Kjeldahl Nitrogen	03/13/06	100	168	154	161	147	152	161	171		8.67	27.3

TOTAL ORGANIC CARBON
BY ASTM E777

CASE NARRATIVE
TOC SOILS

Analytical Method: ASTM E-777 Batch No.: F2012

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

Base/Command: EI.R 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):
All acceptance criteria were met.

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: 6-30-06

Reviewed by: _____ Date: 6/30/06

SAMPLE DATA SUMMARY

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12N97

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201201

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	62.6	179	325		mg/kg	1	0.5586 G	ASTM E777	06/28/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N98

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201202

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	85.0	243	243	U	mg/kg	1	0.4113 G	ASTM E777	06/28/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12NB8

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Matrix: SOIL

Lab Sample ID: F201203

% Moisture: 0

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	53.4	153	153	U	mg/kg	1	0.6544 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12NB9

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201204

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	30.4	87.0	212		mg/kg	1	1.1499 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NC0

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201205

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	27.5	78.8	494		mg/kg	1	1.2692 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB4

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201206

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	34.4	98.4	452		mg/kg	1	1.0162 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB5

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201207

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	29.3	83.8	1550		mg/kg	1	1.194 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB6

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201208

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	25.6	73.4	559		mg/kg	1	1.363 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB1

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201209

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	98.1	281	11100		mg/kg	1	0.3564 G	ASTM E777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: J12NB2

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201210

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	94.8	271	8580		mg/kg	1	0.3688 G	ASTM E777	06/29/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12NB3

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201211

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	77.9	223	1060		mg/kg	1	0.4484 G	ASTM E777	06/29/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sampl·· ID:

J12NB0

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201212

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	27.8	79.6	428		mg/kg	1	1.2559 G	AST:: E777	06/29/06

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID:

J12N99

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: F201213

Date Received: 06/22/06

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyzed
TOC	Total Organic Carbon	33.9	97.0	398		mg/kg	1	1.0313 G	ASTM E777	06/29/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sample ID: SB1-0628

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0628

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 D777	06/28/06

1A-WC

GENERAL CHEMISTRY ANALYSIS DATA SHEET

Field Sampl- ID:

SB1-0629

SDG No.: F2012

Matrix: SOIL

% Moisture: 0

Lab Name: CH2M HILL/LAB/CVO

Lab Sample ID: SB1-0629

Date Received: / /

CAS No.	Analyte	MDL	PQL	Result	Q	Units	DF	Sample Amount	Analysis Method	Date Analyze:
TOC	Total Organic Carbon	35.0	100	100	U	mg/kg	1	1 G	ASTM D7777	06/29/0C

QC SUMMARY

GENERAL CHEMISTRY INITIAL CALIBRATION DATA

SDG No.: F2012

Lab Name: CH2M HILL/LAB/CVO

Analysis Method: ASTM E777

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: