AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

February 16, 2009

Karla Knoop
JBR Environmental Consultants, Inc.
8160 So. Highland Dr. Ste A-4
Sandy, UT 84093

TEL: (801) 943-4144
FAX: (801) 942-1852

RE: Westridge

Lab Set ID: L88921

Dear Karla Knoop:

American West Analytical Labs received 1 sample on 2/12/2009 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call. The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction and/or purging efficiency.

Thank you.

Approved by: Jose G. Rocha
Laboratory Director or designee

File in:
☐ Confidential
☐ Shelf
☒ Expandable
Refer to Record No 0013 Date 03032009
In C0070041 2007 Incoming
For additional information

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

0013

C/007 / 041 Incoming
cc: Priscilla
Steve D
OK

COPY

WEST RIDGE
RESOURCES, INC.

P.O. Box 910, East Carbon, Utah 84520
Telephone (435) 888-4000 Fax (435) 888-4002

Utah Division of Oil, Gas & Mining
Utah Coal Program
1594 West North Temple, Suite 1210
P.O.Box 145801
Salt Lake City, UT 84114-5801

March 3, 2009

Attn: Daron Haddock
Permit Supervisor

Re: West Ridge Mine C/007/041
Coal Fines Accumulation Lab Analysis
Citation 10033

Dear Mr. Haddock:

In response to the required actions for Citation10033 please find inclosed a copy of the chemical analysis of the coal fines accumulation material. The topsoil parameters are still being processed in the Casper lab and will be forwarded as soon as they become available.

If you have questions or comments please contact me at (435) 888-4017.

Sincerely,

David Shaver
Resident Agent

File in:
C0070041 2009 Incoming
Refer to:
- ☐ Confidential
- ☐ Shelf
- ☒ Expandable

Date 030309 For additional information

RECEIVED
MAR 09 2009
DIV. OF OIL, GAS & MINING

Form DOGM - C1 (Last Revised March 2, 2009)

COPY

File Folder # 3

APPLICATION FOR PERMIT PROCESSING

Permit Change ☐	New Permit ☐	Renewal ☐	Transfer ☐	Exploration ☐	Bond Release ☐

Permit Number: C/007/041

Title of Proposal: Submittal of coal fines accumulation analysis, Citation 10033

Mine: WEST RIDGE MINE

Permittee: **WEST RIDGE Resources, Inc.**

Description, include reason for application and timing required to implement:.

Instructions: *If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.*

☐ Yes	☒ No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? ____ acres ☐ increase ☐ decrease.
☐ Yes	☒ No	2. Is the application submitted as a result of a Division Order?
☐ Yes	☒ No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☒ Yes	☐ No	4. Does application include operations in hydrologic basins other than as currently approved?
☐ Yes	☒ No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes	☒ No	6. Does the application require or include public notice/publication?
☐ Yes	☒ No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes	☒ No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☒ Yes	☐ No	9. Is the application submitted as a result of a Violation?
☐ Yes	☒ No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
☐ Yes	☒ No	11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes	☒ No	12. Does the application require or include underground design or mine sequence and timing?
☒ Yes	☐ No	13. Does the application require or include collection and reporting of any baseline information?
☐ Yes	☒ No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes	☒ No	15. Does application require or include soil removal, storage or placement?
☐ Yes	☒ No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes	☒ No	17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes	☒ No	18. Does the application require or include water monitoring, sediment or drainage control measures?
☐ Yes	☒ No	19. Does the application require or include certified designs, maps, or calculations?
☐ Yes	☒ No	20. Does the application require or include subsidence control or monitoring?
☐ Yes	☒ No	21. Have reclamation costs for bonding been provided for?
☒ Yes	☐ No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes	☒ No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

☐ **Attach _3_ complete copies of the application.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings and obligations, herein. (R645-301-123)

Signed - Name - Position - Date 3/3/09 agent

Subscribed and sworn to before me this 3rd day of March, 2009

Mary V. Kava
Notary Public

My Commission Expires: May 16, 2012
Attest: STATE OF Utah
COUNTY OF Emery

MARY V KAVA
Notary Public
State of Utah
Comm. No. 574260
My Comm. Expires May 16, 2012

Received by Oil, Gas & Mining
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MAR 09 2009
DIV. OF OIL, GAS & MINING

ASSIGNED TRACKING NUMBER

Application for Permit Processing
Detailed Schedule of Changes to the MRP

COPY

Title of Application: Submittal of coal fines accumulation lab analysis, Citation 10033

Permit Number: C/007/041

Mine: WEST RIDGE MINE

Permittee: WEST RIDGE RESOURCES

Provide a detailed listing of all changes to the mining and reclamation plan which will be required as a result of this proposed permit application. Individually list all maps and drawings which are to be added, replaced, or removed from the plan. Include changes of the table of contents, section of the plan, pages, or other information as needed to specifically locate, identify and revise the existing mining and reclamation plan. Include page, section and drawing numbers as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIALS TO BE CHANGED
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
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☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	
☐ ADD	☐ REPLACE	☐ REMOVE	

Any other specific or special instructions required for insertion of this proposal into the Mining and Reclamation Plan?

RECEIVED
MAR 09 2009
DIV. OF OIL, GAS & MINING

ORGANIC ANALYSIS REPORT

Client: JBR Environmental Consultants, Inc.
Project ID: Westridge

Contact: Karla Knoop

AMERICAN WEST ANALYTICAL LABORATORIES

Lab Sample ID: L88921-01B
Field Sample ID: **Sludge #2**
Collected: 2/12/2009 3:07:00 PM
Received: 2/12/2009

Extracted: 2/13/2009
Analyzed: 2/13/2009 2:43:00 PM

Analysis Requested: Semi-Volatiles by SW 8270C

463 West 3600 South
Salt Lake City, Utah
84115

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Toll Free (888) 263-8686
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e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Analytical Results — **Semivolatile Organics by 8270C/3580A**

Units = mg/kg-dry
Dilution Factor = 1

% Moisture: 56

Compound	Reporting Limit	Analytical Result
Benzoic acid	340	< 340
Benzyl alcohol	140	< 140
2-Chlorophenol	110	< 110
2,4-Dichlorophenol	110	< 110
2,4-Dimethylphenol	110	< 110
4,6-Dinitro-2-methylphenol	340	< 340
2,4-Dinitrophenol	340	< 340
2-Methylphenol	110	< 110
3 & 4-Methylphenol	110	< 110
2-Nitrophenol	110	< 110
4-Nitrophenol	340	< 340
4-Chloro-3-methylphenol	140	< 140
Pentachlorophenol	340	< 340
Phenol	110	< 110
2,4,6-Trichlorophenol	110	< 110
2,4,5-Trichlorophenol	110	< 110
Acenaphthene	110	< 110
Acenaphthylene	110	< 110
Aniline	110	< 110
Anthracene	110	< 110
Benzidine	110	< 110
Benz(a)anthracene	110	< 110
Benzo(a)pyrene	110	< 110
Benzo(b)fluoranthene	110	< 110
Benzo(g,h,i)perylene	110	< 110
Benzo(k)fluoranthene	110	< 110
Bis(2-chloroethoxy)methane	110	< 110
Bis(2-chloroethyl)ether	110	< 110
Bis(2-chloroisopropyl)ether	110	< 110

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Jose Rocha
QA Officer

Analysis Requested: Semi Volatiles by SW 8270C

Analytical Results — **Semivolatile Organics by 8270C/3580A**

Units = mg/kg-dry
Dilution Factor = 1

% Moisture: 56

Compound	Reporting Limit	Analytical Result
Bis(2-ethylhexyl)phthalate	110	< 110
4-Bromophenyl phenyl ether	110	< 110
4-Chloroaniline	110	< 110
Butyl benzyl phthalate	110	< 110
2-Chloronaphthalene	110	< 110
4-Chlorophenyl phenyl ether	110	< 110
Chrysene	110	< 110
Dibenz(a,h)anthracene	110	< 110
Dibenzofuran	110	< 110
1,2-Dichlorobenzene	110	< 110
1,3-Dichlorobenzene	110	< 110
1,4-Dichlorobenzene	110	< 110
3,3'-Dichlorobenzidine	110	< 110
Diethyl phthalate	110	< 110
Dimethyl phthalate	110	< 110
Di-n-butyl phthalate	110	< 110
2,4-Dinitrotoluene	110	< 110
2,6-Dinitrotoluene	110	< 110
Di-n-octyl phthalate	110	< 110
Fluoranthene	110	< 110
Fluorene	110	< 110
Hexachlorobenzene	110	< 110
Hexachlorobutadiene	110	< 110
Hexachlorocyclopentadiene	110	< 110
Hexachloroethane	110	< 110
Indene	110	< 110
Indeno(1,2,3-cd)pyrene	110	< 110
Isophorone	110	< 110
1-Methylnaphthalene	110	< 110
2-Methylnaphthalene	110	< 110
Naphthalene	110	< 110
2-Nitroaniline	110	< 110
3-Nitroaniline	110	< 110

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Analysis Requested: Semi Volatiles by SW 8270C

Analytical Results — **Semivolatile Organics by 8270C/3580A**

Units = mg/kg-dry — **% Moisture: 56**
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
4-Nitroaniline	110	< 110
Nitrobenzene	110	< 110
N-Nitrosodimethylamine	110	< 110
N-Nitrosodi-n-propylamine	110	< 110
N-Nitrosodiphenylamine	110	< 110
Phenanthrene	110	< 110
Pyrene	110	< 110
Pyridine	340	< 340
Quinoline	110	< 110
1,2,4-Trichlorobenzene	110	< 110
Surr: 2,4,6-Tribromophenol	10-228	**62.6**
Surr: 2-Fluorobiphenyl	10-179	**130**
Surr: 2-Fluorophenol	10-178	**93.2**
Surr: 4-Terphenyl-d14	10-143	**87.5**
Surr: Nitrobenzene-d5	10-328	**83.1**
Surr: Phenol-d6	10-218	**100**

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ORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: JBR Environmental Consultants, Inc.
Project ID: Westridge

Contact: Karla Knoop

Lab Sample ID: L88921-01A
Field Sample ID: **Sludge #2**
Collected: 2/12/2009 3:07:00 PM
Received: 2/12/2009

Analyzed: 2/14/2009 7:06:00 PM

Analysis Requested: 8260B/5030B

Analytical Results — **VOCs (AWAL) by GC/MS 8260B**

Units = µg/kg-dry
Dilution Factor = 50

% Moisture: 56

Compound	Reporting Limit	Analytical Result
Dichlorodifluoromethane	230	< 230
Chloromethane	570	< 570
Vinyl chloride	110	< 110
Bromomethane	570	< 570
Chloroethane	230	< 230
Trichlorofluoromethane	230	< 230
1,1-Dichloroethene	230	< 230
1,1,2-Trichloro-1,2,2-trifluoroethane	230	< 230
Acetone	1100	< 1100
Carbon disulfide	230	< 230
Methyl Acetate	570	< 570
Methylene chloride	570	< 570
trans 1,2-Dichloroethene	230	< 230
Methyl tert-butyl ether	230	< 230
1,1-Dichloroethane	230	< 230
cis 1,2-Dichloroethene	230	< 230
2-Butanone	1100	< 1100
Chloroform	230	< 230
1,1,1-Trichloroethane	230	< 230
Cyclohexane	230	< 230
Carbon tetrachloride	230	< 230
Benzene	230	< 230
1,2-Dichloroethane	230	< 230
Trichloroethene	230	< 230
Methylcyclohexane	230	**400**
1,2-Dichloropropane	230	< 230
Bromodichloromethane	230	< 230
cis 1,3-Dichloropropene	230	< 230
4-Methyl-2-pentanone	570	< 570

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Lab Sample ID: L88921-01A
Field Sample ID: **Sludge #2**
Collected: 2/12/2009 3:07:00 PM
Received: 2/12/2009

Analyzed: 2/14/2009 7:06:00 PM

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Analysis Requested: 8260B/5030B

Analytical Results — **VOCs (AWAL) by GC/MS 8260B**

Units = µg/kg-dry — **% Moisture: 56**
Dilution Factor = 50

Compound	Reporting Limit	Analytical Result
Toluene	230	< 230
trans 1,3-Dichloropropene	230	< 230
1,1,2-Trichloroethane	230	< 230
Tetrachloroethene	230	< 230
2-Hexanone	570	< 570
Dibromochloromethane	230	< 230
1,2-Dibromoethane	230	< 230
Chlorobenzene	230	< 230
Ethylbenzene	230	< 230
Xylenes, Total	230	**330**
Styrene	230	< 230
Bromoform	230	< 230
Isopropylbenzene	230	< 230
1,1,2,2-Tetrachloroethane	230	< 230
1,3-Dichlorobenzene	230	< 230
1,4-Dichlorobenzene	230	< 230
1,2-Dichlorobenzene	230	< 230
1,2-Dibromo-3-chloropropane	570	< 570
1,2,4-Trichlorobenzene	230	< 230
Naphthalene	230	**270**
Surr: 1,2-Dichloroethane-d4	72-139	**101**
Surr: 4-Bromofluorobenzene	71-144	**97.3**
Surr: Dibromofluoromethane	73-126	**98.5**
Surr: Toluene-d8	72-129	**99.6**

The reporting limits were raised due to sample matrix interferences.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-44894	1,2,4-Trichlorobenzene	mg/kg	Semi Volatil	75.80	100	0	75.8	35-109				2/13/2009
LCS-44894	1,4-Dichlorobenzene	mg/kg	Semi Volatil	96.10	100	0	96.1	40-116				2/13/2009
LCS-44894	2,4,6-Trichlorophenol	mg/kg	Semi Volatil	55.10	100	0	55.1	46-141				2/13/2009
LCS-44894	2,4-Dimethylphenol	mg/kg	Semi Volatil	76.80	100	0	76.8	30-133				2/13/2009
LCS-44894	2,4-Dinitrotoluene	mg/kg	Semi Volatil	63.70	100	0	63.7	54-156				2/13/2009
LCS-44894	2-Chloronaphthalene	mg/kg	Semi Volatil	90.50	100	0	90.5	45-132				2/13/2009
LCS-44894	2-Chlorophenol	mg/kg	Semi Volatil	89.90	100	0	89.9	33-119				2/13/2009
LCS-44894	4,6-Dinitro-2-methylphenol	mg/kg	Semi Volatil	< 150	100	0	59.2	57-132				2/13/2009
LCS-44894	4-Chloro-3-methylphenol	mg/kg	Semi Volatil	60.40	100	0	60.4	31-125				2/13/2009
LCS-44894	4-Nitrophenol	mg/kg	Semi Volatil	< 150	100	0	72.5	10-136				2/13/2009
LCS-44894	Acenaphthene	mg/kg	Semi Volatil	99.70	100	0	99.7	37-119				2/13/2009
LCS-44894	Benzo(a)pyrene	mg/kg	Semi Volatil	64.40	100	0	64.4	58-109				2/13/2009
LCS-44894	N-Nitrosodi-n-propylamine	mg/kg	Semi Volatil	80.50	100	0	80.5	32-122				2/13/2009
LCS-44894	Pentachlorophenol	mg/kg	Semi Volatil	< 150	100	0	41.5	21-131				2/13/2009
LCS-44894	Phenol	mg/kg	Semi Volatil	84.50	100	0	84.5	31-111				2/13/2009
LCS-44894	Pyrene	mg/kg	Semi Volatil	100.5	100	0	101	38-116				2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-44894	1,2,4-Trichlorobenzene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	1,2-Dichlorobenzene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	1,3-Dichlorobenzene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	1,4-Dichlorobenzene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	1-Methylnaphthalene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,4,5-Trichlorophenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,4,6-Trichlorophenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,4-Dichlorophenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,4-Dimethylphenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,4-Dinitrophenol	mg/kg	Semi Volatil	< 150				-				2/13/2009
MB-44894	2,4-Dinitrotoluene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2,6-Dinitrotoluene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Chloronaphthalene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Chlorophenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Methylnaphthalene	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Methylphenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Nitroaniline	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	2-Nitrophenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	3 & 4-Methylphenol	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	3,3'-Dichlorobenzidine	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	3-Nitroaniline	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	4,6-Dinitro-2-methylphenol	mg/kg	Semi Volatil	< 150				-				2/13/2009
MB-44894	4-Bromophenyl phenyl ether	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	4-Chloro-3-methylphenol	mg/kg	Semi Volatil	< 60				-				2/13/2009
MB-44894	4-Chloroaniline	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	4-Chlorophenyl phenyl ether	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	4-Nitroaniline	mg/kg	Semi Volatil	< 50				-				2/13/2009
MB-44894	4-Nitrophenol	mg/kg	Semi Volatil	< 150				-				2/13/2009
MB-44894	Acenaphthene	mg/kg	Semi Volatil	< 50				-				2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: MBLK

MB-44894	Acenaphthylene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Aniline	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Anthracene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benz(a)anthracene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzidine	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzo(a)pyrene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzo(b)fluoranthene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzo(g,h,i)perylene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzo(k)fluoranthene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Benzoic acid	mg/kg	Semi Volatil	< 150	-	2/13/2009
MB-44894	Benzyl alcohol	mg/kg	Semi Volatil	< 60	-	2/13/2009
MB-44894	Bis(2-chloroethoxy)methane	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Bis(2-chloroethyl)ether	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Bis(2-chloroisopropyl)ether	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Bis(2-ethylhexyl)phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Butyl benzyl phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Chrysene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Di-n-butyl phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Di-n-octyl phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Dibenz(a,h)anthracene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Dibenzofuran	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Diethyl phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Dimethyl phthalate	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Fluoranthene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Fluorene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Hexachlorobenzene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Hexachlorobutadiene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Hexachlorocyclopentadiene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Hexachloroethane	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Indene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Indeno(1,2,3-cd)pyrene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Isophorone	mg/kg	Semi Volatil	< 50	-	2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: MBLK

MB-44894	N-Nitrosodi-n-propylamine	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	N-Nitrosodimethylamine	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	N-Nitrosodiphenylamine	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Naphthalene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Nitrobenzene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Pentachlorophenol	mg/kg	Semi Volatil	< 150	-	2/13/2009
MB-44894	Phenanthrene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Phenol	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Pyrene	mg/kg	Semi Volatil	< 50	-	2/13/2009
MB-44894	Pyridine	mg/kg	Semi Volatil	< 150	-	2/13/2009
MB-44894	Quinoline	mg/kg	Semi Volatil	< 50	-	2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88921-01B MS	1,2,4-Trichlorobenzene	mg/kg-dry	Semi Volatil	198.6	226.1	0	87.8	43-117				2/13/2009
L88921-01B MS	1,4-Dichlorobenzene	mg/kg-dry	Semi Volatil	246.7	226.1	0	109	42-118				2/13/2009
L88921-01B MS	2,4,6-Trichlorophenol	mg/kg-dry	Semi Volatil	136.8	226.1	0	60.5	11-215				2/13/2009
L88921-01B MS	2,4-Dimethylphenol	mg/kg-dry	Semi Volatil	201.7	226.1	0	89.2	10-206				2/13/2009
L88921-01B MS	2,4-Dinitrotoluene	mg/kg-dry	Semi Volatil	172.3	226.1	0	76.2	10-270				2/13/2009
L88921-01B MS	2-Chloronaphthalene	mg/kg-dry	Semi Volatil	245.1	226.1	0	108	70-130				2/13/2009
L88921-01B MS	2-Chlorophenol	mg/kg-dry	Semi Volatil	229.3	226.1	0	101	46-114				2/13/2009
L88921-01B MS	4,6-Dinitro-2-methylphenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	78.5	70-130				2/13/2009
L88921-01B MS	4-Chloro-3-methylphenol	mg/kg-dry	Semi Volatil	162.1	226.1	0	71.7	21-125				2/13/2009
L88921-01B MS	4-Nitrophenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	83.1	10-127				2/13/2009
L88921-01B MS	Acenaphthene	mg/kg-dry	Semi Volatil	267.5	226.1	0	118	45-123				2/13/2009
L88921-01B MS	Benzo(a)pyrene	mg/kg-dry	Semi Volatil	198.3	226.1	0	87.7	70-130				2/13/2009
L88921-01B MS	N-Nitrosodi-n-propylamine	mg/kg-dry	Semi Volatil	217.5	226.1	0	96.2	21-155				2/13/2009
L88921-01B MS	Pentachlorophenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	44.6	10-148				2/13/2009
L88921-01B MS	Phenol	mg/kg-dry	Semi Volatil	214.8	226.1	0	95.0	37-119				2/13/2009
L88921-01B MS	Pyrene	mg/kg-dry	Semi Volatil	264.6	226.1	0	117	33-129				2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSSEMI
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88921-01B MSD	1,2,4-Trichlorobenzene	mg/kg-dry	Semi Volatil	200.1	226.1	0	88.5	43-117	0.794	35		2/13/2009
L88921-01B MSD	1,4-Dichlorobenzene	mg/kg-dry	Semi Volatil	245.8	226.1	0	109	42-118	0.367	35		2/13/2009
L88921-01B MSD	2,4,6-Trichlorophenol	mg/kg-dry	Semi Volatil	139.5	226.1	0	61.7	11-215	1.96	35		2/13/2009
L88921-01B MSD	2,4-Dimethylphenol	mg/kg-dry	Semi Volatil	202.6	226.1	0	89.6	10-206	0.447	35		2/13/2009
L88921-01B MSD	2,4-Dinitrotoluene	mg/kg-dry	Semi Volatil	175.3	226.1	0	77.5	10-270	1.69	35		2/13/2009
L88921-01B MSD	2-Chloronaphthalene	mg/kg-dry	Semi Volatil	245.1	226.1	0	108	70-130	0	35		2/13/2009
L88921-01B MSD	2-Chlorophenol	mg/kg-dry	Semi Volatil	229.5	226.1	0	102	46-114	0.0986	35		2/13/2009
L88921-01B MSD	4,6-Dinitro-2-methylphenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	79.9	70-130	0	35		2/13/2009
L88921-01B MSD	4-Chloro-3-methylphenol	mg/kg-dry	Semi Volatil	168.7	226.1	0	74.6	21-125	3.96	35		2/13/2009
L88921-01B MSD	4-Nitrophenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	87.1	10-127	0	35		2/13/2009
L88921-01B MSD	Acenaphthene	mg/kg-dry	Semi Volatil	274.5	226.1	0	121	45-123	2.59	35		2/13/2009
L88921-01B MSD	Benzo(a)pyrene	mg/kg-dry	Semi Volatil	203.8	226.1	0	90.1	70-130	2.70	35		2/13/2009
L88921-01B MSD	N-Nitrosodi-n-propylamine	mg/kg-dry	Semi Volatil	227.0	226.1	0	100	21-155	4.27	35		2/13/2009
L88921-01B MSD	Pentachlorophenol	mg/kg-dry	Semi Volatil	< 340	226.1	0	40.1	10-148	0	35		2/13/2009
L88921-01B MSD	Phenol	mg/kg-dry	Semi Volatil	213.0	226.1	0	94.2	37-119	0.846	35		2/13/2009
L88921-01B MSD	Pyrene	mg/kg-dry	Semi Volatil	271.1	226.1	0	120	33-129	2.45	35		2/13/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSVOA
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-44910	1,1,1-Trichloroethane	µg/kg	8260B/5030	918.0	1000	0	91.8	64-144				2/14/2009
LCS-44910	1,1-Dichloroethene	µg/kg	8260B/5030	772.5	1000	0	77.2	36-184				2/14/2009
LCS-44910	1,2-Dichlorobenzene	µg/kg	8260B/5030	912.0	1000	0	91.2	70-134				2/14/2009
LCS-44910	1,2-Dichloroethane	µg/kg	8260B/5030	958.5	1000	0	95.8	55-146				2/14/2009
LCS-44910	1,2-Dichloropropane	µg/kg	8260B/5030	984.5	1000	0	98.4	70-130				2/14/2009
LCS-44910	Benzene	µg/kg	8260B/5030	898.0	1000	0	89.8	60-130				2/14/2009
LCS-44910	Chlorobenzene	µg/kg	8260B/5030	920.5	1000	0	92.0	75-130				2/14/2009
LCS-44910	Chloroform	µg/kg	8260B/5030	896.0	1000	0	89.6	70-130				2/14/2009
LCS-44910	Ethylbenzene	µg/kg	8260B/5030	917.5	1000	0	91.8	69-147				2/14/2009
LCS-44910	Isopropylbenzene	µg/kg	8260B/5030	932.0	1000	0	93.2	65-147				2/14/2009
LCS-44910	Methyl tert-butyl ether	µg/kg	8260B/5030	941.5	1000	0	94.2	42-156				2/14/2009
LCS-44910	Methylene chloride	µg/kg	8260B/5030	808.5	1000	0	80.8	39-164				2/14/2009
LCS-44910	Naphthalene	µg/kg	8260B/5030	696.5	1000	0	69.6	40-131				2/14/2009
LCS-44910	Toluene	µg/kg	8260B/5030	850.5	1000	0	85.0	61-140				2/14/2009
LCS-44910	Trichloroethene	µg/kg	8260B/5030	897.5	1000	0	89.8	69-138				2/14/2009
LCS-44910	Xylenes, Total	µg/kg	8260B/5030	2775	3000	0	92.5	78-147				2/14/2009

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Kyle F. Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSVOA
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-44910	1,1,1-Trichloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,1,2,2-Tetrachloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,1,2-Trichloro-1,2,2-trifluoroetha	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,1,2-Trichloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,1-Dichloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,1-Dichloroethene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,2,4-Trichlorobenzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,2-Dibromo-3-chloropropane	µg/kg	8260B/5030	< 250				-				2/14/2009
MB-44910	1,2-Dibromoethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,2-Dichlorobenzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,2-Dichloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,2-Dichloropropane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,3-Dichlorobenzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	1,4-Dichlorobenzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	2-Butanone	µg/kg	8260B/5030	< 500				-				2/14/2009
MB-44910	2-Hexanone	µg/kg	8260B/5030	< 250				-				2/14/2009
MB-44910	4-Methyl-2-pentanone	µg/kg	8260B/5030	< 250				-				2/14/2009
MB-44910	Acetone	µg/kg	8260B/5030	< 500				-				2/14/2009
MB-44910	Benzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Bromodichloromethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Bromoform	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Bromomethane	µg/kg	8260B/5030	< 250				-				2/14/2009
MB-44910	Carbon disulfide	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Carbon tetrachloride	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Chlorobenzene	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Chloroethane	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Chloroform	µg/kg	8260B/5030	< 100				-				2/14/2009
MB-44910	Chloromethane	µg/kg	8260B/5030	< 250				-				2/14/2009
MB-44910	cis 1,2-Dichloroethene	µg/kg	8260B/5030	< 100				-				2/14/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSVOA
SampType: MBLK

MB-44910	cis 1,3-Dichloropropene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Cyclohexane	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Dibromochloromethane	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Dichlorodifluoromethane	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Ethylbenzene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Isopropylbenzene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Methyl Acetate	µg/kg	8260B/5030	< 250	-	2/14/2009
MB-44910	Methyl tert-butyl ether	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Methylcyclohexane	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Methylene chloride	µg/kg	8260B/5030	< 250	-	2/14/2009
MB-44910	Naphthalene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Styrene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Tetrachloroethene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Toluene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	trans 1,2-Dichloroethene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	trans 1,3-Dichloropropene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Trichloroethene	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Trichlorofluoromethane	µg/kg	8260B/5030	< 100	-	2/14/2009
MB-44910	Vinyl chloride	µg/kg	8260B/5030	< 50	-	2/14/2009
MB-44910	Xylenes, Total	µg/kg	8260B/5030	< 100	-	2/14/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSVOA
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88921-01AMS	1,1,1-Trichloroethane	µg/kg-dry	8260B/5030	1686	2261	0	74.6	20-144				2/14/2009
L88921-01AMS	1,1-Dichloroethene	µg/kg-dry	8260B/5030	1486	2261	0	65.7	24-174				2/14/2009
L88921-01AMS	1,2-Dichlorobenzene	µg/kg-dry	8260B/5030	1806	2261	0	79.8	10-148				2/14/2009
L88921-01AMS	1,2-Dichloroethane	µg/kg-dry	8260B/5030	1931	2261	0	85.4	54-133				2/14/2009
L88921-01AMS	1,2-Dichloropropane	µg/kg-dry	8260B/5030	1861	2261	0	82.3	28-140				2/14/2009
L88921-01AMS	Benzene	µg/kg-dry	8260B/5030	1671	2261	0	73.9	17-138				2/14/2009
L88921-01AMS	Chlorobenzene	µg/kg-dry	8260B/5030	1724	2261	0	76.2	13-150				2/14/2009
L88921-01AMS	Chloroform	µg/kg-dry	8260B/5030	1728	2261	0	76.4	21-147				2/14/2009
L88921-01AMS	Ethylbenzene	µg/kg-dry	8260B/5030	1750	2261	0	77.4	10-164				2/14/2009
L88921-01AMS	Isopropylbenzene	µg/kg-dry	8260B/5030	1749	2261	0	77.4	26-146				2/14/2009
L88921-01AMS	Methyl tert-butyl ether	µg/kg-dry	8260B/5030	1990	2261	0	88.0	28-137				2/14/2009
L88921-01AMS	Methylene chloride	µg/kg-dry	8260B/5030	1593	2261	0	70.4	10-217				2/14/2009
L88921-01AMS	Naphthalene	µg/kg-dry	8260B/5030	1828	2261	271.4	68.8	13-156				2/14/2009
L88921-01AMS	Toluene	µg/kg-dry	8260B/5030	1635	2261	0	72.3	23-168				2/14/2009
L88921-01AMS	Trichloroethene	µg/kg-dry	8260B/5030	1643	2261	0	72.6	14-161				2/14/2009
L88921-01AMS	Xylenes, Total	µg/kg-dry	8260B/5030	5424	6784	331.3	75.1	10-160				2/14/2009

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88921
Project: Westridge

Dept: MSVOA
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88921-01AMSD	1,1,1-Trichloroethane	µg/kg-dry	8260B/5030	1858	2261	0	82.2	20-144	9.70	35		2/14/2009
L88921-01AMSD	1,1-Dichloroethene	µg/kg-dry	8260B/5030	1642	2261	0	72.6	24-174	9.98	35		2/14/2009
L88921-01AMSD	1,2-Dichlorobenzene	µg/kg-dry	8260B/5030	1961	2261	0	86.7	10-148	8.23	35		2/14/2009
L88921-01AMSD	1,2-Dichloroethane	µg/kg-dry	8260B/5030	2075	2261	0	91.8	54-133	7.17	35		2/14/2009
L88921-01AMSD	1,2-Dichloropropane	µg/kg-dry	8260B/5030	2025	2261	0	89.6	28-140	8.44	35		2/14/2009
L88921-01AMSD	Benzene	µg/kg-dry	8260B/5030	1853	2261	0	82.0	17-138	10.3	35		2/14/2009
L88921-01AMSD	Chlorobenzene	µg/kg-dry	8260B/5030	1904	2261	0	84.2	13-150	9.91	35		2/14/2009
L88921-01AMSD	Chloroform	µg/kg-dry	8260B/5030	1887	2261	0	83.4	21-147	8.82	35		2/14/2009
L88921-01AMSD	Ethylbenzene	µg/kg-dry	8260B/5030	1970	2261	0	87.1	10-164	11.8	35		2/14/2009
L88921-01AMSD	Isopropylbenzene	µg/kg-dry	8260B/5030	1930	2261	0	85.4	26-146	9.83	35		2/14/2009
L88921-01AMSD	Methyl tert-butyl ether	µg/kg-dry	8260B/5030	2126	2261	0	94.0	28-137	6.59	35		2/14/2009
L88921-01AMSD	Methylene chloride	µg/kg-dry	8260B/5030	1736	2261	0	76.8	10-217	8.56	35		2/14/2009
L88921-01AMSD	Naphthalene	µg/kg-dry	8260B/5030	2152	2261	271.4	83.2	13-156	16.2	35		2/14/2009
L88921-01AMSD	Toluene	µg/kg-dry	8260B/5030	1814	2261	0	80.2	23-168	10.4	35		2/14/2009
L88921-01AMSD	Trichloroethene	µg/kg-dry	8260B/5030	1808	2261	0	80.0	14-161	9.57	35		2/14/2009
L88921-01AMSD	Xylenes, Total	µg/kg-dry	8260B/5030	6000	6784	331.3	83.6	10-160	10.1	35		2/14/2009

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American West Analytical Labs

RUSH

WORK ORDER Summary

13-Feb-09

Work Order L88921

Client ID: JBR400

QC Level: 2+

Project: Westridge

Location: Hold

Contact: Karla Knoop

Comments: Next Day Rush; QCLevel: 2+

SB

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L88921-01A	Sludge #2	2/12/2009 3:07:00 PM	2/12/2009	2/16/2009	Sludge	8260-S-AWAL	VOCFridge	1
				2/16/2009		PMOIST	VOCFridge	1
L88921-01B				2/16/2009		3580_Semi	hall - semi	1
				2/16/2009		8270-O-SEMI	hall - semi	1
				2/16/2009		PMOIST	hall - semi	1

Client JBR ENVIRONMENTAL
Address 8160 SO HIGHLAN DRIVE
SANDY (City) UT (State) 84093 (Zip)
Phone 801 943 4144 Fax 801 942 1852
Contact KARLA KNOOP
E-mail knoop@jbrenv.com jsage@jbrenv.com
Project Name WESTRIDGE
Project Number/P.O.#
Sampler Name J SAGE

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CHAIN OF CUSTODY

Lab Sample Set # 88921
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	VOC 8260	SVOC 8270											COMMENTS
SLUDGE #2	2/12/09 1507	S	2	X	X											

QC LEVEL
1 2 2+
3 3+ 4

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes: on ICE
3 Temperature 3.6
4 Received Broken/Leaking (Improperly Sealed)
Y N
Notes:
5 Properly Preserved
Y N
Notes:
6 Received Within Holding Times
Y N
Notes:

COC Tape Was:
1 Present on Outer Package
Y N NA
2 Unbroken on Outer Package
Y N NA
3 Present on Sample
Y N NA
4 Unbroken on Sample
Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record?
Y N
Notes:

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME JAMES SAGE	Time 1824	PRINT NAME Samantha Broadhead
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:
RUSH
Results by
Monday
2/16/09

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

February 06, 2009

Karla Knoop
JBR Environmental Consultants, Inc.
8160 So. Highland Dr. Ste A-4
Sandy, UT 84093

TEL: (801) 943-4144
FAX: (801) 942-1852

RE: West Ridge

Lab Set ID: L88693

Dear Karla Knoop:

American West Analytical Labs received 1 sample on 1/28/2009 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call. The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction and/or purging efficiency.

Thank you.

Approved by: _____
Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

Client: JBR Environmental Consultants, Inc. Contact: Karla Knoop
Project ID: West Ridge

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Lab Sample ID: L88693-01B
Field Sample ID: **Sludge**
Collected: 1/28/2009 12:15:00 PM
Received: 1/28/2009

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results	
Boron	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	150	< 150	
Calcium	mg/kg-dry	2/4/2009 6:19:00 PM	6010B	2900	**85000**	[2] ~
Magnesium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	290	**12000**	[2]
Potassium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	290	**1500**	
Selenium	mg/kg-dry	2/2/2009 8:53:21 PM	6020	2.5	**3.7**	
Sodium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	290	**1200**	

[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.
~ - The reporting limits were raised due to high analyte concentrations.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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INORGANIC ANALYSIS REPORT

Client: JBR Environmental Consultants, Inc. Contact: Karla Knoop
Project ID: West Ridge

AMERICAN WEST ANALYTICAL LABORATORIES

Lab Sample ID: L88693-01
Field Sample ID: **Sludge**
Collected: 1/28/2009 12:15:00 PM
Received: 1/28/2009

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
Carbonate (As CaCO3)	mg/kg-dry	1/29/2009 6:20:00 AM	310.1	29	< 29	
Conductivity	µmhos/cm	1/29/2009 5:30:00 AM	9050A	10	**870**	&
Nitrate (as N)	mg/kg-dry	1/29/2009 3:34:02 PM	353.2	0.029	< 0.029	&
pH @ 25° C	pH Units	1/28/2009 10:30:00 PM	9045D	1.00	**7.92**	
Phosphorus, Total (as P)	mg/kg-dry	2/2/2009 10:59:32 AM	4500(P)F/B	7.4	**290**	1
Total Volatile Solids	% of TS	2/3/2009 6:30:00 PM	160.4	0.010	**16**	

& - Analysis is performed on a 1:1 DI water extract for soils.
1 - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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Kyle F. Gross
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Jose Rocha
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ORGANIC ANALYSIS REPORT

Client: JBR Environmental Consultants, Inc.
Project ID: West Ridge

Contact: Karla Knoop

AMERICAN WEST ANALYTICAL LABORATORIES

Lab Sample ID: L88693-01D
Field Sample ID: **Sludge**
Collected: 1/28/2009 12:15:00 PM
Received: 1/28/2009

Extracted: 1/29/2009
Analyzed: 1/29/2009 9:59:00 PM

Analysis Requested: TPH by SW8015B

Analytical Results **TPH-DRO by 8015B/3545**

Units = mg/kg-dry
Dilution Factor = 1

% Moisture: 66

Compound	Reporting Limit	Analytical Result
Total Petroleum Hydrocarbon (DRO - C10-28)	59	**3600**
Surr: 4-Bromofluorobenzene	10-169	**56.0**

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: GC
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-44633	Total Petroleum Hydrocarbon (DR	mg/kg	TPH by SW8	1630	2000	0	81.5	25-121				1/29/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: GC
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-44633	Total Petroleum Hydrocarbon (DR	mg/kg	TPH by SW8	< 20				-				1/29/2009

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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: GC
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01D MS	Total Petroleum Hydrocarbon (DR	mg/kg-dry	TPH by SW8	6882	5882	3629	55.3	10-230				1/29/2009

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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: GC
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01D MSD	Total Petroleum Hydrocarbon (DR	mg/kg-dry	TPH by SW8	7176	5882	3629	60.3	10-230	4.18	98		1/29/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: ME
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-44680	Selenium	mg/kg	6020	19.06	20	0	95.3	85-115				1/30/2009
LCS-44680	Boron	mg/kg	6010B	92.03	100	0.487	91.5	75-125				2/4/2009
LCS-44680	Calcium	mg/kg	6010B	956.0	1000	0	95.6	75-125				2/4/2009
LCS-44680	Magnesium	mg/kg	6010B	937.8	1000	0	93.8	75-125				2/4/2009
LCS-44680	Potassium	mg/kg	6010B	969.9	1000	0	97.0	75-125				2/4/2009
LCS-44680	Sodium	mg/kg	6010B	946.8	1000	5.019	94.2	75-125				2/4/2009

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: ME
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-44680	Selenium	mg/kg	6020	< 0.85				-				1/30/2009
MB-44680	Boron	mg/kg	6010B	< 50				-				2/4/2009
MB-44680	Calcium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Magnesium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Potassium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Sodium	mg/kg	6010B	< 100				-				2/4/2009

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: ME
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01BMS	Selenium	mg/kg-dry	6020	55.15	58.6	0	94.1	70-130				1/30/2009
L88693-01BMS	Boron	mg/kg-dry	6010B	306.0	293	37.16	91.8	75-125				2/4/2009
L88693-01BMS	Magnesium	mg/kg-dry	6010B	13700	2930	12060	55.8	75-125			[2]	2/4/2009
L88693-01BMS	Potassium	mg/kg-dry	6010B	5046	2930	1468	122	75-125				2/4/2009
L88693-01BMS	Sodium	mg/kg-dry	6010B	4630	2930	1169	118	75-125				2/4/2009
L88693-01BMS	Calcium	mg/kg-dry	6010B	90590	2930	84860	196	75-125			[2]	2/4/2009

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: ME
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01BMSD	Selenium	mg/kg-dry	6020	57.91	59.88	0	96.7	70-130	4.88	20		1/30/2009
L88693-01BMSD	Boron	mg/kg-dry	6010B	321.7	299.4	37.16	95.0	75-125	5.01	20		2/4/2009
L88693-01BMSD	Magnesium	mg/kg-dry	6010B	13840	2994	12060	59.2	75-125	0.995	20	[2]	2/4/2009
L88693-01BMSD	Potassium	mg/kg-dry	6010B	4650	2994	1468	106	75-125	8.17	20		2/4/2009
L88693-01BMSD	Sodium	mg/kg-dry	6010B	4193	2994	1169	101	75-125	9.90	20		2/4/2009
L88693-01BMSD	Calcium	mg/kg-dry	6010B	84410	2994	84860	-15.1	75-125	7.07	20	[2]	2/4/2009

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.
[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: WC
SampType: DUP

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01ADUP	Conductivity	µmhos/cm	9050A	868.0	0	867		-	0.115	10	&	1/29/2009
L88693-01ADUP	pH @ 25° C	pH Units	9045D	7.940	0	7.92		-	0.252	10		1/28/2009
L88693-01ADUP	Total Volatile Solids	% of TS	160.4	15.10	0	16.1		-	6.41	20		2/3/2009

& - Analysis is performed on a 1:1 DI water extract for soils.

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: WC
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-R91312	Alkalinity,(As CaCO3)	mg/kg	310.1	50050	50000	0	100	90-110				1/29/2009
LCS-R91310	Conductivity	µmhos/cm	9050A	999.0	1000	0	99.9	98-102				1/29/2009
LCS-44647	Nitrate (as N)	mg/kg	353.2	1.043	1	0.0063	104	90-110				1/29/2009
LCS-R91302	pH @ 25° C	pH Units	9045D	8.960	9	0	99.6	98-102				1/28/2009
LCS-44657	Phosphorus, Total (as P)	mg/kg	4500(P)F/B	51.04	50	0	102	90-110				2/2/2009

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: WC
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-R91312	Carbonate (As CaCO3)	mg/kg	310.1	< 10				-				1/29/2009
MB-R91310	Conductivity	µmhos/cm	9050A	< 10				-				1/29/2009
MB-44647	Nitrate (as N)	mg/kg	353.2	< 0.010				-				1/29/2009
MB-44657	Phosphorus, Total (as P)	mg/kg	4500(P)F/B	< 2.5				-				2/2/2009
MB-R91507	Total Volatile Solids	% of TS	160.4	< 0.010				-				2/3/2009

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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: WC
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01AMS	Alkalinity,(As CaCO3)	mg/kg-dry	310.1	59420	14710	44430	102	80-120			&	1/29/2009
L88693-01CMS N	Nitrate (as N)	mg/kg-dry	353.2	3.505	2.941	0	119	80-120			&	1/29/2009
L88693-01CMS	Phosphorus, Total (as P)	mg/kg-dry	4500(P)F/B	428.8	147.1	293.6	91.9	80-120				2/2/2009

& - Analysis is performed on a 1:1 DI water extract for soils.

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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88693
Project: West Ridge

Dept: WC
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88693-01AMSD	Alkalinity,(As CaCO3)	mg/kg-dry	310.1	58350	14710	44430	94.6	80-120	1.82	10	&	1/29/2009
L88693-01CMSD	Nitrate (as N)	mg/kg-dry	353.2	3.104	2.941	0	106	80-120	12.1	20	&	1/29/2009
L88693-01CMSD	Phosphorus, Total (as P)	mg/kg-dry	4500(P)F/B	475.6	147.1	293.6	124	80-120	10.4	20	[1]	2/2/2009

& - Analysis is performed on a 1:1 DI water extract for soils.

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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American West Analytical Labs

WORK ORDER Summary

29-Jan-09

Work Order L88693

Client ID: JBR400 **QC Level:** QC 2+

Project: West Ridge **Location:** HKCB DB **Contact:** Karla Knoop

Comments: PA Rush; QCLevel: QC 2+ / Sample sent to: IGES & ACZ labs for tests which we do not perform.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L88693-01A	Sludge	1/28/2009 12:15:00 PM	1/28/2009	2/6/2009	Sludge	ALK-S	jan 28 wc	1
				2/6/2009		COND-A-S	jan 28 wc	1
				2/6/2009		PH-9045D	jan 28 wc	1
				2/6/2009		Soil_Prep	jan 28 wc	1
				2/6/2009		TVS-S	jan 28 wc	1
L88693-01B				2/6/2009		3051A-ICPMS	jan 28 metals	1
				2/6/2009		6020-S	jan 28 metals	1
				2/6/2009		ICP-S	jan 28 metals	1
				2/6/2009		PMOIST	jan 28 metals	1
L88693-01C				2/6/2009		NO3-S	jan 28 no3 - po4	1
				2/6/2009		Phos-S_Prep	jan 28 no3 - po4	1
				2/6/2009		PMOIST	jan 28 no3 - po4	1
				2/6/2009		PO4-TS-4500PF	jan 28 no3 - po4	1
				2/6/2009		Soil_Prep	jan 28 no3 - po4	1
L88693-01D				2/6/2009		3545-TPH	hall - tph	1
				2/6/2009		8015-S-TPH	hall - tph	1
				2/6/2009		PMOIST	hall - tph	1
L88693-01E				2/6/2009		OUTSIDE LAB	IGES	2
L88693-01F							hold	3
L88693-01G				2/6/2009		OUTSIDE LAB	azc	1

Karla - 435-637-9645

Client JBR ENVIRONMENTAL
Address 8160 SO HIGHLAND DR.
SANDY (City) UT (State) 84093 (Zip)
Phone 801.943.4144 Fax 801.942.1852
Contact Karla Knoop
E-mail KKnoop@jbrenv.com
Project Name WEST RIDGE
Project Number/P.O.#
Sampler Name J. SAGE

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CHAIN OF CUSTODY

Lab Sample Set # S 8693
Page ____ of ____

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	SEE ATTACHED SHEETS											COMMENTS
SLUDGE	1/28/09 1215	S		X											

QC LEVEL: 1 2 2+ 3 3+ 4

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 3.8°
4 Received Broken/Leaking (Improperly Sealed): Y N
Notes:
5 Properly Preserved Y N
Notes:
6 Received Within Holding Times Y N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record? Y N
Notes:

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME: JAMES R SAGE	Time: 1551	PRINT NAME: Elma Hayes
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:
* SEE ATTACHED SHEETS

Needs by Thurs. Feb 6th

For WestRidge sludge - Jamey Sage

Table 3. Analytical **Methods For Baseline Soil Characterization**

already doing

Test to be Performed	Reported As	Suggested Methods[1]
-pH	saturated paste standard units	Soil Science Society of America. 1996. Series No. 5. Methods of Soil Analysis: Part 3 - Chemical Methods. Chapter 14, page 420 and Chapter 16, page 487.
IGES Saturation %	%	USDA-NRCS.1996. Soil Survey Laboratory Methods Manual.(SSIR No 42) ver. 3.0, Method 8A, page 402.
-EC.	dS/m @ 25°C (or mmhos/cm)	Ibid. Chapter 14, pp 420 - 422 and pp 427 - 431.
-Soluble Na, K, Mg, Ca	meq/L	Ibid. Chapters 14 pp 420-422 (saturation extract);Chapter 19 pp 555-557; Chapter 20 pp586-590 (spectroscopic methods).
-Available NO_3-N	mg/Kg	Soil Science Society of America. 1996. Series No. 5. Methods of Soil Analysis: Part 3 - Chemical Methods. Chapter 38. p 1129 (KCl extraction). For analysis follow: Sims, J.R. and G.D. Jackson. 1971. Rapid Analysis of Soil Nitrate with Chromotropic Acid. Soil Sci. Soc. Am. Proc. 35-603-606.
-Available Phosphorus	mg/Kg	Soil Science Society of America. 1996. Series No. 5. Methods of Soil Analysis: Part 3 - Chemical Methods. Chapter 32, page 895. ($NaHCO_3$ Extraction.)
IGES Particle Size Analysis	% very fine sand, sand, silt, clay	Soil Science Society of America. 1986. Series No. 5. Methods of Soil Analysis: Part 1 - Physical and Mineralogical Methods. Chapter 15 pp 398 and 404-409 (Hydrometer Method).
-Organic Matter	%	Western States Laboratory Proficiency Testing Program Soil and Plant Analytical Methods. 1998. v 4.10. p 86. (Loss on Ignition, convert %LOI to OM by regression intercept value as noted in method)
- $CaCO_3$ %	%	Ibid. p. 99 (Soil Carbonates, Gravimetric Determination after extraction with 3 M HCl.) Total Inorganic Carbon = %$CaCO_3$ x 0.12.
-Extractable Potassium	meq/100 g^{-1}	Western States Laboratory Proficiency Testing Program Soil and Plant Analytical Methods. 1998. v 4.10. p 73

[1] Laboratories vary in their capabilities. Specify these recommended methods to the laboratory. Use of other methods should be discussed with the Division.

Table 7. Additional Analyses Required for Substitute Topsoil, Overburden, Spoil, and Coal Mine Waste.

PARAMETERS	Reported As	RECOMMENDED METHOD
already doing — Total Organic Carbon ACZ	%	Western States Laboratory Proficiency Testing Program Soil and Plant Analytical Methods. 1998. v 4.10. p 88. (Combustion Method)
Soluble Selenium + AWAL will do this	mg/kg	Soil Science Society of America. Methods of Soil Analysis: Part 3 - Chemical Methods. Series No. 5, 1996.Chapter 30. pp 805 - 811. (Hydride Generation Atomic Absorption-Spectrometry and Fluorimetry of water extractable selenium)
Available Boron +	mg/kg	Soil Science Society of America. Methods of Soil Analysis: Part 3 - Chemical Methods. Series No. 5, 1996.Chapter 21. p 611 (saturation extract).
already doing — Acid Potential	% pyritic S	U.S. EPA, 1978, EPA 600/278-054. Method 3.2.6, pg 60
Neutralization Potential ACZ	Tons $CaCO_3$ equivalent/1000 tons	U.S. EPA, 1978, EPA 600/278-054. Method 3.2.3, pg 47

Noah,
we need to have results by Feb 6th.
If this incurrs a rush fee, that's ok.
Thanks for your time,
Elma
Noah S@ACZ labs.com

Karla Knoop

From: Karla Knoop [kknoop@jbrenv.com]
Sent: Monday, January 26, 2009 11:42 AM
To: 'darwinsage@gmail.com'
Subject: West Ridge goop sampling

Jamey,

Thanks for the help!

What we know is the material is sludgy/goopy/and most probably comprised in part of coal fines. It has been conveyed in the water that is pumped out of the mine and become deposited/accumulated on the banks to a depth of a couple inches. It would be hard to get gallons of it, but we could get a few ounces fairly easily. The consistency is like sloppy mud and the particles are very fine.

We would want to analyze for:
pH, total organic carbon (TOC), total petroleum hydrocarbons (TPH), acid potential (% pyritic sulfur), neutralization potential (% calcium carbonate).

What we need to know:
Sample containers, volume needed, protocol for collection.
Protocol for storage (iced, etc.), holding times.

We would probably want a rush analysis.

Thanks,

Karla

Karla Knoop, Hydrologist
jbr Environmental Consultants, Inc.
phone (435) 637-9645
fax (435) 637-8679
kknoop@jbrenv.com

Saturation of Soil

IGES
© IGES 2008

Project: AWAL
No: M00754-004 (P.O.# 88693)
Location:
Date: 2/3/2009
By: NB

Sample Info.	Boring No.								
	Sample:	Sludge							
	Depth:								
Unit Weight Data	Mass jar + moist soil (g)	271.85							
	Mass jar (g)	119.71							
	Moist soil, Ms (g)	152.14							
	Mass. jar + water (g)	247.16							
	Water temperature (°C)	19.0							
	Mass water (g)	127.45							
	Dens. of wat. at T (g/cc)	0.998410							
	Sample volume, V (cc)	127.65							
	Dens. soil (g/cc)	1.192							
	Dry dens. soil (g/cc)	0.4274							
Moisture Data	Wet soil + tare (g)	363.20							
	Dry soil + tare (g)	244.81							
	Tare (g)	178.62							
	Moisture content (%)	178.86							
Specific gravity of solids, Gs		2.052							
Volume of solids, Vs (cc)		26.59							
Volume of water, Vw (cc)		97.58							
Volume of voids, Vv (cc)		101.07							
Volume of air, Va (cc)		3.48							
Void ratio, e		3.801							
Porosity, n		0.792							
Saturation (%)		**96.55**							

Entered by:_____
Reviewed:_____

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Particle-Size Analysis of Soils
(ASTM D422)

IGES
© IGES 2004

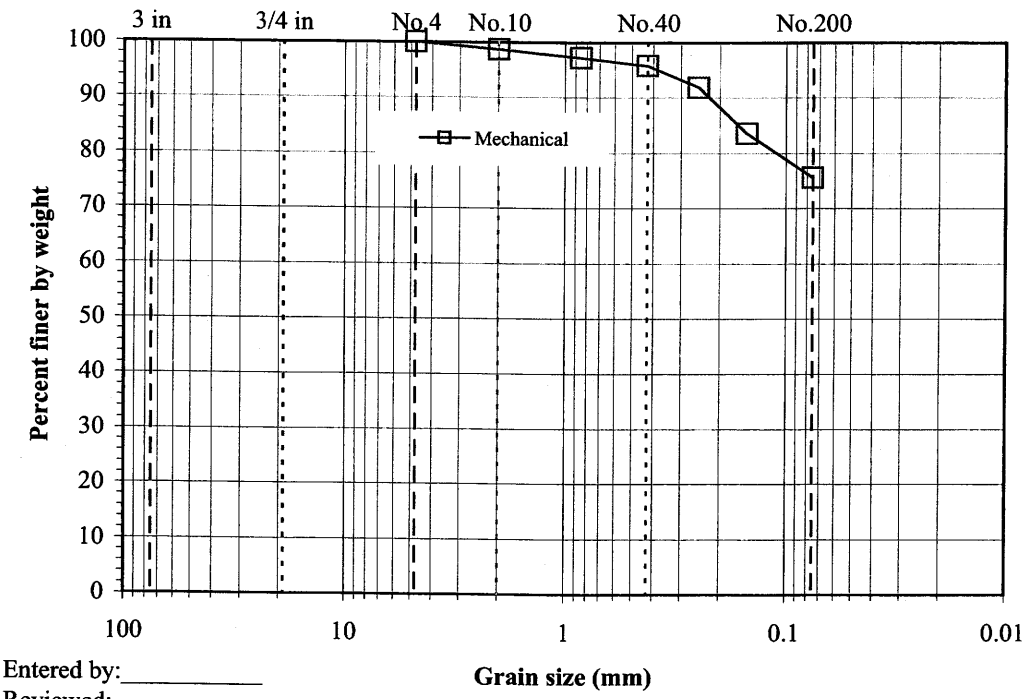
Project: AWAL
No: M00754-004 (P.O. 88693)
Location:
Date: 1/30/2009
By: NB

Boring No.:
Sample: Sludge
Depth:
Description: Dark brown silt with sand

Split:	No	
	-	
	Moist	Dry
Total sample wt. (g):	184.58	66.2
Split fraction:	1.000	

Moisture data		
Moist soil + tare (g):	-	363.20
Dry soil + tare (g):	-	244.81
Tare (g):	-	178.62
Moisture content (%):	0.0	178.9

Sieve	Accum. Wt. Ret. (g)	Grain Size (mm)	Percent Finer
12"	-	300	-
8"	-	200	-
6"	-	150	-
4"	-	100	-
3"	-	75	-
1.5"	-	37.5	-
3/4"	-	19	-
3/8"	-	9.5	-
No.4	-	4.75	100.0
No.10	0.88	2	98.7
No.20	1.89	0.85	97.1
No.40	2.82	0.425	95.7
No.60	5.45	0.25	91.8
No.100	10.92	0.15	83.5
No.200	16.21	0.075	75.5



Entered by:_____
Reviewed:_____

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

February 16, 2009

Karla Knoop
JBR Environmental Consultants, Inc.
8160 So. Highland Dr. Ste A-4
Sandy, UT 84093

TEL: (801) 943-4144
FAX: (801) 942-1852

RE: West Ridge

Lab Set ID: L88902

Dear Karla Knoop:

American West Analytical Labs received 1 sample on 1/28/2009 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Approved by: Jose G. Rocha
Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

Client: JBR Environmental Consultants, Inc. Contact: Karla Knoop
Project ID: West Ridge

AMERICAN WEST ANALYTICAL LABORATORIES

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: L88902-01A
Field Sample ID: **Sludge**
Collected: 1/28/2009 12:15:00 PM
Received: 1/28/2009

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results	
Aluminum	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	30	**6100**	[2]
Antimony	mg/kg-dry	2/12/2009 10:42:44 PM	6020	1.2	**1.8**	
Arsenic	mg/kg-dry	2/12/2009 10:42:44 PM	6020	0.73	**11**	
Barium	mg/kg-dry	2/12/2009 9:34:00 PM	6020	13	**280**	~
Beryllium	mg/kg-dry	2/12/2009 10:42:44 PM	6020	0.58	< 0.58	
Cadmium	mg/kg-dry	2/12/2009 10:42:44 PM	6020	0.25	< 0.25	
Chromium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	3.0	**18**	
Cobalt	mg/kg-dry	2/12/2009 10:42:44 PM	6020	0.39	**4.6**	
Copper	mg/kg-dry	2/12/2009 10:42:44 PM	6020	4.5	**15**	
Iron	mg/kg-dry	2/4/2009 6:19:00 PM	6010B	150	**18000**	[2] ~
Lead	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	15	< 15	
Manganese	mg/kg-dry	2/12/2009 9:34:00 PM	6020	12	**350**	~
Mercury	mg/kg-dry	2/13/2009 7:52:00 AM	7471A	0.12	< 0.12	
Molybdenum	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	12	< 12	
Nickel	mg/kg-dry	2/12/2009 10:42:44 PM	6020	5.8	**17**	
Silver	mg/kg-dry	2/12/2009 10:42:44 PM	6020	0.44	< 0.44	
Thallium	mg/kg-dry	2/12/2009 10:42:44 PM	6020	1.2	< 1.2	
Tin	mg/kg-dry	2/12/2009 10:42:44 PM	6020	1.7	< 1.7	
Titanium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	1.5	**120**	
Vanadium	mg/kg-dry	2/4/2009 6:54:00 PM	6010B	1.5	**10**	
Zinc	mg/kg-dry	2/12/2009 9:34:00 PM	6020	150	**350**	~

[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.
~ - The reporting limits were raised due to high analyte concentrations.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-44883	Antimony	mg/kg	6020	18.15	20	0	90.7	85-115				2/12/2009
LCS-44883	Arsenic	mg/kg	6020	18.20	20	0	91.0	85-115				2/12/2009
LCS-44883	Barium	mg/kg	6020	18.32	20	0	91.6	85-115				2/12/2009
LCS-44883	Beryllium	mg/kg	6020	20.39	20	0	102	85-115				2/12/2009
LCS-44883	Cadmium	mg/kg	6020	17.83	20	0	89.2	85-115				2/12/2009
LCS-44883	Cobalt	mg/kg	6020	18.64	20	0	93.2	85-115				2/12/2009
LCS-44883	Copper	mg/kg	6020	18.72	20	0	93.6	85-115				2/12/2009
LCS-44883	Manganese	mg/kg	6020	18.12	20	0	90.6	85-115				2/12/2009
LCS-44883	Nickel	mg/kg	6020	18.68	20	0	93.4	85-115				2/12/2009
LCS-44883	Selenium	mg/kg	6020	18.16	20	0	90.8	85-115				2/12/2009
LCS-44883	Silver	mg/kg	6020	18.77	20	0	93.9	85-115				2/12/2009
LCS-44883	Thallium	mg/kg	6020	19.47	20	0	97.3	85-115				2/12/2009
LCS-44883	Tin	mg/kg	6020	94.77	100	0	94.8	85-115				2/12/2009
LCS-44883	Zinc	mg/kg	6020	88.39	100	0	88.4	85-115				2/12/2009
LCS-44888	Mercury	mg/kg	7471A	0.2060	0.2	0	103	80-120				2/13/2009
LCS-44680	Aluminum	mg/kg	6010B	90.39	100	0	90.4	75-125				2/4/2009
LCS-44680	Boron	mg/kg	6010B	92.03	100	0.487	91.5	75-125				2/4/2009
LCS-44680	Calcium	mg/kg	6010B	956.0	1000	0	95.6	75-125				2/4/2009
LCS-44680	Chromium	mg/kg	6010B	19.31	20	0	96.6	75-125				2/4/2009
LCS-44680	Iron	mg/kg	6010B	97.69	100	0	97.7	75-125				2/4/2009
LCS-44680	Lead	mg/kg	6010B	18.68	20	0	93.4	75-125				2/4/2009
LCS-44680	Magnesium	mg/kg	6010B	937.8	1000	0	93.8	75-125				2/4/2009
LCS-44680	Molybdenum	mg/kg	6010B	19.50	20	0.1407	96.8	75-125				2/4/2009
LCS-44680	Potassium	mg/kg	6010B	969.9	1000	0	97.0	75-125				2/4/2009
LCS-44680	Sodium	mg/kg	6010B	946.8	1000	5.019	94.2	75-125				2/4/2009
LCS-44680	Aluminum	mg/kg	6010B	90.39	100	0	90.4	75-125				2/4/2009
LCS-44680	Boron	mg/kg	6010B	92.03	100	0.487	91.5	75-125				2/4/2009
LCS-44680	Calcium	mg/kg	6010B	956.0	1000	0	95.6	75-125				2/4/2009
LCS-44680	Chromium	mg/kg	6010B	19.31	20	0	96.6	75-125				2/4/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: LCS

LCS-44680	Iron	mg/kg	6010B	97.69	100	0	97.7	75-125	2/4/2009
LCS-44680	Lead	mg/kg	6010B	18.68	20	0	93.4	75-125	2/4/2009
LCS-44680	Magnesium	mg/kg	6010B	937.8	1000	0	93.8	75-125	2/4/2009
LCS-44680	Molybdenum	mg/kg	6010B	19.50	20	0.1407	96.8	75-125	2/4/2009
LCS-44680	Potassium	mg/kg	6010B	969.9	1000	0	97.0	75-125	2/4/2009
LCS-44680	Sodium	mg/kg	6010B	946.8	1000	5.019	94.2	75-125	2/4/2009
LCS-44680	Titanium	mg/kg	6010B	95.22	100	0	95.2	75-125	2/4/2009
LCS-44680	Vanadium	mg/kg	6010B	19.56	20	0	97.8	75-125	2/4/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-44883	Antimony	mg/kg	6020	< 0.40				-				2/12/2009
MB-44883	Arsenic	mg/kg	6020	< 0.25				-				2/12/2009
MB-44883	Barium	mg/kg	6020	< 0.45				-				2/12/2009
MB-44883	Beryllium	mg/kg	6020	< 0.20				-				2/12/2009
MB-44883	Cadmium	mg/kg	6020	< 0.085				-				2/12/2009
MB-44883	Cobalt	mg/kg	6020	< 0.14				-				2/12/2009
MB-44883	Copper	mg/kg	6020	< 1.6				-				2/12/2009
MB-44883	Manganese	mg/kg	6020	< 0.40				-				2/12/2009
MB-44883	Nickel	mg/kg	6020	< 2.0				-				2/12/2009
MB-44883	Selenium	mg/kg	6020	< 0.85				-				2/12/2009
MB-44883	Silver	mg/kg	6020	< 0.15				-				2/12/2009
MB-44883	Thallium	mg/kg	6020	< 0.40				-				2/12/2009
MB-44883	Tin	mg/kg	6020	< 0.60				-				2/12/2009
MB-44883	Zinc	mg/kg	6020	< 5.0				-				2/12/2009
MB-44888	Mercury	mg/kg	7471A	< 0.040				-				2/13/2009
MB-44680	Aluminum	mg/kg	6010B	< 10				-				2/4/2009
MB-44680	Boron	mg/kg	6010B	< 50				-				2/4/2009
MB-44680	Calcium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Chromium	mg/kg	6010B	< 1.0				-				2/4/2009
MB-44680	Iron	mg/kg	6010B	< 5.0				-				2/4/2009
MB-44680	Lead	mg/kg	6010B	< 5.0				-				2/4/2009
MB-44680	Magnesium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Molybdenum	mg/kg	6010B	< 4.0				-				2/4/2009
MB-44680	Potassium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Sodium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Aluminum	mg/kg	6010B	< 10				-				2/4/2009
MB-44680	Boron	mg/kg	6010B	< 50				-				2/4/2009
MB-44680	Calcium	mg/kg	6010B	< 100				-				2/4/2009
MB-44680	Chromium	mg/kg	6010B	< 1.0				-				2/4/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MBLK

MB-44680	Iron	mg/kg	6010B	< 5.0	-	2/4/2009
MB-44680	Lead	mg/kg	6010B	< 5.0	-	2/4/2009
MB-44680	Magnesium	mg/kg	6010B	< 100	-	2/4/2009
MB-44680	Molybdenum	mg/kg	6010B	< 4.0	-	2/4/2009
MB-44680	Potassium	mg/kg	6010B	< 100	-	2/4/2009
MB-44680	Sodium	mg/kg	6010B	< 100	-	2/4/2009
MB-44680	Titanium	mg/kg	6010B	< 0.50	-	2/4/2009
MB-44680	Vanadium	mg/kg	6010B	< 0.50	-	2/4/2009

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Jose Rocha
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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88902-01AMS	Barium	mg/kg-dry	6020	288.0	57.67	282	10.3	70-130			1	2/12/2009
L88902-01AMS	Manganese	mg/kg-dry	6020	459.7	57.67	350.8	189	70-130			2	2/12/2009
L88902-01AMS	Tin	mg/kg-dry	6020	281.7	288.4	0	97.7	70-130				2/12/2009
L88902-01AMS	Zinc	mg/kg-dry	6020	646.3	288.4	349.4	103	70-130				2/12/2009
L88902-01AMS	Antimony	mg/kg-dry	6020	56.31	57.67	1.824	94.5	70-130				2/12/2009
L88902-01AMS	Arsenic	mg/kg-dry	6020	68.89	57.67	10.95	100	70-130				2/12/2009
L88902-01AMS	Beryllium	mg/kg-dry	6020	62.90	57.67	0	109	70-130				2/12/2009
L88902-01AMS	Cadmium	mg/kg-dry	6020	54.93	57.67	0.1999	94.9	70-130				2/12/2009
L88902-01AMS	Cobalt	mg/kg-dry	6020	58.76	57.67	4.583	93.9	70-130				2/12/2009
L88902-01AMS	Copper	mg/kg-dry	6020	73.26	57.67	14.73	101	70-130				2/12/2009
L88902-01AMS	Nickel	mg/kg-dry	6020	73.16	57.67	17.46	96.6	70-130				2/12/2009
L88902-01AMS	Silver	mg/kg-dry	6020	56.49	57.67	0	97.9	70-130				2/12/2009
L88902-01AMS	Thallium	mg/kg-dry	6020	55.27	57.67	0	95.8	70-130				2/12/2009
L88902-01AMS	Mercury	mg/kg-dry	7471A	0.6265	0.5882	0.02353	102	80-120				2/13/2009
L88693-01BMS	Aluminum	mg/kg-dry	6010B	9711	293	6067	1240	75-125			2	2/4/2009
L88693-01BMS	Boron	mg/kg-dry	6010B	306.0	293	37.16	91.8	75-125				2/4/2009
L88693-01BMS	Chromium	mg/kg-dry	6010B	77.38	58.6	18.25	101	75-125				2/4/2009
L88693-01BMS	Lead	mg/kg-dry	6010B	54.82	58.6	3.46	87.7	75-125				2/4/2009
L88693-01BMS	Magnesium	mg/kg-dry	6010B	13700	2930	12060	55.8	75-125			2	2/4/2009
L88693-01BMS	Molybdenum	mg/kg-dry	6010B	60.51	58.6	2.636	98.8	75-125				2/4/2009
L88693-01BMS	Potassium	mg/kg-dry	6010B	5046	2930	1468	122	75-125				2/4/2009
L88693-01BMS	Sodium	mg/kg-dry	6010B	4630	2930	1169	118	75-125				2/4/2009
L88693-01BMS	Calcium	mg/kg-dry	6010B	90590	2930	84860	196	75-125			2	2/4/2009
L88693-01BMS	Iron	mg/kg-dry	6010B	21440	293	17840	1230	75-125			2	2/4/2009
L88902-01AMS	Aluminum	mg/kg-dry	6010B	9792	290.7	6117	1260	75-125			2	2/4/2009
L88902-01AMS	Chromium	mg/kg-dry	6010B	78.02	58.15	18.4	103	75-125				2/4/2009
L88902-01AMS	Lead	mg/kg-dry	6010B	55.28	58.15	3.489	89.1	75-125				2/4/2009
L88902-01AMS	Molybdenum	mg/kg-dry	6010B	61.02	58.15	2.658	100	75-125				2/4/2009
L88902-01AMS	Titanium	mg/kg-dry	6010B	366.4	290.7	118.4	85.3	75-125				2/4/2009

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MS

L88902-01AMS	Vanadium	mg/kg-dry	6010B	67.96	58.15	10.41	99.0	75-125		2/4/2009
L88902-01AMS	Iron	mg/kg-dry	6010B	21440	288.4	17840	1250	75-125	[2]	2/4/2009

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

[2] - Analyte concentration is too high for accurate matrix spike recovery and/or RPD.

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QC SUMMARY REPORT

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Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L88902-01AMSD	Barium	mg/kg-dry	6020	281.9	58.74	282	-0.273	70-130	2.15	20	1	2/12/2009
L88902-01AMSD	Manganese	mg/kg-dry	6020	493.6	58.74	350.8	243	70-130	7.11	20	2	2/12/2009
L88902-01AMSD	Tin	mg/kg-dry	6020	280.9	293.7	0	95.6	70-130	0.275	20		2/12/2009
L88902-01AMSD	Zinc	mg/kg-dry	6020	605.4	293.7	349.4	87.1	70-130	6.54	20		2/12/2009
L88902-01AMSD	Antimony	mg/kg-dry	6020	57.00	58.74	1.824	93.9	70-130	1.22	20		2/12/2009
L88902-01AMSD	Arsenic	mg/kg-dry	6020	71.08	58.74	10.95	102	70-130	3.13	20		2/12/2009
L88902-01AMSD	Beryllium	mg/kg-dry	6020	63.32	58.74	0	108	70-130	0.654	20		2/12/2009
L88902-01AMSD	Cadmium	mg/kg-dry	6020	55.48	58.74	0.1999	94.1	70-130	0.995	20		2/12/2009
L88902-01AMSD	Cobalt	mg/kg-dry	6020	59.80	58.74	4.583	94.0	70-130	1.75	20		2/12/2009
L88902-01AMSD	Copper	mg/kg-dry	6020	76.31	58.74	14.73	105	70-130	4.07	20		2/12/2009
L88902-01AMSD	Nickel	mg/kg-dry	6020	76.26	58.74	17.46	100	70-130	4.15	20		2/12/2009
L88902-01AMSD	Silver	mg/kg-dry	6020	57.02	58.74	0	97.1	70-130	0.938	20		2/12/2009
L88902-01AMSD	Thallium	mg/kg-dry	6020	55.34	58.74	0	94.2	70-130	0.127	20		2/12/2009
L88902-01AMSD	Mercury	mg/kg-dry	7471A	0.6147	0.5882	0.02353	101	80-120	1.90	20		2/13/2009
L88693-01BMSD	Aluminum	mg/kg-dry	6010B	9676	299.4	6067	1210	75-125	0.361	20	2	2/4/2009
L88693-01BMSD	Boron	mg/kg-dry	6010B	321.7	299.4	37.16	95.0	75-125	5.01	20		2/4/2009
L88693-01BMSD	Chromium	mg/kg-dry	6010B	77.75	59.88	18.25	99.4	75-125	0.475	20		2/4/2009
L88693-01BMSD	Lead	mg/kg-dry	6010B	57.67	59.88	3.46	90.5	75-125	5.06	20		2/4/2009
L88693-01BMSD	Magnesium	mg/kg-dry	6010B	13840	2994	12060	59.2	75-125	0.995	20	2	2/4/2009
L88693-01BMSD	Molybdenum	mg/kg-dry	6010B	60.92	59.88	2.636	97.3	75-125	0.674	20		2/4/2009
L88693-01BMSD	Potassium	mg/kg-dry	6010B	4650	2994	1468	106	75-125	8.17	20		2/4/2009
L88693-01BMSD	Sodium	mg/kg-dry	6010B	4193	2994	1169	101	75-125	9.90	20		2/4/2009
L88693-01BMSD	Calcium	mg/kg-dry	6010B	84410	2994	84860	-15.1	75-125	7.07	20	2	2/4/2009
L88693-01BMSD	Iron	mg/kg-dry	6010B	25160	299.4	17840	2450	75-125	16.0	20	2	2/4/2009
L88902-01AMSD	Aluminum	mg/kg-dry	6010B	9676	299.4	6117	1190	75-125	1.19	20	2	2/4/2009
L88902-01AMSD	Chromium	mg/kg-dry	6010B	77.75	59.88	18.4	99.1	75-125	0.351	20		2/4/2009
L88902-01AMSD	Lead	mg/kg-dry	6010B	57.67	59.88	0	96.3	75-125	4.24	20		2/4/2009
L88902-01AMSD	Molybdenum	mg/kg-dry	6010B	60.92	59.88	0	102	75-125	0.153	20		2/4/2009
L88902-01AMSD	Titanium	mg/kg-dry	6010B	385.8	299.4	118.4	89.3	75-125	5.16	20		2/4/2009

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QC SUMMARY REPORT

CLIENT: JBR Environmental Consultants, Inc.
Work Order: L88902
Project: West Ridge

Dept: ME
SampType: MSD

L88902-01AMSD	Vanadium	mg/kg-dry	6010B	70.30	59.88	10.41	100	75-125	3.38	20		2/4/2009
L88902-01AMSD	Iron	mg/kg-dry	6010B	25160	299.4	17840	2450	75-125	16.0	20	[2]	2/4/2009

[1] - Matrix spike recovery indicates matrix interference. The method is in control as indicated by the LCS.

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American West Analytical Labs

RUSH

WORK ORDER Summary

12-Feb-09

Work Order L88902

Client ID: JBR400 **QC Level:** 2+

Project: West Ridge **Location:** Hokes **Contact:** Karla Knoop

Comments: 3 Day Rush; QCLevel: 2+. Previously received as 88693. Use pmoist data from 88693.

DB

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L88902-01A	Sludge	1/28/2009 12:15:00 PM	1/28/2009	2/16/2009	Sludge	6020-S	feb 11 - metals	1
				2/16/2009		Hg-prep-S	feb 11 - metals	1
				2/16/2009		HG-S	feb 11 - metals	1
				2/16/2009		ICP-S	feb 11 - metals	1
				2/16/2009		PMOIST	feb 11 - metals	1

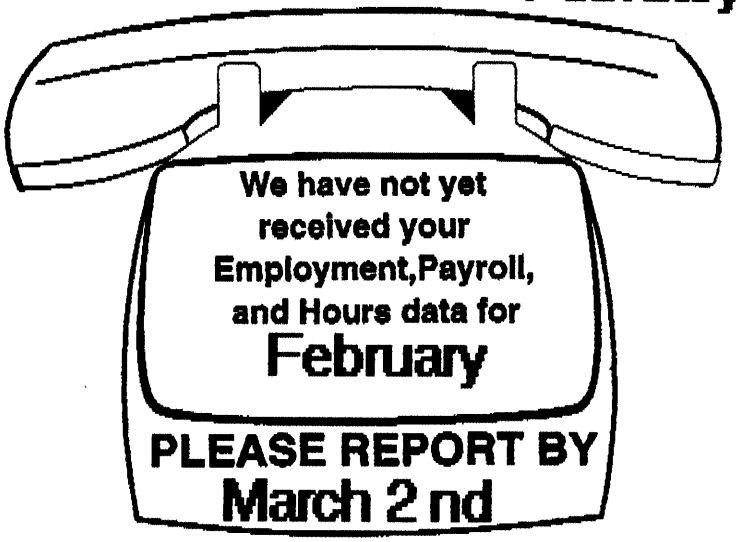
U.S. Department of Labor

Bureau of Labor Statistics
2 Massachusetts Ave. N.E. #4860
Washington, D.C. 20212

TO : Linda Kerns
ANDALEX RESOURCES INC
DATE: 03/02/2009
FROM: U.S. DEPT. of LABOR - U.S. Bureau of Labor Statistics
Report Number: 490004816

CURRENT EMPLOYMENT STATISTICS PROGRAM

We Miss Your Data for February



To report your data, call
1-800-877-7715

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If you have any questions comments, please call 1-800-827-2005

YOUR DATA ARE IMPORTANT

Form Approved O.M.B. No. 1220-0011
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