

October 13, 2009 Project No. 20082474V1

Mr. Ranajit Sahu, C.E.M., Ph.D. Basic Remediation Company 875 West Warm Springs Road Henderson, Nevada 89011

RE: Western Hook Sub-Area Soil Re-Sampling, Henderson, Nevada

Dear Dr. Sahu:

On September 18, 2009 through September 22, 2009, Geotechnical and Environmental Services, Inc. (GES) implemented a sampling program per the direction of Basic Remediation Company (BRC). This activity report details the scope of services performed, which consisted of the following:

- September 16, 2009: USA Underground utility alert was called in after field marking the project area.
- September 16, 2009: Staked and located ten (10) sampling locations with a GPS Trimble ProXH Unit. The sample location coordinates were provided by Daniel B. Stephens & Associates, Inc.
- September 18 September 22, 2009: Collected sixteen (16) samples from six (6) boring locations and four (4) hand sampling locations throughout the site at depths ranging from 0.0 to 12 feet. Duplicate samples were taken approximately every 10th sample, while one (1) MS/MSD sample was collected. A total of two (2) field duplicate samples, one (1) matrix spike/matrix spike duplicate sample and one (1) rinsate sample were taken throughout the sampling event.

GES's scope of services was to implement the field sampling program so that others can evaluate the data resulting from our sampling efforts. Therefore, this report does not provide conclusions regarding the analytes or their levels of occurrence.

Field Investigation Methodology

<u>Soils</u> - Soil samples were taken from six (6) borings drilled using the hollow stem auger method and four (4) surface locations sampled by hand methods. The boreholes were initiated using a Diedrich D-50+ Track Drill Rig outfitted with 6-1/2 inch outside diameter hollow stem augers. A California modified split spoon sampler was advanced at least 18 inches per sampling interval by using an autohammer with an equivalent force of a 140-pound hammer falling 30 inches for each blow.

PROVIDING

- Geotechnical Engineering
- Construction Materials Engineering
- Environmental Engineering
- Drilling Services

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Soil samples were logged according to the USCS Classification by a qualified Geologist. In addition, each sample was examined for odors and stains. Boring logs were prepared for the locations drilled and sampled at depths greater than 0.0 feet below the ground surface (Appendix A, Figures 4 through 9).

At each sample location and depth interval, the samples were collected in six (6) clean 2.5-inch diameter by 6.0-inch long stainless steel sleeves using standard split spoon sampling techniques. The ends of each sleeve(s) retained for analysis were covered with Teflon sheeting and placed in a sealable ZipLockTM type plastic bag.

Duplicate (splits) soil samples were collected for each sample interval and retained on hold until the laboratory analytical results are reviewed. The duplicate sample on hold for the sample with the highest arsenic concentration will be shipped to McCrone Laboratory (Westmont, Illinois) for arsenic analysis. The duplicate samples were collected in clean, laboratory provided 4-ounce glass jars and stored in a refrigerator at 4° Celsius.

Each sample was provided a unique sampling number with the following designation: Sample Location, Depth Interval, Date, and Time. For example, the first sampling location was identified as WHD-As-BG05-0, 9/18/09, 1225, while the final sampling location (matrix spike duplicate) was identified as WHD-As-P14-0-MSD, 9/21/09, 1430. The soil samples were stored in coolers with ice and shipped daily via FedEx to Test America Laboratories (Earth City, Missouri), GEL Laboratory (Charleston, South Carolina) and ALS Laboratory Group (Salt Lake City, Utah).

Surface Water

Surface water samples were collected from two (2) locations within a lined drainage ditch that extends across the west portion of the Western Hook Sub-Area. The sample locations are shown on Figure 2.

At each sample location, the samples were collected by hand in clean polyethylene containers preserved with nitric acid (HNO3).

Each sample was provided a unique sampling number with the following designation: Sample Location, Date, and Time. For example, the first sampling location was identified as WHD-As-SW01, 9/18/09, 1415, while the final sampling location was identified as WHD-As-SW02, 9/18/09, 1505. The water samples were stored in coolers with ice and shipped daily via FedEx to Test America Laboratories (Earth City, Missouri).

The health and safety monitoring effort complied with the BRC Health and Safety Plan, October, 2005.

Decontamination Procedures

The drilling equipment and down-hole equipment were decontaminated prior to initial usage and then between each borehole location. Decontamination of drilling equipment consisted of high pressure washing prior to initial boring. The down-hole equipment was washed between borehole locations using Liquinox™ detergent wash, a potable water rinse, and a final rinse with commercially available distilled water.

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Investigative Derived Waste (IDW)

All Investigative Derived Waste consisted of drilling cuttings (soil) and equipment decontamination waste (Liquinox laboratory grade detergent and rinse water). Ground water was not encountered, therefore the drill cuttings were returned to the borehole after the sampling was completed. Decontamination fluid was minimal and disposed of in the boreholes.

Documentation

Documentation of the field activities consists of figures showing the site location (Vicinity Map, Figure 1), boring locations (Site Map, Figure 2), photographs of representative boring locations (Figure 3) and boring logs (Figure 4 through 9). These documents are included as attachments. Copies of the Chain-of-Custodies and daily safety meeting forms are also included as attachments.

Changes to Original Planned Work

During this work there were only minor modifications to the original scope of services. Sample location was moved approximately 10 feet south due to the GPS coordinates placing the borings in a small wetlands pond.

We appreciate this opportunity to provide our professional services. If you have questions or comment, feel free to contact our office at (702) 365-1001.

Sincerely,

Geotechnical & Environmental Services, Inc.

Richard A. Cooke, C.E.M.

Di Sund a. Cooke

Project Geologist

C.E.M. #1820

RAC:KSH:vm:ac

Enc.: Figures 1, 2 and 3 Boring Logs (6)

Chain-of-Custody Records (5)
Tailgate Safety Meeting Forms (2)

Dist:

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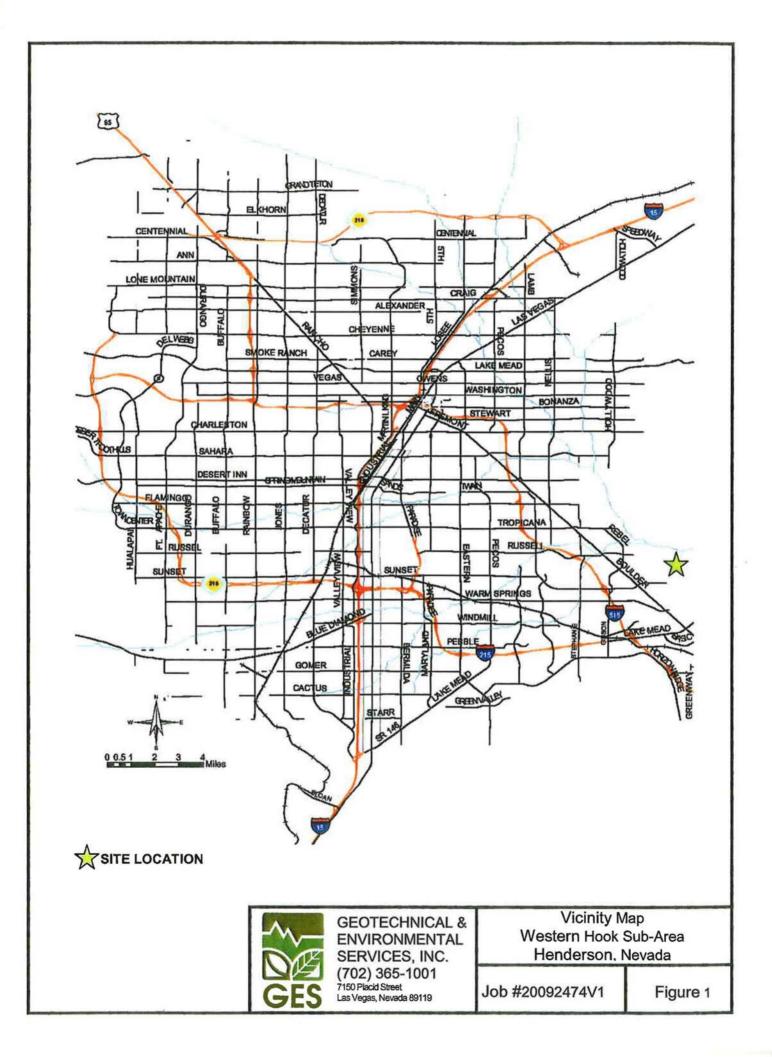
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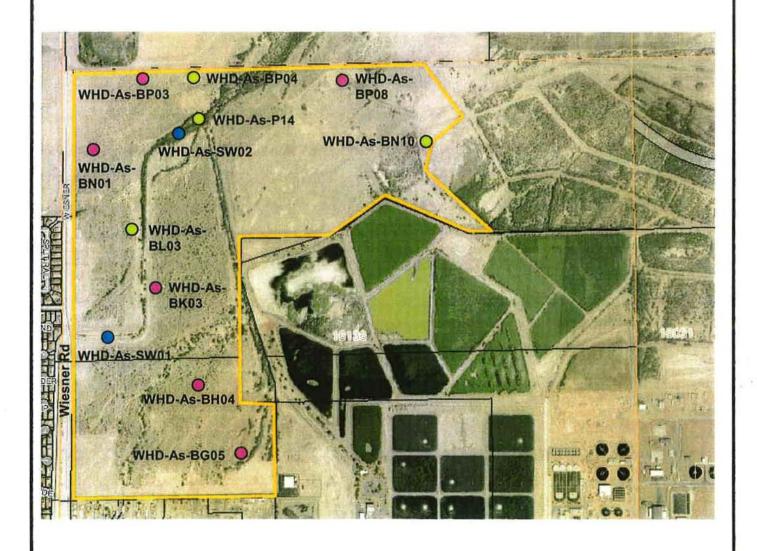
1 cc to project file

Kyle S. Hansen, C.E.M. Environmental Program Manager

C.E.M. #2167

FIGURES:
VICINITY MAP
EXPLORATION LOCATION MAP
BORING LOGS





- Soil Sample Locations Surface Only
- Soil Sample Locations Surface and Subsurface
- Surface Water Sample Locations

Clark County Nevada Southern Nevada GIS IM3.7 Aerial Photograph Fall 2009-Spring 2009



AERIAL PHOTOGRAPH Western Hook Sub-Area Henderson, Nevada

Job #20092474V1

Figure 2



1. WHD-AS-BP04: View toward the west.



2. WHD-AS-P14: View of GPS location in a wetlands area. The sample was collected approximately 10 feet left of the stake (south).



3. WHD-AS-BN08: View showing the location on top of a soil berm.



PROJECT:

Western Hook Re-Sampling 20042474V1 FIGURE 3 Site Photographs



4. WHD-AS-BK03: View toward the south.



5. WHD-AS-BP03: View toward the east.



6. WHD-AS-BN01: View toward the west.



PROJECT: Western Hook Re-Sampling 20042474V1 FIGURE 3a Site Photographs

EXPLORATION LOG WHD-AS-BG05

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS

ELEVATION: EXISTING GROUND SURFACE

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/18/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/BRINKERHOFF

DATE MEASURED: NA

DATE MEASURED: NA

FINAL DEF	TH TO WATER:	NOTEN	COUNTERED DATE MEASURED:	NA					
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	USCS	DESCRIPTION	Ы	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
- 2.5	3 6 9	SP-SM	Yellowish brown (10YR 5/4) poorly graded silty SAND, trace gravel, dry and loose. Collect WHD-AS-BG05-0 (55% sand (95% fine sand, 5% medium sand), 45% silt, trace gravel						
- - 5 - - - - - 7.5			medium dense.						ų.
-10	35 38 43		moistdense. Collect WHD-As-BG05-10.						
			END OF BORING AT 11.5 FEET						
- - - - - - - - - - - - - - - - - - -			END OF BORING AT 11.5 FEET						

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made.

It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

EXPLORATION LOG WHD-AS-BH04

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS

ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/18/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

DATE MEASURED: NA

FINAL DEP	TH TO WATER:	NOTEN	COUNTERED DATE MEASURED:	INA			_		
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	Ы	н	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
-2.5		SP-SM	Yellowish brown (10YR 5/4) poorly graded silty SAND, trace gravel, dry and loose (60% sand, 35% silt, 50% gravel).						
- 5 7.5		SM	Yellowish brown (10YR 5/4) silty SAND with gravel, dry and medium dense (60 % silt, 25% poorly graded sand (100% fine sand), 15% gravel (95% fine gravel, trace course gravel)).						
- 10	23 35 50/1		weak to moderately cemented and very dense to hardCollect WHD-As-BH04-10.						
- - -12.5									
- - - 15									
-							P5		

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GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

EXPLORATION LOG WHD-AS-BN01

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS **ELEVATION: EXISTING GROUND SURFACE**

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/18/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG LOGGED BY: SANCHEZ/BRINKERHOFF

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA

DATE MEASURED: NA

FINAL DEP	TH TO WATER:	INO I EIN	COUNTERED DATE MEASURED.	147	<u> </u>		_		
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	ď	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL CONSTRUCTION
- 0 		SP-SM	Light brown (7.5YR 6/3) silty SAND with gravel, trace cobbles, dry and loose (65% sand, 10% silt, 25% gravel).						
- -12.5	12 21 25		Collect WHD-As-BN01-12.						
- - - 15 - -	And a control of the		END OF BORING AT 13.5 FEET						

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

EXPLORATION LOG WHD-AS-BP03

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS

ELEVATION: EXISTING GROUND SURFACE

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/21/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/COOKE

DATE MEASURED: NA

DATE MEASURED: NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	Ы	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
- 0 		SM	Light brown (7.5YR 6/3) silty SAND with gravel, trace cobbles, dry and medium dense (60% sand, 15% silt, 25% gravel).						
-12.5 -15	12 21 25	CL	Collect WHD-As-BP03-11. Reddish brown (5YR 5/3) clayey SAND, dry and dense. Reddish brown (5YR 5/3) sandy lean CLAY, dry and very stiff. END OF BORING AT 12.5 FEET						

The descriptions contained within this exploration log apply only at the specific exploration location and at the time the exploration was made. It is not intended to be representative of subsurface conditions at other locations or times.

GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

EXPLORATION LOG WHD-AS-BP08

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS

ELEVATION: EXISTING GROUND SURFACE

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

FINAL DEPTH TO WATER: NOT ENCOUNTERED

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/21/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/COOKE

DATE MEASURED: NA

DATE MEASURED: NA

FINAL DEP	IH TO WATER:	NOT EN	COUNTERED DATE MEASURED:	INA	<u> </u>		_		
ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	Ы	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
- 2.5		SM	Light brown (7.5YR 6/3) silty SAND with gravel, dry and medium dense (55% sand, 15% silt, 35% gravel). Collect WHD-As-BP08-0.						
- - - 5	2 3 4		collect WHD-As-BN08-4.						
	100000		END OF BORING AT 5.5 FEET						4.3
-0									
-7.5									
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-									
-10									
-									
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- 12.5									
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- 15									
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GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

EXPLORATION LOG WHD-AS-BK03

PROJECT: WESTERN HOOK SUB-AREA RE-SAMPLING

EXPLORATION LOCATION: HENDERSON, NEVADA

EXPLORATION SIZE (dia.): 6 1/4" O.D. AUGERS

ELEVATION: EXISTING GROUND SURFACE

PROJECT NO.: 20092474V1

EXPLORATION DATE: 9/21/09

EQUIPMENT: DIEDRICH D-50 TRACK RIG

LOGGED BY: SANCHEZ/COOKE

INITIAL DEPTH TO WATER: NOT ENCOUNTERED

DATE MEASURED: NA FINAL DEPTH TO WATER: NOT ENCOUNTERED DATE MEASURED: NA

ELEVATION/ DEPTH	SOIL & SAMPLE SYMBOLS	uscs	DESCRIPTION	ā	1	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Pocket Penetrometer (tsf)	WELL
		SM	Light brown (7.5YR 6/3) silty SAND with gravel, trace cobbles, dry and medium dense (60% sand, 10% silt, 30% gravel).						
- 5 - 7.5 			dense.					4.00	
- - - 12.5	7 13 25		Collect WHD-As-BK03-12.						
- - - 15			END OF BORING AT 13.5 FEET						

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GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

CHAIN-OF-CUSTODY FORMS AND TAILGATE SAFETY MEETING FORMS

ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350

SAMPLER(S) PRINTED NAME AND SIGNATURE

Sacramento, CA 95833 Phone #: (916) 924-9378

FED EX #:

LABORATORY: ALS Laboratory Group

Address: 960 West LavoyDrive

Date:

Salt Lake city, UT 84123

SAMPLER(S) PRINTED NAME	AND SIGNATUL	RE														Α	NA	LYS	SIS	REC	QUE	ST							
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ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350

ORIGINAL: Send with sample (sign only in blue or black ink)

Sacramento, CA 95833 Phone #: (916) 924-9378 LABORATORY: TestAmerica-St. Louis

COPIES: Retained by Sampler, Sent to Office

Contact Person: Jerry Everett

Address: 13715 Rider Trail North

Earth City, Missouri 63045 Phone: (314) 298-8566

FED EX #:																									Date	e: 9-	18.	-09	1
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ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350

ORIGINAL: Send with sample (sign only in blue or black ink)

Sacramento, CA 95833 Phone #: (916) 924-9378 LABORATORY: TestAmerica-St. Louis

COPIES: Retained by Sampler, Sent to Office

Contact Person: Jerry Everett

Address: 13715 Rider Trail North

Earth City, Missouri 63045 Phone: (314) 298-8566

1 Holic #. (510) 524-5070		Filorie. (314) 296-6360
FED EX #:		Date: 9-18-09
SAMPLER(S) PRINTED NAME AND SIGNATURE		ANALYSIS REQUEST
Phil Brindonof Phil Brind	lufiff	040B
PROJECT NAME: WESTERN HOOK AREA		
PROJECT NUMBER: 20092474V1	Container	376. 99045
SAMPLE ID DATE TIME WHD-AS-BGOS-0 9-18-09 1225 WHD-AS-BGOS-10 9-18-09 1245 WHD-AS-BHOY-10 9-18-09 1335 WHD-AS-BPOY-0 9-18-09 1440 WHD-AS-BPOS-0 9-18-09 1525 WHD-AS-BNIO-0 9-18-09 1540		Nons* by EPA 300.0 Nons* b
Comments/Instructions: Samples may contain high levels of arsenic. Signature: RELINQUISHED BY: RECEIVED BY: Fed Ex Air Bill RELINQUISHED BY: RECEIVED BY:	Pri	nt Name: Company Name/Title: Date: Time: 65/6-eologis + 9-18-09 (200
For Lab Use Only: Sample Condition Upon Receipt:		

ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350

ORIGINAL: Send with sample (sign only in blue or black ink)

Sacramento, CA 95833 Phone #: (916) 924-9378 LABORATORY: TestAmerica-St. Louis

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Contact Person: Jerry Everett

Address: 13715 Rider Trail North

Earth City, Missouri 63045

Phone: (314) 298-8566

FED EX #:																										Da	te:	1-2	4-	99
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SAMPLE ID WHD-AS-BPO8-4 WHD-AS-BPO3-12 WHD-AS-BPO3-11 WHD-AS-BPO3-11-FD WHD-AS-BPO3-11-FD WHD-AS-BLO3-0 WHD-AS-BLO3-0-FD WHD-AS-PIY-0-MS WHD-AS-PIY-0-MSD	DATE 9-24-69 9-24-09 9-21-09 9-21-09 9-21-09 9-21-09 9-21-09 9-21-09	TIME 1120 1200 1230 1230 1230 1315 1400 1430 1430	XXXXXX Unpres	H2SO4	33	HC	NaOH	ZnAc/NaOH	EDA	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X X X X X X X X X X X X X X X X X X X	De la	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X Your Arrent	XXX XXX Cotal Alseine	, Grain Size D422	XXXXXX Chlorite 300.1													
Comments/Instructions: Samples may contain high level RELINQUISHED BY: RECEIVED BY: Fellex A	Signature):			R	ich	av	-D		int Na		e:						0				y Na			9:		Date 22		Ti O C	me:
RECEIVED BY:																										+				
For Lab Use Only: Sample Condition U	Upon Receipt:																									_				

ERM CONTACT PERSON

Name: Maria Barajas-Albalawi

Address: 2525 Natomas Park Drive, Suite 350

ORIGINAL: Send with sample (sign only in blue or black ink)

Sacramento, CA 95833 Phone #: (916) 924-9378 LABORATORY: TestAmerica-St. Louis

COPIES: Retained by Sampler, Sent to Office

Contact Person: Jerry Everett

Address: 13715 Rider Trail North Earth City, Missouri 63045

Phone: (314) 298-8566

ED EX #:																											-09
SAMPLER(S) PRINTED NAME	E AND SIGNATUR	RE								=								ANALYSI	SR	FQU	FST		-				-
Richard Cooke			2																Ĭ		Ī		П		T		П
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PROJECT NAME: WESTERN										- 1	300.0	္မွ	2		20				П								
PROJECT NUMBER: 2009247	74V1		<u></u> ,		Co	ntai	ner				A3	98	376.		090	422	-		П								
SAMPLE ID	DATE	TIME	Unpres	KH2S04	(HNO3	HC	NaOH	ZnAc/NaOH	EDA		VIONS* by EPA	PH by EPA 9045C/9040B	Sulfide 376/376.2	TOC 415.	Total Arsenic	Grain Size D422	X Chlorite 300.1										
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Comments/Instructions: Samples may contain high lev	els of arsenic.																						•				
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For Lab Use Only: Sample Condition	Upon Receipt:																										

TAILGATE SAFETY MEETING FORM

Date: 9-18-09 Time: 12:00 pm Job Number: 20092474V1
Client: BRC
Site Specific Location: Western Hook Enh Aveg
Safety Topics Presented
Protective Clothing/Equipment: Level D PPE
Chemical Hazards: Metals (As),
Physical Hazards: Trop hazarda, Sharp object (glun, rals)
Special Equipment: _NA
Other: NA
Emergency Procedures: Call 911
Hospital: St. Ruse Phone: 911 Ambulance Phone: 911
Hospital Address and Route: Bouldon Hwy + Lake mead Pky
ATTENDEES
NAME PRINTED Richard Coule Phil Brinderhoft Edvando Sanchez Clist Beckham
Meeting Conducted By: P. Brinkler hoff Phil Drinkles Signature
On-Site Safety Officer: Pr hvinker Floff Project Manager: R. Cooke



TAILGATE SAFETY MEETING FORM

Date: 9-21-09 Time: 12:00 cm Job Number: 20092474V1
Client: BLC
Site Specific Location: Western Hook Ent Aveg
Safety Topics Presented
Protective Clothing/Equipment: Level D PPE
Chemical Hazards: Metals (As),
Physical Hazards: Trop hazardo, Sharp objecte (glun, nads)
Special Equipment: NA
Other: NA
Emergency Procedures: Call 911
Hospital: St. Rose Phone: 911 Ambulance Phone: 911
Hospital Address and Route: Bouldon Huy + Lake mead Pky
ATTENDEES
NAME PRINTED SIGNATURE
Ridrard Coule Vintagl Cooly
Phil Brinker hoff Phil Brinker
Edvardo Sanchez Esfantion
Clist Beckhain
Meeting Conducted By: P. Brinkerhaff Phil Brinkfift
Name Printed Name Printed Signature
0 0 0
On-Site Safety Officer: Prinker Floff Project Manager: R. Cooke

