



December 10, 2009  
Project No. 20092586V1

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

**RE: Second Removal Action Work Plan for Soil, Southern RIBs Sub-Area Soil  
Re-Sampling Second Scrape, Henderson, Nevada**

Dear Dr. Sahu:

PROVIDING

- Geotechnical Engineering
- Construction Materials Engineering
- Environmental Engineering
- Drilling Services
- Ground Source Heat Exchange
- Thermal Conductivity Testing

On December 7, 2009 through December 8, 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:

- December 7, 2009: Staked and located twenty five (25) sampling locations with a GPS Magellan Mobile Mapper CE. The sample location coordinates were provided by ERM.
- December 7 – December 8, 2009: Collected twenty five (25) samples from the surface using hand sampling methods throughout the site. Three (3) duplicate samples, two (2) MS/MSD samples, and two (2) rinsate samples 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**

**Soils** - Soil samples were taken from twenty (25) surface locations by hand sampling methods. The samples submitted for chemical analyses were collected in clean 2.5-inch diameter by 6.0-inch long stainless steel sleeves using hand sampling methods. The ends of each sleeve(s) retained for analysis were covered with Teflon sheeting and placed in a sealable ZipLock™ type plastic bag.

Each sample was provided a unique sampling number with the following designation: Sample Location, Sample Depth, Date, and Time. For example, the first sampling location was identified as SRC3-J11SE-0, 12/7/09, 06:57, while the final sampling location (field duplicate) was identified as SRC3-J02NW-0-DUP, 12/7/09, 0917. The soil samples were stored in coolers with ice and shipped daily via FedEx to Test America Laboratories (Earth City, Missouri).

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

#### **Decontamination Procedures**

The sampling equipment was decontaminated prior to initial usage and then between each location. Decontamination of the equipment consisted of a Liquinox™ detergent wash, a potable water rinse, and a final rinse with commercially available distilled water.

#### **Investigative Derived Waste (IDW)**

Investigative Derived Waste consisted of a small quantity of equipment decontamination waste (Liquinox laboratory grade detergent and rinse water). Decontamination fluid was minimal and disposed of appropriately.

#### **Documentation**

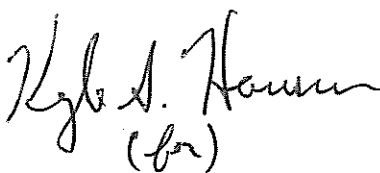
Documentation of the field activities consists of figures showing the site location (Vicinity Map, Figure 1), sample locations (Site Map, Figure 2) and photographs of representative boring locations (Figure 3). These documents are included as attachments. Copies of the Chain-of-Custodies are also included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

#### **Changes to Original Planned Work**

During this work there were no modifications to the original scope of services.

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.  
Project Geologist  
C.E.M. #1820

RAC:KSH:PMF:PB:ac

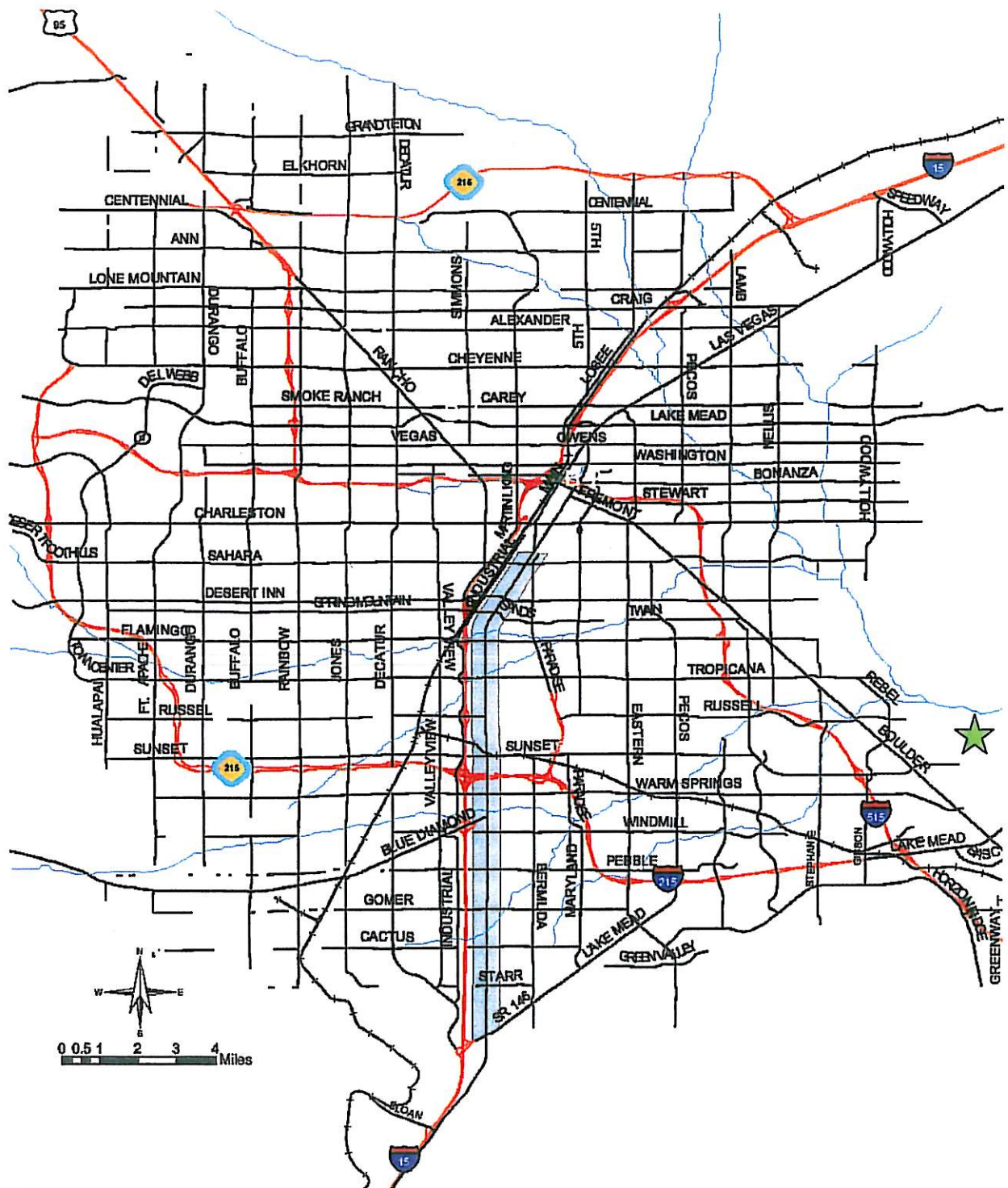
Enc.: Figures 1, 2 and 3  
Chain-of-Custody Records (5)

Dist: 1 pdf copy emailed to client at sahuron@earthlink.net  
1 original mailed to addressee  
1 cc to project file



Patrick M. Ferringer  
Staff Geologist

**FIGURES:  
VICINITY MAP  
SAMPLE LOCATION MAP  
PHOTOGRAPHS**



★ SITE LOCATION



GEOTECHNICAL &  
ENVIRONMENTAL  
SERVICES, INC.  
(702) 365-1001  
7150 Placid Street  
Las Vegas, Nevada 89119

Vicinity Map  
Southern RIBs Sub-Area  
Henderson, Nevada

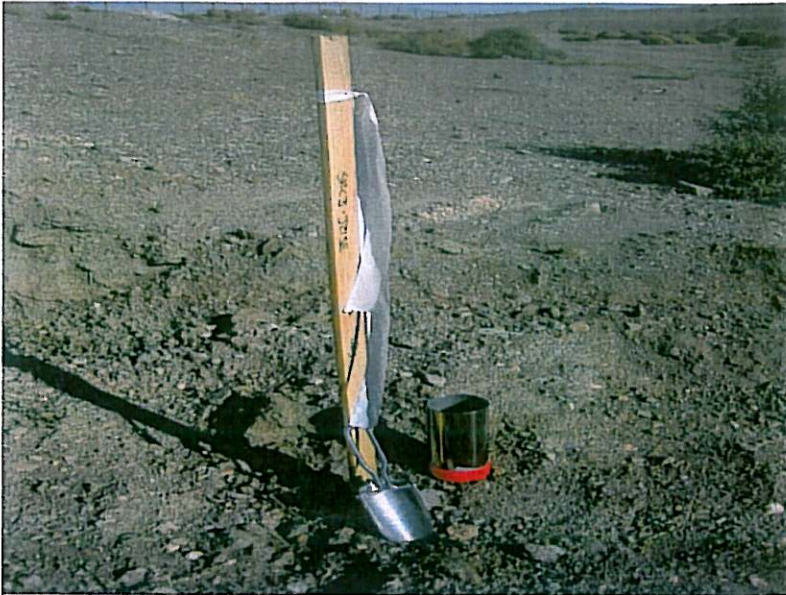
Job #20092474V1

Figure 1









1. Looking east from the southeast corner of SRC3-J21 sample area. Sampling equipment located at bottom of stake.



2. Looking west along SRC3-J21 and SRC3-J23 sampling areas.



3. Looking southwest over SRC3-J11 sampling area.



4. Looking southwest towards the northern part of SRC3-J11 sample area.



**PROJECT:**  
Southern RIBs Sub-Area  
20092586V1  
**FIGURE 3a**  
**Site Photographs**

## **CHAIN-OF-CUSTODY FORMS**



# ERM CHAIN OF CUSTODY RECORD

## ERM CONTACT PERSON

Name: Maria Barajas-Albalawi  
Address: 2525 Natomas Park Drive, Suite 350  
Sacramento, CA 95833  
Phone #: (916) 924-9378

LABORATORY: TestAmerica-St. Louis  
Contact Person: Jerry Everett  
Address: 13715 Rider Trail North  
Earth City, Missouri 63045  
Phone: (314) 298-8566

FED EX #:

Date: 12-7-07

## SAMPLER(S) PRINTED NAME AND SIGNATURE

*Danica Ferringer*  
*Rachel*

PROJECT NAME: Southern Ribs 305-area

PROJECT NUMBER: 2009250601

## ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	Container						IONS* by EPA 300.0	Dioxins/Furans* by EPA 8290	Gen. Chem* (please see methods)	pH by EPA 9045C/9040B	METALS* by EPA Methods 6010B/6020/7471A/7470A	Hex chromium by EPA 7196A	OC Pesticides* by EPA 8081A	Aroclors* by EPA 8082	Congeners* by EPA 1668	Aldehydes* by EPA 8315	VOCs* by EPA 8260B	Physical Parameters 3*	Percent Moisture
			H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	EDA													
SRC3-J11SE-0	12-7-09	0657	X						X	X											
SRC3-J11SE-0DOP	12-7-09	0657	X						X	X											
SRC3-J11SU-0	12-7-09	0709	X						X	X											
SRC3-J11C2-0	12-7-09	0725	X						X	X											
SRC3-J11NE-0	12-7-09	0734	X						X	X											
SRC3-J11NW-0	12-7-09	0747	X						X	X											
SRC3-J21SE-0	12-7-09	0806	X						X	X											
SRC3-J21SE-0 MS/MIB	12-7-09	0806	X						X	X											
SRC3-J21NE-0	12-7-09	0815	X						X	X											
SRC3-J21C2-0	12-7-09	0826	X						X	X											

## Comments/Instructions:

\* Please refer to Table 5 (Southern Ribs Sampling: emailed on October 17, 2008)

1 Analyze at TA-Sacramento

2 Analyze at TA-Nashville

3 Analyze at TA-Burlington

1 Please report results in dry weight, therefore all soil will require % moisture testing.

5 Extract samples for Aroclors by 8082 only. If sum of the congeners result (method 1688) is greater than 33 ppb, please analyze for aroclors by 8082

Signature:

Print Name:

Company Name/Title:

Date:

RELINQUISHED BY: *[Signature]*

Time: 12:09

Company Name/Title: *GES/Geology*

Date: 12/7/07

RELINQUISHED BY: *[Signature]*

Time: 12:11

Company Name/Title: *GES/Geology*

Date: 12/7/07

For Lab Use Only: Sample Condition Upon Receipt:

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

COPIES: Retained by Sampler, Sent to Office

## ERM CHAIN OF CUSTODY RECORD

**ERM CONTACT PERSON**

**Name:** Maria Barajas-Albalawi  
**Address:** 2525 Natomas Park Drive, Suite 350  
Sacramento, CA 95833  
**Phone #:** (916) 924-9378

**LABORATORY: TestAmerica-St. Louis**

**Contact Person: Jerry Everett**  
**Address: 13715 Rider Trail North**  
**Earth City, Missouri 63045**  
**Phone: (314) 298-8566**

#X3 Q34 FED EX #

Date: 3-3

**SAMPLER(S) PRINTED NAME AND SIGNATURE**

Patrick Ferringer  
Patrick Ferringer

PROJECT NAME: Southern RISs Sub-Area

PROJECT NUMBER: 20092586v1

[illegible]**Comments/Instructions:**

\* Please refer to Table 5 (Southern Ribs Sampling: emailed on October 17, 2008)

<sup>1</sup> Analyze at TA-Sacramento

<sup>2</sup> Analyze at TA-Nashville

### 3 Analyze at TA-Budgeting

**Analyze at A-Burlington**

**Signature:**

Print Name: \_\_\_\_\_

**Company Name/Title:**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RELINQUISHED**

11/11/1964

Full Name: Eric C. ...

Company Name/Title

Date: \_\_\_\_\_ Time: \_\_\_\_\_

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**DECLARATION**

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**Figure 1**

*Journal of Management Education* 36(8) 907-924

**Figure 1**

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**Phone #:** (916) 924-9378

**Contact Person: Jerry Everel**  
**Address: 13715 Rider Trail North**  
**Earth City, Missouri 63041**  
**Phone: (314) 298-8561**

FED EX #: \_\_\_\_\_ Date: 12-8-09

**SAMPLER(S) PRINTED NAME AND SIGNATURE**

Patrick Ferringer

**PROJECT NAME:** Southern Ribs sub-area

PROJECT NUMBER: 1498526002

SAMPLE ID	DATE	TIME							IONS <sup>a</sup> by EPA	Gen. Chem <sup>a</sup> (pH by EPA 90)	METALS <sup>b</sup> 6010B/6020/7	Hex chromium	OC Pesticides <sup>c</sup>	Aroclors <sup>d</sup> by EPA	Congeners <sup>e</sup> Aldehydes <sup>f</sup>	VOCs <sup>g</sup> by EPA	Physical Parameters <sup>h</sup>	Percent Moisture <sup>i</sup>
			H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	EDA										
SRL3-J03SE-0	12-8-09	0850	X						X						X			
SRL3-J03SE-0Dup	12-8-09	0850	X						X						X			
SRL3-J03CE-0	12-8-09	0854	X						X						X			
SRL3-J03NE-0	12-8-09	0856	X						X						X			
SRL3-J02SE-0	12-8-09	0859	X						X						X			
SRL3-J03NW-0	12-8-09	0901	X						X						X			
SRL3-J03NW-0M440D	12-8-09	0901	X						X						X			
SRL3-J03SU-0	12-8-09	0907	X						X						X			
SRL3-J02NE-0	12-8-09	0910	X						X						X			
SRL3-J02CE-0	12-8-09	0912	X						X						X			

### Comments/Instructions:

\* Please refer to Table 5 (Southern Ribs Sampling: emailed on October 17, 2008)

<sup>1</sup> Analyze at TA-Sacramento

<sup>2</sup> Analyze at TA-Nashville

### 3 Analyze at TA-Burlington

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

**Company Name/Title:**

Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: Patricia  
RECEIVED BY: S. Almon

Patrick Feringer  
S. G. Malden

65/60, 60/60

DATE: 2-8-09 TIME: 1109

**REINQUISHED BY:**

REINQUISHED BY:

10/11/05

RECEIVED BY:

RECEIVED BY:

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**FEDEX**

Date: 12-8-09

[illegible]

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<sup>1</sup> Analyze at TA-Sacramento

<sup>2</sup> Analyze at TA-Nashville

### 3 Analyze at TA-Burlington

RELINQUISHED BY:	Signature:	Print Name:	Company Name/Title:	Date:	Time:
RECEIVED BY:	<i>[Signature]</i>	Patricia Ferringer	CRS/Geo/eng	12-8-09	11:09
RELINQUISHED BY:	<i>[Signature]</i>	Sandra	QA-LV	12/8/09	11:09
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

**For Lab Use Only: Sample Condition Upon Receipt:**

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