

EXHIBIT NO. ___(KCG-8)
DOCKET NO. PG-041624
WITNESS: KEVIN C. GARRITY

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY, INC.,

Respondent.

Docket No. PG-041624

**SEVENTH EXHIBIT TO THE PREFILED DIRECT TESTIMONY OF
KEVIN C. GARRITY (NONCONFIDENTIAL)
ON BEHALF OF PUGET SOUND ENERGY, INC.**

AUGUST 15, 2005

**BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION
COMMISSION**

Docket No. PG-041624

**Complaint Regarding Natural Gas Incident and House Fire
September 2, 2004; Bellevue, WA**

WUTC STAFF DATA REQUEST NO. 65

WUTC STAFF DATA REQUEST NO. 65:

Were any soil samples taken by PSE (or any other entity on PSE's behalf) on or after September 2, 2005, in the area served by the rectifier? If so, please provide the following information. Please designate each sample separately in such a manner that the information for each sample can be correlated to each sample:

- a) State who gathered each sample, and the amount of each sample gathered
- b) State the street address where each sample was gathered, and the location (*e.g.*, near the meter, near the street, *etc.*).
- c) State the date when each sample was gathered
- d) Describe in detail the manner in which each sample was collected and preserved (*e.g.*, core sampling device, shovel, *etc.*)
- e) State the date when each sample was tested, who tested it, and the type of test
- f) Provide the test results and any related analysis, including any analysis whether the soil sampled was preserved appropriately for the testing that was conducted

Response:

Please see attached information. Additionally, PSE is providing (via hard copy) the lab results of the soils samples taken on September 16, 2004.

March 28, 2005
Docket No. PG-041624

**WUTC STAFF DATA REQUEST NO. 65
RESPONSES**

Response to Paragraph a)

The soil in question was obtained from the service line and the adjacent trench. The service line was removed by a Pilchuck field crew under direct observation of PSE personnel and WUTC personnel.

Response to Paragraph b)

The soil in question was obtained from the service line. The service line was removed from 16645 SE 26 Place, Bellevue Washington.

Response to Paragraph c)

The service line was removed on September 3, 2004. Soil samples were obtained on 9/3/04 (Pipe Trench), 9/14/04(Trench Background), and 9/16/04 (Trench Sidewall, Trench Base and Remote Background)

Response to Paragraph d)

The soil in question was obtained with a shovel and was placed in a container that was sealed. The sealed containers were shipped to CC Technologies in Dublin, Ohio

Response to Paragraph e)

The soils samples were tested on 10/4/2004 through 10/8/2004.

Response to Paragraph f)

See response to Data Request 64 for test results. The samples were determined to have been properly preserved for the testing performed.

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Docket No. PG-041624

**Complaint Regarding Natural Gas Incident and House Fire
September 2, 2004; Bellevue, WA**

WUTC STAFF INFORMAL DATA REQUEST NO. 65

WUTC STAFF INFORMAL DATA REQUEST NO. 65:

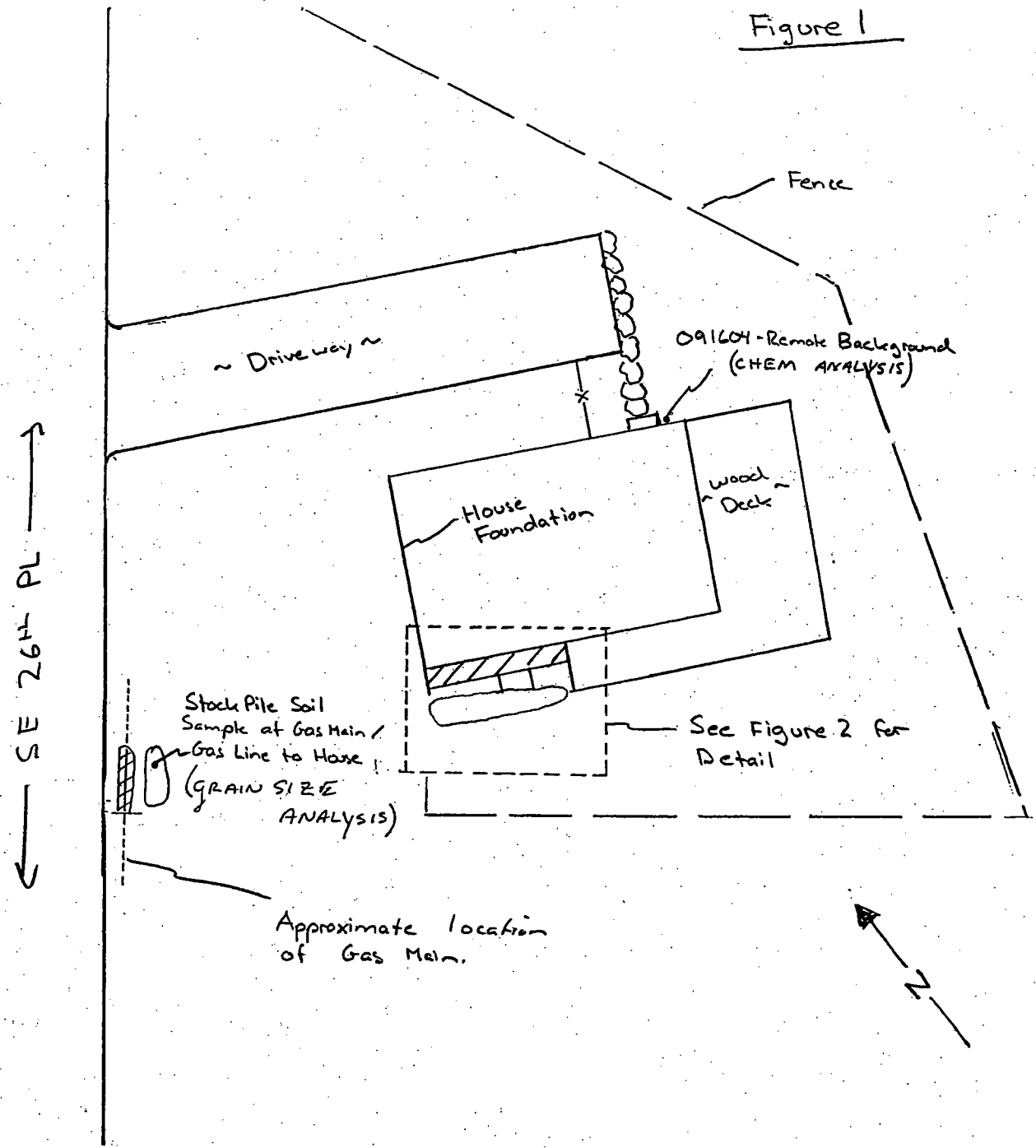
Were any soil samples taken by PSE (or any other entity on PSE's behalf) on or after September 2, 2005, in the area served by the rectifier? If so, please provide the following information. Please designate each sample separately in such a manner that the information for each sample can be correlated to each sample:

- a) State who gathered each sample, and the amount of each sample gathered
- b) State the street address where each sample was gathered, and the location (e.g., near the meter, near the street, etc).
- c) State the date when each sample was gathered
- d) Describe in detail the manner in which each sample was collected and preserved (e.g., core sampling device, shovel, etc.)
- e) State the date when each sample was tested, who tested it, and the type of test
- f) Provide the test results and any related analysis, including any analysis whether the soil sampled was preserved appropriately for the testing that was conducted


Supplemental Response:

Attached is supplemental information to the email sent by Steve Secrist on March 29, 2005.

Figure 1



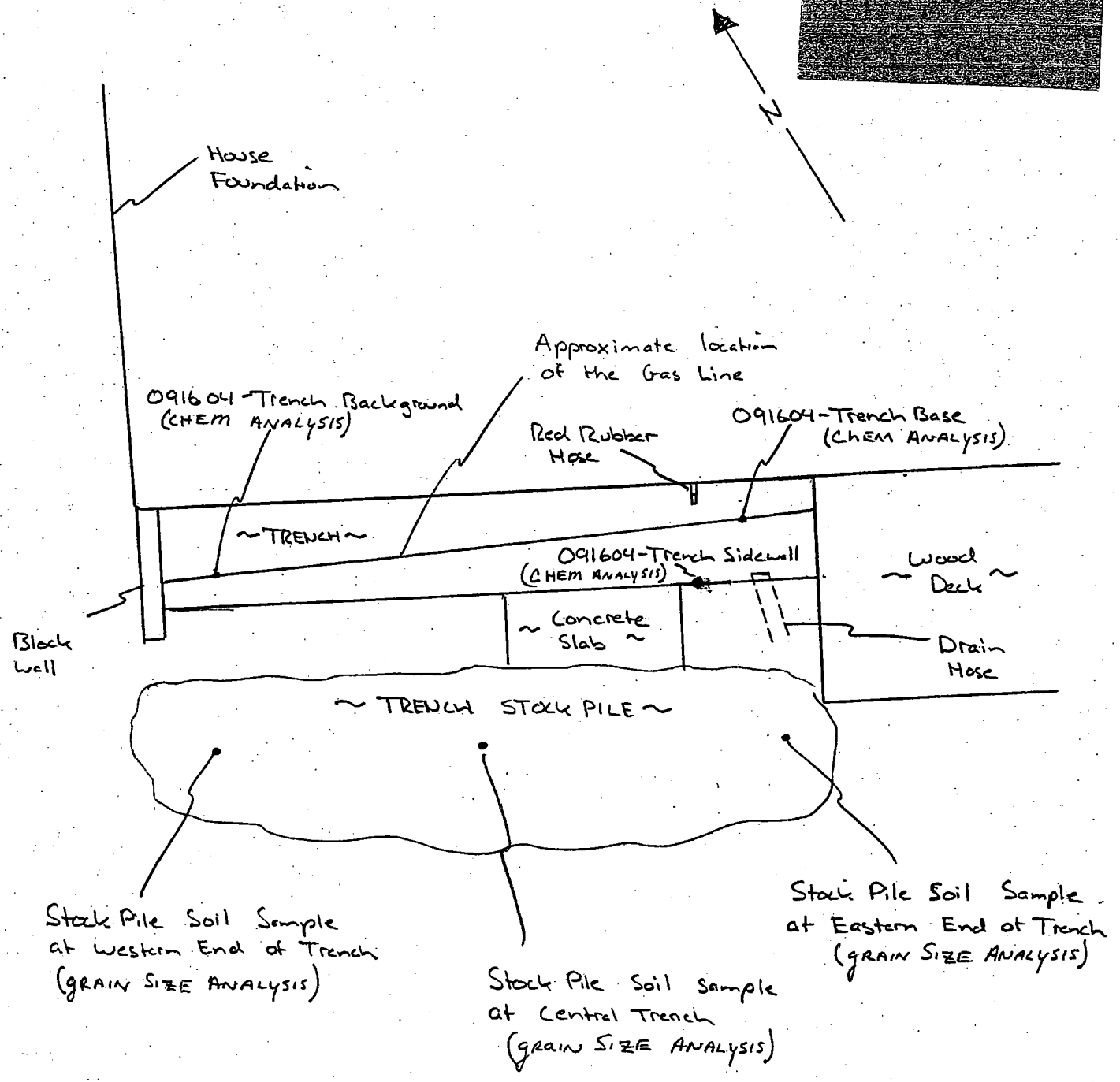
Notes

 = Approximate Area of Excavation

Scale = 1" : 20'

Research Site
Site No. 001234567890
Date: 09/16/09

Figure 2



Scale = 1" : 4'

TABLE 1
SOIL FIELD SCREENING AND CHEMICAL ANALYTICAL DATA¹
 16645 SE 26th Place
 Bellevue, Washington
 PUGET SOUND ENERGY
 GEI PROJECT NO. 0186-642-00

Sample Identification ²	Date Sampled	Sample Depth (feet bgs) ³	Water Sheen Screening	Photo Ionization Detection (ppm)	Total Alkalinity ⁴ (mg/kg)	Ammonia-Nitrogen ⁵ (mg/kg)	pH ⁶	Sulfide ⁷ (mg/kg)	Soil Resistivity ⁸ (Ohms-cm)	Bromide ⁹ (mg/kg)	Chloride ⁹ (mg/kg)	Fluoride ⁹ (mg/kg)	Orthophosphate-Phosphorus ⁹ (mg/kg)
090304-Pipe Trench	09/03/04	--	NS	--	16.4	<25.0	5.95	<19.2	1910	<4.0	28.7	8.22	7.6
091604-Trench-Base	09/16/04	3.5	NS	80.5	43.5	<22.1	5.79	<97.7	4,540	<4.0	20.8	<2.0	<4.0
091604-Trench-Side Wall	09/16/04	3.0	NS	0	9.35	<25.0	5.39	<96.6	6280	<4.0	10.7	<2.0	<4.0
091604-Trench-Background	09/16/04	4.0	NS	0	39.7	<25.0	6.03	<94.4	13400	<4.0	7.07	<2.0	<4.0
091604-Remote-Background	09/16/04	1.5	NS	0	105	<25.0	6.23	<97.8	4610	<4.0	27.3	4.31	<4.0

Notes:

¹ Chemical analysis by North Creek Applied in Bellevue, Washington

² Approximate sample locations are shown in Figures 1 and 2

³ Sample depths are approximate and were recorded as depth beneath local ground surface

⁴ Total alkalinity analyzed by Ecology method 310.1 (modified)

⁵ Ammonia-nitrogen analyzed by Ecology method 350.3

⁶ Acidity (pH) analyzed by Ecology method 905.4C

⁷ Sulfide analyzed by Ecology method 906.6B

⁸ Soil resistivity analyzed by Ecology method SV2510B

⁹ Bromide, chloride, fluoride and orthophosphate-phosphate analyzed by Ecology method 300.0

mg/kg = milligrams per kilogram

ppm = parts per million

bgs = below ground surface

NS = no sheen

Redm:\00\finals\0186-642-00-Table 1.xls



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

11 November 2004

Paul Craig
Geo Engineers - Redmond
8410 154th Ave NE
Redmond, WA/USA 98052

RE: PSE-Bellevue Explosion Investigation Site

Enclosed are amended results of analyses for samples received by the laboratory on 09/22/04 18:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 541.383.9310 fax 541.382.7588
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 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Amended Report
 Issued: 11/11/04 14:32

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
090304-PIPE TRENCH	B4I0656-01	Soil	09/03/04 12:00	09/22/04 18:25

Exhibit No. ____ (KCG-8)
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North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager

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 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Amended Report
 Issued: 11/11/04 14:32

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
090304-PIPE TRENCH (B4I0656-01) Soil. Sampled: 09/03/04 12:00 Received: 09/22/04 18:25										
Total Alkalinity	16.4	4.82		mg/kg wet	1	4I30059	09/30/04	09/30/04	EPA 310.1 Mod.	I-05
Ammonia-Nitrogen	ND	25.0		mg/kg as N wet	"	4I30051	09/30/04	09/30/04	EPA 350.3	
pH	5.95			pH Units	"	4I30061	"	"	EPA 9045C	
Sulfide	ND	19.2		mg/kg wet	"	4I27063	09/27/04	09/27/04	EPA 9030B	I-05

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Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Amended Report Issued: 11/11/04 14:32
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Conventional Chemistry by Standard Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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090304-PIPE TRENCH (B4I0656-01) Soil. Sampled: 09/03/04 12:00. Received: 09/22/04 18:25

Resistivity	1910		Ohms-cm	1	4130063	09/30/04	09/30/04	SM2510B	
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Exhibit No. ___(KCG-8)
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 8410 154th Ave NE
 Redmond, WA/USA 98052

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Amended Report
 Issued: 11/11/04 14:32

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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090304-PIPE TRENCH (B4I0656-01) Soil ... Sampled: 09/03/04 12:00 ... Received: 09/22/04 18:25

Bromide	ND	4.00	mg/kg wet	1	4J03004	10/01/04	10/01/04	EPA 300.0	
Chloride	28.7	4.00	"	"	"	"	"	"	
Fluoride	8.22	2.00	"	"	"	"	"	"	
Orthophosphate-phosphorus	7.60	4.00	"	"	"	"	"	"	I-05

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I27063: Prepared 09/27/04 Using General Preparation

Blank (4I27063-BLK1)

Sulfide	ND	20.0	mg/kg							
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LCS (4I27063-BS1)

Sulfide	104	20.0	mg/kg	112		92.9	75-125			
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LCS Dup (4I27063-BSD1)

Sulfide	102	20.0	mg/kg	112		91.1	75-125	1.94	25	
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Duplicate (4I27063-DUP1)

Source: B4I0656-01

Sulfide	ND	20.0	mg/kg wet		ND			NA	30	
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Matrix Spike (4I27063-MS1)

Source: B4I0656-01

ie	37.2	16.2	mg/kg wet	90.9	ND	40.9	20-120			
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Batch 4I30051: Prepared 09/30/04 Using General Preparation

Blank (4I30051-BLK1)

Ammonia-Nitrogen	ND	0.500	mg/kg as N							
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LCS (4I30051-BS1)

Ammonia-Nitrogen	4.93	0.500	mg/kg as N	5.00		98.6	75-125			
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LCS Dup (4I30051-BSD1)

Ammonia-Nitrogen	4.95	0.500	mg/kg as N	5.00		99.0	75-125	0.405	25	
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Duplicate (4I30051-DUP1)

Source: B4I0656-01

Ammonia-Nitrogen	ND	25.0	mg/kg as N wet		5.44				30	
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 425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
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 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

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Amended Report
 Issued: 11/11/04 14:32

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I30051: Prepared 09/30/04 Using General Preparation

Matrix Spike (4I30051-MS1)

Source: B4I0656-01

Ammonia-Nitrogen	239	25.0 mg/kg as N wet		233	5.44	100	33-168			
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Batch 4I30059: Prepared 09/30/04 Using General Preparation

Duplicate (4I30059-DUP1)

Source: B4I0425-01

Total Alkalinity	41.7	5.00 mg/kg dry			43.5			4.23	25	
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Batch 4I30061: Prepared 09/30/04 Using General Preparation

Duplicate (4I30061-DUP1)

Source: B4I0656-01

pH	5.60		pH Units		5.95			6.06	10	
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Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

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Conventional Chemistry by Standard Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I30063: Prepared 09/30/04 Using General Preparation

Duplicate (4I30063-DUP1)

Source: B4I0656-01

Resistivity	1720		Ohms-cm		1910			10.5	30	
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 425.420.9200 fax 425.420.9210
 Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
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 Redmond, WA/USA 98052

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Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4J03004: Prepared 10/01/04 Using General Preparation

Blank (4J03004-BLK1)

Bromide	ND	4.00	mg/kg							
Chloride	ND	4.00	"							
Fluoride	ND	2.00	"							
Orthophosphate-phosphorus	ND	4.00	"							

LCS (4J03004-BS1)

Bromide	41.4	4.00	mg/kg	40.0		104	90-110			
Chloride	20.5	4.00	"	20.0		102	90-110			
Fluoride	8.41	2.00	"	8.00		105	90-110			
Orthophosphate-phosphorus	20.1	4.00	"	19.4		104	90-110			

LCS Dup (4J03004-BSD1)

Bromide	41.0	4.00	mg/kg	40.0		102	90-110	0.971	25	
Chloride	20.8	4.00	"	20.0		104	90-110	1.45	10	
Fluoride	8.65	2.00	"	8.00		108	90-110	2.81	10	
Orthophosphate-phosphorus	19.8	4.00	"	19.4		102	90-110	1.50	10	

Duplicate (4J03004-DUP1)

Source: B4I0656-01

Bromide	ND	4.00	mg/kg wet		ND			NA	25	
Chloride	25.5	4.00	"		28.7			11.8	25	
Fluoride	6.71	2.00	"		8.22			20.2	25	
Orthophosphate-phosphorus	9.76	4.00	"		7.60			24.9	25	

Matrix Spike (4J03004-MS1)

Source: B4I0656-01

Bromide	41.3	4.00	mg/kg wet	39.8	ND	104	75-125			
Chloride	47.5	4.00	"	19.9	28.7	94.5	62-157			
Fluoride	11.8	2.00	"	7.96	8.22	45.0	75-125			Q-01
Orthophosphate-phosphorus	18.9	4.00	"	19.3	7.60	58.5	64-117			Q-01

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509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
8410 154th Ave NE
Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
Project Number: 0186-642-00
Project Manager: Paul Craig

Amended Report
Issued: 11/11/04 14:32

Notes and Definitions

- I-05 Since the sample was out of hold at the time of receipt, the preparation/analysis of the sample could not be initiated within the method-specified hold time.
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Exhibit No. ___(KCG-8)
Page 17 of 35

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jeff Gerdes, Project Manager

North Creek Analytical, Inc.
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Page 9 of 9



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 11115 E Montgomery Suite B, Spokane, WA 99206-4776
 9405 SW Nimbus Ave, Beaverton, OR 97008-7132
 20332 Empire Ave Suite F-1, Bend, OR 97701-5711
 3209 Denali St, Anchorage, AK 99503-4030

425-420-9200 FAX 425-9210
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 541-383-9310 FAX 382-7588
 907-334-9200 FAX 334-9210

CHAIN OF CUSTODY REPORT

CLIENT: PSE
REPORT TO: [Blank]
ADDRESS: [Blank]
PHONE: [Blank] **FAX:** [Blank]
PROJECT NAME: [Blank]
PROJECT NUMBER: [Blank]
SAMPLED BY: [Blank]

INVOICE TO: [Blank]
P.O. NUMBER: [Blank]

TURNAROUND REQUEST
 in Business Days *
 Organic & Inorganic Analyses: 10, 7, 5, 4, 3, 2, 1, <1
 Petroleum Hydrocarbon Analyses: 5, 4, 3, 2, 1, <1
 OTHER Specify: [Blank]
 * Turnaround Requester less than standard may incur Rush Charges.

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES										MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA W/O ID	
		PH	PH	PH	PH	PH	PH	PH	PH	PH	PH					PH
10	9/2/07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2																
3																
4																
5																
6																
7																
8																
9																
10																

RECEIVED BY: [Blank] **DATE:** [Blank] **TIME:** [Blank]
PRINT NAME: [Blank] **FIRM:** [Blank]
RECEIVED BY: [Blank] **DATE:** [Blank] **TIME:** [Blank]
PRINT NAME: [Blank] **FIRM:** [Blank]

ADDITIONAL REMARKS: [Blank]

TEMP: [Blank] **PAGE** [Blank] **OF** [Blank]



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588
Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
907.563.9200 fax 907.563.9210

05 October 2004

Paul Craig
Geo Engineers - Redmond
8410 154th Ave NE
Redmond, WA/USA 98052

RE: PSE-Bellevue Explosion Investigation Site

Enclosed are the results of analyses for samples received by the laboratory on 09/16/04 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Gerdes
Project Manager



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W. International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
091604-TRENCH-BASE	B4I0425-01	Soil	09/16/04 11:15	09/16/04 14:00
091604-TRENCH-SIDE WALL	B4I0425-02	Soil	09/16/04 11:25	09/16/04 14:00
091604-TRENCH-BACKGROUND	B4I0425-03	Soil	09/16/04 11:55	09/16/04 14:00
091604-REMOTE-BACKGROUND	B4I0425-04	Soil	09/16/04 12:20	09/16/04 14:00

Exhibit No. ___(KCG-8)
 Page 21 of 35

North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
091604-TRENCH-BASE (B4I0425-01) Soil ... Sampled: 09/16/04 11:15 ... Received: 09/16/04 14:00										
Total Alkalinity	43.5	5.00		mg/kg dry	1	4I30059	09/30/04	09/30/04	EPA 310.1 Mod.	
Ammonia-Nitrogen	ND	22.1		mg/kg as N dry	"	4I21034	09/21/04	09/21/04	EPA 350.3	
pH	5.79			pH Units	"	4I20046	09/17/04	09/17/04	EPA 9045C	
Sulfide	ND	97.7		mg/kg dry	"	4I21040	09/21/04	09/21/04	EPA 9030B	
091604-TRENCH-SIDE WALL (B4I0425-02) Soil ... Sampled: 09/16/04 11:25 ... Received: 09/16/04 14:00										
Total Alkalinity	9.35	4.98		mg/kg dry	1	4I30059	09/30/04	09/30/04	EPA 310.1 Mod.	
Ammonia-Nitrogen	ND	25.0		mg/kg as N dry	"	4I21034	09/21/04	09/21/04	EPA 350.3	
pH	5.39			pH Units	"	4I20046	09/17/04	09/17/04	EPA 9045C	
Sulfide	ND	96.6		mg/kg dry	"	4I21040	09/21/04	09/21/04	EPA 9030B	
091604-TRENCH-BACKGROUND (B4I0425-03) Soil ... Sampled: 09/16/04 11:55 ... Received: 09/16/04 14:00										
Total Alkalinity	39.7	4.96		mg/kg dry	1	4I30059	09/30/04	09/30/04	EPA 310.1 Mod.	
Ammonia-Nitrogen	ND	25.0		mg/kg as N dry	"	4I21034	09/21/04	09/21/04	EPA 350.3	
pH	6.03			pH Units	"	4I20046	09/17/04	09/17/04	EPA 9045C	
Sulfide	ND	94.4		mg/kg dry	"	4I21040	09/21/04	09/21/04	EPA 9030B	
091604-REMOTE-BACKGROUND (B4I0425-04) Soil ... Sampled: 09/16/04 12:20 ... Received: 09/16/04 14:00										
Total Alkalinity	105	4.98		mg/kg dry	1	4I30059	09/30/04	09/30/04	EPA 310.1 Mod.	
Ammonia-Nitrogen	ND	25.0		mg/kg as N dry	"	4I21034	09/21/04	09/21/04	EPA 350.3	
pH	6.23			pH Units	"	4I20046	09/17/04	09/17/04	EPA 9045C	
Sulfide	ND	97.8		mg/kg dry	"	4I21040	09/21/04	09/21/04	EPA 9030B	

Exhibit No. ____ (KCG-8)
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North Creek Analytical - Bothell

Jeff Gerdes

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Reported: 10/05/04 09:51
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**Conventional Chemistry by Standard Methods
 North Creek Analytical - Bothell**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							
091604-TRENCH-BASE (B4I0425-01) Soil . Sampled: 09/16/04 11:15. Received: 09/16/04 14:00									
Resistivity	4540		Ohms-cm	1	4117042	09/17/04	09/17/04	SM2510B	
091604-TRENCH-SIDE WALL (B4I0425-02) Soil . Sampled: 09/16/04 11:25. Received: 09/16/04 14:00									
Resistivity	6280		Ohms-cm	1	4117042	09/17/04	09/17/04	SM2510B	
091604-TRENCH-BACKGROUND (B4I0425-03) Soil . Sampled: 09/16/04 11:55. Received: 09/16/04 14:00									
Resistivity	13400		Ohms-cm	1	4117042	09/17/04	09/17/04	SM2510B	
091604-REMOTE-BACKGROUND (B4I0425-04) Soil . Sampled: 09/16/04 12:20. Received: 09/16/04 14:00									
Resistivity	4610		Ohms-cm	1	4117042	09/17/04	09/17/04	SM2510B	

Exhibit No. ___(KCG-8)
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North Creek Analytical - Bothell

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 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
091604-TRENCH-BASE (B4I0425-01) Soil ... Sampled: 09/16/04 11:15 ... Received: 09/16/04 14:00										
Bromide	ND	4.00		mg/kg dry	1	4I19003	09/18/04	09/18/04	EPA 300.0	
Chloride	20.8	4.00		"	"	"	"	"	"	
Fluoride	ND	2.00		"	"	4I20038	09/18/04	09/19/04	"	
Orthophosphate-phosphorus	ND	4.00		"	"	4I21042	"	09/20/04	"	Q-29
091604-TRENCH-SIDE WALL (B4I0425-02) Soil ... Sampled: 09/16/04 11:25 ... Received: 09/16/04 14:00										
Bromide	ND	4.00		mg/kg dry	1	4I19003	09/18/04	09/18/04	EPA 300.0	
Chloride	10.7	4.00		"	"	"	"	"	"	
Fluoride	ND	2.00		"	"	4I20038	09/18/04	09/19/04	"	
Orthophosphate-phosphorus	ND	4.00		"	"	4I21042	"	09/20/04	"	Q-29
091604-TRENCH-BACKGROUND (B4I0425-03) Soil ... Sampled: 09/16/04 11:55 ... Received: 09/16/04 14:00										
Bromide	ND	4.00		mg/kg dry	1	4I19003	09/18/04	09/18/04	EPA 300.0	
Chloride	7.07	4.00		"	"	"	"	"	"	
Fluoride	ND	2.00		"	"	4I20038	09/18/04	09/19/04	"	
Orthophosphate-phosphorus	ND	4.00		"	"	4I21042	"	09/20/04	"	Q-29
091604-REMOTE-BACKGROUND (B4I0425-04) Soil ... Sampled: 09/16/04 12:20 ... Received: 09/16/04 14:00										
Bromide	ND	4.00		mg/kg dry	1	4I19003	09/18/04	09/18/04	EPA 300.0	
Chloride	27.3	4.00		"	"	"	"	"	"	
Fluoride	4.31	2.00		"	"	4I20038	09/18/04	09/19/04	"	
Orthophosphate-phosphorus	ND	4.00		"	"	4I21042	"	09/20/04	"	Q-29

Exhibit No. ___(KCG-8)
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North Creek Analytical - Bothell

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Jeff Gerdes

Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Reported: 10/05/04 09:51
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**Physical Parameters by APHA/ASTM/EPA Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
091604-TRENCH-BASE (B4I0425-01) Soil ... Sampled: 09/16/04 11:15 ... Received: 09/16/04 14:00										
Dry Weight	85.0	1.00	%	1	4I20026	09/19/04	09/20/04	BSOPSPL003R08		
091604-TRENCH-SIDE WALL (B4I0425-02) Soil ... Sampled: 09/16/04 11:25 ... Received: 09/16/04 14:00										
Dry Weight	85.1	1.00	%	1	4I20026	09/19/04	09/20/04	BSOPSPL003R08		
091604-TRENCH-BACKGROUND (B4I0425-03) Soil ... Sampled: 09/16/04 11:55 ... Received: 09/16/04 14:00										
Dry Weight	88.9	1.00	%	1	4I17029	09/17/04	09/18/04	BSOPSPL003R08		
091604-REMOTE-BACKGROUND (B4I0425-04) Soil ... Sampled: 09/16/04 12:20 ... Received: 09/16/04 14:00										
Dry Weight	77.4	1.00	%	1	4I17029	09/17/04	09/18/04	BSOPSPL003R08		

Exhibit No. ___ (KCG-8)
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North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I20046: Prepared 09/17/04 Using General Preparation

Duplicate (4I20046-DUP1)

Source: B4I0425-01

pH	5.87		pH Units		5.79			1.37	10	
----	------	--	----------	--	------	--	--	------	----	--

Batch 4I21034: Prepared 09/21/04 Using General Preparation

Blank (4I21034-BLK1)

Ammonia-Nitrogen	ND	50.0	mg/kg as N							
------------------	----	------	------------	--	--	--	--	--	--	--

LCS (4I21034-BS1)

Ammonia-Nitrogen	494	50.0	mg/kg as N	500		98.8	75-125			
------------------	-----	------	------------	-----	--	------	--------	--	--	--

LCS Dup (4I21034-BSD1)

Ammonia-Nitrogen	496	50.0	mg/kg as N	500		99.2	75-125	0.404	25	
------------------	-----	------	------------	-----	--	------	--------	-------	----	--

Duplicate (4I21034-DUP1)

Source: B4I0425-01

Ammonia-Nitrogen	5.19	25.0	mg/kg as N dry		4.92			5.34	30	
------------------	------	------	----------------	--	------	--	--	------	----	--

Matrix Spike (4I21034-MS1)

Source: B4I0425-01

Ammonia-Nitrogen	282	25.0	mg/kg as N dry	297	4.92	93.3	33-168			
------------------	-----	------	----------------	-----	------	------	--------	--	--	--

Batch 4I21040: Prepared 09/21/04 Using General Preparation

Blank (4I21040-BLK1)

Sulfide	ND	99.9	mg/kg							
---------	----	------	-------	--	--	--	--	--	--	--

LCS (4I21040-BS1)

Sulfide	86.0	98.2	mg/kg	106		81.1	75-125			
---------	------	------	-------	-----	--	------	--------	--	--	--

Exhibit No. ___ (KCG-8)
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North Creek Analytical - Bothell

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Jeff Gerdes, Project Manager

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Reported: 10/05/04 09:51
---	--	-----------------------------

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4I21040: Prepared 09/21/04 Using General Preparation

LCS Dup (4I21040-BSD1)

Sulfide	87.3	99.6	mg/kg	107		81.6	75-125	1.50	25	
---------	------	------	-------	-----	--	------	--------	------	----	--

Duplicate (4I21040-DUP1)

Source: B4I0425-01

Sulfide	ND	97.5	mg/kg dry		ND			NA	30	
---------	----	------	-----------	--	----	--	--	----	----	--

Matrix Spike (4I21040-MS1)

Source: B4I0425-01

Sulfide	92.6	96.5	mg/kg dry	122	ND	75.9	20-120			
---------	------	------	-----------	-----	----	------	--------	--	--	--

Batch 4I30059: Prepared 09/30/04 Using General Preparation

Duplicate (4I30059-DUP1)

Source: B4I0425-01

Total Alkalinity	41.7	5.00	mg/kg dry		43.5			4.23	25	
------------------	------	------	-----------	--	------	--	--	------	----	--

Exhibit No. ___ (KCG-8)
Page 27 of 35

North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Conventional Chemistry by Standard Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I17042: Prepared 09/17/04 Using Water Extraction

Duplicate (4I17042-DUP1)

Source: B4I0375-01

Resistivity	8850		Ohms-cm		9410			6.13	30	
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Exhibit No. ___(KCG-8)
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North Creek Analytical - Bothell

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 425.420.9200 fax 425.420.9210
 Spokane 11922 E. 1st Avenue, Spokane Valley, WA 99206-5302
 509.924.9200 fax 509.924.9290
 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
 503.906.9200 fax 503.906.9210
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 541.383.9310 fax 541.382.7588
 Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
 907.563.9200 fax 907.563.9210

Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I19003: Prepared 09/18/04 Using General Preparation

Blank (4I19003-BLK1)

Bromide	ND	4.00	mg/kg							
Chloride	ND	4.00	"							

LCS (4I19003-BS1)

Bromide	39.2	4.00	mg/kg	40.0		98.0	90-110			
Chloride	19.5	4.00	"	20.0		97.5	90-110			

LCS Dup (4I19003-BSD1)

Bromide	38.8	4.00	mg/kg	40.0		97.0	90-110	1.03	25	
Chloride	18.9	4.00	"	20.0		94.5	90-110	3.13	10	

Duplicate (4I19003-DUP2)

Source: B4I0425-01

Bromide	ND	4.00	mg/kg dry		ND			NA	25	
de	22.7	4.00	"		20.8			8.74	25	

Matrix Spike (4I19003-MS2)

Source: B4I0425-01

Bromide	44.9	4.00	mg/kg dry	45.5	ND	98.7	75-125			
Chloride	45.4	4.00	"	22.7	20.8	108	62-157			

Batch 4I20038: Prepared 09/18/04 Using Water Extraction

Blank (4I20038-BLK1)

Fluoride	ND	2.00	mg/kg							
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LCS (4I20038-BS1)

Fluoride	8.43	2.00	mg/kg	8.00		105	90-110			
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Exhibit No. ___ (KCG-8)
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North Creek Analytical - Bothell

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Geo Engineers - Redmond
 8410 154th Ave NE
 Redmond, WA/USA 98052

Project: PSE-Bellevue Explosion Investigation Site
 Project Number: 0186-642-00
 Project Manager: Paul Craig

Reported:
 10/05/04 09:51

Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I20038: Prepared 09/18/04 Using Water Extraction

LCS Dup (4I20038-BSD1)

Fluoride	8.57	2.00	mg/kg	8.00		107	90-110	1.65	10	
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Duplicate (4I20038-DUP1)

Source: B4I0425-01

Fluoride	1.66	2.00	mg/kg dry		1.56			6.21	25	
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Matrix Spike (4I20038-MS1)

Source: B4I0425-01

Fluoride	3.04	2.00	mg/kg dry	9.10	1.56	16.3	75-125			Q-02
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Batch 4I21042: Prepared 09/18/04 Using Water Extraction

Blank (4I21042-BLK1)

Orthophosphate-phosphorus	ND	4.00	mg/kg							
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LCS (4I21042-BS1)

Orthophosphate-phosphorus	19.9	4.00	mg/kg	19.4		103	90-110			
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LCS Dup (4I21042-BSD1)

Orthophosphate-phosphorus	19.9	4.00	mg/kg	19.4		103	90-110	0.00	10	
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Duplicate (4I21042-DUP1)

Source: B4I0425-01

Orthophosphate-phosphorus	1.25	4.00	mg/kg dry		1.36			8.43	25	
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Matrix Spike (4I21042-MS1)

Source: B4I0425-01

Orthophosphate-phosphorus	1.96	4.00	mg/kg dry	22.1	1.36	2.71	64-117			Q-02
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Exhibit No. ___(KCG-8)
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North Creek Analytical - Bothell

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Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Reported: 10/05/04 09:51
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4I17029: Prepared 09/17/04 Using General Preparation

Blank (4I17029-BLK1)

Dry Weight	100	1.00	%							
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Batch 4I20026: Prepared 09/19/04 Using General Preparation

Blank (4I20026-BLK1)

Dry Weight	100	1.00	%							
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Exhibit No. ____ (KCG-8)
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Geo Engineers - Redmond 8410 154th Ave NE Redmond, WA/USA 98052	Project: PSE-Bellevue Explosion Investigation Site Project Number: 0186-642-00 Project Manager: Paul Craig	Reported: 10/05/04 09:51
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Notes and Definitions

- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-29 This sample was prepared outside of the method established holding time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Exhibit No. ___(KCG-8)
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North Creek Analytical - Bothell

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Jeff Gerdes

Jeff Gerdes, Project Manager

CHAIN OF CUSTODY RECORD

GEOENGINEERS, INC.
8410 154TH AVENUE N.E.
REDMOND, WASHINGTON 98052
(425) 861-6000



DATE _____ OF _____
 PAGE _____ OF _____
 LAB _____
 LAB NO. _____

PROJECT NAME/LOCATION SE - Bellevue Explosives Investigation Site
 PROJECT NUMBER 0186-642-00
 PROJECT MANAGER Paul Craig
 SAMPLED BY Robert Traben

LAB	SAMPLE IDENTIFICATION	SAMPLE COLLECTION		# OF JARS
		DATE	TIME	
	091601-TRENCH			
	BASE	9-16-04	1115	5
	091601-TRENCH			
	SIDE WALL	9-16-04	1125	5
	091601-TRENCH			
	BACKFILL	9-16-04	1155	5
	091601-BLIND			
	BACKFILL	9-16-04	1220	5

LAB	SAMPLE IDENTIFICATION	ANALYSIS REQUIRED										NOTES/COMMENTS (Preserved, filtered, etc.)		
		Chlorides	Sulfides	Fluorides	Phosphates	Soil Resistivity	Ammonia	STD TAT	Bromine	Sodium Hydroxide	Confirm		Moisture Content	Total Acidity/Alkalinity
	PH	X	X	X	X	X	X	X	X	X	X	X	X	
	BASE	X	X	X	X	X	X	X	X	X	X	X	X	
	SIDE WALL	X	X	X	X	X	X	X	X	X	X	X	X	
	BACKFILL	X	X	X	X	X	X	X	X	X	X	X	X	
	091601-BLIND	X	X	X	X	X	X	X	X	X	X	X	X	
	BACKFILL	X	X	X	X	X	X	X	X	X	X	X	X	

RELINQUISHED BY SIGNATURE <u>[Signature]</u>	RELINQUISHED BY SIGNATURE <u>[Signature]</u>	RELINQUISHED BY SIGNATURE <u>[Signature]</u>	RELINQUISHED BY SIGNATURE <u>[Signature]</u>
PRINTED NAME <u>Robert Traben</u>	PRINTED NAME <u>Paul Craig</u>	PRINTED NAME <u>Paul Craig</u>	PRINTED NAME <u>Paul Craig</u>
DATE <u>9-16-04</u> TIME <u>15:00</u>	DATE <u>9-16-04</u> TIME <u>14:00</u>	DATE _____ TIME _____	DATE _____ TIME _____
RECEIVED BY SIGNATURE _____	RECEIVED BY SIGNATURE _____	RECEIVED BY SIGNATURE _____	RECEIVED BY SIGNATURE _____
PRINTED NAME _____	PRINTED NAME _____	PRINTED NAME _____	PRINTED NAME _____
DATE _____ TIME _____	DATE _____ TIME _____	DATE _____ TIME _____	DATE _____ TIME _____

ADDITIONAL COMMENTS:

B410423

CHAIN OF CUSTODY RECORD
Revised Chain of Custody

GEOENGINEERS, INC.
8410 154TH AVENUE N.E.
REDMOND, WASHINGTON 98052
(425) 861-6000



DATE _____ OF _____
PAGE _____ OF _____
LAB _____ OF _____
LAB NO. _____

PROJECT NAME/LOCATION			Investigation Site										ANALYSIS REQUIRED		NOTES/COMMENTS
PROJECT NUMBER			PROJECT MANAGER										SAMPLER		(Preserved, filtered, etc.)
PROJECT MANAGER			SAMPLER										SAMPLER		
LAB	GEOENGINEERS	DATE	TIME	MATRIX	# OF JARS	Chlorides	Sulfides	Fluorides	Phosphates	Soil Resistivity	Ammonia	STD TAT	RECEIVED BY		
													SIGNATURE	DATE	
01	091601-TRENCH	9-16-04	1115	Soil	5	X	X	X	X	X	X	X			
02	091601-TRENCH	9-16-04	1125	Soil	5	X	X	X	X	X	X	X			
03	091604-TRENCH	9-16-04	1155	Soil	5	X	X	X	X	X	X	X			
04	091604-REMOTE	9-16-04	1230	Soil	5	X	X	X	X	X	X	X			

RECEIVED BY: [Signature] DATE: 9-16-04 TIME: 14:00 FIRM: [FIRM]

RECEIVED BY: [Signature] DATE: 9-16-04 TIME: 14:00 FIRM: [FIRM]

RECEIVED BY: [Signature] DATE: 9-16-04 TIME: 14:00 FIRM: [FIRM]

RECEIVED BY: [Signature] DATE: 9-16-04 TIME: 14:00 FIRM: [FIRM]

ADDITIONAL COMMENTS:

CHAIN OF CUSTODY RECORD

B4I0425

GEOENGINEERS, INC.

8410 154TH AVENUE N.E.

REDMOND, WASHINGTON 98052

(425) 861-6000

GeoEngineers

DATE

PAGE OF

LAB

LAB NO.

NOTES/COMMENTS
(Preserved, filtered, etc.)

PROJECT NAME/LOCATION		Investigation Site				ANALYSIS REQUIRED					NOTES/COMMENTS	
PROJECT NUMBER		SAMPLED BY				Chlorides	Sulfides	Fluorides	Phosphates	Soil Resistivity		Ammonia
PROJECT MANAGER		DATE		TIME		MATRIX		# OF JARS				
091604-TRENCH		9-16-04		1115		Soil		5				
BASE		9-16-04		1115		Soil		5				
091604-TRENCH		9-16-04		1125		Soil		5				
SIDEWALL		9-16-04		1125		Soil		5				
091604-TRENCH		9-16-04		1155		Soil		5				
BACKGROUND		9-16-04		1155		Soil		5				
091604-REMOTE		9-16-04		1220		Soil		5				
BACKGROUND		9-16-04		1220		Soil		5				

RELINQUISHED BY		RECEIVED BY	
SIGNATURE	FIRM	SIGNATURE	FIRM
[Signature]	GEI	[Signature]	GEI
PRINTED NAME	DATE	PRINTED NAME	DATE
Robert Trahan	9-16-04	Jenna Harkman	9-16-04
TIME	TIME	TIME	TIME
14:00	14:00	14:00	14:00

ADDITIONAL COMMENTS:

W/S 12.7