

Analytical and Quality Control Report

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Report Date: November 16, 2006

Work Order: 6092835



Project Name: HELSTF Phase III Soil Sampling
Project Number: 7

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
104611	HLSF-0085-SB-029 (0.5-1.0)	soil	2006-09-27	09:20	2006-09-28
104612	HLSF-0085-SB-030(0.5-1.0)	soil	2006-09-27	09:30	2006-09-28
104613	HLSF-0085-SB-031 (0.5-1.0)	soil	2006-09-27	09:40	2006-09-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 104611 - HLSF-0085-SB-029 (0.5-1.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	30485	Date Analyzed:	2006-09-28	Analyzed By:	KB
Prep Batch:	26553	Sample Preparation:	2006-09-28	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.21	mg/Kg	1	1.00	121	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	71.9 - 123.7

Sample: 104612 - HLSF-0085-SB-030(0.5-1.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	30485	Date Analyzed:	2006-09-28	Analyzed By:	KB
Prep Batch:	26553	Sample Preparation:	2006-09-28	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.05	mg/Kg	1	1.00	105	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	71.9 - 123.7

Sample: 104613 - HLSF-0085-SB-031 (0.5-1.0)

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	30485	Date Analyzed:	2006-09-28	Analyzed By:	KB
Prep Batch:	26553	Sample Preparation:	2006-09-28	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	68 - 129.6
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	71.9 - 123.7

Method Blank (1) QC Batch: 30485

QC Batch:	30485	Date Analyzed:	2006-09-28	Analyzed By:	KB
Prep Batch:	26553	QC Preparation:	2006-09-28	Prepared By:	KB

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Parameter	Flag	MDL Result	Units	RL
GRO		2.40	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	81.7 - 119
4-Bromofluorobenzene (4-BFB)		0.899	mg/Kg	1	1.00	90	60.1 - 102

Laboratory Control Spike (LCS-1)QC Batch: 30485
Prep Batch: 26553Date Analyzed: 2006-09-28
QC Preparation: 2006-09-28Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.94	mg/Kg	1	10.0	<0.121	99	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.33	mg/Kg	1	10.0	<0.121	93	80 - 120	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.01	0.961	mg/Kg	1	1.00	101	96	80 - 120
4-Bromofluorobenzene (4-BFB)	1.04	0.915	mg/Kg	1	1.00	104	92	80 - 120

Matrix Spike (MS-1) Spiked Sample: 104611QC Batch: 30485
Prep Batch: 26553Date Analyzed: 2006-09-28
QC Preparation: 2006-09-28Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.5	mg/Kg	1	10.0	<0.121	105	51.6 - 137

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	19.4	mg/Kg	1	20.0	<0.121	97	51.6 - 137	60	19.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.18	1.11	mg/Kg	1	1	118	111	50 - 133
4-Bromofluorobenzene (4-BFB)	1.28	1.43	mg/Kg	1	1	128	143	62.4 - 157

¹RPD outside normal limits because the MSD was double spiked with unleaded gas.

Standard (ICV-1)

QC Batch: 30485

Date Analyzed: 2006-09-28

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2006-09-28

Standard (CCV-1)

QC Batch: 30485

Date Analyzed: 2006-09-28

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.865	86	85 - 115	2006-09-28