

Summary Report

Tony Tucker
Range Operating New Mexico Inc.
P.O. Box 300
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Report Date: February 28, 2007

Work Order: 7022711



Project Location: Eddy County, NM
Project Name: Reid #1

30-015-26528

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

Sample - Field Code	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
117532 - Quad A	<0.0100	<0.0100	<0.0100	<0.0100		413	13.1
117533 - Quad B	<0.0100	<0.0100	<0.0100	<0.0100		232	2.39
117534 - Quad C	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
117535 - Quad D	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00

Sample: 117529 - North Wall

Param	Flag	Result	Units	RL
Chloride		1180	mg/Kg	5.00

Sample: 117530 - West Wall

Param	Flag	Result	Units	RL
Chloride		572	mg/Kg	5.00

Sample: 117531 - East Wall

Param	Flag	Result	Units	RL
Chloride		1330	mg/Kg	5.00

Sample: 117532 - Quad A

Param	Flag	Result	Units	RL
Chloride		959	mg/Kg	5.00

Sample: 117533 - Quad B

Param	Flag	Result	Units	RL
Chloride		628	mg/Kg	5.00

Sample: 117534 - Quad C

Param	Flag	Result	Units	RL
Chloride		971	mg/Kg	5.00

Sample: 117535 - Quad D

Param	Flag	Result	Units	RL
Chloride		719	mg/Kg	5.00



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Analytical and Quality Control Report

Tony Tucker
Range Operating New Mexico Inc.
P.O. Box 300
Loving, NM, 88256

Report Date: February 28, 2007

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Project Location: Eddy County, NM
Project Name: Reid #1
Project Number: Reid #1

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
117529	North Wall	soil	2007-02-23	15:15	2007-02-27
117530	West Wall	soil	2007-02-23	15:45	2007-02-27
117531	East Wall	soil	2007-02-23	15:35	2007-02-27
117532	Quad A	soil	2007-02-23	14:45	2007-02-27
117533	Quad B	soil	2007-02-23	14:50	2007-02-27
117534	Quad C	soil	2007-02-23	15:00	2007-02-27
117535	Quad D	soil	2007-02-23	15:10	2007-02-27

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 13 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: 117529 - North Wall

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1180	mg/Kg	20	5.00

Sample: 117530 - West Wall

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		572	mg/Kg	10	5.00

Sample: 117531 - East Wall

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1330	mg/Kg	20	5.00

Sample: 117532 - Quad A

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	35084	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.990	mg/Kg	1	1.00	99	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	48.7 - 146

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Sample: 117532 - Quad A

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		959	mg/Kg	10	5.00

Sample: 117532 - Quad A

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	35064	Date Analyzed:	2007-02-27	Analyzed By:	SP
Prep Batch:	30431	Sample Preparation:	2007-02-27	Prepared By:	SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		413	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		175	mg/Kg	1	150	117	62.5 - 164

Sample: 117532 - Quad A

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	35083	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		13.1	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.955	mg/Kg	1	1.00	96	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.26	mg/Kg	1	1.00	126	10 - 227

Sample: 117533 - Quad B

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	35084	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100

continued ...

sample 117533 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	48.7 - 146

Sample: 117533 - Quad B

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 35086 Date Analyzed: 2007-02-27 Analyzed By: JS
Prep Batch: 30448 Sample Preparation: 2007-02-27 Prepared By: SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		628	mg/Kg	10	5.00

Sample: 117533 - Quad B

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 35064 Date Analyzed: 2007-02-27 Analyzed By: SP
Prep Batch: 30431 Sample Preparation: 2007-02-27 Prepared By: SP

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		232	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		181	mg/Kg	1	150	121	62.5 - 164

Sample: 117533 - Quad B

Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5035
QC Batch: 35083 Date Analyzed: 2007-02-27 Analyzed By: KB
Prep Batch: 30441 Sample Preparation: 2007-02-27 Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.39	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.980	mg/Kg	1	1.00	98	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	10 - 227

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Sample: 117534 - Quad C

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	35084	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	48.7 - 146

Sample: 117534 - Quad C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL	Units	Dilution	RL
		Result			
Chloride		971	mg/Kg	10	5.00

Sample: 117534 - Quad C

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	35064	Date Analyzed:	2007-02-27	Analyzed By:	SP
Prep Batch:	30431	Sample Preparation:	2007-02-27	Prepared By:	SP

Parameter	Flag	RL	Units	Dilution	RL
		Result			
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		185	mg/Kg	1	150	123	62.5 - 164

Sample: 117534 - Quad C

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	35083	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

continued ...

sample 117534 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
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)		0.964	mg/Kg	1	1.00	96	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	10 - 227

Sample: 117535 - Quad D

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	35084	Date Analyzed:	2007-02-27	Analyzed By:	KB
Prep Batch:	30441	Sample Preparation:	2007-02-27	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.10	mg/Kg	1	1.00	110	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	48.7 - 146

Sample: 117535 - Quad D

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	35086	Date Analyzed:	2007-02-27	Analyzed By:	JS
Prep Batch:	30448	Sample Preparation:	2007-02-27	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		719	mg/Kg	10	5.00

Sample: 117535 - Quad D

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	35064	Date Analyzed:	2007-02-27	Analyzed By:	SP
Prep Batch:	30431	Sample Preparation:	2007-02-27	Prepared By:	SP

continued ...

sample 117535 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		173	mg/Kg	1	150	115	62.5 - 164

Sample: 117535 - Quad D

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 35083	Date Analyzed: 2007-02-27	Analyzed By: KB
Prep Batch: 30441	Sample Preparation: 2007-02-27	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)		1.06	mg/Kg	1	1.00	106	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227

Method Blank (1) QC Batch: 35064

QC Batch: 35064	Date Analyzed: 2007-02-27	Analyzed By: SP
Prep Batch: 30431	QC Preparation: 2007-02-27	Prepared By: SP

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	62.5 - 164

Method Blank (1) QC Batch: 35083

QC Batch: 35083	Date Analyzed: 2007-02-27	Analyzed By: KB
Prep Batch: 30441	QC Preparation: 2007-02-27	Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.121	mg/Kg	1

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.939	mg/Kg	1	1.00	94	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.715	mg/Kg	1	1.00	72	70.5 - 109

Method Blank (1) QC Batch: 35084

QC Batch: 35084
Prep Batch: 30441

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00159	mg/Kg	0.01
Toluene		<0.00220	mg/Kg	0.01
Ethylbenzene		<0.00201	mg/Kg	0.01
Xylene		<0.00176	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.949	mg/Kg	1	1.00	95	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.680	mg/Kg	1	1.00	68	54 - 102

Method Blank (1) QC Batch: 35086

QC Batch: 35086
Prep Batch: 30448

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: JS
Prepared By: JS

Parameter	Flag	MDL Result	Units	RL
Chloride		<3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch: 35064
Prep Batch: 30431

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: SP
Prepared By: SP

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	206	mg/Kg	1	250	<10.7	82	64.1 - 124

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
DRO	221	mg/Kg	1	250	<10.7	88	64.1 - 124	7	20

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

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control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	146	153	mg/Kg	1	150	97	102	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 35083
Prep Batch: 30441

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.17	mg/Kg	1	10.0	<0.121	92	79.6 - 113

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	9.47	mg/Kg	1	10.0	<0.121	95	79.6 - 113	3	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)	0.932	0.963	mg/Kg	1	1.00	93	96	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.879	0.914	mg/Kg	1	1.00	88	91	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 35084
Prep Batch: 30441

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.978	mg/Kg	1	1.00	<0.00159	98	76.3 - 117
Toluene	0.967	mg/Kg	1	1.00	<0.00220	97	77.3 - 114
Ethylbenzene	0.949	mg/Kg	1	1.00	<0.00201	95	75.4 - 115
Xylene	2.80	mg/Kg	1	3.00	<0.00176	93	73.2 - 112

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
Benzene	0.954	mg/Kg	1	1.00	<0.00159	95	76.3 - 117	2	20
Toluene	0.943	mg/Kg	1	1.00	<0.00220	94	77.3 - 114	2	20
Ethylbenzene	0.934	mg/Kg	1	1.00	<0.00201	93	75.4 - 115	2	20
Xylene	2.76	mg/Kg	1	3.00	<0.00176	92	73.2 - 112	1	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	0.993	mg/Kg	1	1.00	101	99	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.925	0.913	mg/Kg	1	1.00	92	91	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 35086
Prep Batch: 30448

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: JS
Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	105	mg/Kg	1	100	<3.25	105	90 - 110

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
Chloride	105	mg/Kg	1	100	<3.25	105	90 - 110	0	20

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

Matrix Spike (MS-1) Spiked Sample: 117533

QC Batch: 35064
Prep Batch: 30431

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: SP
Prepared By: SP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	392	mg/Kg	1	250	232	64	47.5 - 127

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
DRO	401	mg/Kg	1	250	232	68	47.5 - 127	2	20

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
n-Triacontane	167	166	mg/Kg	1	150	111	111	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 117535

QC Batch: 35083
Prep Batch: 30441

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.3	mg/Kg	1	10.0	<0.121	103	40.7 - 157

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	9.49	mg/Kg	1	10.0	<0.121	95	40.7 - 157	8	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)	0.930	0.864	mg/Kg	1	1	93	86	34.9 - 155
4-Bromofluorobenzene (4-BFB)	1.15	1.08	mg/Kg	1	1	115	108	58.5 - 153

Matrix Spike (MS-1) Spiked Sample: 117535

QC Batch: 35084
Prep Batch: 30441

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.978	mg/Kg	1	1.00	<0.00159	98	39.6 - 141
Toluene	1.02	mg/Kg	1	1.00	<0.00220	102	45.4 - 138
Ethylbenzene	1.11	mg/Kg	1	1.00	<0.00201	111	48 - 141
Xylene	3.32	mg/Kg	1	3.00	<0.00176	111	45.3 - 142

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
Benzene	0.933	mg/Kg	1	1.00	<0.00159	93	39.6 - 141	5	20
Toluene	0.979	mg/Kg	1	1.00	<0.00220	98	45.4 - 138	4	20
Ethylbenzene	1.06	mg/Kg	1	1.00	<0.00201	106	48 - 141	5	20
Xylene	3.17	mg/Kg	1	3.00	<0.00176	106	45.3 - 142	5	20

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)	1.05	1.02	mg/Kg	1	1	105	102	51.5 - 138
4-Bromofluorobenzene (4-BFB)	1.12	1.08	mg/Kg	1	1	112	108	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 117544

QC Batch: 35086
Prep Batch: 30448

Date Analyzed: 2007-02-27
QC Preparation: 2007-02-27

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 1970	mg/Kg	200	20000	<650	10	84.6 - 117

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

continued ...

¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 1770	mg/Kg	200	20000	<650	9	84.6 - 117	11	20

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

Standard (ICV-1)

QC Batch: 35064

Date Analyzed: 2007-02-27

Analyzed By: SP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	220	88	85 - 115	2007-02-27

Standard (CCV-1)

QC Batch: 35064

Date Analyzed: 2007-02-27

Analyzed By: SP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	228	91	85 - 115	2007-02-27

Standard (ICV-1)

QC Batch: 35083

Date Analyzed: 2007-02-27

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	1.00	100	85 - 115	2007-02-27

Standard (CCV-1)

QC Batch: 35083

Date Analyzed: 2007-02-27

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	0.913	91	85 - 115	2007-02-27

Standard (ICV-1)

QC Batch: 35084

Date Analyzed: 2007-02-27

Analyzed By: KB

²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0972	97	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0966	97	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2007-02-27

Standard (CCV-1)

QC Batch: 35084

Date Analyzed: 2007-02-27

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2007-02-27
Toluene		mg/Kg	0.100	0.0947	95	85 - 115	2007-02-27
Ethylbenzene		mg/Kg	0.100	0.0926	93	85 - 115	2007-02-27
Xylene		mg/Kg	0.300	0.275	92	85 - 115	2007-02-27

Standard (ICV-1)

QC Batch: 35086

Date Analyzed: 2007-02-27

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2007-02-27

Standard (CCV-1)

QC Batch: 35086

Date Analyzed: 2007-02-27

Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2007-02-27

