2R - 5/2

GENERAL CORRESPONDENCE

YEAR(S): 2005



CIL CONSELLATION DIVISION

The fall of the second **Summary Report**

Wayne Price

Report Date: April 5, 2005

OCD-Santa Fe

1220 S. Saint Francis Dr. Santa Fe, NM 87505

Work Order: 5032513

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name:

Way Farer State AIY #1

			Date	\mathbf{Time}	Date Received
Sample	Description	Matrix	Taken	Taken	Received
58204	Wayfarer 01	soil	2005-03-23	14:00	2005-03-25
58205	Wayfarer 02	soil	2005-03-23	14:10	2005-03-25
58206	Wayfarer 03	soil	2005-03-23	14:20	2005-03-25
58207	Wayfarer 04	soil	2005-03-23	15:05	2005-03-25

	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
58204 - Wayfarer 01	0.725	4.39	1.35	20.4		5960	320
58205 - Wayfarer 02	1.98	10.7	5.06	73.5		18000	797
58206 - Wayfarer 03	< 0.0100	< 0.0100	< 0.0100	0.0113		<50.0	9.68
58207 - Wayfarer 04	< 0.0100	1.90	1.01	1.68		1510	240

Sample: 58204 - Wayfarer 01

Param	Flag	Result	Units	RL
Chloride		21.1	mg/Kg	1.00

Sample: 58205 - Wayfarer 02

Param	Flag	Result	${f Units}$	RL
Chloride		11.9	mg/Kg	1.00

Sample: 58206 - Wayfarer 03

Param	Flag	Result	Units	RL
Chloride		36.9	mg/Kg	1.00

Sample: 58207 - Wayfarer 04

 $continued \dots$

Report Date: April 5, 2005

Work Order: 5032513

Way Farer State AIY #1

Page Number: 2 of 2

Sec 25-195-29E 990 FSI 666 FEL

 $sample~58207~continued~\dots$

Param	Flag	Result	<u>Units</u>	RL
Param	Flag	Result	Units	RL
Chloride		24.4	mg/Kg	1.00

E-Mail: lab@traceanalysis.com

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Analytical and Quality Control Report

Wayne Price

OCD-Santa Fe

1220 S. Saint Francis Dr.

Santa Fe, NM 87505

Report Date: April 5, 2005

Work Order:

5032513

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name: Project Number: Way Farer State AIY #1 Way Farer State AIY #1

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
58204	Wayfarer 01	soil	2005-03-23	14:00	2005-03-25
58205	Wayfarer 02	soil	2005-03-23	14:10	2005-03-25
58206	Wayfarer 03	soil	2005-03-23	14:20	2005-03-25
58207	Wayfarer 04	soil	2005-03-23	15:05	2005-03-25

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 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 2 of 11 Sec 25-195-29E 990 FSI 666 FEL

Analytical Report

Sample: 58204 - Wayfarer 01

Analysis: BTEX QC Batch: 17005 Prep Batch: 14987 Analytical Method: S 8021B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene	1	0.725	mg/Kg	50	0.00100
Toluene		4.39	mg/Kg	50	0.00100
Ethylbenzene		1.35	mg/Kg	50	0.00100
Xylene		20.4	mg/Kg	50	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	2	0.578	mg/Kg	50	0.0200	58	61.8 - 113
4-Bromofluorobenzene (4-BFB)	3	1.80	mg/Kg	50	0.0200	180	75.8 - 111

Sample: 58204 - Wayfarer 01

Analysis: Chloride (IC) QC Batch: 16943 Prep Batch: 14938 Analytical Method: E 300.0
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: N/A
Analyzed By: WB
Prepared By: WB

Sample: 58204 - Wayfarer 01

Analysis: TPH DRO QC Batch: 16966 Prep Batch: 14954 Analytical Method: Mod. 8015B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29

Prep Method: N/A Analyzed By: DS Prepared By: DS

 RL

 Parameter
 Flag
 Result
 Units
 Dilution
 RL

 DRO
 5960
 mg/Kg
 10
 50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	4	569	mg/Kg	10	15.0	379	57.5 - 139

Sample: 58204 - Wayfarer 01

Analysis: TPH GRO QC Batch: 17006 Prep Batch: 14987 Analytical Method: S 8015B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

¹Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

²Surrogate out due to peak interference.

³High surrogate recovery due to peak interference.

⁴High surrogate recovery due to peak interference.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 3 of 11 Sec 25-195-29E 990 FSI 666 FEL

_	_		RL		** *				
Parameter	F	lag	Result		Units	Di	lution		RL
GRO			320		mg/Kg		50		0.100
						Spike	Percent		overy
Surrogate		Fla		Units	Dilution	Amount	Recovery		mits
Trifluorotolu		5	11.0	mg/Kg	50	0.0200	1100		- 130
4-Bromofluo	robenzene (4-BF	(B) 6	9.42	mg/Kg	50	0.0200	942	70	- 130
		_							
Sample: 582	05 - Wayfarer (12							
Analysis:	BTEX		Analytical M		8021B		Prep Metl		5035
QC Batch:	17005		Date Analyz		005-03-30		Analyzed		1S
Prep Batch:	14987		Sample Prep	paration: 2	005-03-30		Prepared	Ву: В	L
			RL						
Parameter		Flag	Result		Units	Dilı	ıtion		RL
Benzene		7	1.98		mg/Kg		50		00100
Toluene			10.7		mg/Kg		50		00100
Ethylbenzene	е	_	5.06		mg/Kg		50		00100
Xylene		8	73.5		mg/Kg		50	0.0	00100
						Spike	Percent		overy
Surrogate		Fla		Units	Dilution	Amount	Recovery		mits
Trifluorotolu	, ,	9	1.20	mg/Kg	50	0.0200	120		- 113
4-Bromofluo	robenzene (4-BF	FB) 10	11.7	mg/Kg	50	0.0200	1170	75.8	- 111
Sample: 582	205 - Wayfarer (12							
_			A	ical Method	E 300.0		Prep M	lathad.	N/A
Analysis: QC Batch:	Chloride (IC) 16943			nalyzed:	2005-03-30		Analyz		WB
Prep Batch:	14938			naryzeu: Preparation			Prepare		WB
riep Baicii:	14936		Sample	e Freparation	1. 2003-03-30		riepan	eu by:	WD
			RL						
Parameter]	Flag	Result		Units	D	Dilution		RL
Chloride			11.9		mg/Kg		5		1.00
Sample: 587	05 - Wayfarer (12							
Analysis:	TPH DRO		Amalentia	al Mathadi	Mod. 8015B		Dran N	fethod:	N/A
QC Batch:	16966		Date Ana	al Method:	2005-03-29		-	zed By:	DS
Prep Batch:	14954			reparation:	2005-03-29		Prepar		DS
тер ваші.	,		Sample 1	reparation.	£00J-0J*27		терап	ca by.	υs
			RL						
Parameter		Flag	Result		Units		Dilution		RI
DRO			18000		mg/Kg		50		50.0

⁵High surrogate recovery due to peak interference.

⁶High surrogate recovery due to peak interference.

⁷Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

⁸Estimated concentration value greater than standard range.

⁹Surrogate out due to peak interference.

¹⁰Surrogate out due to peak interference.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 4 of 11 Sec 25-195-29E 990 FSI 666 FEL

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	11	699	mg/Kg	50	3.00	466	57.5 - 139

Sample: 58205 - Wayfarer 02

Analysis: TPH GRO QC Batch: 17006 Prep Batch: 14987 Analytical Method: S 8015B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL					
Parameter Flag	<u>;</u>	Result		Units	Di	lution	RL
GRO		797		mg/Kg		50	0.100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	12	43.8	mg/Kg	50	0.0200	4380	70 - 130
4-Bromoffuorobenzene (4-BFB)	13	10.8	mo/Ko	50	0.0200	1080	70 - 130

Sample: 58206 - Wayfarer 03

Analysis: BTEX QC Batch: 17005 Prep Batch: 14987 Analytical Method: S 8021B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	10	0.00100
Toluene		< 0.0100	mg/Kg	10	0.00100
Ethylbenzene		< 0.0100	mg/Kg	10	0.00100
Xylene		0.0113	mg/Kg	10	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.622	mg/Kg	10 ·	0.100	62	61.8 - 113
4-Bromofluorobenzene (4-BFB)		0.762	mg/Kg	10	0.100	76	75.8 - 111

Sample: 58206 - Wayfarer 03

Analysis: Chloride (IC) QC Batch: 16943 Prep Batch: 14938 Analytical Method: E 300.0
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: N/A Analyzed By: WB Prepared By: WB

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		36.9	mg/Kg	5	1.00

¹¹High surrogate recovery due to peak interference.

¹²High surrogate recovery due to peak interference.

¹³High surrogate recovery due to peak interference.

Work Order: 5032513 Way Farer State AIY #1

Page Number: 5 of 11 Sec 25-195-29E 990 FSI 666 FEL

Sample: 58206 - Wayfarer 03

TPH DRO Analysis: OC Batch: 16966 Prep Batch: .. 14954.

Analytical Method: Date Analyzed: Sample Preparation: 2005-03-29

Mod. 8015B 2005-03-29

Prep Method: N/A Analyzed By: DS Prepared By: DS

RL Parameter Flag Result DRO <50.0

Units Dilution RL 50.0 mg/Kg

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		167	mg/Kg	1	150	111	57.5 - 139

Sample: 58206 - Wayfarer 03

Analysis: **TPH GRO** QC Batch: 17006 Prep Batch: 14987

Parameter

GRO

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015B 2005-03-30 2005-03-30

S 5035 Prep Method: Analyzed By: MS

BL

Prepared By:

Flag

RL

Result Units Dilution RL9.68 mg/Kg 10 0.100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	14	2.21	mg/Kg	10	0.100	221	70 - 130
4-Bromofluorobenzene (4-BFB)	15	0.646	mg/Kg	10	0.100	65	70 - 130

Sample: 58207 - Wayfarer 04

Analysis: **BTEX** OC Batch: 17005 Prep Batch: 14987

Analytical Method: S 8021B Date Analyzed: Sample Preparation:

2005-03-30 2005-03-30 Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	10	0.00100
Toluene		1.90	mg/Kg	. 10	0.00100
Ethylbenzene		1.01	mg/Kg	10	0.00100
Xylene	16	1.68	mg/Kg	10	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	17	0.493	mg/Kg	10	0.100	49	61.8 - 113
4-Bromofluorobenzene (4-BFB)	18	3.07	mg/Kg	10	0.100	307	75.8 - 111

¹⁴High surrogate recovery due to peak interference.

¹⁵Bfb surrogate recovery outside normal limits due to matrix interference. •

¹⁶Estimated concentration value greater than standard range.

¹⁷Surrogate out due to peak interference.

¹⁸High surrogate recovery due to peak interference.

Report Date:	April	5, 2005
Way Farer St	ate AT	V #1

Work Order: 5032513 Way Farer State AIY #1 Page Number: 6 of 11 Sec 25-195-29E 990 FSI 666 FEL

Sample: 58	207 -	Wavfarer	04
------------	-------	----------	----

Analysis:	Chloride (IC)
QC Batch:	16943
Dran Ratch	1/038

Analytical Method: Date Analyzed: Sample Preparation:

E 300.0 2005-03-30 2005-03-30 Prep Method: N/A Analyzed By: WB Prepared By: WB

RL

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		24.4	mg/Kg	5	1.00

Sample: 58207 - Wayfarer 04

Analysis: TPH DRO QC Batch: 16966 Prep Batch: 14954 Analytical Method: Mod. 8015B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	Result	Units	Dilution	RL
DRO		1510	mg/Kg	1	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	19	254	mg/Kg	1	150	169	57.5 - 139

Sample: 58207 - Wayfarer 04

Analysis: TPH GRO QC Batch: 17006 Prep Batch: 14987 Analytical Method: S
Date Analyzed: 20
Sample Preparation: 20

S 8015B 2005-03-30 2005-03-30 Prep Method: S 5035 Analyzed By: MS Prepared By: BL

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		240	mg/Kg	10	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogaic	1 lag	Nesun	Onits	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	20	0.569	mg/Kg	10	0.100	57	70 - 130
4-Bromofluorobenzene (4-BFB)	21	7.91	mg/Kg	10	0.100	791	70 - 130

Matrix Blank (1) QC Batch: 16943

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		1.72	mg/Kg	1

Method Blank (1) QC Batch: 16966

¹⁹High surrogate recovery due to peak interference.

²⁰Surrogate out due to peak interference.

²¹High surrogate recovery due to peak interference.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 7 of 11 Sec 25-195-29E 990 FSI 666 FEL

Parameter		Flag		MDL Result	Ţ	RL		
DRO				10.5	n	mg/Kg		
C	F1	D16	T.T:4-	Dilada	Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane		170	mg/Kg	1	150	113	57.5 - 139	

Method Blank (1) QC Batch: 17005

		MDL		
Parameter	Flag	Result	Units	RL
Benzene		0.000900	mg/Kg	0.001
Toluene		0.00100	mg/Kg	0.001
Ethylbenzene		< 0.00235	mg/Kg	0.001
Xylene		< 0.00251	mg/Kg	0.001

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.979	mg/Kg	10	0.100	98	45.3 - 112
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	10	0.100	105	40.1 - 107

Method Blank (1) QC Batch: 17006

		MDL		
Parameter	Flag	Result	Units	RL
GRO		< 0.236	mg/Kg	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.929	mg/Kg	10	0.100	93	57.8 - 112
4-Bromofluorobenzene (4-BFB)		0.856	mg/Kg	10	0.100	86	33.4 - 131

Laboratory Control Spike (LCS-1) QC Batch: 16943

	LCS	LCSD	,		Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	13.3	13.2	mg/Kg	1	12.5	1.72	93	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16966

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	255	250	mg/Kg	1	250	< 5.35	102	2	84 - 118	20

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

Work Order: 5032513 Way Farer State AIY #1 Page Number: 8 of 11 Sec 25-195-29E 990 FSI 666 FEL

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	161	161	mg/Kg	1	150	107	108	57.5 - 139

Laboratory Control Spike (LCS-1) QC Batch: 17005

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Benzene	1.03	1.01	mg/Kg	10	0.100	< 0.000690	103	2	74.8 - 116	20
Toluene	0.976	0.963	mg/Kg	10	0.100	< 0.00100	98	1	78.9 - 112	20
Ethylbenzene	1.04	1.03	mg/Kg	10	0.100	< 0.00235	104	1	77.6 - 114	20
Xylene	3.00	2.96	mg/Kg	10	0.300	< 0.00251	100	1	81.1 - 113	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.710	0.992	mg/Kg	10	0.100	71	99	61.8 - 113
4-Bromofluorobenzene (4-BFB)	0.859	0.994	mg/Kg	10	0.100	86	99	75.8 - 111

Laboratory Control Spike (LCS-1) QC Batch: 17006

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	10.1	9.44	mg/Kg	10	1.00	< 0.236	101	7	79 - 111	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.748	0.990	mg/Kg	10	0.100	75	99	68.1 - 115
4-Bromofluorobenzene (4-BFB)	0.919	0.827	mg/Kg	10	0.100	92	83	68.7 - 130

Matrix Spike (MS-1) QC Batch: 16943 Spiked Sample: 57571

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	85.4	85.3	mg/Kg	5	12.5	24.4	98	0	60.9 - 143	20

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

Matrix Spike (MS-1) QC Batch: 16966 Spiked Sample: 58207

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	2223	1540	1630	mg/Kg	1	250	1510	12	6	70 - 130	20

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

²²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

MS

MSD

Work Order: 5032513 Way Farer State AIY #1

Spike

MS

Page Number: 9 of 11 Sec 25-195-29E 990 FSI 666 FEL

Rec.

MSD

Matrix Spike (MS-1) QC Batch: 17006 Spiked Sample: 57979	Surrogate		Result	Result	Units	Dil.	Amo	unt	Rec.	Rec.	Limit
MS	n-Triacontan	ie ²⁴²⁵	212	219	mg/K	g 1	15	150		146	57.5 - 139
MS											
Param	Matrix Spik	ke (MS-1)	QC Batch: 1700	06 Spiked	Sample:	57979					
16.3 17.5 mg/Kg 10 1.00 <0.236 163 7 0 - 277 20						-					
No.	Param										Limit
MS MSD Result Result Units Dil. Amount Rec. Rec. Limit Firfluorotoluene (TFT) 2627 0.408 0.433 mg/Kg 10 0.1 41 43 62 - 114 43 62 - 114 44 43 62 - 114 44 43 62 - 114 44 43 62 - 114 44 43 62 - 114 44 45 62 - 114 44 64 64 64 64 64 64										0 - 277	20
	Percent reco	very is based o	on the spike resu	ılt. RPD is ba	sed on the	e spike and s	oike duplic	ate result.			
CCVs CCVs CCVs Percent Recovery Date Param Flag Units Conc. Conc. Conc. Recovery Limits Analyzed Chloride mg/Kg 12.5 12.0 96 90 - 110 2005-03-30	Carma mata					T T :4	D.II	-			
CCVs CCVs CCVs Percent Recovery Date Date		one (TET)	2627	***							
CCVs CCVs											
CVs											
CVs	Standard (I	CV 1) OC	Datah, 16042								
Param Flag Units Conc. Conc. Recovery Limits Analyzed	Standard (1	CV-I) QC	Batch: 10943								
CCVs						ICVs					
CCVs	_									•	
CCVs		Flag									
CCVs	Chloride		mg/Kg	12.5		11.5	92		90 - 11	<u>, </u>	2005-03-30
CCVs											
True	Standard (C	CCV-1) QC	C Batch: 16943								
True				CCV	2	CCVs	CC	Je	Percen	;	
Caram Flag Units Conc. Conc. Recovery Limits Analyzed											Date
Chloride mg/Kg 12.5 12.0 96 90 - 110 2005-03-30	Param	Flag	Units							•	
ICVs ICVs Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed DRO mg/Kg 250 244 97 57.5 - 139 2005-03-29 CCVs CCVs CCVs Percent True Found Percent Recovery Limits Analyzed DRO True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed DRO mg/Kg 250 270 108 57.5 - 139 2005-03-29	Chloride							-			2005-03-30
ICVs ICVs Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed DRO mg/Kg 250 244 97 57.5 - 139 2005-03-29 CCVs CCVs CCVs Percent True Found Percent Recovery Limits Analyzed DRO True Found Percent Recovery Date Param Flag Units Conc. Conc. Recovery Limits Analyzed DRO mg/Kg 250 270 108 57.5 - 139 2005-03-29		•									
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 ²⁴High surrogate recovery due to peak interference.
 25High surrogate recovery due to peak interference.
 26Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.
 27Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 10 of 11 Sec 25-195-29E 990 FSI 666 FEL

Star	dard	(ICV-	1)
Dial	iuaiu	1101-	I 1

QC Batch: 17005

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2005-03-30
Toluene		mg/Kg	0.100	0.100	100	85 - 115	2005-03-30
Ethylbenzene		mg/Kg	0.100	0.102	102	85 - 115	2005-03-30
Xylene		mg/Kg	0.300	0.296	99	85 - 115	2005-03-30

Standard (CCV-1)

QC Batch: 17005

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene	***************************************	mg/Kg	0.100	0.0999	100	85 - 115	2005-03-30
Toluene		mg/Kg	0.100	0.0988	99	85 - 115	2005-03-30
Ethylbenzene	•	mg/Kg	0.100	0.100	100	85 - 115	2005-03-30
Xylene		mg/Kg	0.300	0.288	96	85 - 115	2005-03-30

Standard (ICV-1)

QC Batch: 17006

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	1.02	102	85 - 115	2005-03-30

Standard (CCV-1)

QC Batch: 17006

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	1.01	101	85 - 115	2005-03-30

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Work Order: 5032513 Way Farer State AIY #1

Page Number: 1 of 1 Sec 25-195-29E 990 FSl 666 FEL

Summary Report

Wayne Price OCD-Santa Fe Report Date: April 5, 2005

1220 S. Saint Francis Dr.

Work Order: 5032513

Santa Fe, NM 87505

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name:

Way Farer State AIY #1

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	Received
58208	Wayfarer 05	water	2005-03-23	14:50	2005-03-25
58209	Wayfarer 06 (Windmill)	water	2005-03-23	14:50	2005-03-25

		MTBE			
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
Sample - Field Code	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
58208 - Wayfarer 05	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100

Sample: 58209 - Wayfarer 06 (Windmill)

Param	Flag	Result	${f Units}$	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1.00
Carbonate Alkalinity		< 1.00	mg/L as $CaCo3$	1.00
Bicarbonate Alkalinity		182	mg/L as CaCo3	4.00
Total Alkalinity		182	mg/L as $CaCo3$	4.00
Specific Conductance		3060	$\mu { m MHOS/cm}$	0.00
Chloride		193	$_{ m mg/L}$	0.500
Fluoride		2.13	m mg/L	0.200
Sulfate		1550	$\mathrm{mg/L}$	0.500
Nitrate-N		20.7	$_{ m mg/L}$	0.200
pH		7.39	s.u.	0.00
Dissolved Calcium		613	$_{ m mg/L}$	0.500
Dissolved Magnesium		46.9	$\mathrm{mg/L}$	0.500
Dissolved Potassium		6.56	$_{ m mg/L}$	0.500
Dissolved Sodium		98.4	mg/L	0.500
Total Dissolved Solids		2820	$_{ m mg/L}$	10.00

E-Mail: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 155 McCutcheon, Suite H

Lubbock, Texas 79424 El Paso. Texas 79932

888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

Analytical and Quality Control Report

Wayne Price OCD-Santa Fe 1220 S. Saint Francis Dr. Santa Fe, NM 87505

Report Date: April 5, 2005

Work Order:

5032513

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name: Project Number: Way Farer State AIY #1 Way Farer State AIY #1

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

			Date	lime	Date
Sample	Description	Matrix	Taken	Taken	Received
58208	Wayfarer 05	water	2005-03-23	14:50	2005-03-25
58209	Wayfarer 06 (Windmill)	water	2005-03-23	14:50	2005-03-25

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 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Work Order: 5032513 Way Farer State AIY #1

Page Number: 2 of 11 Sec 25-195-29E 990 FSI 666 FEL

Analytical Report

Sample: 58208 - Wayfarer 05

Analysis: **BTEX** OC Batch: 16917 Prep Batch: 14912

Analytical Method: Date Analyzed: Sample Preparation: S 8021B 2005-03-26 2005-03-26 Prep Method: S 5030B Analyzed By: JG Prepared By:

RL

Parameter	Flag	Result	Units	Dilution	RL
MTBE		< 0.00100	mg/L	1	0.00100
Benzene		< 0.00100	mg/L	1	0.00100
Toluene		< 0.00100	mg/L	1	0.00100
Ethylbenzene		< 0.00100	mg/L	1	0.00100
Xylene		< 0.00100	mg/L	1	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.0886	mg/L	1	0.100	89	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0749	mg/L	1	0.100	75	52.4 - 119

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Alkalinity QC Batch: 16972 Prep Batch: 14959

Analytical Method: SM 2320B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29 Prep Method: N/A Analyzed By: RS Prepared By: RS

RL Parameter Units Dilution RLFlag Result Hydroxide Alkalinity mg/L as CaCo3 <1.00 1.00 Carbonate Alkalinity < 1.00 mg/L as CaCo3 1 1.00 Bicarbonate Alkalinity mg/L as CaCo3 4.00 182 1 Total Alkalinity 182 mg/L as CaCo3 1 4.00

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Conductivity QC Batch: 16971 Prep Batch: 14960

Analytical Method: SM 2510B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29

Prep Method: N/A Analyzed By: RS Prepared By: RS

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		3060	μMHOS/cm	1	0.00

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Ion Chromatography QC Batch: 16960 Prep Batch: 14940

Analytical Method: E 300.0 2005-03-25 Date Analyzed: Sample Preparation: 2005-03-25

Prep Method: N/A Analyzed By: RS Prepared By: WB

Work Order: 5032513 Way Farer State AIY #1 Page Number: 3 of 11 Sec 25-195-29E 990 FSI 666 FEL

continued ...

			RL			
Parameter	Flag	R	Lesult	Units	Dilution	RI
Chloride			193	mg/L	5	0.500
Fluoride			2.13	mg/L	5	0.200
Sulfate			1550	mg/L	50	0.500
Sample: 582	09 - Wayfarer 06 (Wi	ndmill)				
Analysis:	NO3 (IC)	A	nalytical Method:	E 300.0	Prep M	fethod: N/A
QC Batch:	16960		ate Analyzed:	2005-03-25	Analyz	
Prep Batch:	14940		ample Preparation		Prepare	•
			RL			
Parameter	Flag	F	Result	Units	Dilution	RI
Nitrate-N			20.7	mg/L	5	0.200
Sample: 582	09 - Wayfarer 06 (Wi	ndmill)				,
Analysis:	pН	Ana	alytical Method:	SM 4500-H+	Prep M	lethod: N/A
QC Batch:	16934 ^a	Dat	e Analyzed:	2005-03-25	Analyz	zed By: RS
Prep Batch:	14925	San	nple Preparation:	2005-03-25	Prepare	ed By: RS
^a sample run	in laboratory		-			
			RL			
Parameter	Flag_		Result	Units	Dilution	RI
pН			7.39	s.u.	1	0.00
Sample: 582	109 - Wayfarer 06 (Wi	ndmill)				
-		·	Analytical Method	l: S 6010B	Prep Metho	od: S 3005 <i>A</i>
Analysis:	Salts, Dissolved		Analytical Method Date Analyzed:		Prep Metho Analyzed F	
Analysis: QC Batch:		, I	Analytical Method Date Analyzed: Sample Preparatio	2005-04-04	Prep Metho Analyzed F Prepared B	By: TP
Analysis: QC Batch:	Salts, Dissolved 17087	, I	Date Analyzed:	2005-04-04	Analyzed I	By: TP
Analysis: QC Batch: Prep Batch:	Salts, Dissolved 17087 14955	, I	Date Analyzed: Sample Preparation	2005-04-04	Analyzed I	By: TP y: DS
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca	Salts, Dissolved 17087 14955	I S	Oate Analyzed: Sample Preparation RL Result 613	2005-04-04 n: 2005-03-29 Units mg/L	Analyzed F Prepared B	By: TP y: DS RI 0.500
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M	Salts, Dissolved 17087 14955	I S	Date Analyzed: Sample Preparation RL Result 613 46.9	2005-04-04 n: 2005-03-29 Units mg/L mg/L	Analyzed F Prepared B Dilution	By: TP y: DS RI 0.500 0.500
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M Dissolved Po	Salts, Dissolved 17087 14955 Alcium agnesium stassium	I S	Date Analyzed: Sample Preparation RL Result 613 46.9 6.56	2005-04-04 n: 2005-03-29 Units mg/L mg/L mg/L	Analyzed F Prepared B Dilution 10 1	By: TP y: DS RI 0.500 0.500 0.500
Sample: 582 Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M Dissolved So	Salts, Dissolved 17087 14955 Alcium agnesium stassium	I S	Date Analyzed: Sample Preparation RL Result 613 46.9	2005-04-04 n: 2005-03-29 Units mg/L mg/L	Analyzed F Prepared B Dilution 10 1	By: TP y: DS RI 0.500 0.500 0.500
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M Dissolved Po Dissolved So	Salts, Dissolved 17087 14955 Alcium agnesium stassium	Flag	Date Analyzed: Sample Preparation RL Result 613 46.9 6.56	2005-04-04 n: 2005-03-29 Units mg/L mg/L mg/L	Analyzed F Prepared B Dilution 10 1	By: TP y: DS RI 0.500 0.500 0.500
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M Dissolved So Dissolved So	Salts, Dissolved 17087 14955 Ilcium agnesium stassium dium	Flag ndmill)	Oate Analyzed: Sample Preparation RL Result 613 46.9 6.56 98.4	2005-04-04 n: 2005-03-29 Units mg/L mg/L mg/L	Analyzed F Prepared B Dilution 10 1 1	By: TP y: DS RI 0.500 0.500 0.500
Analysis: QC Batch: Prep Batch: Parameter Dissolved Ca Dissolved M Dissolved Po Dissolved So	Salts, Dissolved 17087 14955 Ilcium agnesium otassium edium	Flag ndmill)	Date Analyzed: Sample Preparation RL Result 613 46.9 6.56	2005-04-04 n: 2005-03-29 Units mg/L mg/L mg/L mg/L mg/L	Analyzed F Prepared B Dilution 10 1 1 1	By: TP y: DS RI 0.500 0.500

Work Order: 5032513 Way Farer State AIY #1 Page Number: 4 of 11 Sec 25-195-29E 990 FSI 666 FEL

sample	58209	continued	٠.		
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		RL			
Parameter	Flag	Result	Units	Dilution	RL_
		RL		•	
Parameter	Flag	Result	Units	Dilution	RL
Total Dissolved Solids		2820	mg/L	2	10.00

Method Blank (1) QC Batch: 16917

		MDL				
Parameter	Flag	Result	Units	RL		
MTBE		< 0.000232	mg/L	0.001		
Benzene		< 0.000136	mg/L	0.001		
Toluene		< 0.000247	mg/L	0.001		
Ethylbenzene		< 0.000552	mg/L	0.001		
Xylene		< 0.00156	mg/L	0.001		

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.0912	mg/L	1	0.100	91	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0792	mg/L	1	0.100	79	52.4 - 113

Method Blank (1) QC Batch: 16929

		MDL		
Parameter	Flag	Result	Units	RL
Total Dissolved Solids		< 5.000	mg/L	10

Method Blank (1) QC Batch: 16960

	•	MDL		
Parameter	Flag	Result	Units	RL
Nitrate-N		< 0.0217	mg/L	0.2

Method Blank (1) QC Batch: 16960

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		< 0.337	mg/L	0.5
Fluoride		< 0.0594	mg/L	0.2
Sulfate		< 0.409	mg/L	0.5

Method Blank (1) QC Batch: 16971

Work Order: 5032513 Way Farer State AIY #1 Page Number: 5 of 11 Sec 25-195-29E 990 FSI 666 FEL

		MDL		
Parameter	Flag	Result	Units	RL
Specific Conductance		1.43	μMHOS/cm	

Method Blank (1) QC Batch: 16972

		MDL		
Parameter	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 17087

		MDL		
Parameter	Flag	Result	Units	RL
Dissolved Calcium		< 0.102	mg/L	0.5
Dissolved Magnesium		< 0.110	mg/L	0.5
Dissolved Potassium		< 0.0454	mg/L	0.5
Dissolved Sodium		< 0.0114	mg/L	0.5

Duplicate (1) QC Batch: 16929

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Total Dissolved Solids	6310	6780	mg/L	5	7	14.9

Duplicate (1) QC Batch: 16934

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
pН	7.71	7.72	s.u.	1	0	0.4

Duplicate (1) QC Batch: 16971

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Specific Conductance	48500	49300	μMHOS/cm	1	2	2.4

Duplicate (1) QC Batch: 16972

Work Order: 5032513 Way Farer State AIY #1 Page Number: 6 of 11 Sec 25-195-29E 990 FSI 666 FEL

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	168	162	mg/L as CaCo3	1	4	20
Total Alkalinity	168	162	mg/L as CaCo3	1	4	4.6

Laboratory Control Spike (LCS-1) QC Batch: 16917

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
MTBE	0.0911	0.0866	mg/L	1	0.100	< 0.000232	91	5	66.7 - 119	9.7
Benzene	0.0880	0.0848	mg/L	1	0.100	< 0.000136	88	4	72.8 - 113	20
Toluene	0.0855	0.0826	mg/L	1	0.100	< 0.000247	86	3	75.2 - 112	20
Ethylbenzene	0.0908	0.0876	mg/L	1	0.100	< 0.000550	91	4	81 - 112	20
Xylene	0.293	0.283	mg/L	1	0.300	< 0.00156	98	3	82.9 - 119	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0951	0.0937	mg/L	1	0.100	95	94	72.9 - 121
4-Bromofluorobenzene (4-BFB)	0.106	0.103	mg/L	1	0.100	106	103	77.8 - 119

Laboratory Control Spike (LCS-1) QC Batch: 16960

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Nitrate-N	2.41	2.38	mg/L	1	2.50	< 0.0217	96	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16960

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	11.8	11.8	mg/L	1	12.5	< 0.337	94	0	90 - 110	20
Fluoride	2.36	2.40	mg/L	1	2.50	< 0.0594	94	2	90 - 110	20
Sulfate	12.0	12.3	mg/L	1	12.5	< 0.409	96	2	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17087

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
Dissolved Calcium	46.9	45.8	mg/L	1	50.0	< 0.102	94	2	85 - 115	20
Dissolved Magnesium	45.3	43.8	mg/L	1	50.0	< 0.110	91	3	85 - 115	20
Dissolved Potassium	47.0	46.0	mg/L	1	50.0	< 0.0454	94	2	85 - 115	20
Dissolved Sodium	47.5	47.4	mg/L	1	50.0	< 0.0114	95	0	85 - 115	20

Work Order: 5032513 Way Farer State AIY #1 Page Number: 7 of 11 Sec 25-195-29E 990 FSI 666 FEL

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

Matrix Spike (MS-1)

QC Batch: 16960

Spiked Sample: 58225

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Nitrate-N	12900	13000	mg/L	5000	2.50	<108	103	1	78.8 - 116	20

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

Matrix Spike (MS-1)

QC Batch: 16960

Spiked Sample: 58225

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	104000	102000	mg/L	5000	12.5	43300	97	2	70.7 - 124	20
Fluoride	12200	11900	mg/L	5000	2.50	<297	98	2	70.9 - 126	20
Sulfate	73800	75300	mg/L	5000	12.5	15200	94	2	82.5 - 123	20

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

Matrix Spike (MS-1)

QC Batch: 17087

Spiked Sample: 58168

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium		527	542	mg/L	1	50.0	481	92	3	75 - 125	20
Dissolved Magnesium	1	527	539	mg/L	1	50.0	492	70	2	75 - 125	20
Dissolved Potassium		175	172	mg/L	1	50.0	129	92	2	75 - 125	20
Dissolved Sodium	2	1820	1850	mg/L	1	50.0	1810	20	2	75 - 125	20

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

Standard (CCV-1) QC Batch: 16917

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
MTBE		mg/L	0.100	0.0877	88	85 - 115	2005-03-26
Benzene		mg/L	0.100	0.0883	88	85 - 115	2005-03-26
Toluene		mg/L	0.100	0.0850	85	85 - 115	2005-03-26
Ethylbenzene		mg/L	0.100	0.0903	90	85 - 115	2005-03-26
Xylene		mg/L	0.300	0.286	95	85 - 115	2005-03-26

Standard (CCV-2) QC Batch: 16917

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
MTBE		mg/L	0.100	0.0880	88	85 - 115	2005-03-26

continued . .

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 8 of 11 Sec 25-195-29E 990 FSI 666 FEL

standard continued	•			CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Units		Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/L		0.100	0.0860	86	85 - 115	2005-03-26
Toluene	3	mg/L		0.100	0.0840	84	85 - 115	2005-03-26
Ethylbenzene		mg/L		0.100	0.0890	89	85 - 115	2005-03-26
Xylene		mg/L		0.300	0.289	96	85 - 115	2005-03-26
Standard (ICV-1)	QC Batc	h: 16929						·
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	lag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolved Solid	ls		mg/L	1000	994.0	99	90 - 110	2005-03-28
Standard (CCV-1)	QC Bat	ch: 16929						
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	F	lag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolved Solid			mg/L	1000	1055	106	90 - 110	2005-03-28
Standard (ICV-1)	QC Batc	h: 16934	IC\	/e	ICVs	ICVs	Percent	
			Tru		Found	Percent	Recovery	Date
Param Flag	g	Units	Cor		Conc.	Recovery	Limits	Analyzed
рН		s.u.	7.0	0	7.02	100	98 - 102	2005-03-25
Standard (CCV-1)	QC Bat	ch: 16934						
			CC		CCVs	CCVs	Percent	- .
Dosons E1.	_	Timite	Tru		Found	Percent	Recovery	Date
Param Flag	<u> </u>	Units	Cor		Conc.	Recovery	Limits	Analyzed
pН		s.u.	7.0	10	6.99	100	98 - 102	2005-03-25
Standard (ICV-1)	QC Batc	h: 16960						
			10	CVs	ICVs	ICVs	Percent	
			T	rue	Found	Percent	Recovery	Date
	lag	Units		onc.	Conc.	Recovery	Limits	Analyzed
Nitrate-N		mg/L	2	.50	2.35	94	90 - 110	2005-03-25

Standard (ICV-1) QC Batch: 16960

³Toluene outside of control limits on CCV(ICV). CCV(ICV) component average is 89 which is within acceptable range. This is acceptable by Method 8000.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 9 of 11 Sec 25-195-29E 990 FSI 666 FEL

ICVs ICVs Percent **ICVs** Percent Recovery Date True Found Limits Analyzed Param Flag Units Conc. Conc. Recovery 2005-03-25 Chloride mg/L 12.5 11.6 93 90 - 110 Fluoride mg/L 2.50 2.37 95 90 - 110 2005-03-25 Sulfate mg/L 12.5 11.7 94 90 - 110 2005-03-25

	Standard ((CCV-1)	QC Batch:	16960
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•			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Nitrate-N		mg/L	2.50	2.40	96	90 - 110	2005-03-25

Standard (CCV-1) QC Batch: 16960

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	11.8	94	90 - 110	2005-03-25
Fluoride		mg/L	2.50	2.44	98	90 - 110	2005-03-25
Sulfate		mg/L	12.5	12.3	98	90 - 110	2005-03-25

Standard (ICV-1) QC Batch: 16971

			ICVs	ICVs	ICVs	Percent	•
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Conductance		μMHOS/cm	1410	1420	101	90 - 110	2005-03-29

Standard (CCV-1) QC Batch: 16971

			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Conductance		μMHOS/cm	1410	1390	98	90 - 110	2005-03-29

Standard (ICV-1) QC Batch: 16972

			ICVs	ICVs	ICVs	Percent	_
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Alkalinity		mg/L as CaCo3	250	240	96	90 - 110	2005-03-29

Standard (CCV-1) QC Batch: 16972

Work Order: 5032513 Way Farer State AIY #1 Page Number: 10 of 11 Sec 25-195-29E 990 FSI 666 FEL

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2005-03-29

Standard (ICV-1) QC Batch: 17087

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.6	99	90 - 110	2005-04-04
Dissolved Magnesium		mg/L	50.0	49.0	98	90 - 110	2005-04-04
Dissolved Potassium		mg/L	50.0	48.6	97	90 - 110	2005-04-04
Dissolved Sodium		mg/L	50.0	49.5	99	90 - 110	2005-04-04

Standard (CCV-1) QC Batch: 17087

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	52.3	105	90 - 110	2005-04-04
Dissolved Magnesium		mg/L	50.0	52.2	104	90 - 110	2005-04-04
Dissolved Potassium		mg/L	50.0	53.8	108	90 - 110	2005-04-04
Dissolved Sodium		mg/L	50.0	54.6	109	90 - 110	2005-04-04

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South St Fithucis InnomA\amuloV # CONTAINERS 2 39E 10.00 FR O (WINDOWEL) Time: Time: Time; Invoice to: (If different from above) ED MARTIN WAYNE PITICE SE 25 -195-PARTITION OF FIELD CODE 0 2 59/68 50 9 0 Date: 206 WATFARER 208 WAY FARER 209 Wmy Hancer 205 WATFALER 900 BOT LAY FAR 6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424 Tel (808) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 ENTRARE. Company Name: Refinquished by: Project Location: Relinquished by Contact Person: Relinquished by NAYIN 58204 LAB USE) Project #: LAB# Address:

PION

Price. Wavne

From:

Price, Wayne

Sent:

Wednesday, April 06, 2005 2:27 PM

To:

Gum, Tim; Barton, Van; Bratcher, Mike

Cc:

Sanchez, Daniel; MacQuesten, Gail; VonGonten, Glenn; Anderson, Roger

Subject:

Yates Wayfarer -March 23, 2005 2R0054 (RBDMS)

Please find enclosed a copy of the laboratory results, sketch of site, inspection report with photos including recommendations.







Report_Packet_1.p

sketch.bmp

Wayfarer #1 Marc...

Findings and Conclusion:

The soils collected from the bottom of the excavated area (Wayfarer 01) and ramp area (Wayfarer 02) show moderate to high concentrations of hydrocarbons that exceed OCD guidance levels.

Wf 01 Gasoline Range Organics (GRO) i.e. condensate 320 mg/kg + Diesel Range Organics (DRO) 5960

mg/kg

Wf 02 Gasoline Range Organics (GRO) i.e. condensate 797 mg/kg + Diesel Range Organics (DRO) 18000 mg/kg

The Wf 01 sample had a benzene concentration of .177 mg/kg which exceeds the groundwater standard (.01 mg/kg) by 17 times and the 02 sample had a benzene concentration of 1.98 mg/kg which exceeds the groundwater standard by 198 times. Benzene is the most mobile of all of the hydrocarbon components observed and is highly toxic.

The middle of the playa lake bed was sampled Wf 03 and the results showed a trace of GRO hydrocarbons 9.68 mg/kg, no DRO and a very small trace of xylene .0113 mg/kg.

The soils collected from the excavated dirt pile (Wf 04) showed GRO and DRO concentrations of 240 mg/kg and 1510 mg/kg respectively, total BTEX component of 4.59 mg/kg with a Non-detect for the benzene.

The windmill water was sampled (Wf 05 and 06) and analyzed for BTEX and General chemistry. The water analysis results were all negative and the water chemistry suggest this water would be classified as calcium sulfate (slightly gypsum) commonly found in the under lying rustler formation. The water is considered to be protectable with a TDS of 2820. Unless demonstrated otherwise, OCD considers this water bearing formation to be hydraulically connected to the playa lake. Playa lakes are generally recharge points for such underlying groundwater.

OCD has recently reviewed the geology of this area at a nearby site and has determined that with a high degree of certainty that the impact area is hydraulically connected to the playa lake and the playa has fresh water directly below it. Condensate has moved vertically over 10-12 feet and there is highly saturated toxic soil still present.

Recommendations:

Yates should remove the remaining contamination in the impacted area until it meets OCD guidelines 100

mg/kg of TPH (GRO in this case. This should be done quickly because respears this contamination (i.e. gas condensate) has move very rapidly through the vadose zone, and if not stopped soon, groundwater may be impacted. Also, under the NM surface water standards toxic pollutants such as benzene shall not be allowed in such waters.

After excavation, final bottom hole and side wall samples should be collected and sent to a certified lab and analyzed for BTEX and TPH (DRO&GRO). Chlorides do not appear to be an issue. Yates field TPH test should not be used because of the light volatile organics present.

The soils can either be properly disposed of off-site or properly remediated on-site. If remediated on site then some sort of berm should be placed around it so rainwater will not cause run-off into the playa lake. After any on-site remediation, soil samples should be collected below for confirmation to ensure that contaminants did not leach into the underlying soils. If remediated soils are placed back into the excavation, the clean-up standards shall be the guidelines or Yates shall demonstrate to the satisfaction of OCD that these soils will not be harmful to the environment. OCD Santa Fe can assist you in this decision making process, if you wish.

Good Luck.

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487

fax: 505-476-3462

E-mail: WPRICE@state.nm.us



E-Mail lab@traceanalysis.com

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FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

Analytical and Quality Control Report

Wayne Price OCD-Santa Fe

1220 S. Saint Francis Dr. Santa Fe, NM 87505

Report Date: April 5, 2005

Work Order: 5032513

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name: Project Number: Way Farer State AIY #1 Way Farer State AIY #1

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
58204	Wayfarer 01	soil	2005-03-23	14:00	2005-03-25
58205	Wayfarer 02	soil	2005-03-23	14:10	2005-03-25
58206	Wayfarer 03	soil	2005-03-23	14:20	2005-03-25
58207	Wayfarer 04	soil	2005-03-23	15:05	2005-03-25

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 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Michael about

Work Order: 5032513 Way Farer State AIY #1 Page Number: 2 of 12 Sec 25-195-29E 990 FSI 666 FEL

Analytical Report

Sample: 58204 - Wayfarer 01

Analysis: BTEX QC Batch: 17005 Prep Batch: 14987 Analytical Method: S 8021B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL			
Parameter	Flag	Result	Units	Dilution	RL
MTBE		0.177	mg/Kg	50	0.00100
Benzene	1	0.725	mg/Kg	50	0.00100
Toluene		4.39	mg/Kg	50	0.00100
Ethylbenzene		1.35	mg/Kg	50	0.00100
Xvlene		20.4	mg/Kg	50	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	2	0.578	mg/Kg	50	0.0200	58	61.8 - 113
4-Bromofluorobenzene (4-BFB)	3	1.80	mg/Kg	50	0.0200	180	75.8 - 111

Sample: 58204 - Wayfarer 01

Analysis: Chloride (IC) QC Batch: 16943 Prep Batch: 14938 Analytical Method: E 300.0
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: N/A Analyzed By: WB Prepared By: WB

Sample: 58204 - Wayfarer 01

Analysis: TPH DRO QC Batch: 16966 Prep Batch: 14954 Analytical Method: Mod. 8015B
Date Analyzed: 2005-03-29
Sample Preparation: 2005-03-29

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

		RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		5960	mg/Kg	10	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	4	569	mg/Kg	10	15.0	379	57.5 - 139

Sample: 58204 - Wayfarer 01

TPH GRO Analysis: Analytical Method: S 8015B Prep Method: S 5035 QC Batch: 17006 Date Analyzed: 2005-03-30 Analyzed By: MS Prep Batch: Prepared By: 14987 Sample Preparation: 2005-03-30 BL

¹Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

²Surrogate out due to peak interference.

³High surrogate recovery due to peak interference.

⁴High surrogate recovery due to peak interference.

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Parameter	Flag		RL Result		Units	Di	ilution		RL
GRO	T lug		320		mg/Kg		50		0.100
					88				
						Spike	Percent		covery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery		mits
Trifluorotolue		5	11.0	mg/Kg	50	0.0200	1100		- 130
4-Bromofluor	obenzene (4-BFB)	6	9.42	mg/Kg	50	0.0200	942	70	- 130
Sample: 5820	05 - Wayfarer 02								
Analysis:	BTEX		Analytical N		8021B		Prep Met	hod: S	5035
QC Batch:	17005		Date Analys	zed: 2	2005-03-30		Analyzed	l By: N	ЛS
Prep Batch:	14987		Sample Prep	paration: 2	2005-03-30		Prepared	By: I	BL
Domomotor	Elac		RL Result		Units	Dil	ution		DΙ
Parameter MTBE	Flag		<0.0500		mg/Kg	ווט	50	<u> </u>	RL 00100
Benzene	7		<0.0300 1.98				50 50		00100
Toluene			10.7		mg/Kg mg/Kg		50		00100
Ethylbenzene			5.06		mg/Kg		50		00100
Xylene	8		73.5		mg/Kg		50		00100
Aylene					mg/Kg			<u> </u>	00100
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy mits
Trifluorotolue	ene (TFT)	9	1.20	mg/Kg	50	0.0200	120		- 113
	robenzene (4-BFB)	10	11.7	mg/Kg	50	0.0200	1170		- 111
Sample: 582	05 - Wayfarer 02								
Analysis:	Chloride (IC)		•	ical Method			•	lethod:	N/A
QC Batch:	16943			nalyzed:	2005-03-30		•	zed By:	WB
Prep Batch:	14938		Sample	Preparation	n: 2005-03-30		Prepar	ed By:	WB
			RL						
Parameter	Flag		Result		Units	Γ	Dilution		RL
Chloride			11.9		mg/Kg		5		1.00
Sample: 582	05 - Wayfarer 02								
Analysis:	TPH DRO		Analytic	al Method:	Mod. 8015B		Pren A	lethod:	N/A
QC Batch:	16966		Date Ana		2005-03-29			zed By:	DS
Prep Batch:	14954			Preparation:	2005-03-29			ed By:	DS
			RL						
Parameter	Flag		Result		Units	Ε	Dilution		RL
DRO			18000		mg/Kg		50		50.0

⁵High surrogate recovery due to peak interference.

⁶High surrogate recovery due to peak interference.

⁷Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

⁸Estimated concentration value greater than standard range.

⁹Surrogate out due to peak interference.

¹⁰Surrogate out due to peak interference.

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				-	Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	n	699	mg/Kg	50	3.00	466	57.5 - 139

Sample: 58205 - Wayfarer 02

Analysis: TPH GRO QC Batch: 17006 Prep Batch: 14987 Analytical Method: S 8015B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

RLResult Dilution Parameter Flag Units RL 797 0.100 **GRO** mg/Kg 50 Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits Trifluorotoluene (TFT) 50 0.0200 4380 70 - 130 43.8 mg/Kg

mg/Kg

50

0.0200

13

10.8

Sample: 58206 - Wayfarer 03

4-Bromofluorobenzene (4-BFB)

Analysis: BTEX QC Batch: 17005 Prep Batch: 14987 Analytical Method: S 8021B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

70 - 130

1080

RL Parameter Result Units Dilution RL Flag 0.00100 **MTBE** < 0.0100 mg/Kg Benzene < 0.0100 mg/Kg 10 0.00100 Toluene < 0.0100 mg/Kg 10 0.00100 Ethylbenzene < 0.0100 10 0.00100 mg/Kg Xylene 0.0113 10 0.00100 mg/Kg

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.622	mg/Kg	10	0.100	62	61.8 - 113
4-Bromofluorobenzene (4-BFB)		0.762	mg/Kg_	10	0.100	76	75.8 - 111

Sample: 58206 - Wayfarer 03

Analysis: Chloride (IC)
QC Batch: 16943
Prep Batch: 14938

Analytical Method: E 300.0
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: N/A Analyzed By: WB Prepared By: WB

 RL

 Parameter
 Flag
 Result
 Units
 Dilution
 RL

 Chloride
 36.9
 mg/Kg
 5
 1.00

¹¹ High surrogate recovery due to peak interference.

¹²High surrogate recovery due to peak interference.

¹³High surrogate recovery due to peak interference.

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Sample: 58206 - Wayfarer 03

Analysis: TPH DRO QC Batch: 16966 Prep Batch: 14954 Analytical Method: Mod. 8015B
Date Analyzed: 2005-03-29
Sample Preparation: 2005-03-29

Prep Method: N/A Analyzed By: DS Prepared By: DS

RL

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

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane		167	mg/Kg	1	150	111	57.5 - 139

Sample: 58206 - Wayfarer 03

Analysis: TPH GRO QC Batch: 17006 Prep Batch: 14987 Analytical Method: S 8015B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

> RL 0.100

		RL			
Parameter	Flag	Result	Units	Dilution	
GRO		9.68	mg/Kg	10	

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	14	2.21	mg/Kg	10	0.100	221	70 - 130
4-Bromofluorobenzene (4-BFB)	15	0.646	mg/Kg	10	0.100	65	70 - 130

Sample: 58207 - Wayfarer 04

Analysis: BTEX QC Batch: 17005 Prep Batch: 14987 Analytical Method: S 8021B
Date Analyzed: 2005-03-30
Sample Preparation: 2005-03-30

Prep Method: S 5035 Analyzed By: MS Prepared By: BL

		RL			
Parameter	Flag	Result	Units	Dilution	RL
MTBE		0.0377	mg/Kg	10	0.00100
Benzene		< 0.0100	mg/Kg	10	0.00100
Toluene		1.90	mg/Kg	10	0.00100
Ethylbenzene		1.01	mg/Kg	10	0.00100
Xylene	16	1.68	mg/Kg	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	17	0.493	mg/Kg	10	0.100	49	61.8 - 113
4-Bromofluorobenzene (4-BFB)	18	3.07	mg/Kg	10	0.100	307	75.8 - 111

¹⁴High surrogate recovery due to peak interference.

¹⁵Bfb surrogate recovery outside normal limits due to matrix interference. •

¹⁶Estimated concentration value greater than standard range.

¹⁷Surrogate out due to peak interference.

¹⁸High surrogate recovery due to peak interference.

Report Date: April 5, 2005
Way Farer State AIY #1

Work Order: 5032513 Way Farer State AIY #1

Page Number: 6 of 12 Sec 25-195-29E 990 FSI 666 FEL

Analysis:	Chloride (IC)
QC Batch:	16943
Prep Batch:	14938

Analytical Method: Date Analyzed: Sample Preparation:

E 300.0 2005-03-30 2005-03-30

Analyzed By: Prepared By:

Prep Method:

N/A

WB

WB

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		24.4	mg/Kg	5	1.00

Sample: 58207 - Wayfarer 04

Analysis:	TPH DRO
QC Batch:	16966
Prep Batch:	14954

Analytical Method: Mod. 8015B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29

Prep Method: N/A Analyzed By: DS Prepared By: DS

RLParameter Flag Result **DRO** 1510

Units Dilution RLmg/Kg 50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	19	254	mg/Kg	1	150	169	57.5 - 139

Sample: 58207 - Wayfarer 04

Analysis:	TPH GRO
QC Batch:	17006
Prep Batch:	14987

GRO

Analytical Method: S 8015B Date Analyzed: 2005-03-30 Sample Preparation: 2005-03-30 Prep Method: S 5035 Analyzed By: MS Prepared By: BL

Parameter

RL Result Dilution RL Flag Units 240 mg/Kg 10 0.100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)	20	0.569	mg/Kg	10	0.100	57	70 - 130
4-Bromofluorobenzene (4-BFB)	21	7.91	mg/Kg	10	0.100	791	70 - 130

Sample: 58207 - Wayfarer 04

Analysis: TX1005 OC Batch: 16891 Prep Batch: 14890

Analytical Method: TX1005 Date Analyzed: 2005-03-26 Sample Preparation: 2005-03-25

Prep Method: N/A Analyzed By: DS Prepared By: DS

RL Parameter Flag Result Units Dilution RL C6-C12 755 50.0 mg/Kg 1 1080 >C12-C28 mg/Kg 1 50.0

¹⁹High surrogate recovery due to peak interference.

²⁰Surrogate out due to peak interference.

²¹High surrogate recovery due to peak interference.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 7 of 12 Sec 25-195-29E 990 FSI 666 FEL

Surrogate	Flag	Result	Units	Dilutio	n	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	22	246	mg/Kg	1		150	164	73.8 - 148
	······			·······				
Method Blank (2)	QC Batcl	n: 16891					·	
,				MDL				
Parameter		Flag		Result		Ţ	Jnits	RL
C6-C12				48.0		m	ng/Kg	50
>C12-C28				<13.0		m	ng/Kg	50
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	n	Amount	Recovery	Limits
n-Triacontane	····	190	mg/Kg	1		150	127	73.8 - 148
Matrix Blank (1)	QC Batch	· 16943						
2 (2)	Q 0 2			MDL				
Parameter		Flag		Result		Ţ	Jnits	RL
		1 146						
Chloride Method Blank (1)	QC Batcl	h: 16966		1.72 MDL		m	g/Kg	1
Method Blank (1) Parameter	QC Batcl	h: 16966 Flag		MDL Result		Ţ	Jnits	RL
Method Blank (1)	QC Batcl			MDL		Į m		RL 50
Method Blank (1) Parameter DRO		Flag	Units	MDL Result 10.5	n	U m Spike	Jnits g/Kg Percent	RL 50 Recovery
Method Blank (1) Parameter DRO Surrogate	QC Batcl		Units mg/Kg	MDL Result	n	Į m	Jnits g/Kg	RL 50
Method Blank (1) Parameter		Flag Result 170		MDL Result 10.5 Dilution	n	Spike Amount	Jnits g/Kg Percent Recovery	RL 50 Recovery Limits
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1)	Flag	Result 170		MDL Result 10.5 Dilution 1	n	Spike Amount 150	Jnits g/Kg Percent Recovery 113	RL 50 Recovery Limits 57.5 - 139
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter	Flag	Flag Result 170		MDL Result 10.5 Dilution 1 MDL Result	n	Spike Amount 150	Jnits g/Kg Percent Recovery 113	RL 50 Recovery Limits 57.5 - 139
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE	Flag	Result 170		MDL Result 10.5 Dilution 1 MDL Result <0.00160	n	Spike Amount 150	Jnits g/Kg Percent Recovery 113 Jnits g/Kg	RL 50 Recovery Limits 57.5 - 139
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene	Flag	Result 170		MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900	n	Spike Amount 150	Jnits g/Kg Percent Recovery 113 Jnits g/Kg gg/Kg	RL 50 Recovery Limits 57.5 - 139 RL 0.001 0.001
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene Toluene	Flag	Result 170		MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900 0.00100	n	Spike Amount 150	Jnits pg/Kg Percent Recovery 113 Jnits pg/Kg pg/Kg pg/Kg pg/Kg	RL 50 Recovery Limits 57.5 - 139 RL 0.001 0.001 0.001
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene	Flag	Result 170		MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900	n	Spike Amount 150	Jnits g/Kg Percent Recovery 113 Jnits g/Kg gg/Kg	RL 50 Recovery Limits 57.5 - 139 RL 0.001 0.001
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene Toluene Ethylbenzene Xylene	Flag	Result 170 h: 17005 Flag	mg/Kg	MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900 0.00100 <0.00235 <0.00251	,	Spike Amount 150	Jnits g/Kg Percent Recovery 113 Jnits g/Kg g/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg	RL
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene Toluene Ethylbenzene Xylene Surrogate	Flag QC Batch	Result 170	mg/Kg Result	MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900 0.00100 <0.00235 <0.00251 Units	Dilution	Spike Amount 150 U m m m spike Amoun	Jnits g/Kg Percent Recovery 113 Jnits g/Kg g/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg tg/Kg tg/Kg tg/Kg	RL 50 Recovery Limits 57.5 - 139 RL 0.001 0.001 0.001 0.001 Recovery Limits
Method Blank (1) Parameter DRO Surrogate n-Triacontane Method Blank (1) Parameter MTBE Benzene Toluene Ethylbenzene Xylene	Flag QC Batch	Result 170 h: 17005 Flag	mg/Kg	MDL Result 10.5 Dilution 1 MDL Result <0.00160 0.000900 0.00100 <0.00235 <0.00251	,	Spike Amount 150	Jnits g/Kg Percent Recovery 113 Jnits g/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg gg/Kg	RL

²²High surrogate recovery due to peak interference.

4-Bromofluorobenzene (4-BFB)

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86

33.4 - 131

Method Blank (1)

QC Batch: 17006

Parameter	Flag		MDL Result		Unit		RL
GRO			< 0.236		mg/K	0.1	
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.929	mg/Kg	10	0.100	93	57.8 - 112

mg/Kg

10

0.100

Laboratory Control Spike (LCS-2) QC

QC Batch: 16891

0.856

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
C6-C12	232	252	mg/Kg	ĺ	250	<7.12	93	8	62.1 - 127	20
>C12-C28	252	239	mg/Kg	1	250	<13.0	101	5	66.3 - 134	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	181	182	mg/Kg	1	150	121	121	73.8 - 148

Laboratory Control Spike (LCS-1) QC Batch: 16943

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	13.3	13.2	mg/Kg	1	12.5	1.72	93	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16966

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	255	250	mg/Kg	1	250	< 5.35	102	2	84 - 118	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	161	161	mg/Kg	1	150	107	108	57.5 - 139

Laboratory Control Spike (LCS-1) QC Batch: 17005

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
MTBE	0.973	0.937	mg/Kg	10	0.100	< 0.00160	97	4	84.9 - 107	17

continued ...

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control spikes continued . . .

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Benzene	1.03	1.01	mg/Kg	10	0.100	< 0.000690	103	2	74.8 - 116	20
Toluene	0.976	0.963	mg/Kg	10	0.100	< 0.00100	98	1	78.9 - 112	20
Ethylbenzene	1.04	1.03	mg/Kg	10	0.100	< 0.00235	104	1	77.6 - 114	20
Xylene	3.00	2.96	mg/Kg	10	0.300	< 0.00251	100	1	81.1 - 113	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.710	0.992	mg/Kg	10	0.100	71	99	61.8 - 113
4-Bromofluorobenzene (4-BFB)	0.859	0.994	mg/Kg	10	0.100	86	99	75.8 - 111

Laboratory Control Spike (LCS-1)

QC Batch: 17006

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
GRO	10.1	9.44	mg/Kg	10	1.00	< 0.236	101	7	79 - 111	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.748	0.990	mg/Kg	10	0.100	75	99	68.1 - 115
4-Bromofluorobenzene (4-BFB)	0.919	0.827	mg/Kg	10	0.100	92	83	68.7 - 130

Matrix Spike (MS-1)

QC Batch: 16943

Spiked Sample: 57571

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	85.4	85.3	mg/Kg	5	12.5	24.4	98	0	60.9 - 143	20

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

Matrix Spike (MS-1)

QC Batch: 16966

Spiked Sample: 58207

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
DRO	2324	1540	1630	mg/Kg	1	250	1510	12	6	70 - 130	20

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

		MS	MSD			Spike	MS	MSD	Rec.
Surrogate		Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	2526	212	219	mg/Kg	1	150	141	146	57.5 - 139

²³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²⁴Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²⁵High surrogate recovery due to peak interference.

²⁶High surrogate recovery due to peak interference.

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Matrix	Snike	(MS_1)
Maurix	Spike	(1479-1)

OC Batch: 17006

Spiked Sample: 57979

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limi
GRO	16.3	17.5	mg/Kg	10	1.00	< 0.236	163	7	0 - 27	7 20
Percent recov	very is based or	the spike resu	lt. RPD is b	ased on th	e spike and sp	oike duplic	ate result.			
			MS	MSD			Spike	MS	MSD	Rec.
Surrogate			Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotolu	ene (TFT)	2728	0.408	0.433	mg/Kg	10	0.1	41	43	62 - 114
1-Bromofluo	robenzene (4-B	FB)	0.834	0.812	mg/Kg	10	0.1	83	81	66.9 - 136
Standard (C	CCV-3) QC	Batch: 16891								
			CC	CVs	CCVs	CC	Vs	Percen	t	
				ue	Found	Perc		Recover		Date
Param	Flag	Units	Co	nc.	Conc.	Reco		Limits	•	Analyzed
C6-C12		mg/Kg	2:	50	232	93		75 - 12	5	2005-03-20
>C12-C28		mg/Kg	2:	50	261	10	4	75 - 12:	5	2005-03-26
Standard (C		Batch: 16891		CVs rue	CCVs Found	CC Perc		Percen Recover		Date
Param	Flag	Units		nc.	Conc.	Reco		Limits		Analyzed
C6-C12		mg/Kg		50	255	10		75 - 12:		2005-03-26
>C12-C28		mg/Kg	2:	50	245	98		75 - 12.	5	2005-03-26
Standard (I	CV-1) QC I	Batch: 16943								
			ICV	's	ICVs	ICV	's	Percent	:	
			Tru	e	Found	Perce	ent	Recover	y	Date
Param	Flag	Units	Con	c.	Conc.	Recov	ery	Limits		Analyzed
Chloride		mg/Kg	12.	5	11.5	92		90 - 110)	2005-03-30
Standard (C	CCV-1) OC	Batch: 16943								
(C		23,011, 10,73								
			CCV	/s	CCVs	CCV	/s	Percent		

Found

Conc.

12.0

Percent

Recovery

96

Recovery

Limits

90 - 110

Date

Analyzed

2005-03-30

Standard (ICV-1) QC Batch: 16966

Flag

Units

mg/Kg

Param

Chloride

True

Conc.

12.5

²⁷Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.

²⁸Surrogate recovery out of control on MS/MSD due to matrix interference. LCS/LCSD show method to be in control.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 11 of 12 Sec 25-195-29E 990 FSI 666 FEL

Param	Flag	Uı	nits	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO			g/Kg	250	244	97	57.5 - 139	2005-03-29
Standard ((CCV-1)	QC Batch:						
Stanuai u ((CC V-1)	QC Dateii.	. 10900					
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag		nits	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg	g/Kg	250	270	108	57.5 - 139	2005-03-29
Standard ((ICV-1)	QC Batch:	17005					
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
MTBE		<u></u>	mg/Kg	0.100	0.0940	94	85 - 115	2005-03-30
Benzene			mg/Kg	0.100	0.101	101	85 - 115	2005-03-30
Toluene			mg/Kg	0.100	0.100	100	85 - 115	2005-03-30
Ethylbenze	ne		mg/Kg	0.100	0.102	102	85 - 115	2005-03-30
•			mg/Kg	0.300	0.296	99	85 - 115	2005-03-30
Xylene			mg/1tg		, and ,			
-	(CCV-1)	QC Batch:		CCVs	CCVs Found	CCVs Percent	Percent Recovery	Date
Xylene Standard ((CCV-1)		: 17005	CCVs True	Found	Percent	Recovery	Date Analyzed
Xylene	(CCV-1)	QC Batch:	: 17005 Units	CCVs True Conc.				Date Analyzed 2005-03-30
Xylene Standard ((CCV-1)		: 17005 Units mg/Kg	CCVs True	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
Xylene Standard (Param MTBE	(CCV-1)		: 17005 Units	CCVs True Conc. 0.100	Found Conc. 0.0908	Percent Recovery	Recovery Limits 85 - 115	Analyzed 2005-03-30
Xylene Standard (Param MTBE Benzene			Units mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.100	Found Conc. 0.0908 0.0999 0.0988 0.100	Percent Recovery 91 100 99 100	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2005-03-30 2005-03-30
Xylene Standard (Param MTBE Benzene Toluene			Units mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100	Found Conc. 0.0908 0.0999 0.0988	Percent Recovery 91 100 99	Recovery Limits 85 - 115 85 - 115 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30
Ethylbenze	ene		Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.100 0.300	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288	Percent Recovery 91 100 99 100 96	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30
Param MTBE Benzene Toluene Ethylbenze Xylene	ene	Flag	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288	Percent Recovery 91 100 99 100 96	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30
Param MTBE Benzene Toluene Ethylbenze Xylene Standard (ene (ICV-1)	Flag QC Batch:	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288	Percent Recovery 91 100 99 100 96 ICVs Percent	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 2005-03-30
Ethylbenze Xylene Standard (Param MTBE Benzene Toluene Ethylbenze Xylene Standard (Param	ene	Flag QC Batch:	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300 ICVs True Conc.	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288 ICVs Found Conc.	Percent Recovery 91 100 99 100 96 ICVs Percent Recovery	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery Limits	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 Date Analyzed
Param MTBE Benzene Toluene Ethylbenze Xylene Standard (ene (ICV-1)	Flag QC Batch:	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288	Percent Recovery 91 100 99 100 96 ICVs Percent	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 2005-03-30
Ethylbenze Xylene Standard (Param MTBE Benzene Toluene Ethylbenze Xylene Standard (Param	(ICV-1)	Flag QC Batch:	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300 ICVs True Conc. 1.00	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288 ICVs Found Conc. 1.02	Percent Recovery 91 100 99 100 96 ICVs Percent Recovery 102	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery Limits 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 Date Analyzed
Param MTBE Benzene Toluene Ethylbenze Xylene Standard (Param GRO	(ICV-1)	Plag QC Batch: Un	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300 ICVs True Conc. 1.00	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288 ICVs Found Conc. 1.02	Percent Recovery 91 100 99 100 96 ICVs Percent Recovery 102	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery Limits 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 Date Analyzed
Param MTBE Benzene Toluene Ethylbenze Xylene Standard (Param GRO	(ICV-1) Flag	QC Batch: QC Batch:	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300 ICVs True Conc. 1.00	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288 ICVs Found Conc. 1.02	Percent Recovery 91 100 99 100 96 ICVs Percent Recovery 102 CCVs Percent	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery Limits 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 2005-03-30 Date Analyzed 2005-03-30
Param MTBE Benzene Toluene Ethylbenze Xylene Standard (Param GRO	(ICV-1)	Plag QC Batch: QC Batch: Ut	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	CCVs True Conc. 0.100 0.100 0.100 0.300 ICVs True Conc. 1.00	Found Conc. 0.0908 0.0999 0.0988 0.100 0.288 ICVs Found Conc. 1.02	Percent Recovery 91 100 99 100 96 ICVs Percent Recovery 102	Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Percent Recovery Limits 85 - 115	Analyzed 2005-03-30 2005-03-30 2005-03-30 2005-03-30 2005-03-30 Date Analyzed 2005-03-30

Work Order: 5032513 Way Farer State AIY #1 Page Number: 12 of 12 Sec 25-195-29E 990 FSI 666 FEL

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E-Mail: lab@traceanalysis.com

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Lubbock, Texas 79424 El Paso, Texas 79932

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Analytical and Quality Control Report

Wayne Price

OCD-Santa Fe

1220 S. Saint Francis Dr. Santa Fe, NM 87505

Report Date: April 5, 2005

Work Order:

5032513

Project Location: Sec 25-195-29E 990 FSI 666 FEL

Project Name: Project Number: Way Farer State AIY #1 Way Farer State AIY #1

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

	-	•	Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
58208	Wayfarer 05	water	2005-03-23	14:50	2005-03-25
58209	Wayfarer 06 (Windmill)	water	2005-03-23	14:50	2005-03-25

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 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Work Order: 5032513 Way Farer State AIY #1

Page Number: 2 of 11 Sec 25-195-29E 990 FSI 666 FEL

Analytical Report

Sample: 58208 - Wayfarer 05

BTEX Analysis: QC Batch: 16917 Prep Batch: 14912

Analytical Method: S 8021B Date Analyzed: 2005-03-26 Sample Preparation: 2005-03-26 Prep Method: S 5030B Analyzed By: JG Prepared By: JG

RL

Parameter	Flag	Result	Units	Dilution	RL
MTBE	·····	< 0.00100	mg/L	1	0.00100
Benzene		< 0.00100	mg/L	1	0.00100
Toluene		< 0.00100	mg/L	1	0.00100
Ethylbenzene		< 0.00100	mg/L	1	0.00100
Xylene		< 0.00100	mg/L	1	0.00100

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.0886	mg/L	1	0.100	89	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0749	mg/L	1	0.100	75	52.4 - 119

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Alkalinity QC Batch: 16972 Prep Batch: 14959

Analytical Method: SM 2320B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29 Prep Method: N/A Analyzed By: RS Prepared By: RS

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		182	mg/L as CaCo3	1	4.00
Total Alkalinity		182	mg/L as CaCo3	1	4.00

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Conductivity QC Batch: 16971 Prep Batch: 14960

Analytical Method: SM 2510B Date Analyzed: 2005-03-29 Sample Preparation: 2005-03-29

Prep Method: N/A Analyzed By: RS Prepared By: RS

Parameter	Flag	Result	Units	Dilution	RL
Specific Conductance		3060	μ MHOS/cm	1	0.00

RL

Sample: 58209 - Wayfarer 06 (Windmill)

Analysis: Ion Chromatography QC Batch: 16960 Prep Batch: 14940

Analytical Method: E 300.0 Date Analyzed: 2005-03-25 Sample Preparation: 2005-03-25

Prep Method: N/A Analyzed By: RS Prepared By: WB

Prep Batch:

14927

Work Order: 5032513 Way Farer State AIY #1 Page Number: 3 of 11 Sec 25-195-29E 990 FSI 666 FEL

		RL			
Parameter	Flag	Result	Units	Dilution	RI
Chloride		193	mg/L	5	0.500
Fluoride		2.13	mg/L	5	0.200
Sulfate		1550	mg/L	50	0.500
Sample: 582	09 - Wayfarer 06 (Windmill)				
Analysis:	NO3 (IC)	Analytical Method:	: E 300.0	Prep	Method: N/A
QC Batch:	16960	Date Analyzed:	2005-03-25	-	yzed By: RS
Prep Batch:	14940	Sample Preparation	n: 2005-03-25	·	ared By: WE
		RL			
Parameter	Flag	Result	Units	Dilution	RI
Nitrate-N		20.7	mg/L	5	0.200
Sample: 582	09 - Wayfarer 06 (Windmill)				
Analysis:	pH	Analytical Method:	SM 4500-H+	Pren	Method: N/A
QC Batch:	16934 ^a	Date Analyzed:	2005-03-25	-	yzed By: RS
Prep Batch:	14925	Sample Preparation:			red By: RS
asample run i			2003 03 23	Trope	nou by. Ro
sample run	n laboratory				
Parameter	Flor	RL Result	Units	Dilution	DI
oH	Flag	7.39	S.u.	1	0.00
Sample: 582	09 - Wayfarer 06 (Windmill)				
Analysis:	Salts, Dissolved	Analytical Method	d: S 6010B	Prep Meth	nod: S 3005A
QC Batch:	17087	Date Analyzed:	2005-04-04	Analyzed	By: TP
Prep Batch:	14955	Sample Preparatio	on: 2005-03-29	Prepared 1	By: DS
n .	T.I.	RL	** **	D11 - 1	
Parameter	Flag	Result	Units	Dilution	RI
Dissolved Ca		613	mg/L	10	0.500
Dissolved Ma Dissolved Po		46.9 6.56	mg/L	1	0.500 0.500
			mg/L mg/I		
Dissolved So Sample: 582	dium 09 - Wayfarer 06 (Windmill)	98.4	mg/L	1	0.50
Analysis:	TDS	Analytical Method:	SM 2540C	Pran	Method: N/A
QC Batch:	16929	Date Analyzed:	2005-03-28	-	yzed By: RS
Pren Ratch:	14927	Sample Preparation:		-	red By: DS

Sample Preparation: 2005-03-25

continued ...

Prepared By:

RS

Work Order: 5032513 Way Farer State AIY #1 Page Number: 4 of 11 Sec 25-195-29E 990 FSI 666 FEL

sample 58209 continued ...

		RL			
Parameter	Flag	Result	Units	Dilution	RL
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Total Dissolved Solids		2820	mg/L	2	10.00

Method Blank (1) QC Batch: 16917

		MDL		
Parameter	Flag	Result	Units	RL
MTBE		< 0.000232	mg/L	0.001
Benzene		< 0.000136	mg/L	0.001
Toluene		< 0.000247	mg/L	0.001
Ethylbenzene		< 0.000552	mg/L	0.001
Xylene		< 0.00156	mg/L	0.001

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.0912	mg/L	1	0.100	91	73.8 - 121
4-Bromofluorobenzene (4-BFB)		0.0792	mg/L	1	0.100	79	52.4 - 113

Method Blank (1) QC Batch: 16929

		MDL		
Parameter	Flag	Result	Units	RL
Total Dissolved Solids		< 5.000	mg/L	10

Method Blank (1) QC Batch: 16960

		MDL		
Parameter	Flag	Result	Units	RL
Nitrate-N		< 0.0217	mg/L	0.2

Method Blank (1) QC Batch: 16960

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		< 0.337	mg/L	0.5
Fluoride		< 0.0594	mg/L	0.2
Sulfate		< 0.409	mg/L	0.5

Method Blank (1) QC Batch: 16971

Work Order: 5032513 Way Farer State AIY #1 Page Number: 5 of 11 Sec 25-195-29E 990 FSI 666 FEL

		MDL		
Parameter	Flag	Result	Units	RL
Specific Conductance		1.43	μMHOS/cm	

Method Blank (1) QC Batch: 16972

		MDL		
Parameter ·	Flag	Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 17087

		MDL		
Parameter	Flag	Result	Units	RL
Dissolved Calcium		< 0.102	mg/L	0.5
Dissolved Magnesium		< 0.110	mg/L	0.5
Dissolved Potassium		< 0.0454	mg/L	0.5
Dissolved Sodium		< 0.0114	mg/L	0.5

Duplicate (1) QC Batch: 16929

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Total Dissolved Solids	6310	6780	mg/L	5	7	14.9

Duplicate (1) QC Batch: 16934

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
pН	7.71	7.72	s.u.	1	0	0.4

Duplicate (1) QC Batch: 16971

	Duplicate	Sample				RPD
Param	Result	Result	Units	Dilution	RPD	Limit
Specific Conductance	48500	49300	μMHOS/cm	1	2	2.4

Duplicate (1) QC Batch: 16972

Work Order: 5032513 Way Farer State AIY #1 Page Number: 6 of 11 Sec 25-195-29E 990 FSI 666 FEL

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	168	162	mg/L as CaCo3	1	4	20
Total Alkalinity	168	162	mg/L as CaCo3	1	4	4.6

Laboratory Control Spike (LCS-1) QC Batch: 16917

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
MTBE	0.0911	0.0866	mg/L	1	0.100	< 0.000232	91	5	66.7 - 119	9.7
Benzene	0.0880	0.0848	mg/L	1	0.100	< 0.000136	88	4	72.8 - 113	20
Toluene	0.0855	0.0826	mg/L	1	0.100	< 0.000247	86	3	75.2 - 112	20
Ethylbenzene	0.0908	0.0876	mg/L	1	0.100	< 0.000550	91	4	81 - 112	20
Xylene	0.293	0.283	mg/L	1	0.300	< 0.00156	98	3	82.9 - 119	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	0.0951	0.0937	mg/L	1	0.100	95	94	72.9 - 121
4-Bromofluorobenzene (4-BFB)	0.106	0.103	mg/L	1	0.100	106	103	77.8 - 119

Laboratory Control Spike (LCS-1) QC Batch: 16960

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Nitrate-N	2.41	2.38	mg/L	1	2.50	< 0.0217	96	1	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 16960

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	11.8	11.8	mg/L	1	12.5	< 0.337	94	0	90 - 110	20
Fluoride	2.36	2.40	mg/L	1	2.50	< 0.0594	94	2	90 - 110	20
Sulfate	12.0	12.3	mg/L	1	12.5	< 0.409	96	2	90 - 110	20

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

Laboratory Control Spike (LCS-1) QC Batch: 17087

	LCS	LCSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium	46.9	45.8	mg/L	1	50.0	< 0.102	94	2	85 - 115	20
Dissolved Magnesium	45.3	43.8	mg/L	1	50.0	< 0.110	91	3	85 - 115	20
Dissolved Potassium	47.0	46.0	mg/L	1	50.0	< 0.0454	94	2	85 - 115	20
Dissolved Sodium	47.5	47.4	mg/L	1	50.0	< 0.0114	95	0	85 - 115	20

Work Order: 5032513 Way Farer State AIY #1 Page Number: 7 of 11 Sec 25-195-29E 990 FSI 666 FEL

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

Matrix Spike (MS-1)

QC Batch: 16960

Spiked Sample: 58225

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Nitrate-N	12900	13000	mg/L	5000	2.50	<108	103	1	78.8 - 116	20

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

Matrix Spike (MS-1)

QC Batch: 16960

Spiked Sample: 58225

	MS	MSD			Spike	Matrix			Rec.	RPD
Param	Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Chloride	104000	102000	mg/L	5000	12.5	43300	97	2	70.7 - 124	20
Fluoride	12200	11900	mg/L	5000	2.50	<297	98	2	70.9 - 126	20
Sulfate	73800	75300	mg/L	5000	12.5	15200	94	2	82.5 - 123	20

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

Matrix Spike (MS-1)

QC Batch: 17087

Spiked Sample: 58168

		MS	MSD			Spike	Matrix			Rec.	RPD
Param		Result	Result	Units	Dil.	Amount	Result	Rec.	RPD	Limit	Limit
Dissolved Calcium		527	542	mg/L	1	50.0	481	92	3	75 - 125	20
Dissolved Magnesium	I	527	539	mg/L	1	50.0	492	70	2	75 - 125	20
Dissolved Potassium		175	172	mg/L	1	50.0	129	92	2	75 - 125	20
Dissolved Sodium	2	1820	1850	mg/L	1	50.0	1810	20	2	75 - 125	20

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

Standard (CCV-1) Q

QC Batch: 16917

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.100	0.0877	88	85 - 115	2005-03-26
Benzene		mg/L	0.100	0.0883	88	85 - 115	2005-03-26
Toluene		mg/L	0.100	0.0850	85	85 - 115	2005-03-26
Ethylbenzene		mg/L	0.100	0.0903	90	85 - 115	2005-03-26
Xylene		mg/L	0.300	0.286	95	85 - 115	2005-03-26

Standard (CCV-2)

QC Batch: 16917

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
MTBE		mg/L	0.100	0.0880	88	85 - 115	2005-03-26

continued ...

¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: April 5, 2005	
Way Farer State AIY #1	

Work Order: 5032513 Way Farer State AIY #1 Page Number: 8 of 11 Sec 25-195-29E 990 FSI 666 FEL

sianaara conti	inued		CCV	I.s.	CCVs	CCVs	Percent	
			Tru		Found	Percent	Recovery	Date
Param	Flag	Units	Con		Conc.	Recovery	Limits	Analyzed
Benzene	1 145	mg/L	0.10		0.0860	86	85 - 115	2005-03-26
Toluene	3	mg/L	0.10		0.0840	84	85 - 115	2005-03-26
Ethylbenzene			0.10		0.0890	89	85 - 115	2005-03-26
Xylene		mg/L	0.30		0.289	96	85 - 115	2005-03-26
Standard (IC	CV-1) QC B	Satch: 16929						
				ICVs	ICVs	ICVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolve	ed Solids		mg/L	1000	994.0	99	90 - 110	2005-03-28
Standard (Co	CV-1) QC	Batch: 16929						
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Dissolve	ed Solids		mg/L	1000	1055	106	90 - 110	2005-03-28
Standard (IC	CV-1) QC E	Batch: 16934	ICVs True		ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.		Conc.	Recovery	Limits	Analyzed
pH	1 lug	s.u.	7.00		7.02	100	98 - 102	2005-03-25
Standard (Co	CV-1) QC	Batch: 16934	CCVs True		CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.		Conc.	Recovery	Limits	Analyzed
рН		s.u.	7.00		6.99	100	98 - 102	2005-03-25
Standard (IC	CV-1) QC E	Batch: 16960						
			ICVs		ICVs	ICVs	Percent	
			True		Found	Percent	Recovery	Date
Param	Flag	Units	Conc.		Conc.	Recovery	Limits	Analyzed

Standard (ICV-1) QC Batch: 16960

Nitrate-N

2.35

94

90 - 110

2005-03-25

2.50

mg/L

³Toluene outside of control limits on CCV(ICV). CCV(ICV) component average is 89 which is within acceptable range. This is acceptable by Method 8000.

Work Order: 5032513 Way Farer State AIY #1 Page Number: 9 of 11 Sec 25-195-29E 990 FSI 666 FEL

			IOM	IOV	-	IOV	D	
			ICVs True	ICVs Found		ICVs Percent	Percent	Date
Param	Flag	Units	Conc.	Conc.		Recovery	Recovery Limits	Analyzed
Chloride	Tag	mg/L	12.5	11.6		93	90 - 110	2005-03-25
Fluoride		mg/L	2.50	2.37		95 95	90 - 110	2005-03-25
Sulfate		mg/L	12.5	11.7		94	90 - 110	2005-03-25
Surface		mg/L	12.3				70 110	2003-03 23
Standard (CC	(V-1) QC E	Batch: 16960						
			CCVs	CCVs		CCVs	Percent	_
_			True	Found		Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.		Recovery	Limits	Analyzed
Nitrate-N	<u></u>	mg/L	2.50	2.40		96	90 - 110	2005-03-25
Standard (CC	(V-1) QC E	Batch: 16960						
			CCVs	CCVs		CCVs	Percent	
			True	Found		Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.		Recovery	Limits	Analyzed
Chloride	1 106	mg/L	12.5	11.8		94	90 - 110	2005-03-25
Fluoride		mg/L	2.50	2.44		98	90 - 110	2005-03-25
Sulfate		mg/L	12.5	12.3		98	90 - 110	2005-03-25
Standard (IC	V-1) QC B	atch: 16971						
				ICVs	ICVs	ICVs	Percent	
_				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Condu	ictance	μ N	MHOS/cm	1410	1420	101	90 - 110	2005-03-29
Standard (CC	(V-1) QC E	Batch: 16971						
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param		Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Specific Condu	ıctance		MHOS/cm	1410	1390	98	90 - 110	2005-03-29
							·····	
Standard (IC	V-1) QC B	atch: 16972						
				ICVs	ICVs	ICVs	Percent	
					Found	Percent	Recovery	Date
Param	Flag	Un		Conc.	Conc.	Recovery	Limits	Analyzed
Total Alkalinit	у	mg/L as	CaCo3	250	240	96	90 - 110	2005-03-29

Standard (CCV-1) QC Batch: 16972

Work Order: 5032513 Way Farer State AIY #1 Page Number: 10 of 11 Sec 25-195-29E 990 FSI 666 FEL

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Total Alkalinity		mg/L as CaCo3	250	242	97	90 - 110	2005-03-29

Standard (ICV-1) QC Batch: 17087

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	49.6	99	90 - 110	2005-04-04
Dissolved Magnesium		mg/L	50.0	49.0	98	90 - 110	2005-04-04
Dissolved Potassium		mg/L	50.0	48.6	97	90 - 110	2005-04-04
Dissolved Sodium		mg/L	50.0	49.5	99	90 - 110	2005-04-04

Standard (CCV-1) QC Batch: 17087

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Dissolved Calcium		mg/L	50.0	52.3	105	90 - 110	2005-04-04
Dissolved Magnesium		mg/L	50.0	52.2	104	90 - 110	2005-04-04
Dissolved Potassium		mg/L	50.0	53.8	108	90 - 110	2005-04-04
Dissolved Sodium		mg/L	50.0	54.6	109	90 - 110	2005-04-04

Work Order: 5032513 Way Farer State AIY #1 Page Number: 11 of 11 Sec 25-195-29E 990 FSI 666 FEL

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Price, Wayne

From:

Price, Wayne

Sent:

Sunday, March 27, 2005 1:00 PM

To:

Sanchez, Daniel; MacQuesten, Gail

Cc:

MacQuesten, Gail; Gum, Tim; Barton, Van; Bratcher, Mike

Subject:

Yates Wayfarer #1 2R0054

I have set up an environmental file for this site 2R0054. I have linked it to the well file so you should be able to see my inspection report with photos. I would like to be able to file all of the paper work associated in this file including the results of the NOV and clean-up. As soon as I get the results back I will send everyone a copy with my remediation recommendations. Thanks for all of the help.

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487

fax:

505-476-3462

E-mail: WPRICE@state.nm.us

OCD Inspection of Fales Wayfarer #1 API- 30-015-26647

Date: March 23, 2005 OCD inspectors: Wprice, Mbratcher, Gvongonten Page 1

Inspection observation Notes: Visual oily stains with slight to moderate hydrocarbon odors noted in bottom of excavate areas and sidewalls in excavated area and ramp area. No stains in playa shoreline or bottom of playa. Soil piles had visual oily stains and moderate hydrocarbon odors. One small gravel pile was contaminated with very strong odors. Collected soil and water samples.



Excavated dirt pile-looking East



Battery-looking south



Just south of Battery excavated area looking south small playa lake (now dry) in background.



Standing on north side of excavated area looking SE. Windmill in background.



Same as above



Looking west-area where separator was removed.



Ramp into excavated area. Collected soil sample 0-6 inches deep of visually contaminated soil. Slight-Moderate hydrocarbon odor. Sample ID is Wayfarer #01.

Picture shows Wayne Price-OCD



Sam as above- Glen VonGoten OCD



Excavated area bottom hole. Collected soil sample 0-6" deep of visually contaminated soil in area that would be approximately below separator discharge pipe. Slight-Moderate hydrocarbon odor. Sample ID is Wayfarer #02. Picture shows Mike Bratcher OCD Artesia filed rep.



Standing near the grassy part of playa lake drainage area between battery and Playa.



Collected soil sample 12 inches deep in middle of playa lakebed. GPS reading N 32.62595 W 104.02216. No hydrocarbon odor or stains. Windmill located west in background. Sample ID# Wayfarer #03. Mike Bratcher OCD Artesia Field Rep.



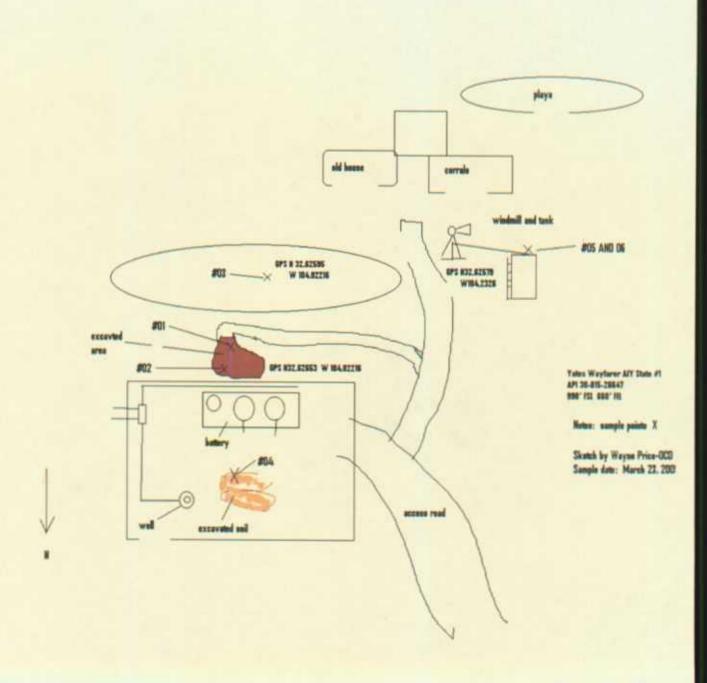
Collecting soil sample from excavated soil pile. Sample ID# Wayfarer 04. Moderate Hydrocarbon odor. Gas well in background looking east.



Same as above except looking West.



Same as above except looking SW. Shows windmill in background. Sample ID for Soil was Wayfarer #04. Windmill was pumping due to 20-30 mph winds in area. Collected sample from windmill from outlet discharge pipe going into Tank. Sample ID # Wayfarer 05 and 06.



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\$01- SAMPLE 1 (BRAMP AME A (PROTO) せ 2997-FE 9 1-5005 · 2 WATER WOULD SITE Drivic TO WATTAIND STAR #1 · OK HOT DIC + 3 VACUUM TRUCK 3/27/205 0 12:45 990 FSC, 610 FEL SEC 25/ 195/296 EDOY (a), Nov #U+1775 82406 MLB WATE & STORING SOSTERS FROM TANKS · GW- 020 OPESAL ISM & 1995 CXCOL 1200X3-100X · WASTE WATER -> LH [WIT UISIT/ #WSECTION @ 16:43 3/23/2005 @ 16:00 CONS + SW PLUME Frommer GAS / Lows OLSA Co. MAPI FM 6 JULY FIELD SYLES

Qo 5-42 TEST O UNDERCHOUND PIPING. (Torment (Such CIP) GNOW RETAINED RESPONSIBILITY Panoy M'Corrum JOHN PRENTS ; 260 /000

NOTICE OF VIOLATION

February , 2005

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Certified Mail Return Receipt:

Gulf Insurance Co. 101 South 4th Street Artesia, NM 88210-2195

Certified Mail Return Receipt:

RE: Wayfarer AIY State # 1, Unit letter P, Section 25, Township 19 South, Range 29 East, API # 30-015-26647

Gulf Insurance Co. Bond No. 58 59 56

Violation of Oil Conservation Division Rules: 19.15.2.50.A NMAC 19.15.3.116 NMAC 19.15.5.306 NMAC 19.15.1.13 NMAC 19.15.3.114.A NMAC

Dear Sirs:

An inspection and investigation of the Yates Petroleum Corporation's (Yates') Wayfarer AIY State # 1, API# 30-015-26647, located in Eddy County, New Mexico revealed numerous violations of Oil Conservation Division (OCD) rules. The investigation and its results are summarized below.

Background

On December 17, 2004, Ms. Becky Hunt of the Department of Interior/Bureau of Land Management notified OCD Deputy Inspector Mike Bratcher that she had received a complaint from Jimmy Richardson. Mr. Richardson, of Richardson Cattle Company, stated that he held the grazing lease for this area and that an oil tank was being drained

into his stock tank. Ms. Hunt's preliminary investigation found the area in question to be land owned by the State of New Mexico.

OCD Investigation

- 1. In response to the complaint from Mr. Richardson, Deputy Inspector Bratcher conducted a site inspection of the Wayfarer AIY State #1 on December 17, 2004, and observed the following:
 - a. The two-phase gas separator associated with the Wayfarer AIY State #1 has a "pop-off" line and a vent line.
 - b. The vent line is a 2" pipe that extends from the separator for a distance of approximately 40 feet.
 - c. The vent line passes through the fence that surrounds the location, and ends in a pasture.
 - d. Liquids had run from the end of the pipe and pooled in a natural depression that runs to a body of fresh water.
 - e. On the day of the site inspection, the visible contamination in the depression was 75 feet from the water line of a playa lake used by livestock and 400 feet from a windmill.
 - g. The Wayfarer AIY State #1 is operated on a plunger lift.
- 2. During his December 17, 2004 inspection, Deputy Inspector Bratcher spoke to a Yates representative at the site who told him the following:
 - a. The vent line had been installed over a year ago. Yates chose to vent the line to the pasture because if the line had vented to the water tank it would have blown out the water.
 - b. The Yates representative estimated that eight to ten barrels of liquids had been released from the line since it was installed.
- 3. During his December 17, 2004 inspection, Deputy Inspector Bratcher told Yates to stop releasing contaminants. Yates shut in the well. It remains shut in.
- 4. On December 20, 2004 Deputy Inspector Bratcher contacted Yates personnel by telephone and confirmed the following:
 - a. The vent line had been installed over a year ago.

- b. A discharge from the vent line would occur three times during each 24-hour period when the plunger lift was operated, and each discharge would last approximately one hour.
- 5. Deputy Inspector Bratcher continued his investigation through OCD records, and established the following:
 - a. Yates is the operator of record for the well and associated facilities identified in this notice.
 - b. Yates had not applied for or obtained a permit to discharge into a pit at the site of the Wayfarer AIY State #1 well.
 - c. Yates had not requested an exception to the no-flare rule for this location, although Yates had requested such exceptions for other locations.
 - d. The first notice of the release provided by Yates to the OCD was a Form C-141 "Release Notification and Corrective Action," dated December 28, 2004 eleven days after Deputy Inspector Bratcher spoke to Yates representatives about the release. The C-141 stated that the vent line released 8-10 barrels of condensate, and that Yates would excavate and remove visibly impacted soil, treat the excavated area and back fill to grade at a later date using clean soil. Yates titled the report a "final report." The OCD did not approve the December 28, 2004 C-141.
 - e. Yates filed a second C-141 with the OCD on January 11, 2005. In that notice, Yates reported the release of 8-10 barrels of condensate over an unknown period of time. Yates stated that it had excavated the area to a depth of 3 ½ to 4 feet, would send the soil to a land farm, and re-fill the area. Yates stated that tests conducted on soil samples on January 11, 2005 found 120 ppm TPH in soil opposite the pit area, and 150 ppm TPH at the end of the pit facing the lake bed. Yates titled the report a "final report."
 - f. By letter dated January 27, 2005, the OCD notified Yates that it had denied the January 11, 2005 C-141 because the samples showed TPH levels to be above acceptable levels for the site. The letter further provided,

"At this time, we are requesting that as soon as weather conditions permit, another sampling event be performed. Samples obtained are to be tested for TPH, Chloride, and BTEX levels. Samples are to be obtained from areas known to be impacted, toward the lake playas to a point where any contaminants are non-detect or until the lake playas is reached. Further remediation actions will be determined based on analyticals of samples obtained."

Violations:

1. OCD Rule 50.A [19.15.2.50.A NMAC], effective February 13, 2004, provides, in relevant part, that "discharge into, or construction of, any pit ... is prohibited absent possession of a permit issued by the division, unless otherwise herein provided or unless the division grants an exemption pursuant to Subsection G of 19.15.2.50 NMAC." OCD Rule 7.P(3) [19.15.1.7.P(3) NMAC] defines "pit" as "any surface or sub-surface impoundment, man-made or natural depression, or diked area on the surface...."

Yates knowingly and willfully violated Rule 50. A by piping discharge from the separator into a natural depression without obtaining a pit permit. This violation continued over a period of approximately one year.

2. OCD Rule 116 [19.15.3.116 NMAC] requires notification to the OCD of any unauthorized release, and requires the responsible person to complete division-approved corrective action for releases that endanger public health or the environment.

A "Minor Release" requires written notice within 15 days. A "Minor Release" is a release of any volume, greater than 5 barrels but not more than 25 barrels; or greater than 50 mcf but less than 500 mcf of natural gases.

A "Major Release" requires both immediate verbal notice and written notice within 15 days. A "Major Release" is defined to include the unauthorized release of any volume which will reach water course, results in substantial damage to property or the environment, or which may with reasonable probability be detrimental to water or cause an exceedance of the standards in Section 19, Subsection B, Paragraphs (1) and (2) or (3) of 19.15.1 NMAC.

Yates knowingly and willfully violated the notice requirements of Rule 116 as to the "Minor Release" of gas by failing to provide the OCD with notice of the unauthorized release of approximately 50 mcf of gas from the vent pipe three times a day for approximately one year.

Whether the release is considered a "Major Release" or a "Minor Release," Yates knowingly and willfully violated the notice requirements of Rule 116 as to the release of liquid wastes by failing to provide the OCD with notice of the unauthorized release of approximately 8-10 barrels of liquids that were allowed to pond, soak into the ground and flow near and toward the surface of water for a period of approximately one year.

Yates has not yet completed OCD-approved corrective action for the release of the liquids.

3. OCD Rule 306 [19.15.5.306 NMAC] provides, in relevant part, "No casinghead gas produced from any well in this state shall be flared or vented after 60 days following completion of the well..."

Yates knowingly and willfully violated Rule 306 by venting over 50 mcf of casinghead gas three times a day for approximately one year. Yates was aware of the requirements of Rule 306 because it has filed applications for exceptions to the rule on other locations, but did not file for an exception for the Wayfarer AIY State #1.

4. OCD Rule 13.A [19.15.1.13.A NMAC] provides that, "the production or handling of crude petroleum oil or natural gas of any type or in any form, or the handling of products thereof, in such a manner or under such conditions or in such amount as to constitute or result in waste is hereby prohibited."

Yates knowingly and willfully violated Rule 13.A by wasting gas through venting a minimum of 150 mcf/day of natural gas for approximately one year

5. OCD Rule 13.B [19.15.1.13.B NMAC] provides that, "All operators ... shall at all times conduct their operations in or related to the drilling, equipping, operating, producing, plugging and abandonment of oil, gas, injection, disposal, and storage wells or other facilities in a manner that will prevent waste of oil and gas, the contamination of fresh waters and shall not wastefully utilize oil or gas, or allow either to leak or escape from a natural reservoir, or from wells, tanks, containers, pipe or other storage, conduit or operating equipment."

Yates knowingly and willfully violated OCD Rule 13.B by

- a. allowing gas and liquids to leak or escape from its operating equipment; and
- b. failing to operate the facility in a manner that will prevent the contamination of fresh waters, because for a period of at least one year it directed discharge from the vent pipe into a depression that runs to a body of fresh water.
- 6. OCD Rule 114.A [19.15.3.114.A NMAC] provides, in relevant part, "...All flowing oil wells must be produced through an oil and gas separator of ample capacity and in good working order."

Yates knowingly and willfully violated Rule 114.A by

- a. utilizing a gas separator that must vent each time the well flows; and
- b. utilizing a gas separator that allows liquids to escape during the flowing period.

Compliance and Enforcement Actions

Yates's conduct warrants issuance of this "Notice of Violation" and assessment of civil penalties pursuant to NMSA 1978, Section 70-2-31(A) for violation of the OCD Rules described above. Section 70-2-31(A) authorizes penalties of up to one thousand dollars

(\$1,000) per day per violation for any knowing and willful violation of any provision of the "Oil and Gas Act" or any rule adopted pursuant to the Act. The statute specifically provides that in the case of a continuing violation, each day shall constitute a separate violation.

In view of the seriousness of these violations, and the continuing nature of these violations, the Artesia District Office of the OCD believes a penalty of \$8,000 and corrective action by Yates are essential. The proposed penalty is based on one violation each of Rule 50.A, Rule 306.A, Rule 13.A and Rule 114.A, two violations of Rule 116 (one violation for failing to notify the OCD of the gas release, and one violation for failing to notify the OCD of the liquid release), and two violations of Rule 13.B (one violation for the allowing gas and liquids to leak or escape from its operating equipment, and one violation for failing to operate the facility in a manner that will prevent the contamination of fresh waters). The corrective action would include remediation of this site and a report from Yates identifying any other Yates wells with separators using vent lines in a similar configuration. Yates will be required to bring those wells into compliance within 90 days.

Unless the matter is satisfactorily resolved at an administrative conference we will request an enforcement hearing before an OCD Hearing Examiner or file suit in District Court, where we will seek a formal order requiring compliance with OCD rules, a civil penalty, and corrective action. Please note that because the rules were actually violated over a period of time, if this matter is litigated, the OCD may seek a penalty greater than the \$8,000 penalty proposed in this notice.

The OCD may request an enforcement hearing before an OCD hearing examiner seeking an order requiring that the Wayfarer AIY State #1 well be plugged and abandoned pursuant to NMSA 1978, § 70-2-14(B). That statute provides:

"If any of the requirements of the Oil and Gas Act or the rules promulgated pursuant to that act have not been complied with, the oil conservation division, after notice and hearing, may order any well plugged and abandoned by the operator or surety or both in accordance with division rules. If the order is not complied with in the time period set out in the order, the financial assurance shall be forfeited."

Please contact this office within ten (10) days to schedule an administrative conference to discuss this matter. OCD legal counsel may be present by telephone for this conference and you may bring legal counsel if you desire. If we do not hear from Yates within ten days, we will schedule the matter for hearing.

If v	von have an	y questions,	von ma	v contact	t me at 505	_	ext	
ш.	you mave an	y questions,	you ma	y Contact	i iiio ai 303		OAL	

MacQuesten, Gail

From:

Barton, Van

Sent:

Monday, March 21, 2005 1:05 PM

To:

MacQuesten, Gail

Subject: FW: Water Well Testing

----Original Message----

From: Lisa Norton [mailto:Inorton@YPCNM.COM]

Sent: Monday, March 21, 2005 12:15 PM

To: Barton, Van

Cc: Gum, Tim; Bratcher, Mike; Dan Dolan

Subject: RE: Water Well Testing

Van.

On March 3 Yates received a letter requesting that a sample be taken from a water well located adjacent to the Wayfarer #1 well on or before March 18, 2005.

I responded to that letter on March 10 asking for two things - first, verification that Jimmy Richardson has legal authority to operate the well and second, an explanation of how you determined that sampling the well was necessary.

Your response dated March 17, 2005 did not provide any useful information to address either question.

The State Engineer's records indicate that a "Declaration of Ownership" was filed in 1950 by Snyder Ranches. They do not have any record of change of ownership of that well.

While Yates continues to believe that its operations have had no impact on the subject water well, we will agree to test the well once you have provided us with documentation from Mr. Richardson that he is the legal owner of the well.

Lisa Norton
Environmental Coordinator
Yates Petroleum Corp.
105 South 4th
Artesia, NM 88210
505-748-4185
505-365-8395 Cell
505-748-4654 Fax
Inorton@ypcnm.com

----Original Message----

From: Barton, Van [mailto:VBarton@state.nm.us]

Sent: Thursday, March 17, 2005 1:34 PM

To: Lisa Norton

Cc: Gum, Tim; Bratcher, Mike; Dan Dolan

Subject: 28 June 2004





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105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (505) 748-1471

SECRETARY DENNIS G. KINSEY TREASURER

S. P. YATES CHAIRMAN OF THE BOARD JOHN A. YATES

PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON

Mr. Tim Gum District II Supervisor, Oil Conservation Division 1301 West Grand Avenue Artesia, NM 88210

Via:

Certified Mail 7004 1160 0005 5321 5220

March 10, 2005

RE:

Wayfarer AIY State #1 NOV 25-19-29 30-015-26647

Request for sampling of windmill

Dear Tim,

Yates Petroleum Corp. (Yates) received a letter dated March 2, 2005 from Van Barton (OCD Field Representative II) requesting that a water well adjacent to the above location be sampled. Yates has questions that will require clarification prior to scheduling the test.

First, the letter indicated that Jimmy Richardson would operate the well for the test. Apparently, Mr. Richardson has represented to you and others that he is the owner of the well. However, upon contacting the State Engineer's Office to obtain information on the well, Yates was told that the permit is held by Snyder Ranches. Yates requests your verification that Mr. Richardson does, in fact, have legal authority to operate the well.

Second, it is not clear to Yates on what basis you determined that sampling the well is necessary. The relatively small amount of liquids accidentally released and the information derived from the soil sampling and field investigation thus far does not seem to warrant sampling a well with groundwater at approximately 120 feet. Would you please explain why you believe that this information is necessary or would be useful? In addition, Yates requests any information that you may have on other operations that might be in the area that potentially could impact this well.

While Yates does not believe that its operations have impacted the water well, we have arranged to have the well sampled by Mr. David Boyer, P.G., Hydrogeologist, with Safety and Environmental Solutions once the above questions are answered.

If you have questions or need additional information, I can be reached at 505-748-4185.

Sincerely,

The second s

Environmental Coordinator

Cc:

Eric Hiser Bill Carr Chuck Moran

Gail Macquesten, OCD Santa Fe

A ... Well Reports and Downloads Township: 198 Range: 29E Sections: 25 NAD27 X: **Y**: Zone: Search Radius: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic O All Water Column Report Well / Surface Data Report Avg Depth to Water Report Clear Form WATERS Menu Help

WELL / SURFACE DATA REPORT

SNYDER RANCHES

03/18/2005

Well Number

CP 00821

(quarters are 1=NW

(quarters are bigg

Tws

195

Source

New Mexico Office of the State Engineer

Record Count: 1

DB File Nbr

CP 00821

(acre ft per annum)

Use

STK

Diversion Owner

Back

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

Zone

CP 00821

Tws Rng Sec q q q

Y

POD Number CP 00821

19S 29E 25 4 4

Driller Licence:

Driller Name:

Drill Start Date:

Log File Date: Pump Type:

Casing Size:

Depth Well: 120

Source:

Drill Finish Date:

PCW Received Date:

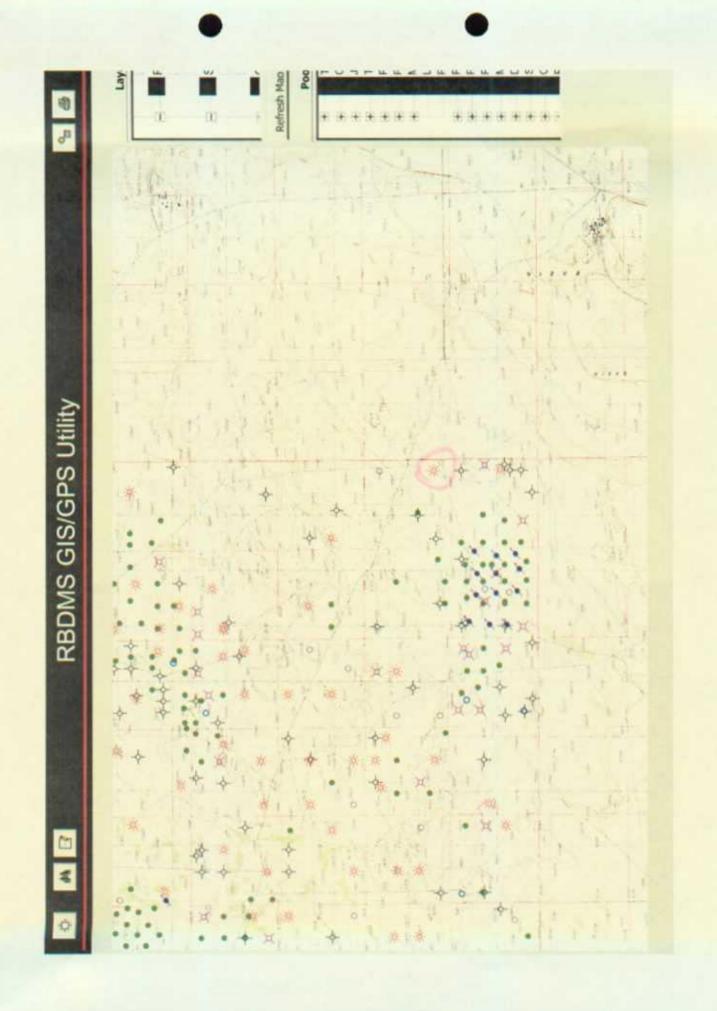
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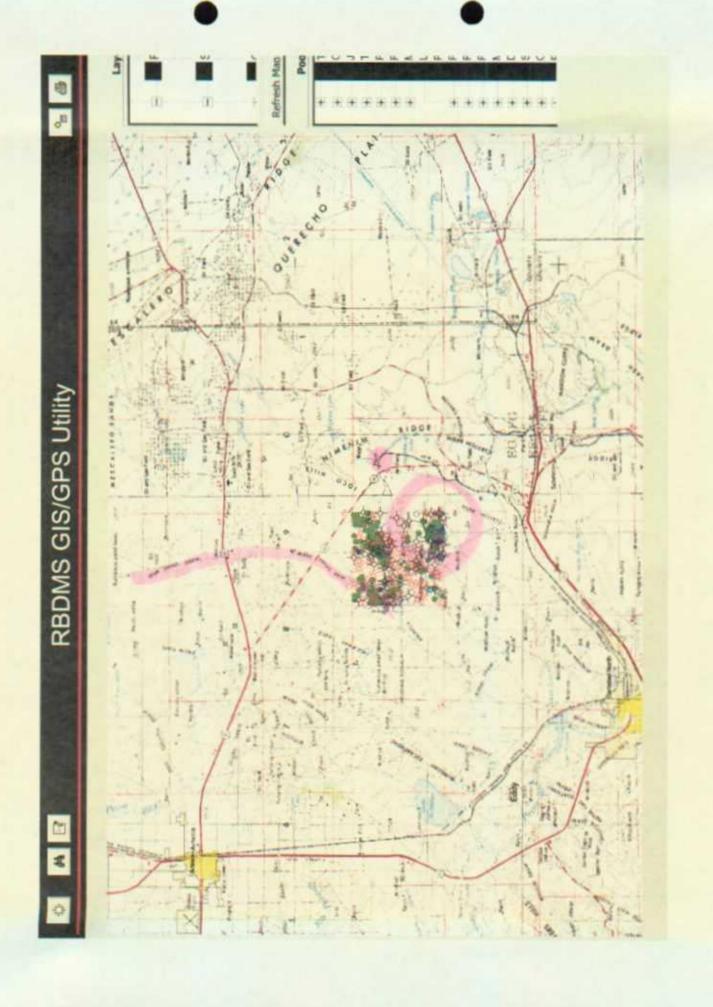
Pipe Discharge Size:

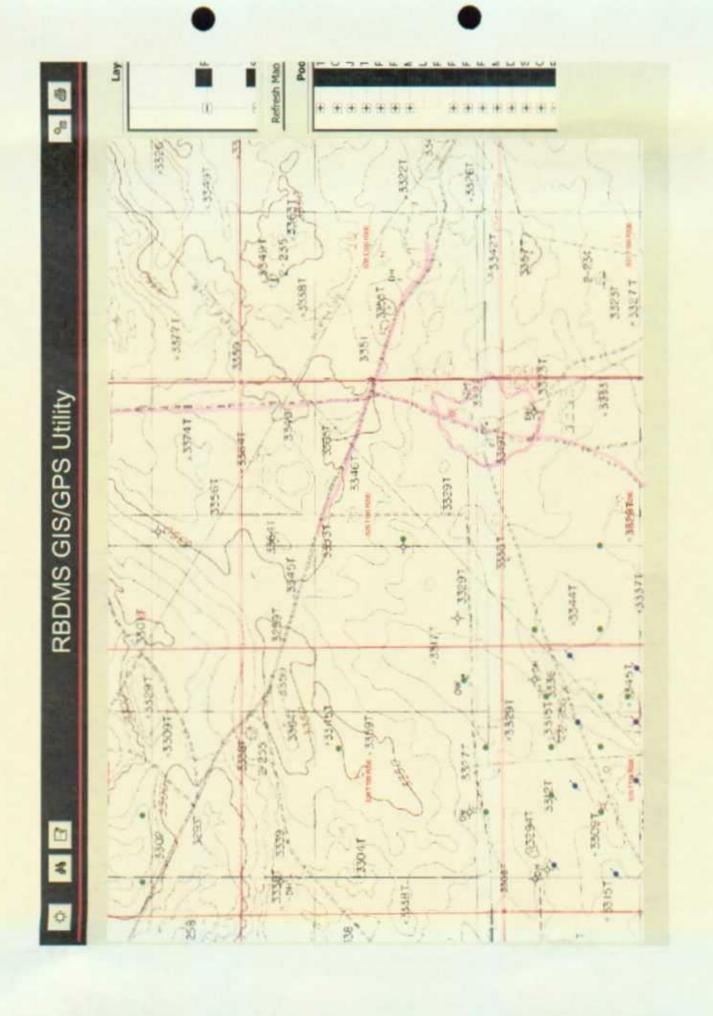
Estimated Yield:

Depth Water:









Price, Wayne

From:

Sanchez, Daniel

Sent:

Thursday, March 17, 2005 3:06 PM

To:

Price, Wayne

Subject:

FW:

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brought about the Yates

р

N.O.V. Something to look at before tomorrows meeting with Mark.

----Original Message----

From: Barton, Van

u

Sent: Thursday, March 17, 2005 2:22 PM

To: Sanchez, Daniel

Subject: FW:

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----Original Message----

From: Barton, Van

Sent: Friday, January 28, 2005 3:29 PM

To: Sanchez, Daniel

Subject:

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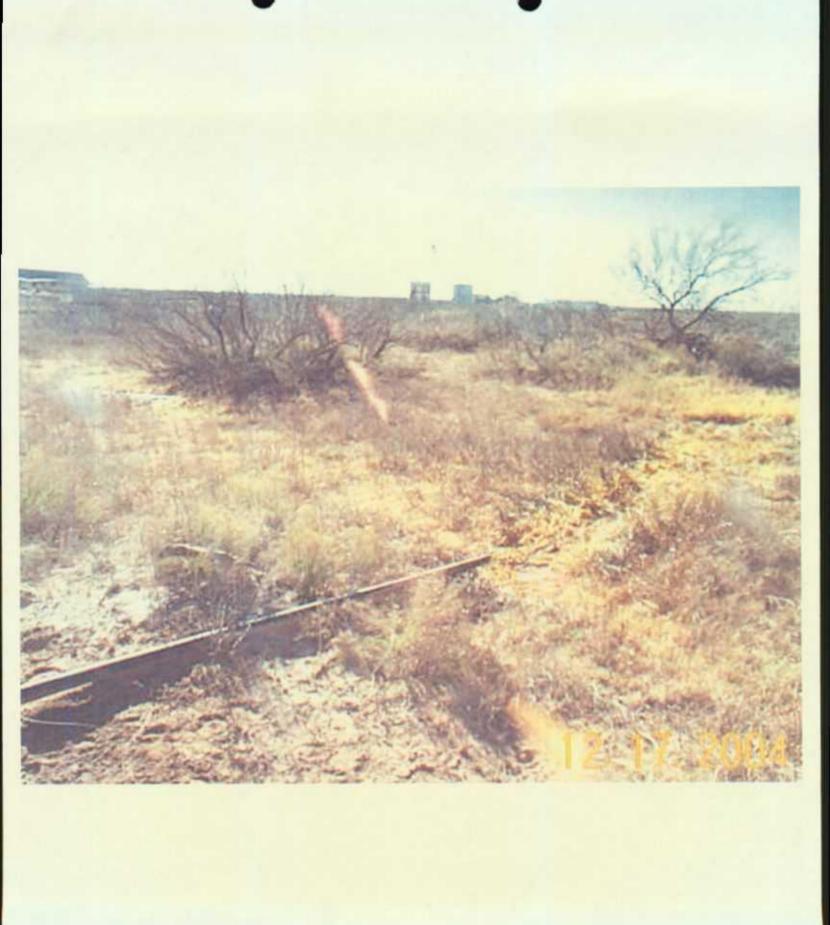


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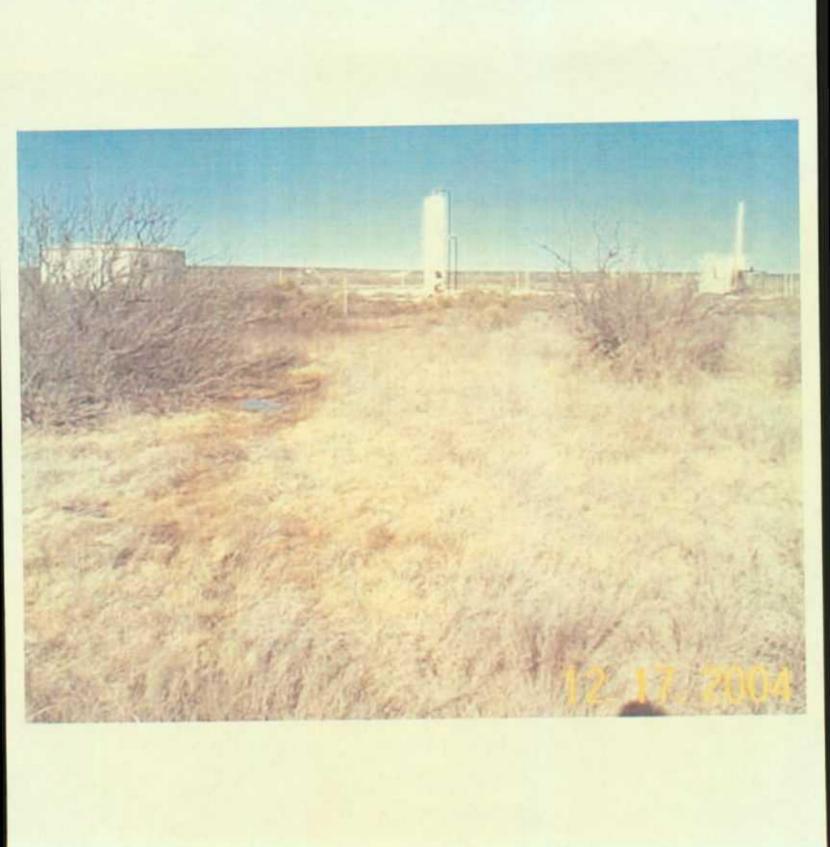




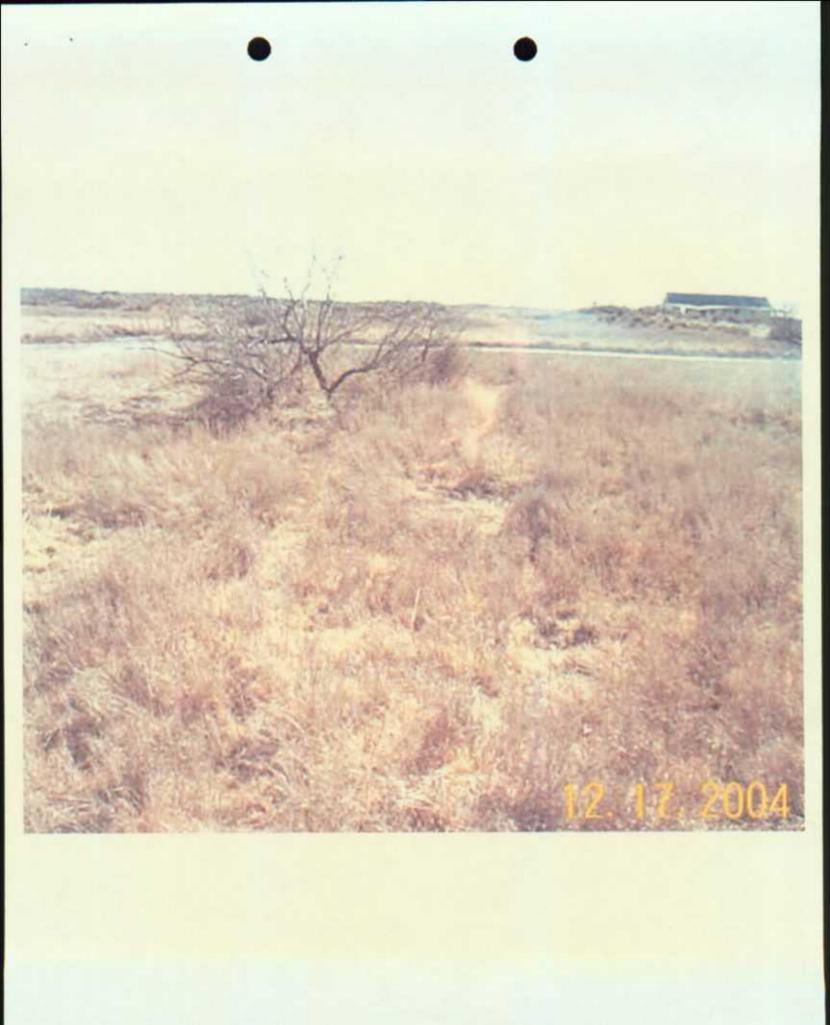






















An I

25 N. French Dr., Hobba, NM 88240

25 N. French Dr., Hobba, NM 88240

2301 W. Crimid Avorius, Arteria, NM 88210

District III

1000 Rio Brazos Road, Arter, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fa, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised Ostober 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 1 16 on back
side of furm

30-015-	2664	7	Rele	ease Notific	cation	n and Co	rrective A	ctio	n			
						OPERA				tial Report	X Final Repo	
Name of Company Yates Petroleum Corporation						Contact Dan Dolan						
Address 105 South 4th Street, Artesia, N.M. 88210						Telephone No. 505-748-1471						
		rer "AIY" #I				Facility Typ	e Tank Battery					
Surface Ow	ncr State			Mineral (Owner	r Leuse No.						
				LOC	ATIO	OF RE	LEASE					
Unit Letter P	Section 25	Township 193	Range 29e	Feet from the 990'		South Line	Fost from the 660'	Enst/West Line Rest		County Rddy	:	
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Type of Rela						Volume of Release 8-10 bbls Volume Recovered 0						
		ine from sepa	rator.			Date and Hour of Occurrence UK Date and Hour of Discovery 12/17/2004						
Was Immediate Notice Given? Yes No X Not Required												
By Whom?						Date and Hour						
Was a Watercourse Reached? Yes XNo						If YES, Volume impacting the Watercourse.						
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Signature:						OIL CONSERVATION DIVISION						
Printed Name: Dan Dolan						Approved by District Supervisor:						
Title: Unviron	Title: Environmental Regulatory Agent						x #	انزز	Expiration I	Oute:		
E-mail Addre	ss: ddolan@	lypcnm.com			°	Conditions of Approval:						
Date: /-/	1-05 ional Shee	ts If Necessa	Phone: 50	5-748-4181								

MARTIN VATES, 18 1812 - 1985 FRANK W. YATES



105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (505) 748-1471

S. P. YATES RMAN OF THE BOX JOHN A. YATES
PRESIDENT PEYTON YATES RANDY & PATTERSON SECRETARY DENNIS G. KINSEY

I certify that on 1-11-05, a test	was conducted on a soil sample from the
e. Alembara a SS .	, using EPA test Method 9074, and a Dexil
Petro-FLAG test unit.	, • =
The results of that test were	ppm TPH
COMPOSITE OP FIT M	This D

Daniel W. Dolan CWC

Environmental Regulatory Agent

P. 04

MARTIN YATES. II) 1912 - 1965 FRANK W. YATES 1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOAID
JOHN A. VATES
PRESIDENT
PREYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY

I certify that on 1-11-05, a test was conducted on a soil sample from the

wayfazza Ply , using EPA test Method 9074, and a Dexil

Petro-FLAG test unit.

The results of that test were 150 TPM ppm TPH

Daniel W. Dolan CWC

Environmental Regulatory Agent



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Yates Petroleum Corp. 105 S. 4th St Artesja, NM 88210 January 27,2005

Reference: Wayfarer AIY 001

P-25-19s-29e

API: 30-015-26647

Operator,

This office is in receipt of a Final Report C-141 regarding a release that occurred over an undetermined period at the above referenced well site. The C-141 is being denied at this time due to the following:

Samples obtained and field tested on 1/11/05 shows TPH levels to be above recommended action levels for this site.

At this time, we are requesting that as soon as weather conditions permit, another sampling event be performed. Samples obtained are to be tested for TPH, Chloride, and BTEX levels. Samples are to be obtained from areas known to be impacted, toward the lake playas to a point where any contaminants are non-detect or until the lake playas is reached. Further remediation actions will be determined based on analyticals of samples obtained.

Please contact this office 24 hours prior to any samples being obtained or remediation work performed.

Thank you

Mike Bratcher Compliance Officer NMOCD District 2

1301 W. Grand Ave. Artesia, NM 88210 (505) 748-1283 Ext 108

(505) 626-0857

mbratcher@state.nm.us