



9 June 2004 File No. VT960093

Mr. Gary Thurston Rice Oil Company, Inc. P.O. Box 1497 34 Montaque City Road Greenfield, Massachusetts 01301

> Re: Londonderry Citgo Londonderry, Vermont

#### Dear Mr. Thurston:

Enclosed are the annual sampling results for water samples collected by ECS on 16 March 2004 from 9 supply wells located within 1,000 feet of the Londonderry Citgo Gasoline Station in Londonderry, Vermont, as shown on Figure 1 in red. Groundwater sample results for the monitoring wells sampled semi-annually in March 2004 as well as the Main Supply Well, and Thorne-Thompsen well sampling results were reported under separate cover and have been recently submitted, however, the laboratory results are also included in this report. Supply well owners that were sampled were sent a copy of their analytical results 19 May 2004.

#### RESULTS

Volatile petroleum compounds (VOCs) were detected in one of the 9 supply wells of sampled. Methyl tert butyl ether (MTBE) and toluene was detected at 22.1 micrograms per liter ( $\mu$ g/L), in the Rogers' supply well which is below the Vermont Health Advisory¹ (VHA) of 40  $\mu$ g/L. Mr. Tim Cropley of the Vermont Department of Environmental Conservation (VTDEC) was notified once ECS reviewed the analytical results. MTBE was also detected in the Rogers' supply well during the 2003 annual sampling at 1.4  $\mu$ g/L. The rest of the residential supply wells (eight) were below analytical method detection limits for VOCs. The Rogers' supply well will be resampled during the June quarterly sampling and O&M for confirmation. Analytical results are attached and also summarized in Table 1.

Prior to all sample collections, the water was allowed to run for approximately 15 minutes to purge water from the wells and pressure tanks and facilitate communication with the bedrock aquifer. The supply well samples were transported under chain of custody in an ice-filled cooler to Endyne, Inc. of Williston, Vermont, where they were analyzed for the possible presence of volatile petroleum compounds by EPA Method 8021b. No VOCs were detected in the trip blank.

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<sup>&</sup>lt;sup>1</sup> Vermont Health Advisory (VHA): Established by the Vermont Department of Health (10/2000); guidelines for risk-based assessment for chemicals that do not have federal standards.

9 June 2004 Page 2

Please contact me if you have any questions regarding the enclosed analytical results.

Sincerely,

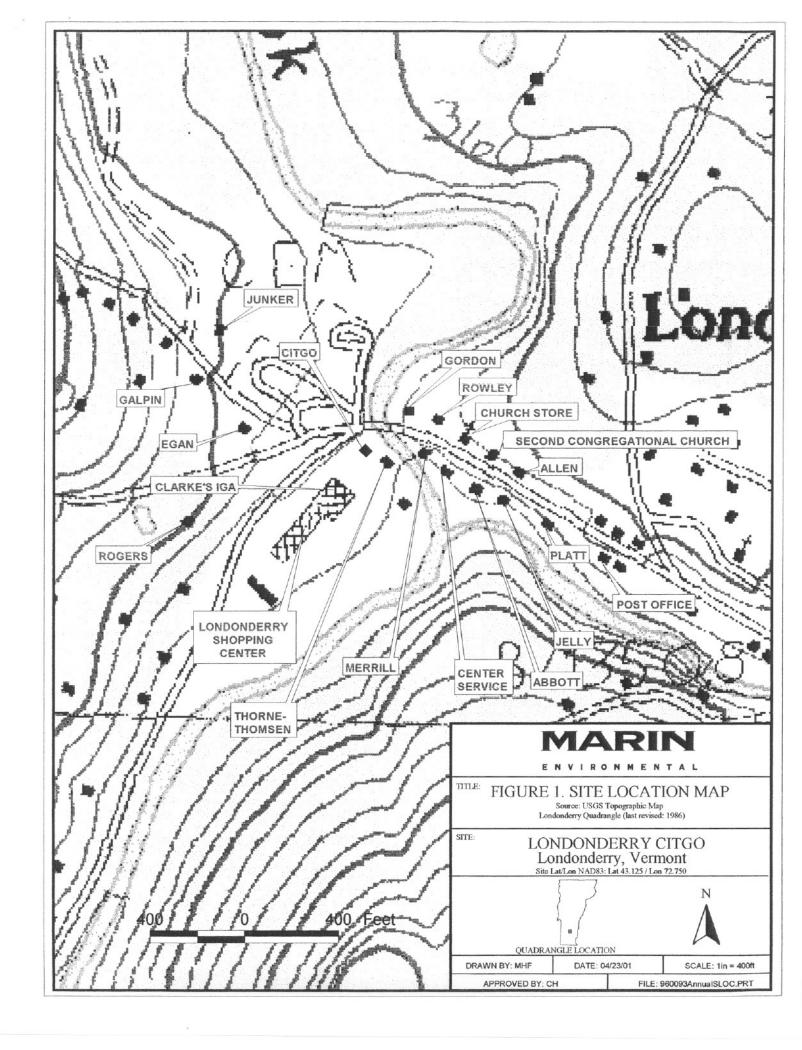
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Jaymi Cleland Project Geologist

Enclosures

Cc: Mr. Tim Cropley, VT DEC

Mr. Robert Waite, Londonderry Ventures



#### TABLE 1

Drinking-Water Analytical Results
Londonderry Citgo
Londonderry Center, Vermont
Monitoring Date:
16 March 2004

Supply Well	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	1,3,5 -TMB	1,3,5 -TMB	Naphthalene
Shopping Center Main									
- system influent	27.7	ND <1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
- system mid	28.9	ND <1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
- system effluent	16.9	ND <1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Thorne-Thomsen - system influent	NS	NS	NS	NS	NS	NS	NS	NS	NS
- system mid	NS	NS	NS	NS	NS	NS	NS	NS	NS
- system effluent	NS	NS	NS	NS	NS	NS	NS	NS	NS
Center Service (SUNOCO)	NS	NS	NS	NS	NS	NS	NS	NS	NS
Merrill	NS	NS	NS	NS	NS	NS	NS	NS	NS
Jelly's (Mobil)	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Second Congregational Church	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Kroos House	NS	NS	NS	NS	NS	NS	NS	NS	NS
Church Store	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Egan	NS	NS	NS	NS	NS	NS	NS	NS	NS
Rowley	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Junker	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Galpin	NS	NS	NS	NS	NS	NS	ND <1	ND <1	ND <1
Rogers	22.1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
*P.O. Building	NS	NS	NS	NS	NS	NS	NS	NS	NS
Allen	NS	NS	NS	NS	NS	NS	NS	NS	NS
Platt	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Abbott	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
Gordon	ND <1	ND < 1	ND <1	ND <1	ND <2	ND	ND <1	ND <1	ND <1
MCL		5	1,000	700	10,000				
VHA	40						5	4	20
VAL		1							

#### Notes:

Results given in parts per billion (ppb).

NS - Not sampled, could not contact owner for access.

ND - None detected at indicated detection limit.

TBQ - Trace below quantitation limit indicated.

All samples collected by ECS and analyzed by Endyne, Inc.

MCL - Enforceable U.S. EPA Maximum Contaminant Levels for chemicals of concern in drinking water.

VHA - Vermont Health Advisories - guidelines for concentrations of chemicals in drinking water that do not have MCLs.

VAL - Vermont Action Levels for eight chemicals of specific health concern in public water systems, established by the Vermont Dept. of Health.

ECS reswells.xls



#### LABORATORY REPORT

Laboratory Services

160 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

**ECS Marin** 

65 Millet Street

Richmond, VT 05477

Attn: Jaymi Cleland

PROJECT: Londonderry Citgo/960093

**ORDER ID: 28388** 

RECEIVE DATE: March 17, 2004

REPORT DATE: April 20, 2004

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Different groups of analyses may be reported under separate cover.

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which include matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits, unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D. Laboratory Director

enclosures



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#### LABORATORY REPORT

PROJECT: Londonderry Citgo/960093 DATE RECEIVED: March 17, 2004

REPORT DATE: April 20, 2004

ANAL. METHOD: SW 8021B

SAMPLER: BB/RK ANALYST: 420

Site: MW-7 Ref. Number: 227026 Date Sampled: 3/16/04 Time Sampled: 11:45 AM Analysis Date: 3/24/04		Site: MW-S2 Ref. Number: 227029 Date Sampled: 3/16/04 Time Sampled: 1:10 PM Analysis Date: 3/24/04		Site:         SP-2           Ref. Number:         227032           Date Sampled:         3/16/04           Time Sampled:         12:15 PM           Analysis Date:         3/24/04	
<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	19.4	MTBE	16.5	MTBE	125.
Benzene	< 1.0	Benzene	< 1.0	Benzene	< 5.0
Toluene	< 1.0	Toluene	< 1.0	Toluene	10.2
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0	Ethylbenzene	104.
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0	Xylenes, Total	88.5
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	25.1
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	200.
Naphthalene	< 1.0	Naphthalene	< 1.0	Naphthalene	30.2
UIP's	0.	UIP's	0.	UIP's	> 10.
Surrogate 1	105.%	Surrogate 1	117.%	Surrogate 1	103.%
Site: MW-3 Ref. Number: 227027 Date Sampled: 3/16/04 Time Sampled: 11:50 AM Analysis Date: 3/24/04		Site: MW-8 Ref. Number: 227030 Date Sampled: 3/16/04 Time Sampled: 12:29 PM Analysis Date: 3/25/04		Site: Dup Ref. Number: 227033 Date Sampled: 3/16/04 Time Sampled: 12:30 PM Analysis Date: 3/24/04	
Parameter	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	1.5	MTBE	178.	MTBE	178.
Benzene	< 1.0	Benzene	12.6	Benzene	13.3
Toluene	< 1.0	Toluene	16.9	Toluene	15.8
Ethylbenzene	< 1.0	Ethylbenzene	217.	Ethylbenzene	203.
Xylenes, Total	< 2.0	Xylenes, Total	294.	Xylenes, Total	265.
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	184.	1,3,5 Trimethyl Benzene	169.
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	360.	1,2,4 Trimethyl Benzene	325.
Naphthalene	< 1.0	Naphthalene	77.2	Naphthalene	89.6
UIP's	0.	UIP's	> 10.	UIP's	> 10.
Surrogate 1	107.%	Surrogate 1	113.%	Surrogate 1	103.%
Site: MW-S3 Ref. Number: 227028 Date Sampled: 3/16/04 Time Sampled: 1:20 PM Analysis Date: 3/24/04		Site: SP-1 Ref. Number: 227031 Date Sampled: 3/16/04 Time Sampled: 11:15 AM Analysis Date: 3/25/04		Site: Trip Ref. Number: 227034 Date Sampled: 3/16/04 Time Sampled: 7:00 AM Analysis Date: 3/24/04	
<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	8.8	MTBE	258.	MTBE	< 1.0
Benzene	< 1.0	Benzene	105.	Benzene	< 1.0
Toluene	< 1.0	Toluene	13.3	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 4.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 8.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 4.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	7.5	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 4.0	Naphthalene	< 1.0
UIP's	0.	UIP's	> 10.	UIP's	0.
Surrogate 1	106.%	Surrogate 1	100.%	Surrogate 1	108.%



160 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

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PROJECT: Londonderry Citgo/960093

DATE RECEIVED: March 17, 2004

REPORT DATE: April 20, 2004

ANAL. METHOD: SW 8021B

SAMPLER: BB/RK ANALYST: 420

Site: Rowley Ref. Number: 227035 Date Sampled: 3/16/04 Time Sampled: 12:00 PM Analysis Date: 3/24/04		Site: Junker Ref. Number: 227038 Date Sampled: 3/16/04 Time Sampled: 10:55 AM Analysis Date: 3/25/04		Site: Platt Ref. Number: 227041 Date Sampled: 3/16/04 Time Sampled: 9:25 AM Analysis Date: 3/25/04	
<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	< 1.0	MTBE	< 1.0	MTBE	< 1.0
Benzene	< 1.0	Benzene	< 1.0	Benzene	< 1.0
Toluene	< 1.0	Toluene	< 1.0	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 1.0	Naphthalene	< 1.0
UIP's	0.	UIP's	0.	UIP's	0.
Surrogate 1	107.%	Surrogate 1	109.%	Surrogate 1	112.%
Site: 2nd Cong. Church Ref. Number: 227036 Date Sampled: 3/16/04 Time Sampled: 10:17 AM Analysis Date: 3/25/04		Site: Rogers Ref. Number: 227039 Date Sampled: 3/16/04 Time Sampled: 11:10 AM Analysis Date: 3/25/04		Site: Gordon Ref. Number: 227042 Date Sampled: 3/16/04 Time Sampled: 11:46 AM Analysis Date: 3/25/04	
<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	< 1.0	MTBE	22.1	MTBE	< 1.0
Benzene	< 1.0	Benzene	< 1.0	Benzene	< 1.0
Toluene	< 1.0	Toluene	< 1.0	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 1.0	Naphthalene	< 1.0
UIP's	0.	UIP's	0.	UIP's	0.
Surrogate 1	108.%	Surrogate 1	112.%	Surrogate 1	107.%
Site: Church Store Ref. Number: 227037 Date Sampled: 3/16/04 Time Sampled: 10:07 AM Analysis Date: 3/25/04		Site: Jelly Ref. Number: 227040 Date Sampled: 3/16/04 Time Sampled: 9:37 AM Analysis Date: 3/25/04		Site: Abbott Ref. Number: 227043 Date Sampled: 3/16/04 Time Sampled: 9:55 AM Analysis Date: 3/25/04	
<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L	<u>Parameter</u>	Results ug/L
MTBE	< 1.0	MTBE	< 1.0	MTBE	< 1.0
Benzene	< 1.0	Benzene	< 1.0	Benzene	< 1.0
Toluene	< 1.0	Toluene	< 1.0	Toluene	< 1.0
Ethylbenzene	< 1.0	Ethylbenzene	< 1.0	Ethylbenzene	< 1.0
Xylenes, Total	< 2.0	Xylenes, Total	< 2.0	Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0	1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0	1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0	Naphthalene	< 1.0	Naphthalene	< 1.0
UIP's	0.	UIP's	0.	UIP's	0.
Surrogate 1	108.%	Surrogate 1	111.%	Surrogate 1	112.%



160 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

#### LABORATORY REPORT

PROJECT: Londonderry Citgo/960093 DATE RECEIVED: March 17, 2004

REPORT DATE: April 20, 2004

Site: Shoppi	ng Center System Eff
Ref. Number:	227044
Date Sampled:	3/16/04
Time Sampled:	12:45 PM
Analysis Date:	3/25/04
Parameter	Results ug/L

<u>Parameter</u>	Results ug/L
MTBE	16.9
Benzene	< 1.0
Toluene	< 1.0
Ethylbenzene	< 1.0
Xylenes, Total	< 2.0
1,3,5 Trimethyl Benzene	< 1.0
1,2,4 Trimethyl Benzene	< 1.0
Naphthalene	< 1.0
UIP's	0.
Surrogate 1	108.%

Ref. Number:	227045	
Date Sampled:	3/16/04	
Time Sampled:	12:50 PM	
Analysis Date:	3/25/04	
Parameter		Results ug/L
MTBE		28.9
Benzene		< 1.0
Toluene		< 1.0
Ethylbenzene		< 1.0

Shopping Center System Mid

Site:

Xylenes, Total < 2.0 1,3,5 Trimethyl Benzene < 1.0 1,2,4 Trimethyl Benzene < 1.0 Naphthalene < 1.0 UIP's 0. 105.% Surrogate 1

ANALYST: 420

SAMPLER: BB/RK

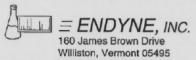
# = ENDYNE, INC. 160 James Brown Drive

# CHAIN-OF-CUSTODY-RECORD

Williston, Vermont 05495

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34 Other																			



# CHAIN-OF-CUSTODY-RECORD

FOF40

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	Platt						0925									
	Gordon	1					1146									
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5 Nitrate N		0 Alkalinity		Conductivity	20		10/8020	25		B/N or Acid	30		-			
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32 TCLP (S	Specify: vo	latiles, semi-vo	olatiles, m	etals, pestic	ides, h	erbic	ides) 33									
34 Other													1			



160 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

#### LABORATORY REPORT

**ECS Marin** 

65 Millet Street

Richmond, VT 05477

Attn: Jaymi Cleland

PROJECT: Londonderry Citgo/960093

ORDER ID: 28393

RECEIVE DATE: March 17, 2004

REPORT DATE: April 20, 2004

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Harry B. Locker, Ph.D. Laboratory Director

enclosures



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## LABORATORY REPORT

CLIENT: ECS Marin

PROJECT: Londonderry Citgo/960093

REPORT DATE: April 20, 2004

ORDER ID: 28393

DATE RECEIVED: March 17, 2004

SAMPLER: BB/RK

ANALYST: 420

Ref. Number: 227057	Site: System Effluent		Date Sampled: March 16, 2004	Time: 2:55 PM		
<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	Method	Analysis Date		
MTBE	27.7	ug/L	SW 8021B	3/23/04		
Benzene	< 1.0	ug/L	SW 8021B	3/23/04		
Toluene	< 1.0	ug/L	SW 8021B	3/23/04		
Ethylbenzene	< 1.0	ug/L	SW 8021B	3/23/04		
Xylenes, Total	< 2.0	ug/L	SW 8021B	3/23/04		
1,3,5 Trimethyl Benzene	< 1.0	ug/L	SW 8021B	3/23/04		
1,2,4 Trimethyl Benzene	< 1.0	ug/L	SW 8021B	3/23/04		
Naphthalene	< 1.0	ug/L	SW 8021B	3/23/04		
UIP's	0.		SW 8021B	3/23/04		
Surrogate 1	81.%	%	SW 8021B	3/23/04		

# = ENDYNE, INC. 160 James Brown Drive Williston, Vermont 05495

# CHAIN-OF-CUSTODY-RECORD

58794

filliston, Vermont 05495 602) 879-4333 Special Reporting Instructions:\_\_\_\_\_

	(802)	879-43	33			Specia	Repor	ting Ins	truc	tions:									
Pr	oject Nam	ie:		Sr.			Rej	porting	Ad	ldress: 73M	rllo	et	st.		В	Billing Address:	Sano		
	endon		Y							12,51	im	con	d, VE		$\perp$		JAN E		
	idyne Orde		1	To a	-	↓ -O		mpany		25			,		S	ampler Name: Bria	mBachma	ann/Rand	iol/Ce
(L	ab Use On	ıly)	6	38393	\ <b>+</b>	-1 -S	Co	ntact I	Vam	eland   80	20.4	_>	NACE		P	hone #: 8005700		-	
	-12.330F3s - <b>T</b>	- 1,575,05	200		.4, -14, -1		1000		C	Jame 1 De	The second	**950	TOTAL CONTRACTOR	el vigis	V. Sec	005700		Transcript I	
	Ref# Use Only)		Sa	mple Identification	trii) Nela	Ma	ıtrix	R A B	M P	Date/Time			e Containers		Fie	ld Results/Remarks	Analysis Required	Sample Preservation	Rush
System eff					143.55	l'al	6W /		Р	-1111-111-1				Type/Size		Bala Mikobis B <u>aji</u>	e Desire Endough	1 1 1 1 1 1 1 1 1 1 1 1	4.34.24.
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1	San 7	Be	1	7/6		700	(	as	)	3/17/04	/	9	152Am		,	I love	1 (1)	1:00	
Na	w Vaula Ca	D.		V N-		700	Da	quest	ad.	Analyses								AB USE ONLY	
INE	w York St	ate Proj	_		11			1	_			_		п		U	Delivery:		
1	pН		6	TKN	11	Total Sol	ids	16	-	ulfate	21	-	64 TPH/FOG	_	26	8270 PAH	Temp:	3.6°C	
2	Chloride		7	Total P	12	TSS		17	+-	coliform (Specify)	22	+	15 GRO	_	27	PP13 Metals	-	Comment:	
3	Ammonia N	И	8	Total Diss. P	13	TDS		18	C	OD	23	80	15 DRO		28	RCRA8 Metals			
4	Nitrite N		9	BOD	14	Turbidity		19	80	021B	24	82	260/8260B	_	29				
5	Nitrate N		10	Alkalinity	15	Conducti	vity	20	80	010/8020,	25	82	270 B/N or Acid		30				
31	Metals (A	As Is, To	tal, [	Diss.) Ag, Al, As	, В, І	Ba, Be,	Ca, Co	d, Co,	Cr,	Cu, Fe, Hg, K,	Mg,	Mn	, Mo, Na, Ni	, Pb,	Sb,	Se, TI, V, Zn			
32	TCLP (S	pecify:	vola	tiles, semi-volat	iles, 1	metals,	esticio	des, he	erbi	cides) 33									
34	Other			iii													1		
	1																		