

Travis/Peterson Environmental Consulting, Inc.

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October 9, 2008 1197-02

# **RECEIVED**

OCT 1 4 2008

Seekins Ford-Lincoln-Mercury, Inc. 1625 Seekins Ford Drive Fairbanks, Alaska 99701

CONTAMINATED SITES FAIRBANKS

Attention:

Al Haynes-Service Manager

Re:

Groundwater Sampling, September 16, 2008, ADEC File No. 100.26.131

Dear Mr. Haynes:

Travis/Peterson Environmental Consulting, Inc. (TPECI) is pleased to present our letter report summarizing data obtained from the groundwater sampling event conducted on September 16, 2008 at Seekins Ford-Lincoln-Mercury (Figures 1 and 2). The purpose of sampling is to develop sufficient information about the site to initiate a long term monitoring plan and achieve site closure.

On September 16, 2008, monitoring wells MW-1, MW-6, and GWP-2 were sampled (see maps in Attachment 1). The sample labeled MW-12 is a duplicate of MW-6. The groundwater samples were submitted to Test America for laboratory analysis by the following methods:

- Gasoline range organics (GRO) by method AK101
- Diesel range organics (DRO) by method AK102 DRO; and
- Volatile Organic Compounds by method AK 8260 B.

#### **Groundwater Results**

Depth to groundwater and well depths were measured from the top of each respective well casing prior to sampling (Table 1). The analytical results from the groundwater sampling event and depth to groundwater appear in Table 2. For historic trends in all wells, see Attachment 2. The full laboratory data report is included as Attachment 3.

Table 1. Well Measurements

Well	Depth to Water (ft)	Total Depth (ft)	Stick Up (ft)
MW-1	12.65	24.60	flush mount
GWP-2	13.53	18.60	flush mount
MW-6	12.74	22.10	flush mount

Monitoring well MW-1 had DRO, GRO, benzene, toluene, and ethylbenzene levels above ADEC cleanup levels. Neither of the other two wells sampled had any contaminant above ADEC cleanup levels.

Table 2. Analytical Results

Sample	DRO (mg/L)	GRO (mg/L)	VOC (µg/L)
MW-1	1.68	15.5	2-Butanone: 84.4
			Benzene: 6.32
			Toluene: 1750
			Ethylbenzene: 1080
			m,p-Xylene: 3680
			o-Xylene: 2110
			Isopropylbenzene: 56.0
			1,3,5-Trimethylbenzene: 175
			1,2,4-Trimethylbenzene: 735
			p-Isopropyltoluene: 4.24
Company and the company of the compa	The state of the s	Paral ST - 11 printing - 1 colorange and accommodate - 1 colorange (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Naphthalene: 51.2
GWP-2	ND (< 0.394)	0.053	Trichlorofluoromethane: 5.14
			Toluene: 3.97
			Ethylbenzene: 1.82
			m,p-Xylene: 6.03
		At a second seco	o-Xylene: 3.81
MW-6	ND (< 0.400)	ND (< 0.050)	Trichlorofluoromethane: 3.90
			Toluene: 2.35
			Tetrachloroethene: 3.07
			Ethylbenzene: 1.33
			m,p-Xylene: 3.93
Market & Conference Australia ( ) (1981) 1887 ( ) ( ) ( ) ( ) ( )	The state of the designment of the second section and the second section is a second section of the second section sec	The industrial and place empty, as in discovering the expensional decoration of the second of the se	o-Xylene: 2.42
MW-12	ND (< 0.397)	ND (< 0.050)	Trichlorofluoromethane: 3.57
auf y			Toluene: 1.97
			Tetrachloroethene: 2.71
W			Ethylbenzene: 1.12
			m,p-Xylene: 3.18
O1. T 18	of the state of th	Committee of the commit	o-Xylene: 1.95
Cleanup Level <sup>a</sup>	1.5	1.3	Benzene: 5.0
			Toluene: 1,000
			Ethylbenzene: 700
			Total Xylenes: 10,000
			Naphthalene: 700
			2-Butanone: 22,000 <sup>b</sup>
			Tetrachloroethene: 5.0°
			Isopropylbenzene: 3,650 <sup>b</sup>
			1,3,4-Trimethylbenzene: 1,850 <sup>b</sup>
	e C: Groundwaton		1,2,4-Trimethylbenzene: 1,850 <sup>b</sup>

<sup>&</sup>lt;sup>a</sup>18 AAC 75 Table C: Groundwater Cleanup Levels. Only detected VOCs are listed in the table. Cleanup levels are not established for all VOCs. Measurements exceeding ADEC cleanup levels are indicated in bold type. <sup>b</sup>Other sources. <sup>c</sup>MCL established by the EPA for drinking water.

The only quality assurance/quality control problem identified by the laboratory was the high recovery of one of three surrogates in the MW-1 sample due to matrix effects. This issue is not expected to affect the data usability.

The relative percent difference (RPD) for detected analytes in duplicate pair MW-6 and MW-12 ranged from 9 percent to 21 percent. The data quality objective for precision (RPD < 30 percent) was therefore satisfied.

#### Conclusions

The presence of contamination on site has diminished and TPECI suggests that all wells, except MW-1, GWP-2, and MW-6 be decommissioned. TPECI recommends changing the annual monitoring requirement for this site to sampling MW-1, GWP-2, and MW-6 once every three years. If ADEC approves of this change in the sampling schedule then the next groundwater sampling event will be in 2011.

If you have any questions regarding this report please contact me at (907) 455-7225.

Sincerely,

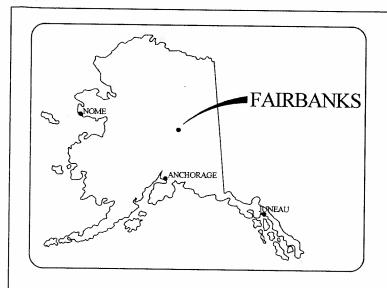
Melissa Shippey Staff Scientist

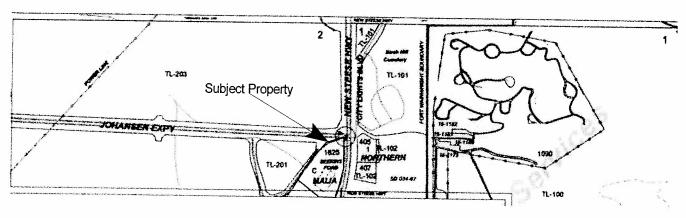
Cc: Tamara Cardona-Marek, ADEC

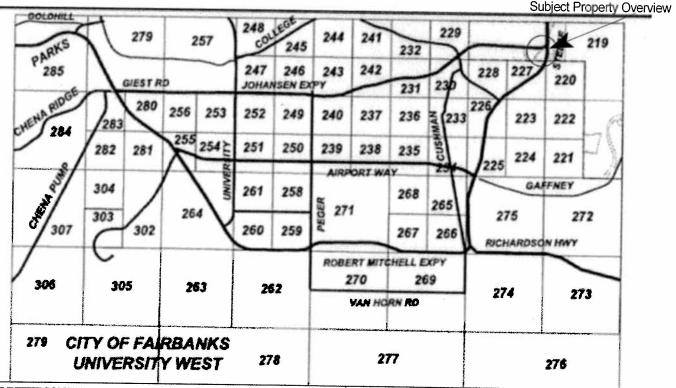
Attachments: Figures

Historical Groundwater Data Laboratory Data Report

# ATTACHMENT 1 FIGURES





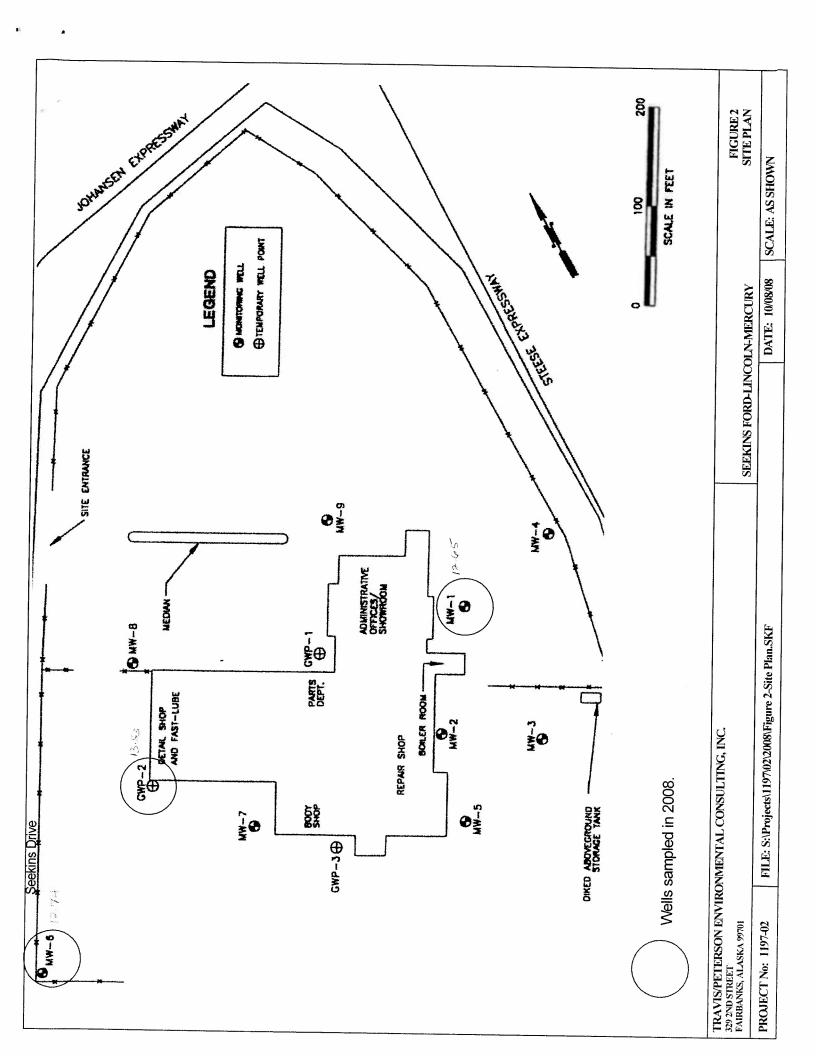


TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 2ND STREET FAIRBANKS, ALASKA 99701

FIGURE 1 SEEKINS FORD-LINCOLN-MERCURY LOCATION & VICINITY

PROJECT No: 1197-02 | FILE: 1197/02/2008/Figure 1-Location & Vicinity.SKF

DATE: 10/09/2008 | SCALE: AS SHOWN



# ATTACHMENT 2 HISTORICAL GROUNDWATER DATA

Well Number ADEC MCL	Date	Distance to Water (In Feet)	Senzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	GRO (µg/L)	DRO (µg/L)	Trichloro- Flouro- methane (ua/L)	inthrene	Fluoranthene (µg/L)	Pyrene (µg/L)	Naphthalene (µg/L)	Acenaph- thylene (µg/L)	1,2,4-TCB (µg/L)	tert-Butyl- benzene (µg/L)	Methyl-t- butyl- ether	Carbor disulfid (µg/L)
(ug/L) MW-1	7/21/1995	14.2	5.0 12,000	1,000 NA	700	10,000	1,300	1,500	**	,000	1,460	1,100	700	2,200	70	N/A	(ua/L) N/A	3,650
	5/1/1996	15.7	7,500	NA	NA NA	NT NT	180 240	5.4	NT ND	NT NT	NT NT	NT	NT NT	NT	ND	ND	ND	ND
	8/7/1996		8,500 11,000	NA NA	NA NA	NT NT	250 330	9.6	NT NT	_NT	NT	NT NT	NT NT	NT NT	ND ND	ND NO	ND ND	ND ND
	5/25/2005 7/17/2006		ND	2.24	NA	317	1,120	0.363	ND	_NT _ND	NT ND	NT ND	NT ND	NT ND	ND ND	ND ND	ND	ND
	9/13/2007	14.74	ND 25.6	755 13,000	368 1,590	1,420 15,670	9,810 47,600	0.843 3,620	ND 1.78	ND NT	ND	ND I	ND	ND	ND	ND	ND ND	ND ND
	9/16/2008	12.65	6.3	1,750	1,080	5,790	15,500	1,680	ND	NT	NT NT	NT NT	76.8 51.2	NT NT	ND ND	ND ND	ND ND	ND ND
MW-2	7/21/1995		ND	ND	ND .	ND	0.15	0.35	6.3	NT	NT	NT	NT	NT				
	5/1/1996 8/7/1996	16.13 15.72	2 ND	ND ND	ND ND	ND DN	0.26	0.74 3.4	ND 8.9	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	ND ND
	11/21/1996		ND ND	ND ND	ND ND	ND	0.105	2.1	7.19	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	7/17/2006	Well was o	bstructed.			ND	ND	QN	ND	_ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	15.18	ND	ND	ND	ND	ND	950	ND	_NT	NT	NT	ND	NT	ND	ND	ND	ND
MW-3	7/21/1995 5/1/1996	13.7 15.18	8 ND	NO	ND ND	ND	2.8	13	6.8	T	NT	NT	NT	NT	ND	ND	ND	
	8/7/1996	14.78	ND	ND I	ND ND	ND ND	0.99	5.4 3.6	ND 14	_1.7 _ND	1.1	0.3	9	ND	ND	ND	ND	ND ND
	11/21/1996 5/25/2005	14.29	ND ND	ND ND	ND 1.59	ND 12.4	0.16 117	5.4 1.05	2.33 ND	0.8	0.1	ND 0.1	8.8 11	0.3	ND ND	ND ND	ND ND	ND ND
	7/17/2006	14.13	ND	ND	ND I	ND	DM	0.583	DN D	_ND	ND ND	ND ND	ND ND	ND	1.59	1.09	ND	ND
duplicate	9/13/2007	14.22 N/A	ND ND	ND 1.94	DN DN	ND 1.26	ND ND	995	ND ND	_NT	NT	NT	4.56	ND NT	ND ND	ND ND	ND ND	1.72 ND
MW-4	7/21/1995	12.93	ND	ND	ND	ND				<u>NT</u>	NT	NT	4.35	NT	ND	ND	ND	ND
	5/1/1996	14.43	ND	ND	ND	ND	ND ND	ND 0.24	ND ND	_NT _NT	NT NT	NT	NT	NT	ND	ND	ND	ND
	8/7/1996 11/21/1996	14.02 14.29	ND ND	ND ND	DN DN	ND ND	ND ND	0.23	ND ND	_NT	NT NT	NT NT	NT NT	NT NT	ND ND	ND ND	ND ND	ND ND
	5/25/2005 7/18/2006	13.36 13.33	ND ND	ND ND	ND ND	ND	ND	ND	DM	_NT _ND	NT ND	NT ND	NT ND	NT ND	DN DN	ND ND	ND ND	ND ND
	9/13/2007	13.5	ND	3.03	ND ND	ND 3.71	ND ND	ND ND	ND ND	_ND _NT	ND	ND	ND	ND	ND	ND	ND	1.33
MW-5	5/1/1996	15.68	2.49	ND	ND	ND	0.17	1.1	ND		NT	NT	ND	NT	ND	ND	ND	ND
	8/7/1996 11/21/1996	15.27	1.24	ND	ND	ND	ND	0.99	ND	-NT -NT	NT NT	NT NT	NT NT	NT NT	ND	ND	ND	ND
	Well Decom		1.05	ND	ND	ND	ND	1	ND	-NT	NT NT	NT	NT NT	NT NT	ND ND	ND ND	ND ND	ND ND
MW-6	5/1/1996	15.78	ND	ND	ND	ND I	0.12	0.94	10.1									-
	8/7/1996 11/21/1996	15.35	ND	ND	ND	ND	ND	0.56	5	_NT _NT	NT NT	NT   NT	NT NT	NT NT	ND	ND	ND	ND
	5/25/2005	15.61 14.63	ND ND	ND ND	ND ND	ND ND	ND ND	0.59 ND	7.45 4.81	_NT	NT	NT	NT	NT	ND ND	ND ND	ND ND	ND ND
	7/14/2005 7/17/2006	13.39 14.64	ND ND	ND ND	ND ND	ND ND	NT	NT	4.7	~ND _ND	ND ND	ND I	ND ND	ND D	ND ND	ND ND	ND ND	ND ND
	9/13/2007	14.8	ND	1.76	ND	ND ND	ND ND	ND 348	4.45 7.96	ND NT	ND NT	ND	ND	ND	ND	ND	ND	ND
plicate	9/16/2008	12.74	ND ND	2.35	1.33	6.35 5.13	ND ND	ND ND	3.9 3.57	NT I	NT	NT NT	ND ND	NT NT	ND ND	ND ND	ND ND	ND ND
MW-7	5/1/1996	16.29								-NT	NT	NT	ND	NT	ND	ND	ND	ND
	8/7/1996	15.86	ND ON	ND ND	DN DN	ND ND	0.26 ND	0.47	13.4   70	-NT	NT	NT	NT	NT	ОИ	ND	ND	ND
	11/21/1996 5/25/2005	16.14 15.28	ND I	ND ND	ND DN	ND ND	ND	0.2	69	-NT -NT	NT NT	NT NT	NT NT	NT NT	ND ND	ND ND	ND ND	ND ND
	7/17/2006	Well was fro	ozen at 6 ft	bgs.			ND	ND	18.6	_ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	15.35	ND	6.52	ND	11.81	DM	326	15.7	NT.	NT	NT	3.5	NT	ND	ND	ND	ND
MW-8	5/1/1996 8/7/1996	16.49 16.04	8.39 1.36	ND	ND	ND	0.35	0.69	16.4	_NT	NT	NT	NT	NT	ND	ND	ND	
	11/21/1996	16.33	ND	ND	DN DN	ND ND	ND ND	0.38	10.8 9.5	-NT -NT	NT	NT	NT	NT	ND I	ND	ND	ND ND
	5/25/2005   Well Decom	15.43   issigned 10/	ND 28/2005	ND	ND	ND	ND	ND	ND	_VD	NT ND	NT ND	NT ND	NT   ND	ND ND	ND ND	ND ND	ND ND
MW-9	5/1/1996	15.95	ND	1.5														
	8/7/1996	15.53	ND	ND D	ND ND	ND ND	0.06 ND	0.84	ND ND	-NT	NT	NT	NT	NT	ND	ND	ND	ND
	11/21/1996 5/25/2005	15.84 15.04	ND ND	ND ND	ND ND	ND ND	ND I	0.68	ND	-NT I	NT NT	NT I	NT NT	NT NT	ND ND	ND ND	ND ND	ND ND
	Well Decomi		28/2005			140	. כועו	DM	ND	-VD	ND	ND	ND	ND	ND	ND	ND	ND
GWP-1	7/21/1995	14.62	1,500	ND	ND	ND	4	0.19	NT									ļ
<del></del>	5/1/1996 8/7/1996	16.11 15.69	117	ND ND	ND	ND	0.34	0.48	ND	-NT -NT	NT NT	NT NT	NT NT	NT NT	ND ND	ND ND	ND DN	ND ND
	11/21/1996	15.97	160	ND	ND ND	ND ND	0.84	0.72	NT NT	-NT -NT	NT	NT	NT	NT	ND	ND	DN DN	ND ND
	5/25/2005 Vell Decomi	15.03 ssioned 10/	ND 28/2005	ND	ND	ND	ND	ND	ND	-ND	NT ND	NT ND	NT I	NT ND	ND	ND ND	ND 5.65	ND
	7/21/1995	15.02	ND	ND	ND	ND												
	5/1/1996	16.54	ND	ND	ND	ND ND	ND ND	ND 0.35	NT 33.4	-NT -NT	NT NT	NT	NT	NT	ND	ND	ND	ND
	8/7/1996 11/21/1996	16.1 16.4	ND DN	ND ND	ND ND	ND ND	ND ND	0.16	NT 44.3	-NT	NT NT	NT TN	NT NT	NT NT	ND ND	ND ND	DN DN	ND ND
	5/25/2005 9/16/2008	15.42 13.53	ND	ND	ND	ND	ND	ND	9.99	-NT -ND	NT ND	NT ND	NT ND	TN DN	ND	ND	ND	ND
			ND	3.97	1.82	9.84	53	ND	5.14,	-NT	NT	NT	ND	NT TN	ND ND	ND   ND	ND DN	ND ND
	7/21/1995 5/1/1996	14.18 15.71	ND ND	ND ND	ND ND	ND ND	ND	ND 0.17	NT	-NT	NT	NT	NT	NT	ND	ND	ND	ND
	8/7/1996	15.31	ND	ND	ND	ND	ND ND	0.17	1.24	-ND -ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/1996 5/25/2005	15.58 15.68	ND ND	ND ND	ND ND	ND ND	ND ND	0.17 ND	2.47 1.18	ND	ND ND	ND DN	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	7/17/2006 9/13/2007	14.67 14.8	ND ND	ND 22.7	ND	ND	ПD	ND	ND	-VD	ND ND	ND ND	ND I	ND ND	ND ND	ND ND	ND	ND
					6.15	43.3	ND	491	1.45	-NT	NT NT	NT	5.89	NT NT	ND	ND ND	ND	ND ND
	5/1/1996 8/7/1996	N/A ] N/A	9,700	ND	ND ND	ND D	220 250	5.6 9.4	ND ND	NT TN	NT	NT	NT	NT	ND	ND	ND	ND
1	11/21/1996 5/25/2005	N/A	ND	ND	ND	ND	0.231	4.8	NT	NT I	NT NT	NT NT	NT NT	NT NT	ND	ND	ND	ND
	7/5/2005	N/A N/A	ND DN	ND ND	ND ND	ND ND	ND D	ND ND	ND 1.72	,VD	ND	ND	ND	ND	ND ND	ND ND	ND	ND ND
	7/17/2006	N/A	ND	ND	ND	ND	ND	ND	4.29	ND ND	ND ND	ND ND	ND ND	ND DN	ND ND	ND DN	ND ND	ND
	NOTES:														140	140	NU	ND
	DCE DCA	dichloroe dichloroe			PCE DCB	tetrachloroeth dichlorobenze		NT ND	Analysis						<del></del>			
	TCE	trichloroe	thene		TCB	trichlorobenze	ene	BOLD	Analyte Analyte det									
	· 16	naximum cor ndicates the l	EPA establis	hed MCL an	TMB   al for this compou	trimethylbenz nd. Found at: http	Therese on	a gov/safa										
		o establishe	O MICE CODIO	pe identified	a for this compoun	<ol> <li>IPECI person</li> </ol>	nei have c	onsulted wit	h ADEC perso	-								
1		ALE HOT TECH	ved a respon	as on wheth	ner an MCL exists	for this compound	đ.											

# ATTACHMENT 3 LABORATORY DATA REPORT

## **Laboratory Data Review Checklist**

Completed by:	Molly Green							
Title:	Staff Scientist							
Date:	October 08, 200	8						
CS Report Name:	Seekins							
Report Date:	October 02, 200	08						
Consultant Firm:	Travis/Peterson	Environmental Consulting, Inc.						
Laboratory Name:	Test America							
Laboratory Report N	umber: ARI00	075						
ADEC File Number:								
ADEC RecKey Numb	per:							
1. <u>Laboratory</u> a. Did an AD  • Yes		d laboratory receive and <u>perform</u> all of the submitted sample analyses?  Comments:						
b. If the samp laboratory,	was the laborate	rred to another "network" laboratory or sub-contracted to an alternate ory performing the analyses ADEC CS approved?  Comments:						
2. Chain of Custody	(COC)							
a. COC infor	mation complete	d, signed, and dated (including released/received by)?  Comments:						

	Yes atory Sample	C No	Comments:
	atory Sample	T	
	atory Sample	D ' (D	
a.		Receipt Docum	nentation
	Sample/cool	er temperature	documented and within range at receipt $(4^{\circ} \pm 2^{\circ} \text{ C})$ ?
	C Yes	• No	Comments:
Те	emp: 0.3 degre	ees C	
b.	Sample prese	ervation accept orinated Solver	table – acidified waters, Methanol preserved VOC soil (GRO, BT ats, etc.)?
general description and state of the special s	• Yes	~ No	Comments:
c.	Sample cond	lition documen	ted – broken, leaking (Methanol), zero headspace (VOC vials)?  Comments:
Go	ood condition		
d.	If there were containers/pr samples, etc.	eservation, san	cies, were they documented? For example, incorrect sample mple temperature outside of acceptable range, insufficient or miss
	Yes	~ No	Comments:
N/	A		
e.	Data quality	or usability aff	ected? Explain. Comments:
ase N	<u>Varrative</u>		
a.	Present and u	ınderstandable'ı	?
	Yes	€ No	Comments:
b.	Discrepancie	s, errors or QC	failures identified by the lab?

4.

			• Yes	r No	Comments:
		c.	Were all con	rrective actions d	locumented?
			Yes	C No	Comments:
		N	o corrective a	ctionmatrix eff	ect.
		d.	What is the	effect on data qu	ality/usability according to the case narrative?  Comments:
	**************************************	M	atrix effect.		
5. <u>s</u>	Sar	npl	es Results		
		a.	Correct anal	yses performed/1	reported as requested on COC?
			• Yes	← No	Comments:
		was substance			
		b.	All applicab	le holding times	met?
			Yes		Comments:
		c.	All soils rep	orted on a dry we	eight basis?
		NON-PERONANCIA (CA	r Yes	← No	Comments:
	L	N/	A		
		d.	Are the repo the project?	rted PQLs less th	nan the Cleanup Level or the minimum required detection level for
			Yes	C No	Comments:
		e.	Data quality	or usability affec	cted? Explain. Comments:
		N/.	A		
6. <u>Ç</u>	<u>)C</u>	Saı	mples		
	i	a.	Method Blan i. One r		ported per matrix, analysis and 20 samples?
			3.00		

	• Yes	~ No	Comments:
	ii. All r <b>⊙</b> Yes	nethod blank resul	ts less than PQL? Comments:
	iii. If ab	ove PQL, what sar	mples are affected?  Comments:
N/A			
	iv. Do tl	he affected sample	(s) have data flags? If so, are the data flags clearly defined?  Comments:
N/A			
	v. Data	quality or usability	y affected? Explain. Comments:
N/A			
b. La	i. Orga	nics – One LCS/Lo	uplicate (LCS/LCSD) CSD reported per matrix, analysis and 20 samples? (LCS/LCSD ds, LCS required per SW846)
	• Yes	C No	Comments:
	ii. Meta 20 sa	ls/Inorganics – one mples?	e LCS and one sample duplicate reported per matrix, analysis and
	Yes	C No	Comments:
	And p	project specified D	recoveries (%R) reported and within method or laboratory limits? QOs, if applicable. (AK Petroleum methods: AK101 60%-120%, 103 60%-120%; all other analyses see the laboratory QC pages)
	• Yes	~ No	Comments:

	iv. Precision – All relative percent differences (RPD) reported laboratory limits? And project specified DQOs, if applicate LCS/LCSD, MS/MSD, and or sample/sample duplicate, all other analyses see the laboratory QC pages)	able. RPD reported from
	Yes No Comments:	
	v. If %R or RPD is outside of acceptable limits, what sampl Comments:	es are affected?
N/A	N/A	
	vi. Do the affected sample(s) have data flags? If so, are the d  Yes No Comments:	ata flags clearly defined?
N/A	N/A	
	vii. Data quality or usability affected? Explain. Comments:	
N/A	N/A	
c. Si	<ul> <li>i. Are surrogate recoveries reported for organic analyses – f samples?</li> <li>Yes © No Comments:</li> </ul>	ield, QC and laboratory
	<ul> <li>ii. Accuracy – All percent recoveries (%R) reported and with And project specified DQOs, if applicable. (AK Petroleur analyses see the laboratory report pages)</li> </ul>	nin method or laboratory limits? n methods 50-150 %R; all other
	C Yes No Comments:	
Surro	Surrogate recovery of Toluene-d8 was 156% in MW-1 due to matrix	x effects
	iii. Do the sample results with failed surrogate recoveries hav flags clearly defined?	re data flags? If so, are the data
	• Yes • No Comments:	
	iv. Data quality or usability affected? Explain.	
Usabi	Usability should not be affected, two other surrogates recovered well ffects.	, high recovery due to matrix

#### Comments:

d. T	Trip blank - Soil	- Volatile analys	es only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water	er and
-		trip blank repor	ted per matrix, analysis and cooler?	
	• Yes	C No	Comments:	
prost discission a planta and a second				
	ii. All r	esults less than	PQL?	
	Yes	← No	Comments:	
for the contract of the contra				1
	iii. If ab	ove PQL, what	samples are affected?	
			Comments:	
N/A				
	:- D-4-	1. 1.	11 00 10 7 11	
	iv. Data	quality or usabi	lity affected? Explain.	
····			Comments:	
N/A				
e. Fi	iald Dunlia	oto.		
C. 11	ield Duplic i. One i		shmitted now metalis and a 110	
	• Yes	No	ubmitted per matrix, analysis and 10 project samples?	
	** 1 CS	* INO	Comments:	
	ii. Subr	nitted blind to la	h?	I
	• Yes	○ No		
	1.03	- 110	Comments:	

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

RPD (%) = Absolute value of: 
$$\frac{(R_1-R_2)}{((R_1+R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  $R_2$  = Field Duplicate Concentration

RPDs for detected analytes ranged from 9% to 21%.

		Comments:	
No.			
f. Decontan	ination or Ec	quipment Blank (if applicable)	
C Yes	s C No	Not Applicable	
i. Al	l results less	than PQL?	
C Yes	s C No	Comments:	
N/A			
ii. If	above PQL, v	what samples are affected?	
		Comments:	
N/A			
iii. Da	ta quality or	usability affected? Explain.	
		Comments:	
N/A			
er Data Flags/	Qualifiers (A	.COE, AFCEE, Lab Specific, etc.)	
a. Defined ar	nd appropriate	e?	
	€ No	Comments:	



ANCHORAGE, AK 2000 W INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

October 02, 2008

Melissa Shippey Travis/Peterson Environmental Consulting, Inc. FBK 329 2nd Street Fairbanks, ALASKA/USA 99701

RE: Seekins

Enclosed are the results of analyses for samples received by the laboratory on 09/17/08 18:30. The following list is a summary of the Work Orders contained in this report, generated on 10/02/08 15:42.

If you have any questions concerning this report, please feel free to contact me.

Work Order	Project	<u>ProjectNumber</u>
ARI0075	Seekins	1197-02

FestAmerica Anchorage

Troy English





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number:

1197-02 Melissa Shippey

Project Manager: Meliss

Report Created: 10/02/08 15:42

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	ARI0075-01	Water	09/16/08 11:55	09/17/08 18:30
GWP-2	ARI0075-02	Water	09/16/08 12:57	09/17/08 18:30
MW-6	ARI0075-03	Water	09/16/08 13:18	09/17/08 18:30
MW-12	ARI0075-04	Water	09/16/08 13:40	09/17/08 18:30
Trip Blank	ARI0075-05	Water	09/16/08 13:40	09/17/08 18:30

TestAmerica Anchorage

Troy Englow
Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119

ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number:

1197-02

Project Manager:

Melissa Shippey

Report Created: 10/02/08 15:42

#### Diesel Range Organics (C10-C25) per AK102

TestAmerica Anchorage

Analyte	Method	Result MDL* MR	L Units Dil Batch	Prepared Analyzed	Analyst Notes
ARI0075-01 (MW-1)		Water	Sampled: 09/16/08	11:55	
Diesel Range Organics	AK 102	1.68 0.400	mg/l 1x 8090085	09/23/08 08:37	6 JN
Surrogate(s): I-Chlorooctadecane		95.9%	50 - 150 % "		И
ARI0075-02 (GWP-2)		Water	Sampled: 09/16/08	12:57	
Diesel Range Organics	AK 102	ND 0.39	4 mg/l lx 8090085	09/23/08 08:37	8 JN
Surrogate(s): 1-Chlorooctadecane		99.8%	50 - 150 % "		и
ARI0075-03 (MW-6)		Water	Sampled: 09/16/08	13:18	
Diesel Range Organics	AK 102	ND 0.40	) mg/l 1x 8090085	09/23/08 08:37	8 JN
Surrogate(s): 1-Chlorooctadecane		96.3%	50 - 150 % "		п
ARI0075-04 (MW-12)		Water	Sampled: 09/16/08	13:40	
Diesel Range Organics	AK 102	ND 0.39	7 mg/l lx 8090085	09/23/08 08:37	) JN
Surrogate(s): 1-Chlorooctadecane		105%	50 - 150 % "		#

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Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name: Seekins

Project Number: 1197-02

Project Manager: Melissa Shippey

Report Created: 10/02/08 15:42

## Gasoline Range Organics (C6-C10) per AK101-MS

TestAmerica Anchorage

				1000	tillellea /	The horas	30					
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-01	(MW-1)		•	Water			Sample	ed: 09/16/08	11:55			RI
Gasoline Range (	Organics	AK101 - MS	15500		500	ug/l	10x	8090084	09/23/08 08:19	09/24/08 12:41	ds	- Ki
Surrogate(s).	: 4-BFB			104%		80	120 %	n,				
	Dibromofluoromethane	e		107%			120 %	"			#	
	Toluene-d8			97.3%			120 %	n			"	
ARI0075-02	(GWP-2)		v	Vater			Sample	ed: 09/16/08	12:57			
Gasoline Range C	Organics	AK101 - MS	53.0	*******	50.0	ug/l	lx	8090084	09/23/08 08:19	09/24/08 13:14	ds	
Surrogate(s):	4-BFB			104%		00	120 %	n		777		
	Dibromofluoromethane	?		106%			120 % 120 %	"			n	
	Toluene-d8			96.1%			120 % 120 %	"			"	
							120 /0				"	
ARI0075-03	(MW-6)		V	Vater		:	Sample	d: 09/16/08	13:18			
Gasoline Range Or	rganics	AK101 - MS	ND	*****	50.0	ug/l	1x	8090084	09/23/08 08:19	09/24/08 13:47	ds	
Surrogate(s):	4-BFB			104%		80 -	120 %	n				
	Dibromofluoromethane			108%			120 %	n			n n	
	Toluene-d8			96.6%			120 %	"			"	
ARI0075-04	(MW-12)		W	Vater		5	Sample	d: 09/16/08 1	3:40			
Gasoline Range Or	ganics	AK101 - MS	ND		50.0	ug/l	1x	8090084	09/23/08 08:19	09/24/08 14:20	ds	
Surrogate(s):	4-BFB			103%		80 - 1	20 %	"			n	
	Dibromofluoromethane			105%				п				
	Toluene-d8			95.1%		80 - 1		"			,,	
	=					80 - 1 80 - 1					n n	

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Trong Engstone





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Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Project Name:

Seekins

Fairbanks, ALASKA/USA 99701

Project Number: 1197-02
Project Manager: Melissa

Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-01 (MW-1)		Y	Vater			Sample	d: 09/16/08 1	1:55			***************************************
Dichlorodifluoromethane	EPA 8260B	ND		1.00	ug/l	lx	8090178	09/24/08 08:23	09/24/08 19:50	Chr	
Chloromethane	er er	ND		5.00	**	,,	H	п	и	Chr	
Vinyl chloride	ti	ND		0.200	11		9	0	ri	Chr	
Bromomethane	Ħ	ND		5.00	19	18	19	es es	н	Chr	
Chloroethane	Ř	ND		1.00	н		n	84	er	Chr	
Trichlorofluoromethane	15	ND		1.00	**	"	п		я	Chr	
1,1-Dichloroethene	я	ND		1.00	29	н	n	19	15	Chr	
Carbon disulfide	н	ND	*****	1.00	#	п	W	**	n	Chr	
Methylene chloride	Ħ	ND		10.0	н	"		**	н	Chr	
Acetone	в	ND	*****	25.0	"	**	#	n	le .	Chr	
trans-1,2-Dichloroethene	eș.	ND		1.00	**	я	н	н	В	Chr	
Methyl tert-butyl ether	м	ND	*****	1.00	Ħ	**	H	61	a)	Chr	
1,1-Dichloroethane	n	ND	*****	1.00	я	н	R	н	*	Chr	
cis-1,2-Dichloroethene	и	ND		1.00	н	11	н	36	8	Chr	
2,2-Dichloropropane	н	ND	*****	1.00	н	n	**	я	#	Chr	
Bromochloromethane	н	ND		1.00	"	n	"	н	11	Chr	
Chloroform	п	ND		1.00	*	W	н	**	H	Chr	
Carbon tetrachloride	и	ND	and the second	1.00	и	at .		n	н	Chr	
,1,1-Trichloroethane	B	ND		1.00	16	н	н	si .	R	Chr	
-Butanone	W	84.4		10.0	15	"	п	в	н	Chr	
,1-Dichloropropene	н	ND		1.00	н	н	н	19	я	Chr	
Benzene	н	6.32		0.200	и	н	**	11	п	Chr	
,2-Dichloroethane (EDC)	п	ND		1.00	н	н	12		**	Chr	
richloroethene	11	ND		1.00	41	#	н	**	ii	Chr	
Dibromomethane	а	ND	*****	1.00	н	и	a	Ħ	1f	Chr	
,2-Dichloropropane	н	ND	*****	1.00	н	н	н	н	n	Chr	
Bromodichloromethane	19	ND	*****	1.00	11	Ħ	н	H	n	Chr	
is-1,3-Dichloropropene	n	ND		1.00	#	19	#	н	н	Chr	
oluene	tt.	1750		50.0	н	50x	q	#	09/25/08 11:10	Chr	
-Methyl-2-pentanone	16	ND		10.0	В	lx	R	н	09/24/08 19:50	Chr	
ans-1,3-Dichloropropene	fi .	ND		1.00	**	н	н	н	и	Chr	
etrachloroethene	89	ND	******	1.00	58	н	п	н	n	Chr	
1,2-Trichloroethane	86	ND	and more	1.00	n	н	**	ri .	M	Chr	
ibromochloromethane	Nf.	ND		1.00	85	и	**	H	В	Chr	
3-Dichloropropane	tr .	ND	*****	1.00	H	at .		15	**	Chr	
,2-Dibromoethane	и	ND	*****	1.00	11	п	н	18	4	Chr	
-Hexanone	a	ND	*******	10.0	**	и				Chr	

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Tray Engston

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name: Seekins

Project Number: 1197-02

Project Manager: Melissa Shippey

Report Created: 10/02/08 15:42

## Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte		3.5.413				эрокин						
	(3 *** )	Method		MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-01	(MW-1)		,	Vater			Sampled	l: 09/16/08 1	1:55			
Ethylbenzene		EPA 8260B	1080		50.0	ug/l	50x	8090178	09/24/08 08:23	09/25/08 11:10	Chr	
Chlorobenzene		e	ND		1.00	н	1x	и	le .	09/24/08 19:50	Chr	
1,1,1,2-Tetrachlor	oethane	н	ND		1.00	**	er	n	н	"	Chr	
m,p-Xylene		11	3680	****	100	и	50x	et	17	09/25/08 11:10	Chr	
o-Xylene		н	2110	*****	50.0	19	н	н	п	u	Chr	
Styrene		11	ND		1.00	12	lx	ø	н	09/24/08 19:50	Chr	
Bromoform		н	ND	*****	1.00	**	н	0	Ħ	я	Chr	
Isopropylbenzene		tt	56.0	****	50.0	H	50x	**	ri	09/25/08 11:10	Chr	
n-Propylbenzene		Ħ	ND	******	1.00	п	lx	**	16	09/24/08 19:50	Chr	
1,1,2,2-Tetrachloro	oethane	п	ND	*****	1.00	п	я	в	н	я	Chr	
Bromobenzene		16	ND		1.00	н	и	"	и	16	Chr	
1,3,5-Trimethylbe	nzene	в	175		50.0	is.	50x	15	12	09/25/08 11:10	Chr	
2-Chlorotoluene		н	ND		1.00	19	1x	41	18	09/24/08 19:50	Chr	
1,2,3-Trichloroproj	pane	49	ND	~****	1.00	**	н	и	Ħ	11	Chr	
4-Chlorotoluene		25	ND	****	1.00	н	ŧŧ	и	n	я	Chr	
tert-Butylbenzene		16	ND		1.00	n	н	"	fg.	14	Chr	
1,2,4-Trimethylbe	nzene	**	735		50.0	**	50x	15	n	00/05/00 ***		
sec-Butylbenzene		R	ND		1.00	п	1x	n	19	09/25/08 11:10	Chr Chr	
p-Isopropyltoluene	e	#	4.24	*****	1.00	H	"	h	**	09/24/08 19:50		
1,3-Dichlorobenzer	ne	и	ND	*****	1.00	и	ь	rt .	11	n	Chr	
1,4-Dichlorobenzer	ne	н	ND	*****	1.00	н	n	tr.	9	"	Chr	
n-Butylbenzene		89	ND		1.00	10	*			n a	Chr	
1,2-Dichlorobenzer	ne	n	ND	*****	1.00	24		,	31	а	Chr	
1,2-Dibromo-3-chlo		R	ND						н	11	Chr	
Hexachlorobutadier		п		*****	5.00	,,		н	R	e	Chr	
1,2,4-Trichlorobenz		rt .	ND		1.00		н	11	8	И	Chr	
1,2,4-111cmo100en2 Naphthalene	conc		ND	*****	1.00	H	н	"	n	И	Chr	
Napotnaiene 1,2,3-Trichlorobenz	rana		51.2	*****	2.00	H	а	6	W	St .	Chr	
1,2,5*1 Hemorooenz	XIIC		ND	*****	1.00	н	в	97	И	ja	Chr	
Surrogate(s):	Dibromofluoromethane			102%		62.2 - 1	28 %	n			"	
	Toluene-d8			156%		75.4 - 1	20 %	п		ı	" 2	ZX
	4-bromofluorobenzene			123%		77.3 - 1	29 %	11			7	

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Trong Engstone

Troy J. Engstrom, Lab Director





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CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins 1197-02

Project Number: Project Manager:

Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte	Method	Result	MIDL"	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-02 (GWP-2)		7	Vater			Sample	1: 09/16/08 1	2:57		***************************************	
Dichlorodifluoromethane	EPA 8260B	ND	****	1.00	ug/l	lx	8090178	09/24/08 08:23	09/25/08 11:40	Chr	
Chloromethane	8	ND		5.00	w	**	В	н	ъ	Chr	
Vinyl chloride	R	ND		0.200	н	ø	4	и	н	Chr	
Bromomethane	И	ND	*****	5.00	**	"	8	#	16	Chr	
Chloroethane	м	ND	*****	1.00	**	н		н	ą i	Chr	
Trichlorofluoromethane	н	5.14	*****	1.00	н	**	н	n	п	Chr	
1,1-Dichloroethene	и	ND	*****	1.00	19	н	11	н	H	Chr	
Carbon disulfide	n	ND		1.00	п	11	te	19	15	Chr	
Methylene chloride	49	ND	Wiriama	10.0	и	н	8	**	11	Chr	
Acetone	#	ND		25.0	"	11	*	я	19	Chr	
rans-1,2-Dichloroethene	n	ND		1.00	и	36	п	и		Chr	
Methyl tert-butyl ether	и	ND		1.00	ts	**	и	н	н	Chr	
1,1-Dichloroethane	16	ND	*****	1.00	в	is .	Ħ	и	9	Chr	
cis-1,2-Dichloroethene	H	ND	*****	1.00	n	я	**	**	*	Chr	
2,2-Dichloropropane	"	ND	~	1.00	и	**	u	n	n	Chr	
Bromochloromethane	ņ	ND		1.00	н	н	н	N	и	Chr	
Chloroform	9	ND		1.00	41	н	v	**	и	Chr	
Carbon tetrachloride	ti.	ND	*****	1.00	n	**	н	0	n	Chr	
,1,1-Trichloroethane	н	ND		1.00	н	п	to .	и	tt.	Chr	
-Butanone	н	ND		10.0	15	н	"	**	н	Chr	
,1-Dichloropropene	Ħ	ND	*****	1.00	15	и	п	н	Ħ	Chr	
Benzene	Ħ	ND		0.200	**	"	ŧŧ	н	н	Chr	
,2-Dichloroethane (EDC)	at .	ND	****	1.00	ø	"	н	н	н	Chr	
richloroethene	н	ND	****	1.00	н		84	н	н	Chr	
Dibromomethane	51	ND		1.00	16	н	it	H	19	Chr	
,2-Dichloropropane	М	ND		1.00	и	и	iq	и	п	Chr	
Bromodichloromethane	şt	ND	****	1.00	н	n	**	n	Ð	Chr	
is-1,3-Dichloropropene	19	ND		1.00	и	*	и	44	н	Chr	
oluene	и	3.97		1.00	is	я	in	n	н	Chr	
-Methyl-2-pentanone	16	ND		10.0	W	и	н	**	н	Chr	
rans-1,3-Dichloropropene	Ð	ND		1.00	**	#	H	tt.	В	Chr	
etrachloroethene	ä	ND		1.00	н	н	н	H	н	Chr	
,1,2-Trichloroethane	65	ND		1.00	"	#	łt	14	В	Chr	
bibromochloromethane	tt	ND		1.00	#	16	a	и	**	Chr	
,3-Dichloropropane	16	ND	*****	1.00	ы	99	ы	н	4	Chr	
2-Dibromoethane	p)	ND	*****	1.00	16	н	iq.	н	н	Chr	
-Hexanone	н	ND	*****	10.0	49	14	ri .	**	п	Chr	

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Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119

ANCHORAGE, AK 99502-1119
ph: (907) 563.9200 fax: (907) 563.9210
CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name: Seekins

Project Number: 1197-02

Project Manager: Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-02 (C	GWP-2)		7	Vater			Sample	d: 09/16/08 1	2:57			
Ethylbenzene		EPA 8260B	1.82	****	1.00	ug/l	lx	8090178	09/24/08 08:23	09/25/08 11:40	Chr	
Chlorobenzene		й	ND	*****	1.00	19	н	n	20	*	Chr	
1,1,1,2-Tetrachloroet	hane	que esta esta esta esta esta esta esta est	ND		1.00	п	it	11	н	is	Chr	
m,p-Xylene		н	6.03	****	2.00	Ħ	н	n	**	u	Chr	
o-Xylene		er .	3.81	*****	1.00	н	н	sı	n	56	Chr	
Styrene		\$	ND		1.00	ŧ	и	49	**	н	Chr	
Bromoform		es .	ND		1.00		н	e	18	9	Chr	
Isopropylbenzene		и	ND	******	1.00	*	R	н	н	н	Chr	
n-Propylbenzene		**	ND		1.00	*	tr	#	n	н	Chr	
1,1,2,2-Tetrachloroetl	hane	Bt	ND	****	1.00	Ħ	10	in	н	86	Chr	
Bromobenzene		н	ND		1.00	н	я	н	н	19	Chr	
1,3,5-Trimethylbenze	ne	15	ND		1.00	**	11	13	45	15	Chr	
2-Chlorotoluene		n	ND		1.00	"	**	tt	и	и	Chr	
1,2,3-Trichloropropar	ne	ń	ND		1.00	я	n	и	п	16	Chr	
4-Chlorotoluene		н	ND	*****	1.00	**	R	R	"	п	Chr	
tert-Butylbenzene			ND		1.00	н	**	п	Hs	H	Chr	
1,2,4-Trimethylbenze	ne	н	ND		1.00	**	41		EJ	н	Chr	
sec-Butylbenzene		n	ND	10.45 T0746 at	1.00			и	11	**	Chr	
p-Isopropyltoluene		n	ND	*****	1.00	u	**	ij	tf.	ध	Chr	
1,3-Dichlorobenzene		н	ND		1.00	4	#	н	,,	H	Chr	
1,4-Dichlorobenzene		н	ND		1.00	#	n	,,	н	ff.	Chr	
n-Butylbenzene		It	ND	*****	1.00	**	ır	н	н	,,	Chr	
1,2-Dichlorobenzene		r#	ND		1.00	**	#	11	16	9	Chr	
1,2-Dibromo-3-chloro	propane	н	ND		5.00			n	,	н	Chr	
Hexachlorobutadiene		**	ND	*****	1.00	н	**	м	**	D.	Chr	
1,2,4-Trichlorobenzen	ie	н	ND	*****	1.00	11	19	**	я	н	Chr	
Naphthalene		н	ND	******	2.00	n	"	śt	ii			
1,2,3-Trichlorobenzen	e	ū	ND	and the sale was	1.00	н	н	14	B		Chr Chr	
Surrogate(s):	Dibromofluoromethane			105%		62.2 - 1.	28 %	"			"	
,	Toluene-d8			82.6%		75.4 - 1.		#			"	
4	4-bromofluorobenzene			89.4%		77.3 - I.		rr		,	ir.	

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number: Project Manager: 1197-02 Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-03 (MW-6)		V	Vater			Sampled	I: 09/16/08 1	3:18			
Dichlorodifluoromethane	EPA 8260B	ND		1.00	ug/l	lx	8090178	09/24/08 08:23	09/24/08 20:49	Chr	
Chloromethane	н	ND		5.00	н	ŋ	8	п	п	Chr	
Vinyl chloride	st	ND	*****	0.200	ts.	H	н	tt	п	Chr	
Bromomethane	н	ND	****	5.00	н	8	н	11	R	Chr	
Chloroethane	н	ND	*****	1.00	66	и	п	я	9	Chr	
Trichlorofluoromethane	н	3.90		1.00	*	28	ts	н	н	Chr	
1,1-Dichloroethene	и	ND	*****	1.00	н	13	16	н	fl	Chr	
Carbon disulfide	н	ND	*****	1.00	*	*		H	10	Chr	
Methylene chloride	H	ND		10.0	и	и	**	н	**	Chr	
Acetone	и	ND		25.0	#	41	н	10	и	Chr	
trans-1,2-Dichloroethene	**	ND		1.00	31	**	**	it	в	Chr	
Methyl tert-butyl ether	Ħ	ND	*****	1.00	"	#	н	и	#	Chr	
1,1-Dichloroethane	И	ND	*****	1.00	19	н	**	25	и	Chr	
cis-1,2-Dichloroethene	19	ND		1.00	n	16	н	n	в	Chr	
2,2-Dichloropropane	16	ND		1.00	н	н	н	#	*	Chr	
Bromochloromethane	er	ND		1.00	**	н	н		n	Chr	
Chloroform	и	ND	****	1.00	н	H	Ħ	44	"	Chr	
Carbon tetrachloride	Ħ	ND		1.00	#	ıı	п	n	n	Chr	
1,1,1-Trichloroethane	11	ND		1.00	n	н	11	н	H	Chr	
2-Butanone	Ħ	ND		10.0	*	6	я	н	н	Chr	
1,1-Dichloropropene	in .	ND	*****	1.00	и	0	п	54	н	Chr	
Benzene	19	ND	*****	0.200	**	n	н	n	n	Chr	
1,2-Dichloroethane (EDC)	и	ND		1.00	**	н	я	н	#	Chr	
Trichloroethene	н	ND	*****	1.00	я	н	н	н	н	Chr	
Dibromomethane	н	ND	*****	1.00	W	н	#	69	n	Chr	
1,2-Dichloropropane	8	ND	-	1.00		и	н	ē!	e e	Chr	
Bromodichloromethane	84	ND	*****	1.00	88	и	н	u	et	Chr	
cis-1,3-Dichloropropene	rt .	ND		1.00	91	+2	п	*	8	Chr	
Toluene	и	2.35	airen	1.00	м	s4	84	14	<b>*</b>	Chr	
4-Methyl-2-pentanone	97	ND		10.0	"	6	и	#	16	Chr	
rans-1,3-Dichloropropene	м	ND		1.00	#	и	6	н	*	Chr	
[etrachloroethene	н	3.07		1.00	н	11	ai .	9	8	Chr	
1,1,2-Trichloroethane	u	ND		1.00	я	н	я	н	11	Chr	
Dibromochloromethane	if	ND	*****	1.00		e	P	**	8	Chr	
1,3-Dichloropropane	is	ND	*****	1.00	**	ir	в	н	н	Chr	
,2-Dibromoethane	tt	ND		1.00	**	н	16	я	и	Chr	
2-Hexanone	н	ND		10.0	**	В	я	н	*	Chr	

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Project Name:

Seekins

Fairbanks, ALASKA/USA 99701

Project Number: Project Manager: 1197-02 Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-03 (N	MW-6)	*****************************	1	Vater			Sampleo	d: 09/16/08 1	3:18			
Ethylbenzene		EPA 8260B	1.33		1.00	ug/l	1x	8090178	09/24/08 08:23	09/24/08 20:49	Chr	
Chlorobenzene		н	ND	*****	1.00	Ħ	и	'n	8	н	Chr	
1,1,1,2-Tetrachloroet	hane	ж	ND		1.00	"	ij	н	9	н	Chr	
m,p-Xylene		it	3.93	****	2.00	и	н	н	R	#	Chr	
o-Xylene		н	2.42	*****	1.00	49	н	в	u u	n	Chr	
Styrene		38	ND		1.00	и	н	Ħ	"	ti	Chr	
Bromoform		H	ND		1.00	#	н	N	и	a	Chr	
Isopropylbenzene		н	ND		1.00	Ħ	н	n	ŕr	n	Chr	
n-Propylbenzene		*	ND	***	1.00	н	15	**	n	В	Chr	
1,1,2,2-Tetrachloroet	hane	"	ND		1.00	şs	19	**	"	4	Chr	
Bromobenzene		н	ND		1.00	*	в	н	18	11	Chr	
1,3,5-Trimethylbenze	ene	я	ND		1.00	В		"		**	Chr	
2-Chlorotoluene		tr .	ND		1.00	¥	8	it	и	#	Chr	
1,2,3-Trichloropropar	ne	н	ND		1.00	а	tr	H.	и	N	Chr	
4-Chlorotoluene		e	ND		1.00	9	11	39	41	B	Chr	
tert-Butylbenzene		¥	ND		1.00	н	11	tr	н	10	Chr	
1,2,4-Trimethylbenze	ne	а	ND		1.00	н	#	и	п	11	Chr	
sec-Butylbenzene		н	ND	*****	1.00	11	n	ff	н	н	Chr	
p-Isopropyltoluene		н	ND	*****	1.00	ey.	и	н	16	н	Chr	
1,3-Dichlorobenzene		н	ND	*****	1.00	R	11	"	9	Ħ	Chr	
1,4-Dichlorobenzene		н	ND		1.00		u	и	11	R	Chr	
n-Butylbenzene		и	ND		1.00	16	n	Ħ	R	n	Chr	
1,2-Dichlorobenzene		89	ND	****	1.00	er	**	и	н	11	Chr	
1,2-Dibromo-3-chloro	propane	16	ND	****	5.00	11	it	n	#	**	Chr	
Hexachlorobutadiene		*	ND		1.00	16	н	Ħ	ij.	и	Chr	
1,2,4-Trichlorobenzer		29	ND		1.00	n	**	п	ü		Chr	
Naphthalene		H	ND	*****	2.00	"	16	н	я		Chr	
1,2,3-Trichlorobenzer	ne	*	ND		1.00	*	11	н	н	31	Chr	
Surrogate(s):	Dibromofluoromethane			102%		62.2 - 1.	28 %	n			n	
	Toluene-d8			85.4%		75.4 - 1		n			rt	
	4-bromofluorobenzene			98.8%		77.3 - 1.	29 %	n			"	

TestAmerica Anchorage

Troy Englow





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number: Project Manager: 1197-02 Melissa Shippey Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-04 (MW-12)			Vater			Sampleo	1: 09/16/08 1	3:40			
Dichlorodifluoromethane	EPA 8260B	ND	*****	1.00	ug/l	lx	8090178	09/24/08 08:23	09/24/08 21:19	Chr	*******************************
Chloromethane	11	ND	Newson	5.00	स	11	#	te	и	Chr	
Vinyl chloride	9	ND	menna	0.200	н	#	#	н	H	Chr	
Bromomethane	65	ND	****	5.00	и	n	н	<b>8</b> 6	я	Chr	
Chloroethane	49	ND	*****	1.00	н	16	24	я	н	Chr	
Trichlorofluoromethane	19	3.57	*****	1.00	н	п	10	e	ii .	Chr	
1,1-Dichloroethene	N	ND	24 (0-10-s)(1/4)	1.00	*	Ħ	H	н	18	Chr	
Carbon disulfide	м	ND	waters	1.00	n	19	18	н	н	Chr	
Methylene chloride	H	ND	*****	10.0	**	н	**	**	tt	Chr	
Acetone	н	ND		25.0	er	11	Đ	R	и	Chr	
trans-1,2-Dichloroethene	15	ND	*****	1.00	н	W	er	It	11	Chr	
Methyl tert-butyl ether	n	ND	****	1.00	н	16	N	10		Chr	
1,1-Dichloroethane	"	ND	*****	1.00	н	**	0	#	и	Chr	
cis-1,2-Dichloroethene	**	ND	SE NO SECURIT	1.00	в	ij	N	n	15	Chr	
2,2-Dichloropropane	*	ND		1.00	н		н	н	н	Chr	
Bromochloromethane	H	ND		1.00	н	e e	н	14	a	Chr	
Chloroform	M	ND	*****	1.00	Ħ	н	*	ы	н	Chr	
Carbon tetrachloride	it	ND		1.00	н	Ħ	н	13	н	Chr	
1,1,1-Trichloroethane	н	ND	*****	1.00	и	Ħ	11	н	и	Chr	
2-Butanone	н	ND		10.0	и	"	n	tf.	н	Chr	
1,1-Dichloropropene	#	ND		1.00	н	ч	u	t)	н	Chr	
Benzene	и	ND	*****	0.200	н	u	#	H	и	Chr	
1,2-Dichloroethane (EDC)	и	ND		1.00	#	н	81	13	9	Chr	
Trichloroethene	6	ND	~~~~	1.00	11	**	м	H	n	Chr	
Dibromomethane	*	ND		1.00	n	81		н	#	Chr	
1,2-Dichloropropane	н	ND	****	1.00	**	**	"	я	8	Chr	
Bromodichloromethane	н	ND		1.00	16	n	9	в	m	Chr	
cis-1,3-Dichloropropene	#	ND		1.00	**	er	9	я	н	Chr	
Toluene	н	1.97		1.00	44	**	11	86	н	Chr	
4-Methyl-2-pentanone	н	ND		10.0	19	41	e	rf	Я	Chr	
trans-1,3-Dichloropropene	п	ND	*****	1.00	N	it.	u	69	н	Chr	
Tetrachloroethene	11	2.71	10 Section (co.)	1.00	и	11	11	н	10	Chr	
1,1,2-Trichloroethane	#	ND	Andrew State	1.00	4	n	и	и	¥	Chr	
Dibromochloromethane	ff	ND		1.00	**	и	44	19	#	Chr	
1,3-Dichloropropane	ff	ND	*****	1.00	**	14	44	н	м	Chr	
1,2-Dibromoethane	IX	ND		1.00	14	"	8	n	#	Chr	
2-Hexanone	В	ND	*****	10.0	R	19	*	R	н	Chr	

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name: Seekins

Project Number: 1197-02

Project Manager: Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-04	(MW-12)		V	Vater			Sample	d: 09/16/08 1	3:40			
Ethylbenzene		EPA 8260B	1.12	*****	1.00	ug/l	1x	8090178	09/24/08 08:23	09/24/08 21:19	Chr	
Chlorobenzene		н	ND	*****	1.00	и	**	15	15	п	Chr	
1,1,1,2-Tetrachloro	ethane	31	ND	*****	1.00		11	и	н	Ħ	Chr	
m,p-Xylene		В	3.18		2.00	и	**	H	я	#	Chr	
o-Xylene		н	1.95		1.00	н	н	Ħ	н	11	Chr	
Styrene		B	ND	****	1.00	0	н	п	н	н	Chr	
Bromoform		9	ND		1.00	н	er er		n	0	Chr	
Isopropylbenzene		16	ND		1.00	**	п	в	н	14	Chr	
n-Propylbenzene		н	ND	*****	1.00		н	n	n	е	Chr	
1,1,2,2-Tetrachloroe	ethane	Ħ	ND		1.00	**	ii	it	14	11	Chr	
Bromobenzene		н	ND	*****	1.00	n	11	н	P	tr	Chr	
1,3,5-Trimethylben	zene	п	ND	******	1.00	16	**	n	В	4	Chr	
2-Chlorotoluene		18	ND		1.00	"	16	н	н	И	Chr	
1,2,3-Trichloroprop	ane	H	ND		1.00	"	н	9	a	п	Chr	
4-Chlorotoluene		51	ND	*****	1.00		н		Ħ	a	Chr	
tert-Butylbenzene		н	ND	*****	1.00	**	#	9	n	н	Chr	
1,2,4-Trimethylbenz	zene	H	ND		1.00	tí	,	и	**	0	Chr	
sec-Butylbenzene		H	ND		1.00	н	**	8	u	Di .	Chr	
p-Isopropyltoluene		,	ND		1.00	н	н	ts	н	п	Chr	
1,3-Dichlorobenzene	е	u	ND	*****	1.00	**	*	и	н	ŧ	Chr	
1,4-Dichlorobenzene	e	и	ND	ATTEMA	1.00	н	n	**	н	H	Chr	
n-Butylbenzene		N	ND		1.00		n	a	***	"	Chr	
1,2-Dichlorobenzene	e	15	ND		1.00	**	11		0	by .	Chr	
1,2-Dibromo-3-chlor	ropropane	п	ND		5.00	**		16	b)		Chr	
Hexachlorobutadien	• •	#1	ND		1.00	11	N	и	u			
1,2,4-Trichlorobenze	ene	b	ND		1.00	15	9	н			Chr	
Naphthalene		N:	ND	******	2.00	bt.	10	n	"	er by	Chr	
1,2,3-Trichlorobenze	ene	n	ND		1.00	н		**	n N	91	Chr Chr	
Surrogate(s):	Dibromofluoromethane			10301								
Surroguie(8).	Toluene-d8			103% 87.4%		62.2 ~ 1.		"			n	
	4-bromofluorobenzene			97.2%		75,4 - 1. 77.3 - 1.		"				

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119

ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number: Project Manager: 1197-02 Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-05 (Trip Blank)		7	Vater			Sampled	l: 09/16/08 1	3:40			
Dichlorodifluoromethane	EPA 8260B	ND		1.00	ug/l	1x	8090178	09/24/08 08:23	09/24/08 21:49	Chr	
Chloromethane	Ħ	ND		5.00	"	n	,	B	B	Chr	
Vinyl chloride	я	ND		0.200	н	н	et	**	18	Chr	
Bromomethane	18	ND	*****	5.00	H	ti		Ħ	e e	Chr	
Chloroethane	15	ND		1.00	н	н	¥	sk	я	Chr	
Trichlorofluoromethane	9	ND	*****	1.00	я	**	W <sub>1</sub>	и	18	Chr	
1,1-Dichloroethene	15	ND		1.00	n	Ħ	н	н	н	Chr	
Carbon disulfide	16	ND	*****	1.00	*	н	в	n	п	Chr	
Methylene chloride	п	ND	*****	10.0	"	11	н	и	"	Chr	
Acetone	п	ND		25.0	19	"	16	**	*	Chr	
trans-1,2-Dichloroethene	Ħ	ND	*****	1.00	4	н	н	10	н	Chr	
Methyl tert-butyl ether	н	ND	Professional Communication	1.00	n	н	н	10	n	Chr	
1,1-Dichloroethane	it .	ND		1.00	п	Ħ	и	u	и	Chr	
cis-1,2-Dichloroethene	п	ND		1.00	**	Ħ	er	п	и	Chr	
2,2-Dichloropropane	н	ND		1.00	29	n	и	11	H	Chr	
Bromochloromethane	H	ND	No. of the Asset	1.00	н	**	H	н	я	Chr	
Chloroform	н	ND	*****	1.00	11	n	п	и	В	Chr	
Carbon tetrachloride	н	ND		1.00	п	#	19	11	et	Chr	
1,1,1-Trichloroethane	И	ND		1.00	"	н	H	tr.	В	Chr	
2-Butanone	fi	ND		10,0	er .	N	*	24	ır	Chr	
1,1-Dichloropropene	н	ND	*****	1.00			н	н	*	Chr	
Benzene	Tt.	ND	*****	0.200	в	tt	н	ŧf	и	Chr	
1,2-Dichloroethane (EDC)	"	ND		1.00	8	R	11	а	н	Chr	
Trichloroethene	15	ND		1.00	н	te .	и	R	R	Chr	
Dibromomethane	я	ND		1.00		н		**	и	Chr	
1,2-Dichloropropane	н	ND	*****	1.00	sı	н	н	59		Chr	
Bromodichloromethane	н	ND	*****	1.00	н	n	н	n	*	Chr	
cis-1,3-Dichloropropene	P	ND		1.00	74	it	**	11	e	Chr	
Toluene	n	ND	to the same	1.00	**	N	я	*	#	Chr	
4-Methyl-2-pentanone	14	ND		10.0	N	ñ	п	10	11	Chr	
trans-1,3-Dichloropropene	88	ND		1.00	*	н	**	n	#	Chr	
Tetrachloroethene	я	ND		1.00	и	,,	ri	н	и	Chr	
1,1,2-Trichloroethane	29	ND		1.00	**	**	в	**	સ	Chr	
Dibromochloromethane	#	ND	· ·	1.00	н	я	11	u	я	Chr	
1,3-Dichloropropane	н	ND		1.00	H	P	В	н	ĸ	Chr	
1,2-Dibromoethane	н	ND		1.00	и	88	п	ti	P	Chr	
2-Hexanone	<b>5</b> 8	ND		10.0	41	R	я	ft.	п	Chr	

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name: Seekins

Project Number: 1197-02

Project Manager: Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B

TestAmerica Spokane

Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Analyst	Notes
ARI0075-05	(Trip Blank)		V	Vater		,	Sample	d: 09/16/08 1	3:40			
Ethylbenzene		EPA 8260B	ND	*****	1.00	ug/l	lx	8090178	09/24/08 08:23	09/24/08 21:49	Chr	
Chlorobenzene		н	ND	*****	1.00	er .	tt	н	в	н	Chr	
1,1,1,2-Tetrachloro	ethane	și	ND	****	1.00	rit	8	И	16	и	Chr	
m,p-Xylene		es .	ND	****	2.00	41	si	W	#	#	Chr	
o-Xylene		н	ND	****	1.00	ч	н	я	e	я	Chr	
Styrene		м	ND	*****	1.00	Ħ	н	н	H	Ħ	Chr	
Bromoform		it	ND		1.00	19	**	ff	it	Ħ	Chr	
Isopropylbenzene		ü	ND	*****	1.00	11	it.	н	**	19	Chr	
n-Propylbenzene		28	ND	*****	1.00	22	я	н	**	58	Chr	
1,1,2,2-Tetrachloro	ethane	99	ND		1.00	n	19	R	29	н	Chr	
Bromobenzene		a	ND	*****	1.00	в	и	n	н	п	Chr	
1,3,5-Trimethylben	zene	н	ND	*****	1.00	16	0	u	**	я	Chr	
2-Chlorotoluene		*	ND	****	1.00	#	Ħ	41	19	и	Chr	
1,2,3-Trichloroprop	pane	51	ND		1.00	н	18	u	n	bj	Chr	
4-Chlorotoluene			ND		1.00	19	п	16	26	H	Chr	
tert-Butylbenzene		15	ND	Distant	1.00	te	#	"	H.	,	Chr	
1,2,4-Trimethylben	zene	H	ND	Mark 10-45-30	1.00	н	н	и	11	D	Chr	
sec-Butylbenzene		и	ND		1.00	*)	n	#	**	и	Chr	
p-Isopropyltoluene		н	ND	*****	1.00	и	iş	15	49	п	Chr	
1,3-Dichlorobenzen	ne	10	ND		1.00	в	н	v	11	н	Chr	
1,4-Dichlorobenzen	ne	и	ND		1.00	41		*	18	н	Chr	
n-ButyIbenzene		#	ND	*****	1.00	**	ŧŧ	8	11	п	Chr	
1,2-Dichlorobenzen	ie	и	ND	*****	1.00	-	19	н	11	H	Chr	
1,2-Dibromo-3-chlo	propropane	n	ND		5.00	11	в	и	#	¥	Chr	
Hexachlorobutadier	ne	#	ND	*	1.00	в	45	19	н	ff	Chr	
1,2,4-Trichlorobenz	tene	**	ND		1.00	*	#	н	и	п	Chr	
Naphthalene		н	ND	Norman .	2.00		11	64	н	**	Chr	
1,2,3-Trichlorobenz	rene	н	ND		1.00	и	18	я	"	ţi.	Chr	
Surrogate(s):	Dibromofluoromethane			104%		62.2 - 1	28 %	п			n	
	Toluene-d8			86.8%		75.4 - 1	20 %	н			n	
	4-bromofluorobenzene			89.6%		77.3 - 1.	29 %	rr			n	

TestAmerica Anchorage

Trong Engstone

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number:

1197-02

Project Manager: Melissa Shippey Report Created:

10/02/08 15:42

#### Diesel Range Organics (C10-C25) per AK102 - Laboratory Quality Control Results

			7	estAmerica	Anchoras	e,e								
QC Batch: 8090085	Water	Preparatio	n Method:	EPA 3510										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	) Analyzed	Notes
Blank (8090085-BLK1)								Extr	acted:	09/23/08 08	3:37			
Diesel Range Organics	AK 102	ND	***	0.500	mg/l	1x							09/23/08 15:37	
Surrogate(s): 1-Chlorooctadecane		Recovery:	90.2%	Lin	nits: 50-1509	6 "				***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	09/23/08 15:37	-
LCS (8090085-BS1)								Extr	acted:	09/23/08 08	3:37			
Diesel Range Organics	AK 102	10,1		0.500	mg/l	1x	**	10.3	98.0%	(75-125)			09/23/08 16:08	
Surrogate(s): 1-Chlorooctadecane		Recovery;	88.3%	Lin	nits: 60-1209	6 "					***************************************		09/23/08 16:08	
LCS Dup (8090085-BSD1)								Extr	acted:	09/23/08 08	3:37			
Diesel Range Organics	AK 102	10.6		0,500	mg/l	lx		10.3	103%	(75-125)	5.34%	(20)	09/23/08 16:40	***************************************
Surrogate(s): 1-Chlorooctadecane		Recovery:	95.8%	Lim	iits: 60-1209	6 "							09/23/08 16:40	
Duplicate (8090085-DUP1)				QC Source:	ARI0067-0	3		Extr	acted:	09/23/08 08	:37			
Diesel Range Organics	AK 102	ND	200	0.403	mg/l	lx	ND	~-		**		(20)	09/23/08 15:37	·
Surrogate(s): 1-Chlorooctadecane		Recovery:	106%	Lim	its: 50-150%	<i>"</i>	***************************************		-	***************************************		······································	09/23/08 15:37	-

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Trong Engstone Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins 1197-02

Project Number: Project Manager:

Melissa Shippey

Report Created: 10/02/08 15:42

#### Gasoline Range Organics (C6-C10) per AK101-MS Laboratory Quality Control Do

OC Rate	ch: 8090084	Water	D													
QC Date	cn. 3030084	water	Preparatio	n Meth	od: EF	PA 5030B										
Analyte		Method	Result		MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	s) Analyzed	Notes
Blank (80900	84-BLK1)									Ext	racted:	09/23/08 08	8-19			
Gasoline Range Org	ganics	AK101 - MS	ND			50.0	ug/l	lx							09/23/08 11:59	***************************************
Surrogate(s):	4-BFB		Recovery:	104%		Lim	its: 80-120%	"								
	Dibromofluoromethane			103%			80-120%	"							09/23/08 11:59	
	Toluene-d8			95.5%			80-120%	"							n	
LCS (809008	4-BS1)									Extr	acted:	09/23/08 08	2.10			
Gasoline Range Org	anics	AK101 - MS	539			50.0	ug/l	1x			97.9%				00/02/00 10 50	
Surrogate(s):	4-BFB		Recovery:	103%		Linei	is: 80-120%	"			21.276	(00-120)			09/23/08 10:53	
	Dibromofluoromethane			102%		Linu	80-120%	n							09/23/08 10:53	
	Toluene-d8			95.4%			80-120%	н							n	
LCS Dup (809	90084-BSD1)									<b>.</b>						
Gasoline Range Org	anics	AK101 - MS	523			50.0	ug/l	1x			95.1%	09/23/08 08		· · · · ·		
Surrogate(s):	4-BFB		Recovery:	103%			ts: 80-120%	"		220	93.1%	(60-120)	2.88%	(20)	09/23/08 11:26	
	Dibromofluoromethane		,	102%		Zimi.	80-120%	,,							09/23/08 11:26	
	Toluene-d8			95.8%			80-120%	"							"	
Duplicate (809	90084-DUP1)				o	C Source:	AR10070-01			F4	1	00/23/00 00				
Gasoline Range Org	anics	AK101 - MS	ND			50.0		1x	ND	EXIF	acrea:	09/23/08 08:		(4.4)		
Surrogate(s):	4-BFB		Recovery:	103%			s: 80-120%	"	110				4.00%	(12)	09/24/08 22:17	
	Dibromofluoromethane			107%		Limit	80-120%	"							09/24/08 22:17	
	Toluene-d8			96.3%			80-120%	n							n n	
Matrix Spike	(8090084-MS1)				0	C Source:	4 D10070 02									
	4-BFB		***************************************	103%		C Source.				Extra	cted:	09/23/08 08:	:19			
Surrogate(s):	Dibromofluoromethane		Recovery:	106%		T invite	80-120% s: 80-120%	/X							09/24/08 22:50	
	Toluene-d8		riccorery.	96.9%		Limii.	8: 80-120% 80-120%	"							09/24/08 22:50	
Matrix Spike D	up (8090084-MSD)	D			0	C Sanras	D10070 03									
Matrix Spike D	up (8090084-MSD)	1)		1020/	Q	C Source: A				Extra	cted: (	09/23/08 08:	19			
Matrix Spike D  Surrogate(s):		1)	Recovery:	103% 106%	Q		80-120% S: 80-120%	lx		Extra	cted: (	09/23/08 08:	19		09/24/08 23:23	

TestAmerica Anchorage

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2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210

CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Project Name:

Seekins

Fairbanks, ALASKA/USA 99701

Project Number: Project Manager: 1197-02 Melissa Shippey

Report Created: 10/02/08 15:42

## Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Spokane

Analyte	Method	Result	MDL*	MRL	Units	Dil	Source	Spike	9/0	(T.114.)	9/0	(* · · · ·		
				(FIRE)	Cuits	ווע	Result	Amt	REC	(Limits)	RPD	(Limits)	Analyzed	Note
Blank (8090178-BLK1)				· · · · · · · · · · · · · · · · · · ·				Extr	acted:	09/24/08 08	:23			
Dichlorodifluoromethane	EPA 8260B	ND		1.00	ug/l	Ix							09/24/08 12:27	***************************************
Chloromethane	Ð	ND	***	5.00	**	13		***					*	
Vinyl chloride	п	ND		0.200	0	14							Ð	
Bromomethane	Ħ	ND		5.00	н	if		***		***			n	
Chloroethane	ti.	ND		1.00	11	н							н	
Trichlorofluoromethane	B	ND		1.00	11	a	***				***		H	
l,1-Dichloroethene	b#	ND		1.00	hr .	n	***						н	
Carbon disulfide	"	ND		1.00	12	**				***			u	
Methylene chloride	¥t	ND	***	10.0	e e	0				wa			н	
Acetone	Ħ	ND		25.0	н	H		M-sh		ww.			8	
rans-1,2-Dichloroethene	et.	ND	-	1.00	*	tt		**					н	
Methyl tert-butyl ether	85	ND	~~	1.00	et .	н							n	
,1-Dichloroethane	N	ND	WYO	1.00	и	п							15	
is-1,2-Dichloroethene	8	ND		1.00	н	*		***						
,2-Dichloropropane	n	ND		1.00	11	и		**	-					
romochloromethane	ri	ND		1.00	н	18							н	
hloroform	N	ND		1.00	н	n								
Carbon tetrachloride	9	ND	***	1.00	н	**	**		-		2000			
,1,1-Trichloroethane	**	ND		1.00	3ŧ									
-Butanone	n	ND		10.0	11	**							"	
,1-Dichloropropene	н	ND	***	1.00	ts.	8			~~					
ienzene	н	ND		0.200	н	ts				70.00			"	
,2-Dichloroethane (EDC)	89	ND	70.00	1.00	и			***		~-		***	н	
richloroethene	н	ND	***	1.00		**				the of			n	
bibromomethane	и	ND	None	1.00	,					-		~~	19	
2-Dichloropropane	e e	ND	****							ire.		**	"	
romodichloromethane	e	ND	erene	1.00	it	"				***			11	
s-1,3-Dichloropropene	Ħ	ND	***				***			***			н	
oluene	u	ND		1.00									н	
-Methyl-2-pentanone	N	ND ND		1.00	19	"	derate.		***				"	
ans-1,3-Dichloropropene	**	ND	***	10.0	,	11	***		**	***	***		šŧ.	
etrachloroethene	11			1.00		n			**	***	**		н	
1,2-Trichloroethane	a	ND	***	1.00	n	19							15	
bromochloromethane	re	ND	****	1.00	15	et		A-10-	~~			~-	я	
3-Dichloropropane	a	ND	trans.	1.00	15	"			~~	to a.	~-	**	н	
2-Dibromoethane	Pr .	ND	William	1.00	н	π	***		~~		***		n	
Hexanone		ND	rea	1.00	19	Ħ	***	**	***		Service .	**	n	
hylbenzene		ND	Th torus	10.0	Ħ	в	and a			M.M.	**	***	н	
nyroenzene	*	ND	~~~	1.00	ie	49		No. de					n	

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Trong Engstone

Troy J. Engstrom, Lab Director





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ANCHORAGE, AK

2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119 ph: (907) 563.9200 fax: (907) 563.9210 CS Approval Number: UST-067

Travis/Peterson Environmental Consulting, Inc. FBK

329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number: Project Manager: 1197-02

Melissa Shippey

Report Created: 10/02/08 15:42

## Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

TestAmerica Spokane

QC Batel	h: 8090178	Water 1	Preparatio	n Meth	od: GC	C/MS Vol	atiles									
Analyte		Method	Result		MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Note
Blank (809017	(8-BLK1)									Extr	acted:	09/24/08 08	3:23			
1,1,1,2-Tetrachloroet	hane	EPA 8260B	ND		***	1.00	ug/l	lx		**					09/24/08 12:27	***************************************
m,p-Xylene		n	ND			2.00	89	и		***	2-10				"	
o-Xylene		65	ND			1,00	н	n					**		11	
Styrene		и	ND			.1.00	#	n			***		-		89	
Bromoform		35	ND			1.00	н	19	**			~~			в	
Isopropylbenzene		п	ND			1.00	99	44			And a	***			и	
n-Propylbenzene		н	ND			1.00	н	я	-		**				п	
1,1,2,2-Tetrachloroeth	hane	n	ND			1.00	"	н						-	16	
Bromobenzene		99	ND			1.00	41	12								
1,3,5-Trimethylbenze	ne	н	ND			1.00		**		26.00	***				in	
2-Chlorotoluene		#	ND			1,00	и	et							N	
1,2,3-Trichloropropan	ne	85	ND		***	1.00	11	н							u	
4-Chlorotoluene		ti	ND			1.00	u	и							,,	
tert-Butylbenzene		N.	ND		Total Control	1.00	**	n								
1,2,4-Trimethylbenzer	ne	в	ND		mes.	1.00	п	u					***	***	"	
sec-Butylbenzene		68	ND		to be as	1.00		н					2010		"	
p-Isopropyltoluene		н	ND		N-10-W	1.00	**	#					W 64.		"	
1,3-Dichlorobenzene		**	ND			1.00	11	n					person.	***		
1,4-Dichlorobenzene		11	ND		-	1.00	11	H		20	Phone.				п	
n-Butylbenzene		п	ND			1.00	**	¥		***	10-00					
1,2-Dichlorobenzene		N	ND		-	1.00	e				044b				· R	
1,2-Dibromo-3-chloro	propane	**	ND			5.00	**	н			iniv				"	
Hexachlorobutadiene	•		ND			1.00	*	R			***				н	
1,2,4-Trichlorobenzen	e	**	ND		***	1.00				**	909	**	-		"	
Naphthalene		11	ND		***	2.00	9							M-44	ы	
1,2,3-Trichlorobenzene	e	fit.	ND			1.00	er .	н				***	-	the par	п	
									**					**		
<del>-</del> ···	Dibromofluoromethane Toluene-d8		Recovery:	100% 88.2%		Limits	62.2-128%	"							09/24/08 12:27	
	4-bromofluorobenzene			94.0%			75.4-120% 77.3-129%								"	

TestAmerica Anchorage

Troy Englow

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10 ANCHORAGE, AK 99502-1119

ANCHORAGE, AK 99502-1119
ph: (907) 563.9200 fax: (907) 563.9210
CS Approval Number: UST-067

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329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number: Project Manager: 1197-02

Melissa Shippey

Report Created: 10/02/08 15:42

#### Volatile Organic Compounds by EPA Method 8260B - Laboratory Quality Control Results

QC Bate	th: 8090178	Water 1	Preparatio	n Method	GC/MS Vo	latiles									
Analyte		Method	Result	М	DL* MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	Notes
LCS (8090178	B-BS1)		,				***************************************		Exti	acted:	09/24/08 08	:23			
1,1-Dichloroethene		EPA 8260B	10.1		1.00	ug/l	lx		10.0	101%				09/24/08 12:56	
Benzene		и	10.3		0.200	н	19	**	п	103%	. ,			U9/24/06 12:30	
Trichloroethene		15	9.99		1.00	я	ŧı		п	99.9%	( /		-	25	
Toluene		H	9.52	***	1.00	н	я		R	95.2%	,			9	
Chlorobenzene		п	10.5	***	1.00	н	н			105%	(80-120)			н	
Surrogate(s):	Dibromofluoromethane		Recovery:	102%	Limi	its: 62.2-128%	"							09/24/08 12:56	
	Toluene-d8			89.0%		75.4-120%	"							09/24/08 12:36	
	4-bromofluorobenzene			93.4%		77.3-129%	"							"	
Matrix Spike	(8090178-MS1)				QC Source	: SRI0111-01			Extr	acted:	09/24/08 08	-23			
1,1-Dichloroethene		EPA 8260B	10.1		1.00	ug/l	lx	ND	10.0	101%				09/24/08 14:25	
Benzene		н	10.7		0.200	в	н	ND	11	107%	(72.3-120)			U9/24/08 14:25	
Trichloroethene		31	11.0	****	1.00	я	и	ND		110%	(80-120)		**	н	
Toluene		50	10.2		1.00	**	n	ND	ŧ	102%	(62.7-137)		***	11	
Chlorobenzene		и	11.3	***	1.00	н	n	ND	н		(78.9-120)				
Surrogate(s):	Dibromofluoromethane		Recovery:	107%	Limi	ts: 62.2-128%	"							09/24/08 14:25	
	Toluene-d8			85.2%		75.4-120%	"							"	
	4-bromofluorobenzene			87.4%		77.3-129%	"							н	
Matrix Spike D	up (8090178-MSD	1)			QC Source:	SRI0111-01			Extr	acted:	09/24/08 08:	23			
1,1-Dichloroethene		EPA 8260B	9.96		1.00	ug/l	1x	ND	10.0	99.6%	(52.5-135)	1.10%	(10.5)	09/24/08 14:54	****
Benzene		н	10.7		0.200	н	н	ND	н		(72.3-120)		, ,	79/24/08 14.34 "	
Trichloroethene		11	10.8		1.00	н	#	ND	**	108%	(80-120)	2.20%	` '	н	
Γoluene		н	9.87		1,00	n	n	ND			(62.7-137)		` '	*	
Chlorobenzene		н	11.0		1.00	e	"	ND	**		(78.9-120)			n	
Surrogate(s):	Dibromofluoromethane		Recovery:	107%	Limit	s: 62.2-128%	"				/		· · · · · · ·	00/24/09 14:51	
	Toluene-d8		•	84.6%		75.4-120%	"							09/24/08 14:54	
	4-bromofluorobenzene			84.2%		77.3-129%	,,							#	

TestAmerica Anchorage

Trong Emplome

Troy J. Engstrom, Lab Director





2000 W. INTERNATIONAL AIRPORT ROAD, SUITE A-10

ANCHORAGE, AK 99502-1119

ph: (907) 563.9200 fax: (907) 563.9210
CS Approval Number: UST-067

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329 2nd Street

Fairbanks, ALASKA/USA 99701

Project Name:

Seekins

Project Number:

1197-02

Project Manager: Melissa Shippey

Report Created:

10/02/08 15:42

#### Notes and Definitions

#### Report Specific Notes:

RL7

Sample required dilution due to high concentrations of target analyte.

ZX

- Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

#### **Laboratory Reporting Conventions:**

DET

Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.

ND

Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).

NR/NA

Not Reported / Not Available

dry

Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.

wet

Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported

on a Wet Weight Basis.

RPD

RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).

MRL

METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL\*

METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil

Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting Limits Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

\*\*\*\*

Electronic Signature - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*.

Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Anchorage

Troy J. Engstrom, Lab Director

Trong Engstone



# **TestAmerica**

425-420-9200 FAX 420-9210 509-924-9300 FAX 924-9290 503-906-9200 FAX 906-9210 907-363-9200 FAX 563-9210

Work Order #: AR (0075 11720 North Creek Pkwy N Suin 400, Bothell, WA 99011-8244
11922 E. First Aw, Spekme, WA 99206-5302
9405 SW Nimbus Ave;Beaverton, OR 97008-7145
2000 W leternational Airport Rd Sie A10, Anchorage, AK 99502-1119 CHAIN OF CUSTODY REPORT THE LEADER IN ENVIRONMENTAL TESTING

CLIENT TOUIS TO LONSON FOUNDAMENTAL PLANCIONANCE	number und no	* Manchina	TAVORUM TO			MONTH OF GET	Work Order #: AKING	
JOLO 17 122 M. OT THOUGH	7001	6,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				TOTA	TURNAROUND REQUEST	
ADDRESS: // CUSSO // CO		71				,	le Business Days	
324 2nd STrue	or runam	rancones 47					A laceganic Anal	
PHONE: 455-7225 FAX: 455-7228	822t -55h	10111	P.O. NUMBER:					<u></u>
PROJECT NAME: SEEKINS PORD	reco		1	PRESERVATIVE				
PROJECT NUMBER: 1191-07	•	H1 H1 H1						
7				REQUESTED ANALYSES		OTHER	Samile	
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TAL-1000(0496)

# Test America Anchorage Cooler Receipt Form

WORK ORDER #\_AR10075 CLIENT: Trans/Peterson Date /Time Cooler Arrived 9 PROJECT: Seeking Ford 17/08 18:30 Cooler signed for by: Preliminary Examination Phase: Date cooler opened: same as date received Cooler opened by (print) Datect Mahal 1. Delivered by ALASKA AIRLINES | Fed-Ex (sign) ☐ UPS NAC DLYNDEN Shipment Tracking # if applicable LICLIENT Other: 2. Number of Custody Seals 2 (include copy of shipping papers in file) Signed by Melissa Were custody seals unbroken and intact on arrival? Date 9/17/08 Were custody papers sealed in a plastic bag? X Yes ☐ No 4. Were custody papers filled out properly (ink, signed, etc.)? Yes X No 5. Did you sign the custody papers in the appropriate place? X Yes □ No 6. Was ice used? Yes No Type of ice: blue ice gelice realice dry ice Condition of Ice: Solid Temperature by Digi-Thermo Probe O.3

Acceptance Criteria: 0 - 6°C Thermometer # Rec#3 7. Packing in Cooler: bubble wrap styrofosm cardboard Other: 8. Did samples arrive in plastic bags? ✓ Yes 9. Did all bottles arrive unbroken, and with labels in good condition? □No . Yes 10. Are all bottle labels complete (ID, date, time, etc.) X Yes 11. Do bottle labels and Chain of Custody agree? □No X Yes □No 12. Are the containers and preservatives correct for the tests indicated? X Yes 13. Conoco Phillips, Alyeska, BP H2O samples only: pH < 2? □No Yes □No 14. Is there adequate volume for the tests requested? KA N/A X Yes □No 15. Were VOA vials free of bubbles? □ N/A ¥ Yes If "NO" which containers contained "head space" or bubbles? ☐ No Log-in Phase: Date of sample log-in 09 / Samples logged in by (print) (sign) 1. Was project identifiable from custody papers? Yes Yes 2. Do Turn Around Times and Due Dates agree? ☐ No Yes Yes 3. Was the Project Manager notified of status? ☐ No Yes Yes □No 4. Was the Lab notified of status? V Yes 5. Was the COC scanned and copied? No Yes No

Custody Seal Caplinder 17,200 8

THE LEADER IN ENVIRONMENTAL TEST 149487