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September 24, 2012
1197-02

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

Attention: Al Haynes-Service Manager

Re: 2012 Annual Groundwater Monitoring Report, 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 4 and 5, 2012 at Seekins Ford – Lincoln, Inc. (Figures 1 and 2 in Attachment 1).

On September 4 and 5, 2012 monitoring wells MW-1, MW-2, MW-3, MW-6 and MW-7 were sampled. The sample labeled MW-5 is a duplicate of MW-2. The samples were submitted to Alaska Analytical Laboratory and Pace Analytical Laboratory for analysis by the following methods:

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

Field Measurements

Depth to groundwater and well depths were measured from the top of each well casing prior to sampling (Table 1). All of the wells sampled were flush mount wells so measurements below top of casing are considered to be below ground surface. The analytical results from this sampling event appear in Table 2. For historic trends in all wells, see Attachment 2. Complete laboratory analytical reports and quality assurance checklists are included as Attachment 3.

Table 1. Well Measurement Data

Well	Depth to Water (ft)	Total Depth (ft)	Casing Height(ft)
MW-1	14.93	24.60	flush mount
MW-2	15.38	24.47	flush mount
MW-3	14.35	22.64	flush mount
MW-6	15.00	22.10	flush mount
MW-7	15.59	21.45	flush mount

Table 2. 2012 Analytical Results

Sample	DRO (mg/L)	GRO (mg/L)	VOC (µg/L)
MW-1	0.670	**75.3**	acetone: 20.5 benzene: 4.7 n-butylbenzene:15.3 sec-butylbenzene: 7.5 1,4-dichlorobenzene: 1.3 ethylbenzene: **3,090** isopropylbenzene(cumene): 117 p-isopropyltoluene: 7.4 naphthalene: 90.9 n-propylbenzene: 176 styrene: **183** toluene: **3,670** 1,2,3-trichlorobenzene: 4.2 1,2,4-trichlorobenzene: 4.5 Trichlorofluoromethane: 1.5 1,2,4-trimethylbenzene: **2,220** 1,3,5-trimethylbenzene: 587 Xylenes (total): **18,400** m&p xylene: 12,200 o-xylene: 6,190
MW-2	0.144	0.0566J	tetrachloroethene: **5.2** 1,1,1-trichloroethane: 3.8 trichlorofluoromethane: 1.4
MW-2 duplicate	0.127J	0.0374J	tetrachloroethene: **5.3** 1,1,1-trichloroethane: 3.7 trichlorofluoromethane: 1.3
MW-3	0.172	0.0408J	1,2-dichlorobenzene: 4.8 p-Isopropyltoluene: 2.2 naphthalene: 4.7 tetrachloroethene: 1.4 1,2,4-trimethylbenzene: 1.7
MW-6	0.0160J	0.0347J	tetrachloroethene: 1.6 trichlorofluoromethane: 3.8
MW-7	ND (<0.135)	0.026J	trichlorofluoromethane: 13.4
Cleanup Level [a]	1.5	2.2	acetone: 33,000 benzene: 5.0 n-butylbenzene: 370 1,4-dichlorobenzene: 75 ethylbenzene: 700 isopropylbenzene: 3,700 p-isopropyltoluene: n/a naphthalene: 730[a] Styrene: 100 tetrachloroethene: 5.0[c] trichlorofluoromethane: 11,000[a] 1,1,1-trichloroethane: 200 1,3,5-Trimethylbenzene: 1,800[a] 1,2,4-Trimethylbenzene: 1,800[a]

[a]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. [b]Other sources. [c]MCL established by the EPA for drinking water. n/a – cleanup standard not available.

Discussion

Detections in MW-1
Results indicate low to non-detect levels of GRO compounds in all wells except in MW-1 where GRO was detected at 75.3 mg/L (2.2 mg/L cleanup standard). In 2008, GRO was detected in MW-1 at 15.5 mg/L and in 2007 at 47.6 mg/L. The 2012 detection of GRO in MW-1 represents a fourfold increase in GRO levels. DRO was either non-detect or detected at J-flagged (estimated) concentrations in all wells except MW-1 where it was detected at 0.67 mg/L and the cleanup standard is 1.5 mg/L. The most recent past results for DRO in MW-1 are from the 2008 sampling event where DRO was detected at 1.68 mg/L. The possibility exists that the increased GRO in MW-1 is a breakdown product of DRO.

However, GRO was not the only petroleum related product to have increased in MW-1. Toluene was detected in 2008 at 1.75 mg/L and in 2012 at 3.67 mg/L with a cleanup standard of 1.0 mg/L. Ethylbenzene was detected in 2008 at 1.08 mg/L and in 2012 at 3.09 mg/L, while benzene concentrations decreased from 6.3 mg/L in 2008 to 4.7 mg/L in 2012 which is just below the cleanup level of 5.0 mg/L. Total xylenes were detected in MW-1 at 18.4 mg/L above the cleanup standard of 10 mg/L. Total xylenes were detected at 5.79 mg/L in 2008.

The VOC 1,2,4-trimethylbenzene increased since 2008 when it was detected at 735 µg/L to 2,200 µg/L in 2012 and has a cleanup standard of 1,800 µg/L. Other VOCs detected in MW-1 include naphthalene, acetone, trichlorofluoromethane, 1,4-dichlorobenzene, isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, sec-butylbenzene, p-isopropyltoluene, styrene, and n-butylbenzene. The concentrations of each of these compounds are presented in Table 2 and in Attachment 2 for comparison to historic trends.

Remaining Wells
Concentrations of DRO in most samples were non-detect or detected just above the method detection limit and below the practical quantitation limit and were therefore J-flagged as estimated values by the laboratory.

BTEX constituents were not detected in the remaining wells in 2012. Some VOCs were detected in the other wells however most were below cleanup standards. Tetrachloroethene (PCE) was detected in MW-2 and its duplicate sample at 5.2 µg/L and 5.3 µg/L respectively. The cleanup standard for PCE is 5.0 µg/L.

In 2010, Sample MW-7 was also analyzed for sulfolane by EPA method 8270 and results were non-detect at 0.010 mg/L reporting limit.

Conclusions

The increased concentrations observed in MW-1 could be due to the breakdown of larger hydrocarbons such as DRO. However, this is not certain. TPECI recommends sampling MW-1 again in 2013 to get back to back annual monitoring data for this well only. This should help determine if an increasing trend in concentrations is evident or not. TPECI also requests to waive the DRO sampling requirement in all wells except MW-1 since it was either non-detect or detected below the cleanup standard at all wells. The next scheduled sampling event for the entire project is September 2014.

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

Sincerely,

Melissa S. Shippey

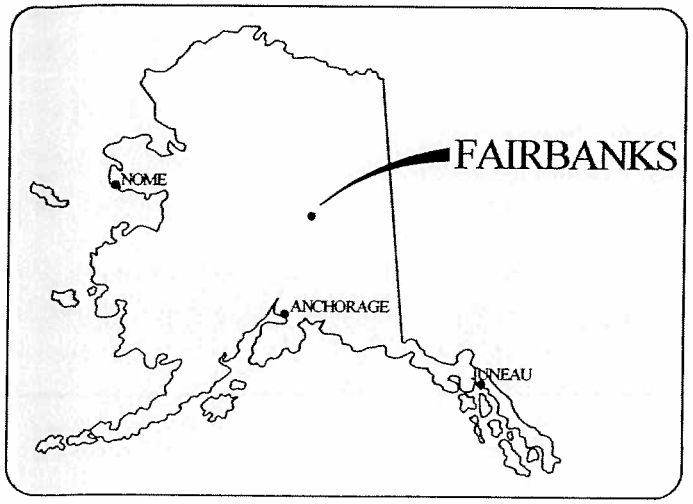
Melissa S. Shippey
Senior Scientist

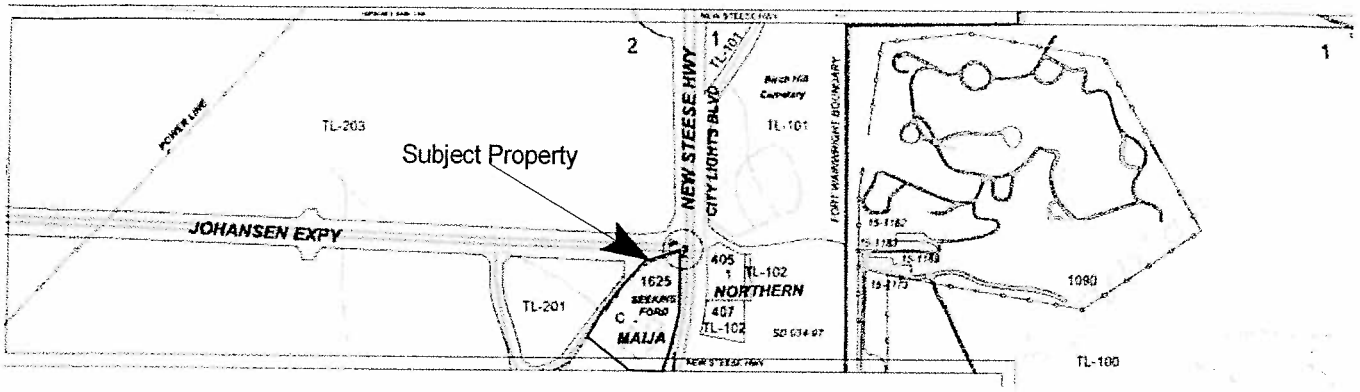
Cc: Tamara Cardona-Marek, Environmental Program Specialist III, State of Alaska, Department of Environmental Conservation.

Attachments: Figures 1 and 2
Historical Groundwater Data Table
Laboratory Data Report

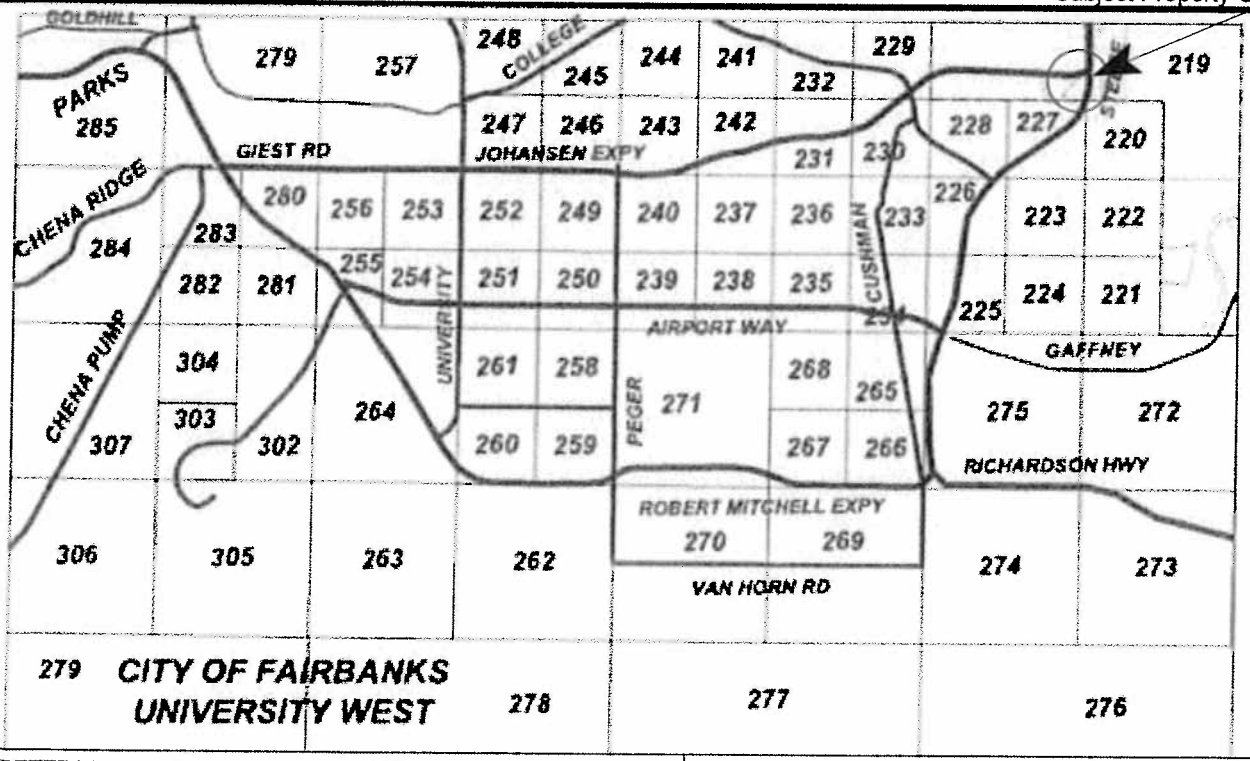
ATTACHMENT 1

FIGURES



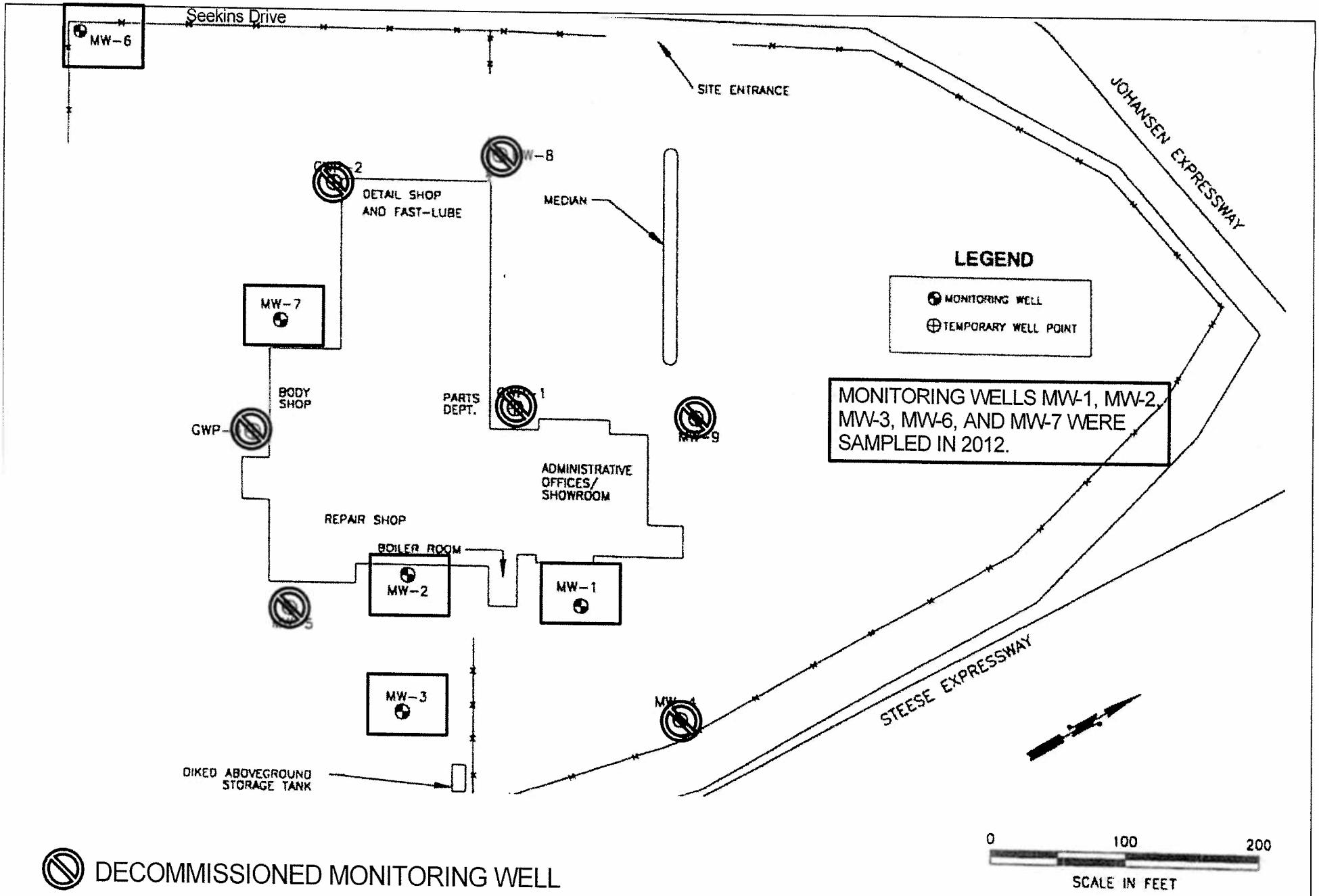


Subject Property Overview



TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 2ND STREET FAIRBANKS, ALASKA 99701	FIGURE 1 SEEKINS FORD-LINCOLN-MERCURY LOCATION & VICINITY

PROJECT No: 1197-02	FILE: 1197/02/2012/Figure 1-Location & Vicinity.SKF	DATE: 09/24/2012	SCALE: AS SHOWN



DECOMMISSIONED MONITORING WELL

TRAVIS/PETERSON ENVIRONMENTAL CONSULTING, INC. 329 2ND STREET FAIRBANKS, ALASKA 99701		SEEKINS FORD-LINCOLN-MERCURY	FIGURE 2 SITE PLAN
PROJECT No: 1197-02	FILE: S:\Projects\1197\02\2012\Figure 2-Site Plan.SKF	DATE: 09/24/12	SCALE: AS SHOWN

ATTACHMENT 2

HISTORICAL GROUNDWATER DATA

Well Number	Date	Distance to Water (In Feet)	GRO (µg/L)	DRO (µg/L)	Acetone (µg/L)	Benzene (µg/L)	2-Butanone (MEK) (µg/L)	n-Butyl benzene (µg/L)	sec-Butyl benzene (µg/L)	tert-Butyl-benzene (µg/L)	1,2,3-Trichloro propane (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Total Xylenes (µg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Fluoranthene (µg/L)	Pyrene (µg/L)	Acenaph-thylene (µg/L)
ADEC MCL (ug/L)			**1,300**	**1,500**	**3,650**	**5.0**	**22,000**	**370**	**370**	**N/A**	**0.4**	**1,800**	**1,800**	**10,000**	**1,460**	**11,000**	**1,460**	**1,100**	**2,200**
MW-1	7/21/1995	14.2	180	5.4	--	**12,000**	--	--	--	ND	--	--	--	--	--	--	--	--	--
	5/1/1996	15.7	240	6.2	ND	**7,500**	ND	ND	ND	ND	ND	3,000	740	--	--	--	--	--	--
	8/7/1996	15.28	250	11	--	**8,500**	--	--	--	ND	--	--	--	--	--	--	--	--	--
	11/21/1996	15.57	330	9.6	--	**11,000**	--	--	--	ND	--	--	--	--	--	--	--	--	--
	5/25/2005	14.64	1,120	0.363	ND	ND	ND	ND	ND	ND	ND	69	19.3	317	ND	ND	ND	ND	ND
	7/17/2006	14.62	9,810	0.843	ND	ND	ND	ND	245	ND	ND	370	ND	1,420	ND	ND	ND	ND	ND
	9/13/2007	14.74	**47,600**	**3,620**	--	**25.6**	ND	10.1	9.71	ND	ND	1,310	356	**15,670**	--	--	--	--	--
	9/16/2008	12.65	**15,500**	**1,680**	ND	**6.3**	84.4	ND	ND	ND	ND	735	175	**5,790**	--	--	--	--	--
	11/8/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2011	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/4/2012	14.93	**75,300**	670	20.5	4.7	ND	15.3	7.5	--	ND	**2,200**	587	**18,400**	--	--	--	--	--
MW-2	7/21/1995	14.64	0.15	0.35	ND	ND	ND	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	16.13	0.26	0.74	ND	2	ND	ND	ND	ND	ND	22.2	16.2	ND	ND	ND	ND	ND	ND
	8/7/1996	15.72	0.16	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/1996	16.02	0.105	2.1	ND	ND	ND	ND	ND	ND	ND	8.55	6.61	ND	ND	ND	ND	ND	ND
	5/25/2005	15.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2006	**Well was obstructed.**																	
	9/13/2007	15.18	ND	950	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	9/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2010	16.49	ND	232	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/5/2012	15.38	0.0566J	0.144	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--
duplicate	9/5/2012	15.38	0.0374J	0.127J	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--
MW-3	7/21/1995	13.7	2.8	13	ND	**8**	ND	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	15.18	0.99	5.4	ND	ND	ND	ND	ND	ND	ND	49	18	ND	1.4	1.7	1.1	0.3	ND
	8/7/1996	14.78	0.27	3.6	25	ND	ND	ND	ND	ND	ND	19.5	9.6	ND	ND	ND	ND	ND	ND
	11/21/1996	14.29	0.16	5.4	ND	ND	ND	ND	ND	ND	ND	19.9	9.07	ND	0.9	0.8	0.1	0.1	0.3
	5/25/2005	14.12	117	1.05	16.4	ND	ND	1.18	1.04	1.09	ND	15.9	5.92	12.4	ND	ND	ND	ND	ND
	7/17/2006	14.13	ND	0.583	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	14.22	ND	995	--	ND	ND	ND	ND	ND	ND	5.35	2.16	ND	--	--	--	--	--
duplicate	9/13/2007	N/A	ND	**1,760**	--	ND	ND	ND	ND	ND	ND	5.09	2.07	1.26	--	--	--	--	--
	9/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2010	15.49	13.9J	227J	ND	ND	ND	ND	ND	ND	ND	6.1	2.4	ND	ND	ND	ND	ND	ND
	9/5/2012	14.35	0.0408J	0.172	ND	ND	ND	ND	ND	--	ND	1.7	ND	ND	--	--	--	--	--
MW-4	7/21/1995	12.93	ND	ND	ND	ND	ND	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	14.43	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	8/7/1996	14.02	ND	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	11/21/1996	14.29	ND	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	13.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/18/2006	13.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	13.5	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	3.71	--	--	--	--	--
MW-5	5/1/1996	15.68	0.17	1.1	ND	2.49	ND	ND	2.68	ND	ND	36.2	15	ND	--	--	--	--	--
	8/7/1996	15.27	ND	0.99	20	1.24	ND	ND	ND	ND	ND	7.8	3.3	ND	--	--	--	--	--
	11/21/1996	15.61	ND	1	ND	1.05	ND	ND	ND	ND	ND	6.52	2.38	ND	--	--	--	--	--
	Well Decomissioned 10/28/2005																		
MW-6	5/1/1996	15.78	0.12	0.94	27.2	ND	ND	11	4.73	ND	ND	37.7	11.7	ND	--	--	--	--	--
	8/7/1996	15.35	ND	0.56	ND	ND	ND	ND	ND	ND	ND	1.2	0.7	ND	--	--	--	--	--
	11/21/1996	15.61	ND	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	14.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/14/2005	13.39	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2006	14.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	14.8	ND	348	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	9/16/2008	12.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.35	--	--	--	--	--
duplicate	9/16/2008	12.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.13	--	--	--	--	--
	11/8/2010	16.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/4/2012	15.00	0.347J	0.0160J	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--
MW-7	5/1/1996	16.29	0.26	0.47	ND	ND	ND	2.42	1.33	ND	ND	25.8	7.45	ND	--	--	--	--	--
	8/7/1996	15.86	ND	0.3	287	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	11/21/1996	16.14	ND	0.2	451	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	15.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2006	**Well was frozen at 6 ft bgs.**																	
	9/13/2007	15.35	ND	326	--	ND	ND	ND	ND	ND	ND	ND	ND	11.81	--	--	--	--	--
	9/16/2008	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2010	16.67	ND	3.9J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUPLICATE	11/8/2010	16.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/5/2012	15.59	0.026J	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	--
MW-8	5/1/1996	16.49	0.35	0.69	36.2	**8.39**	18	5.06	2.64	ND	1.14	41.8	13	ND	--	--	--	--	--
	8/7/1996	16.04	ND	0.38	ND	1.36	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	11/21/1996	16.33	ND	0.15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	15.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Well Decomissioned 10/28/2005																		
MW-9	5/1/1996	15.95	0.06	0.84	ND	ND	ND	3.72	1.67	ND	ND	11.32	3.43	ND	--	--	--	--	--
	8/7/1996	15.53	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	11/21/1996	15.84	ND	0.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	15.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Well Decomissioned 10/28/2005																		
GWP-1	7/21/1995	14.62	4	0.19	--	**1,500**	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	16.11	0.34	0.48	ND	**117**	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	8/7/1996	15.69	0.84	0.72	--	**230**	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	11/21/1996	15.97	0.499	0.29	--	**160**	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/25/2005	15.03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Well Decomissioned 10/28/2005																		
GWP-2	7/21/1995	15.02	ND	ND	--	ND	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	16.54	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	8/7/1996	16.1	ND	0.16	--	ND	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	11/21/1996	16.4	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--
	5/25/2005	15.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/2008	13.53	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.84	--	--	--	--	--
GWP-3	7/21/1995	14.18	ND	ND	--	ND	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/1/1996	15.71	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/7/1996	15.31	ND	0.29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/1996	15.58	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/25/2005	15.68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2006	14.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/13/2007	14.8	ND	491	--	ND	ND	ND	ND	ND	ND	5.83	1.12	43.3	--	--	--	--	--
DUP-1	5/1/1996	N/A	220	5.6	ND	**10,000**	ND	--	ND	ND	ND	3,100	780	ND	--	--	--	--	--
	8/7/1996	N/A	250	9.4	ND	**9,700**	ND	--	ND	ND	ND	2,300	710	ND	--	--	--	--	--
	11/21/1996	N/A	0.231	4.8	--	ND	--	--	--	ND	--	--	--	ND	--	--	--	--	--
	5/25/2005	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/5/2005	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7/17/2006	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

DCE dichloroethene
DCA dichloroethane
TCE trichloroethene
MCL maximum contaminant level
* Indicates the EPA established MCL goal for this compound. Found at: http://www.epa.gov/safewater/contamina
** No established MCL could be identified for this compound. TPECI personnel have consulted with ADEC perso an MCL exists for this compound.

PCE tetrachloroethene
DCB dichlorobenzene
TCB trichlorobenzene
TMB trimethylbenzene

ATTACHMENT 3

LABORATORY DATA REPORT

Alaska Analytical Laboratory
1956 Richardson Highway
North Pole, Alaska 99705
TEL: (907) 488-1271 FAX: (907) 488-0772
Website: www.alaska-analytical.com

September 20, 2012

Melissa Shippey
Travis/Peterson Environmental Consulting Inc.
329 Second Street
Fairbanks, Alaska 99701
TEL: (907) 455-7225
FAX: (907) 455-7228

RE: Seekins Ford 1197-02 Order No.: 1209003

Dear Melissa Shippey:

Alaska Analytical Laboratory received 8 sample(s) on 9/5/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

Alaska Analytical Laboratory, Inc. subcontracted 7 water samples. The analyses were performed by Pace Analytical Services, Inc. of Seattle, WA. Their report is attached for your use.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Kelley Lovejoy

Kelley Lovejoy
Chief Chemist
1956 Richardson Highway
North Pole, Alaska 99705

Alaska Analytical Laboratory
1956 Richardson Highway
North Pole, Alaska 99705
TEL: (907) 488-1271 FAX: (907) 488-0772
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Case Narrative

WO#: **1209003**
Date: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting
Project: Seekins Ford 1197-02

This report in its entirety consists of the documents listed below. All documents contain the Alaska Analytical Laboratory Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.

2. A Cover Letter that immediately precedes the Paginated Report.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.
1209003-001C SW8260BW was subcontracted
1209003-002C SW8260BW was subcontracted
1209003-003C SW8260BW was subcontracted
1209003-004C SW8260BW was subcontracted
1209003-005C SW8260BW was subcontracted
1209003-006C SW8260BW was subcontracted
1209003-008A SW8260BW was subcontracted

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/4/2012 1:20:00 PM

Project: Seekins Ford 1197-02

Lab ID: 1209003-001 **Matrix:** WATER

Client Sample ID MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	0.670	0.273		mg/L	2	9/12/2012 12:20:16 AM
Surr: o-Terphenyl	45.0	50-150	S01	%REC	2	9/12/2012 12:20:16 AM
NOTES:						
S01 - Dilution used resulted in surrogate values outside the established control Limits.						
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	75,300	5,000		µg/L	50	9/11/2012 9:53:45 PM
Surr: 4-Bromofluorobenzene	92.1	50-150		%REC	50	9/11/2012 9:53:45 PM
Surr: a,a,a-trifluorotoluene	108	50-150		%REC	50	9/11/2012 9:53:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit
PL	Permit Limit	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/4/2012 2:32:00 PM

Project: Seekins Ford 1197-02

Lab ID: 1209003-002 **Matrix:** WATER

Client Sample ID MW-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	0.0160	0.137	J	mg/L	1	9/12/2012 1:22:20 AM
Surr: o-Terphenyl	89.8	50-150		%REC	1	9/12/2012 1:22:20 AM
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	34.7	100	J	µg/L	1	9/11/2012 10:46:56 PM
Surr: 4-Bromofluorobenzene	93.8	50-150		%REC	1	9/11/2012 10:46:56 PM
Surr: a,a,a-trifluorotoluene	104	50-150		%REC	1	9/11/2012 10:46:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit
PL	Permit Limit	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/5/2012 10:45:00 AM

Project: Seekins Ford 1197-02

Lab ID: 1209003-003 **Matrix:** WATER

Client Sample ID MW-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	0.144	0.136		mg/L	1	9/12/2012 1:53:23 AM
Surr: o-Terphenyl	102	50-150		%REC	1	9/12/2012 1:53:23 AM
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	56.6	100	J	µg/L	1	9/6/2012 8:46:47 PM
Surr: 4-Bromofluorobenzene	119	50-150		%REC	1	9/6/2012 8:46:47 PM
Surr: a,a,a-trifluorotoluene	84.8	50-150		%REC	1	9/6/2012 8:46:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Method Detection Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/5/2012 11:30:00 AM

Project: Seekins Ford 1197-02

Lab ID: 1209003-004 **Matrix:** WATER

Client Sample ID MW-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	0.127	0.135	J	mg/L	1	9/12/2012 2:24:44 AM
Surr: o-Terphenyl	87.5	50-150		%REC	1	9/12/2012 2:24:44 AM
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	37.4	100	J	µg/L	1	9/6/2012 9:13:16 PM
Surr: 4-Bromofluorobenzene	120	50-150		%REC	1	9/6/2012 9:13:16 PM
Surr: a,a,a-trifluorotoluene	85.0	50-150		%REC	1	9/6/2012 9:13:16 PM

DRO: $\frac{(0.144 - 0.127J)}{[(0.144 + 0.127J)/2]} \times 100 = \frac{0.017}{0.135} \times 100 = 0.125 \times 100 =$ 12.5% RPD

GRO: $\frac{(56.6J - 37.4J)}{[56.6J + 37.4J)/2]} \times 100 = \frac{19.2}{47} \times 100 = 0.40 \times 100 =$ 40% RPD

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/5/2012 12:00:00 PM

Project: Seekins Ford 1197-02

Lab ID: 1209003-005 **Matrix:** WATER

Client Sample ID MW-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	ND	0.135		mg/L	1	9/12/2012 2:55:52 AM
Surr: o-Terphenyl	92.2	50-150		%REC	1	9/12/2012 2:55:52 AM
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	26.0	100	J	µg/L	1	9/6/2012 9:39:41 PM
Surr: 4-Bromofluorobenzene	122	50-150		%REC	1	9/6/2012 9:39:41 PM
Surr: a,a,a-trifluorotoluene	83.5	50-150		%REC	1	9/6/2012 9:39:41 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit
PL	Permit Limit	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/5/2012 1:00:00 PM

Project: Seekins Ford 1197-02

Lab ID: 1209003-006 **Matrix:** WATER

Client Sample ID MW-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
AK102SVW				**AK102**	**SW3510**	Analyst: **KL**
Diesel Range Organics C10-C25	0.172	0.135		mg/L	1	9/12/2012 3:26:31 AM
Surr: o-Terphenyl	104	50-150		%REC	1	9/12/2012 3:26:31 AM
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	40.8	100	J	µg/L	1	9/11/2012 11:39:51 PM
Surr: 4-Bromofluorobenzene	94.0	50-150		%REC	1	9/11/2012 11:39:51 PM
Surr: a,a,a-trifluorotoluene	106	50-150		%REC	1	9/11/2012 11:39:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Method Detection Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **1209003**

Date Reported: **9/20/2012**

CLIENT: Travis/Peterson Environmental Consulting Inc. **Collection Date:** 9/5/2012 1:20:00 PM

Project: Seekins Ford 1197-02

Lab ID: 1209003-007 **Matrix:** WATER

Client Sample ID Trip Blank - GRO

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS				**AK101**		Analyst: **KL**
Gasoline Range Organics C6-C10	14.1	100	J	µg/L	1	9/6/2012 7:27:21 PM
Surr: 4-Bromofluorobenzene	119	50-150		%REC	1	9/6/2012 7:27:21 PM
Surr: a,a,a-trifluorotoluene	85.0	50-150		%REC	1	9/6/2012 7:27:21 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
M	Manual Integration used to determine area response
PL	Permit Limit
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Method Detection Limit
RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **1209003**
20-Sep-12

Client: Travis/Peterson Environmental Consulting Inc.
Project: Seekins Ford 1197-02

MDL = 10.0

TestCode: AK101W

Sample ID: **MB-R619**	SampType: **MBLK**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:	RunNo: **619**
Client ID: **PBW**	Batch ID: **R619**	TestNo: **AK101**		Analysis Date: **9/6/2012**	SeqNo: **5910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	16.5	100		Above MDL below PQL							J
Surr: 4-Bromofluorobenzene	50.9		50.00		102	60	120				
Surr: a,a,a-trifluorotoluene	50.7		50.00		101	60	120				

Sample ID: **LCS-R619**	SampType: **LCS**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:	RunNo: **619**
Client ID: **LCSW**	Batch ID: **R619**	TestNo: **AK101**		Analysis Date: **9/6/2012**	SeqNo: **5918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	2,520	100	2,500	0	101	60	120				
Surr: 4-Bromofluorobenzene	50.9		50.00		102	60	120				
Surr: a,a,a-trifluorotoluene	51.8		50.00		104	60	120				

Sample ID: **LCSD-R619**	SampType: **LCSD**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:	RunNo: **619**
Client ID: **LCSS02**	Batch ID: **R619**	TestNo: **AK101**		Analysis Date: **9/6/2012**	SeqNo: **5919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	2,510	100	2,500	0	101	60	120	2,517	0.0994	20	
Surr: 4-Bromofluorobenzene	50.6		50.00		101	60	120		0	0	
Surr: a,a,a-trifluorotoluene	51.6		50.00		103	60	120		0	0	

Sample ID: **MB-R620**	SampType: **MBLK**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:	RunNo: **620**
Client ID: **PBW**	Batch ID: **R620**	TestNo: **AK101**		Analysis Date: **9/11/2012**	SeqNo: **5920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	32.5	100									J

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit	P	Second column confirmation exceeds
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1209003**
20-Sep-12

Client: Travis/Peterson Environmental Consulting Inc.
Project: Seekins Ford 1197-02

TestCode: **AK101W**

Sample ID: **MB-R620**	SampType: **MBLK**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:		RunNo: **620**
Client ID: **PBW**	Batch ID: **R620**	TestNo: **AK101**		Analysis Date: **9/11/2012**		SeqNo: **5920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	51.0		50.00		102	60	120				
Surr: a,a,a-trifluorotoluene	49.9		50.00		99.8	60	120				

Sample ID: **LCS-R620**	SampType: **LCS**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:		RunNo: **620**
Client ID: **LCSW**	Batch ID: **R620**	TestNo: **AK101**		Analysis Date: **9/11/2012**		SeqNo: **5929**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	2,540	100	2,500	0	102	60	120				
Surr: 4-Bromofluorobenzene	50.4		50.00		101	60	120				
Surr: a,a,a-trifluorotoluene	51.5		50.00		103	60	120				

Sample ID: **LCSD-R620**	SampType: **LCSD**	TestCode: **AK101W**	Units: **µg/L**	Prep Date:		RunNo: **620**
Client ID: **LCSS02**	Batch ID: **R620**	TestNo: **AK101**		Analysis Date: **9/11/2012**		SeqNo: **5930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics C6-C10	2,570	100	2,500	0	103	60	120	2,538	1.12	20	
Surr: 4-Bromofluorobenzene	50.2		50.00		100	60	120		0	0	
Surr: a,a,a-trifluorotoluene	51.2		50.00		102	60	120		0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceede
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit	P	Second column confirmation exceeds
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: **1209003**

20-Sep-12

Client: Travis/Peterson Environmental Consulting Inc.
Project: Seekins Ford 1197-02

TestCode: AK102SVW

Sample ID: **LCS-299**	SampType: **LCS**	TestCode: **AK102SVW**	Units: **mg/L**	Prep Date: **9/6/2012**	RunNo: **617**
Client ID: **LCSW**	Batch ID: **299**	TestNo: **AK102**	**SW3510**	Analysis Date: **9/11/2012**	SeqNo: **5894**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	2.54	0.135	2.500	0	102	75	125				
Surr: o-Terphenyl	0.0521		0.05000		104	60	120				

Sample ID: **LCSD-299**	SampType: **LCSD**	TestCode: **AK102SVW**	Units: **mg/L**	Prep Date: **9/6/2012**	RunNo: **617**
Client ID: **LCSS02**	Batch ID: **299**	TestNo: **AK102**	**SW3510**	Analysis Date: **9/11/2012**	SeqNo: **5895**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	2.52	0.135	2.500	0	101	75	125	2.543	0.938	20	
Surr: o-Terphenyl	0.0526		0.05000		105	60	120		0	0	

Sample ID: **MB-299**	SampType: **MBLK**	TestCode: **AK102SVW**	Units: **mg/L**	Prep Date: **9/6/2012**	RunNo: **617**
Client ID: **PBW**	Batch ID: **299**	TestNo: **AK102**	**SW3510**	Analysis Date: **9/11/2012**	SeqNo: **5896**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	ND	0.135									
Surr: o-Terphenyl	0.0465		0.05000		93.0	60	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit	P	Second column confirmation exceeds
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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Sample Receipt Checklist

Client Name: **TPECI01**

Work Order Number **1209003**

Sample Details

SampID	ContainerID	Type	Org pH	Adj pH	Req Min pH	Req Max pH
1209003-001A	Container-01 of 02	Bottle				
1209003-001A	Container-02 of 02	Bottle				
1209003-001B	Container-01 of 03	Bottle				
1209003-001B	Container-02 of 03	Bottle				
1209003-001B	Container-03 of 03	Bottle				
1209003-001C	Container-01 of 03	Bottle				
1209003-001C	Container-02 of 03	Bottle				
1209003-001C	Container-03 of 03	Bottle				
1209003-002A	Container-01 of 02	Bottle				
1209003-002A	Container-02 of 02	Bottle				
1209003-002B	Container-01 of 03	Bottle				
1209003-002B	Container-02 of 03	Bottle				
1209003-002B	Container-03 of 03	Bottle				
1209003-002C	Container-01 of 03	Bottle				
1209003-002C	Container-02 of 03	Bottle				
1209003-002C	Container-03 of 03	Bottle				
1209003-003A	Container-01 of 02	Bottle				
1209003-003A	Container-02 of 02	Bottle				
1209003-003B	Container-01 of 03	Bottle				
1209003-003B	Container-02 of 03	Bottle				
1209003-003B	Container-03 of 03	Bottle				
1209003-003C	Container-01 of 03	Bottle				
1209003-003C	Container-02 of 03	Bottle				
1209003-003C	Container-03 of 03	Bottle				
1209003-004A	Container-01 of 02	Bottle				
1209003-004A	Container-02 of 02	Bottle				
1209003-004B	Container-01 of 03	Bottle				
1209003-004B	Container-02 of 03	Bottle				
1209003-004B	Container-03 of 03	Bottle				

Alaska Analytical Laboratory
1956 Richardson Highway
North Pole, Alaska 99705
TEL: (907) 488-1271 FAX: (907) 488-0772
Website: www.alaska-analytical.com

Sample Receipt Checklist

Client Name: **TPECI01**

Work Order Number **1209003**

1209003-004C	Container-01 of 03	Bottle
1209003-004C	Container-02 of 03	Bottle
1209003-004C	Container-03 of 03	Bottle
1209003-005A	Container-01 of 02	Bottle
1209003-005A	Container-02 of 02	Bottle
1209003-005B	Container-01 of 03	Bottle
1209003-005B	Container-02 of 03	Bottle
1209003-005B	Container-03 of 03	Bottle
1209003-005C	Container-01 of 03	Bottle
1209003-005C	Container-02 of 03	Bottle
1209003-005C	Container-03 of 03	Bottle
1209003-006A	Container-01 of 02	Bottle
1209003-006A	Container-02 of 02	Bottle
1209003-006B	Container-01 of 03	Bottle
1209003-006B	Container-02 of 03	Bottle
1209003-006B	Container-03 of 03	Bottle
1209003-006C	Container-01 of 03	Bottle
1209003-006C	Container-02 of 03	Bottle
1209003-006C	Container-03 of 03	Bottle
1209003-007A	Container-01 of 03	Bottle
1209003-007A	Container-02 of 03	Bottle
1209003-007A	Container-03 of 03	Bottle
1209003-008A	Container-01 of 03	Bottle
1209003-008A	Container-02 of 03	Bottle
1209003-008A	Container-03 of 03	Bottle

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Cell: (907) 687-7394 Fax: (907) 488-0772

Chain of Custody Record

ALASKA ANALYTICAL LABORATORY

Client Contact Information	Client Project Manager (PM): M. Shippey	Client PM Email: MShippey@tpeci.com	Date: 9/4/12	COC No: 12-0067
TPECI	PM Tel/Fax: 9074557225	Lab Contact: Kelley Lovejoy	Carrier:	Page 1 of 1
329 2nd Street	**Analysis Turnaround Time**			AAL Job No. 67
Fairbanks AK 99701	Requested Turnaround Time if different from below:			
Sampler Name: Melissa Shippey	☒ 10 business days (Standard)			Comments:
Sampler Signature:	☐ 3 business days			
Project Name: Seeling Road	☐ 2 Business Days			
Project Number: 1197-02	☐ 1 Business Day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	VOC by EPA 8260	GRO by AK101	DRO by AK102	Sample Specific Notes:
MW-1	9/4/12	1:20P	G	W	8	X	X	X	
MW-10	9/4/12	2:32P	G	W	8	X	X	X	
MW-2	9/5/12	10:45a	G	W	8	X	X	X	
MW-5	9/5/12	11:30a	G	W	8	X	X	X	
MW-7	9/5/12	12:00P	G	W	8	X	X	X	
MW-3	9/5/12	1:00P	G	W	8	X	X	X	
TRIP BLANK	9/5/12	1:00P	G	W	6	X	X		

Preservation Used: 1 = Ice, 2 = Methanol 3 = Other HCl

Possible Hazard Identification Petroleum Related

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments [Please note if there is Mercury in the sample.]

Custody Seals Intact

Temp Blank 3.1°C
Cooler Temp 3.2°C

Relinquished by (Print/Signature):	Company:	Date/Time:	Received by (Print/Signature):	Company:	Date/Time:
Melissa S. Shippey	TPECI	9/5/12 1:30P	Kelley Lovejoy	AAL	9/5/12 2:30PM
Relinquished by (Print/Signature):	Company:	Date/Time:	Received by (Print/Signature):	Company:	Date/Time:
Relinquished by (Print/Signature):	Company:	Date/Time:	Received by (Print/Signature):	Company:	Date/Time:

TPEC101
12-0067
9/5/12

CUSTODY SEAL

ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Da te: 9/5/12

Signatu re: [signature]

CUSTODY SEAL

ENVIRONMENTAL SAMPLING SUPPLY
9601 San Leandro St. Oakland, CA 800-233-8425

Date: 9/5/12

Signature: [signature]

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Website: www.alaska-analytical.com

Sample Receipt Checklist

Client Name: **TPECI01** Work Order Number **1209003**

RcptNo: **1** Date and Time Received: **9/5/2012 2:42:56 PM** Received by: **Kelley Lovejoy**

Completed by: Kelley Lovejoy Reviewed by: Kelley Lovejoy

Completed Date: 9/5/2012 2:44:03 PM Reviewed Date: 9/5/2012 2:44:06 PM

Carrier name: Client

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	Not Present ☐
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐	
Is it clear what analyses were requested?	Yes ☑	No ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Samples in proper container/bottle?	Yes ☑	No ☐	
Were correct preservatives used and noted?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
Were container lables complete (ID, Pres, Date)?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Was an attempt made to cool the samples?	Yes ☐	No ☑	
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	
Response when temperature is outside of range:			
Preservative added to bottles:			
Sample Temp. taken and recorded upon receipt?	Yes ☑	No ☐	3.1 To 3.1 °
Water - Were bubbles absent in VOC vials?	Yes ☑	No ☐	No Vials ☐
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	No Water ☐
Are Samples considered acceptable?	Yes ☑	No ☐	
Custody Seals present?	Yes ☑	No ☐	
Traffic Report or Packing Lists present?	Yes ☐	No ☑	
Airbill or Sticker?	Air Bill ☑	Sticker ☐	Not Present ☐
Airbill No:			
Sample Tags Present?	Yes ☐	No ☑	
Sample Tags Listed on COC?	Yes ☐	No ☑	
Tag Numbers:			
Sample Condition?	Intact ☑	Broken ☐	Leaking ☐

Case Number: SDG: SAS:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.2	Good	Yes		9/5/2012	Melissa S Shippe

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

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Sample Receipt Checklist

Client Name: **TPECI01**

Work Order Number **1209003**

Client Contacted? ☐ Yes ☑ No ☐ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

CorrectiveAction:

Comments:
Was an attempt made to cool the sample? The lab did not attempt to cool the samples. Samples were received with gel ice in the cooler. Temp. Blank and Cooler were within the ADEC acceptable range.

Laboratory Data Review Checklist

Completed by:

Title: Melissa S. Shippey

Date: September 24, 2012

CS Report Name: Seekins Ford

Report Date: July 9, 2010

Consultant Firm: Travis/Peterson Environmental Consulting, Inc.

Laboratory Name: Alaska Analytical and Pace Analytical Laboratory

Laboratory Report Number:1209003

ADEC File Number: 100.26.131

ADEC RecKey Number:

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
   (•) Yes ( ) No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
   (•) Yes ( ) No Comments:

   The VOC samples were transferred to Pace in Seattle, WA.

2. Chain of Custody (COC)

   a. COC information completed, signed, and dated (including released/received by)?
   (•) Yes ( ) No Comments:

   b. Correct analyses requested?
   (•) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(•) Yes ( ) No Comments:

Cooler temp was 3.2°C and the temperature blank was 3.1°C.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

(•) Yes ( ) No Comments:

Samples were all in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

(•) Yes ( ) No Comments:

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

b. Discrepancies, errors or QC failures identified by the lab?

(•) Yes ( ) No Comments:

There were no discrepancies or errors or failures in the data.

c. Were all corrective actions documented?

( ) Yes (•) No Comments:

N/A

d. What is the effect on data quality/usability according to the case narrative?

Comments:

N/A no effect since there were no issues.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

( ) Yes ( ) No Comments:

No soils only groundwater.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

(•) Yes ( ) No Comments:

The Reporting Limit (PQL) for sample MW-1 for GRO was 5,000 ug/L. The cleanup standard is 2,200 ug/L. The sample had a dilution factor of 50 since the contamination was so high. All other GRO samples had an RL (PQL) of 100 ug/L.

e. Data quality or usability affected?

Comments:

No. sample results biased high.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(•) Yes ( ) No Comments:

The method blanks for GRO had detections above the MDL of 10.0 ug/L but were below the PQL 100.0 ug/L.

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

The GRO method blank results were J-flagged in the qualifiers column.

v. Data quality or usability affected? Explain.

Comments:

N/A

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

(•) Yes ( ) No Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (•) No Comments:

No metals samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

○ Yes ◉ No Comments:

Data quality or usability affected? (Use comment box to explain)
Comments:

N/A all LCS LCSD combinations were within sampling criteria.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

◉ Yes ○ No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

◉ Yes ○ No Comments:

Sample MW-1 had a low surrogate recovery as a result of the dilution used for this sample.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

◉ Yes ○ No Comments:

S01- is the data flag associated with this sample. It can be found on page 2 of the report.

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

N/A

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

◉ Yes ○ No Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

○ Yes ○ No Comments:

iii. All results less than PQL?

◉ Yes ○ No Comments:

However, the trip blank had a detection of 14.1 ug/L GRO, a J-flagged result since it was below the PQL but above the MDL.

iv. If above PQL, what samples are affected?

Comments:

GRO sample results would be biased slightly high in this report.

v. Data quality or usability affected? Explain.

Comments:

No, overall data quality is still usable for decision making on this site.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

(•) Yes ( ) No Comments:

Sample MW-5 is the duplicate for MW-2.

ii. Submitted blind to lab?

(•) Yes ( ) No Comments:

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

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

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

(•) Yes ( ) No Comments:

The RPD for DRO between primary and duplicate was 12.5%. The DRO result for MW-5 was a J-flagged estimated result. The RPD for GRO was 40% which is above the recommended 30% for water samples. Some imprecision is expected when comparing J-flagged (estimated) analytical results.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

DRO RPD was within acceptable range. GRO RPD was high and is likely due to comparing estimated results.

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below.)

○ Yes ○ No ◉ Not Applicable

i. All results less than PQL?

○ Yes ○ No Comments:

Decontamination blank not required since sampling equipment (i.e. tubing) was not reused from sampling station to sampling station. All new sampling equipment, nitrile gloves etc..were used at each sample location.

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

N/A

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940 South Harney
Seattle, WA 98108
(206)767-5060

September 20, 2012

Kelley Lovejoy
Alaska Analytical Laboratory
1956 Richardson Highway
North Pole, AK 99705

RE: Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Dear Kelley Lovejoy:
Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

D. Ely Bair

Ely Bair for
Dan Gossett
dan.gossett@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Washington Certification IDs
940 South Harney Street, Seattle, WA 98108
Alaska CS Certification #: UST-025
Arizona Certification #: AZ0770
California Certification #: 01153CA
Florida/NELAP Certification #: E87617
Oregon Certification #: WA200007
Washington Certification #: C555

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SAMPLE ANALYTE COUNT

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2513481001	**MW-1**	EPA 5030B/8260	BAG	71	PASI-S
2513481002	**MW-6**	EPA 5030B/8260	LPM	71	PASI-S
2513481003	**MW-2**	EPA 5030B/8260	LPM	71	PASI-S
2513481004	**MW-5**	EPA 5030B/8260	LPM	71	PASI-S
2513481005	**MW-7**	EPA 5030B/8260	LPM	71	PASI-S
2513481006	**MW-3**	EPA 5030B/8260	LPM	71	PASI-S
2513481007	**Trip Blank - 8260**	EPA 5030B/8260	BAG	71	PASI-S

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PROJECT NARRATIVE

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Alaska Analytical Lab
Date: September 20, 2012

General Information:
7 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/7730

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2513398054

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- MSD (Lab ID: 129995)
  - 1,1,2,2-Tetrachloroethane
  - 1,2,3-Trichloropropane
  - n-Butylbenzene

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 129994)
  - 2,2-Dichloropropane
- MSD (Lab ID: 129995)
  - 2,2-Dichloropropane

QC Batch: MSV/7758

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2513398065

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- MSD (Lab ID: 130094)

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PROJECT NARRATIVE

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: Alaska Analytical Lab
Date: September 20, 2012

QC Batch: MSV/7758

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2513398065

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- Acetone

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 130093)
  - Acetone

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-1 **Lab ID: 2513481001** Collected: 09/04/12 13:20 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**20.5**	ug/L	5.0	1		09/13/12 01:08	67-64-1	
Benzene	**4.7**	ug/L	1.0	1		09/13/12 01:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/13/12 01:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/13/12 01:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/13/12 01:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/13/12 01:08	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/13/12 01:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/13/12 01:08	78-93-3	
n-Butylbenzene	**15.3**	ug/L	1.0	1		09/13/12 01:08	104-51-8	
sec-Butylbenzene	**7.5**	ug/L	1.0	1		09/13/12 01:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/13/12 01:08	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/13/12 01:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/13/12 01:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/13/12 01:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/13/12 01:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/13/12 01:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/13/12 01:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/13/12 01:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/13/12 01:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/13/12 01:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/13/12 01:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/13/12 01:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/13/12 01:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/13/12 01:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/13/12 01:08	541-73-1	
1,4-Dichlorobenzene	**1.3**	ug/L	1.0	1		09/13/12 01:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/13/12 01:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/13/12 01:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/12 01:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/13/12 01:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/13/12 01:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/12 01:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/12 01:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/13/12 01:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/13/12 01:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/13/12 01:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/13/12 01:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/13/12 01:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/13/12 01:08	10061-02-6	
Ethylbenzene	**3090**	ug/L	50.0	50		09/13/12 15:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/13/12 01:08	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/13/12 01:08	591-78-6	
Isopropylbenzene (Cumene)	**117**	ug/L	1.0	1		09/13/12 01:08	98-82-8	
p-Isopropyltoluene	**7.4**	ug/L	1.0	1		09/13/12 01:08	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/13/12 01:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/13/12 01:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/13/12 01:08	1634-04-4	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-1 **Lab ID: 2513481001** Collected: 09/04/12 13:20 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	**90.9**	ug/L	1.0	1		09/13/12 01:08	91-20-3	
n-Propylbenzene	**176**	ug/L	1.0	1		09/13/12 01:08	103-65-1	
Styrene	**183**	ug/L	1.0	1		09/13/12 01:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/13/12 01:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/13/12 01:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/12 01:08	127-18-4	
Toluene	**3670**	ug/L	50.0	50		09/13/12 15:24	108-88-3	
1,2,3-Trichlorobenzene	**4.2**	ug/L	1.0	1		09/13/12 01:08	87-61-6	
1,2,4-Trichlorobenzene	**4.5**	ug/L	1.0	1		09/13/12 01:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/12 01:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/13/12 01:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/13/12 01:08	79-01-6	
Trichlorofluoromethane	**1.5**	ug/L	1.0	1		09/13/12 01:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/13/12 01:08	96-18-4	
1,2,4-Trimethylbenzene	**2220**	ug/L	50.0	50		09/13/12 15:24	95-63-6	
1,3,5-Trimethylbenzene	**587**	ug/L	50.0	50		09/13/12 15:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/13/12 01:08	75-01-4	
Xylene (Total)	**18400**	ug/L	150	50		09/13/12 15:24	1330-20-7	
m&p-Xylene	**12200**	ug/L	100	50		09/13/12 15:24	179601-23-1	
o-Xylene	**6190**	ug/L	50.0	50		09/13/12 15:24	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	84	%	79-121	1		09/13/12 01:08	460-00-4	
Dibromofluoromethane (S)	100	%	81-119	1		09/13/12 01:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	72-127	1		09/13/12 01:08	17060-07-0	
Toluene-d8 (S)	95	%	77-120	1		09/13/12 01:08	2037-26-5	

Sample: MW-6 **Lab ID: 2513481002** Collected: 09/04/12 14:32 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		09/14/12 10:54	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/12 10:54	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/14/12 10:54	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/14/12 10:54	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/14/12 10:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/14/12 10:54	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/14/12 10:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/14/12 10:54	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/14/12 10:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/14/12 10:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/14/12 10:54	75-00-3	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-6 **Lab ID: 2513481002** Collected: 09/04/12 14:32 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroform	ND	ug/L	1.0	1		09/14/12 10:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/14/12 10:54	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 10:54	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 10:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/14/12 10:54	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/14/12 10:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/14/12 10:54	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/14/12 10:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/14/12 10:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/14/12 10:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/12 10:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/14/12 10:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/12 10:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 10:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 10:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 10:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/14/12 10:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 10:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/14/12 10:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 10:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 10:54	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/14/12 10:54	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/14/12 10:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/14/12 10:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/14/12 10:54	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/14/12 10:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/14/12 10:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/14/12 10:54	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/14/12 10:54	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	103-65-1	
Styrene	ND	ug/L	1.0	1		09/14/12 10:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 10:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 10:54	79-34-5	
Tetrachloroethene	**1.6**	ug/L	1.0	1		09/14/12 10:54	127-18-4	
Toluene	ND	ug/L	1.0	1		09/14/12 10:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 10:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/14/12 10:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/14/12 10:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/14/12 10:54	79-01-6	
Trichlorofluoromethane	**3.8**	ug/L	1.0	1		09/14/12 10:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/14/12 10:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	95-63-6	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-6 **Lab ID: 2513481002** Collected: 09/04/12 14:32 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 10:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/14/12 10:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/14/12 10:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/14/12 10:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/14/12 10:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	109	%	79-121	1		09/14/12 10:54	460-00-4	
Dibromofluoromethane (S)	97	%	81-119	1		09/14/12 10:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	72-127	1		09/14/12 10:54	17060-07-0	
Toluene-d8 (S)	101	%	77-120	1		09/14/12 10:54	2037-26-5	

Sample: MW-2 **Lab ID: 2513481003** Collected: 09/05/12 10:45 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		09/14/12 11:12	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/12 11:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/14/12 11:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/14/12 11:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/14/12 11:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/14/12 11:12	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/14/12 11:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/14/12 11:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/14/12 11:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/14/12 11:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/14/12 11:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/14/12 11:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/14/12 11:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/14/12 11:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/14/12 11:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/14/12 11:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/14/12 11:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/14/12 11:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/14/12 11:12	540-59-0	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-2 **Lab ID: 2513481003** Collected: 09/05/12 10:45 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/14/12 11:12	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/14/12 11:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/14/12 11:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/14/12 11:12	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/14/12 11:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/14/12 11:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/14/12 11:12	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/14/12 11:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	103-65-1	
Styrene	ND	ug/L	1.0	1		09/14/12 11:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:12	79-34-5	
Tetrachloroethene	**5.2**	ug/L	1.0	1		09/14/12 11:12	127-18-4	
Toluene	ND	ug/L	1.0	1		09/14/12 11:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:12	120-82-1	
1,1,1-Trichloroethane	**3.8**	ug/L	1.0	1		09/14/12 11:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/14/12 11:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/14/12 11:12	79-01-6	
Trichlorofluoromethane	**1.4**	ug/L	1.0	1		09/14/12 11:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/14/12 11:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 11:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/14/12 11:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/14/12 11:12	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/14/12 11:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/14/12 11:12	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	108	%	79-121	1		09/14/12 11:12	460-00-4	
Dibromofluoromethane (S)	98	%	81-119	1		09/14/12 11:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	72-127	1		09/14/12 11:12	17060-07-0	
Toluene-d8 (S)	103	%	77-120	1		09/14/12 11:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-5 **Lab ID: 2513481004** Collected: 09/05/12 11:30 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		09/14/12 11:31	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/12 11:31	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/14/12 11:31	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/14/12 11:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/14/12 11:31	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/14/12 11:31	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/14/12 11:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/14/12 11:31	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:31	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:31	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/14/12 11:31	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/14/12 11:31	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/14/12 11:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/14/12 11:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/14/12 11:31	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/14/12 11:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/14/12 11:31	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:31	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/14/12 11:31	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/14/12 11:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/14/12 11:31	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/14/12 11:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/14/12 11:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:31	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/14/12 11:31	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/14/12 11:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/14/12 11:31	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/14/12 11:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/14/12 11:31	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/14/12 11:31	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/14/12 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/14/12 11:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/14/12 11:31	1634-04-4	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-5 **Lab ID: 2513481004** Collected: 09/05/12 11:30 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	1.0	1		09/14/12 11:31	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/14/12 11:31	103-65-1	
Styrene	ND	ug/L	1.0	1		09/14/12 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:31	79-34-5	
Tetrachloroethene	**5.3**	ug/L						
Toluene	ND	ug/L						
1,2,3-Trichlorobenzene	ND	ug/L						
1,2,4-Trichlorobenzene	ND	ug/L						
1,1,1-Trichloroethane	**3.7**	ug/L						
1,1,2-Trichloroethane	ND	ug/L						
Trichloroethene	ND	ug/L						
Trichlorofluoromethane	**1.3**	ug/L						
1,2,3-Trichloropropane	ND	ug/L						
1,2,4-Trimethylbenzene	ND	ug/L						
1,3,5-Trimethylbenzene	ND	ug/L						
Vinyl chloride	ND	ug/L						
Xylene (Total)	ND	ug/L						
m&p-Xylene	ND	ug/L						
o-Xylene	ND	ug/L						
Surrogates								
4-Bromofluorobenzene (S)	109	%						
Dibromofluoromethane (S)	98	%						
1,2-Dichloroethane-d4 (S)	98	%						
Toluene-d8 (S)	103	%						

Sample: MW-7 **Lab ID: 2513481005** Collected:

Parameters	Results	Units	Report
8260 MSV	Analytical Method: EPA 5030B/8260		
Acetone	ND	ug/L	
Benzene	ND	ug/L	
Bromobenzene	ND	ug/L	
Bromochloromethane	ND	ug/L	
Bromodichloromethane	ND	ug/L	
Bromoform	ND	ug/L	
Bromomethane	ND	ug/L	
2-Butanone (MEK)	ND	ug/L	
n-Butylbenzene	ND	ug/L	
sec-Butylbenzene	ND	ug/L	
tert-Butylbenzene	ND	ug/L	
Carbon disulfide	ND	ug/L	
Carbon tetrachloride	ND	ug/L	
Chlorobenzene	ND	ug/L	
Chloroethane	ND	ug/L	1.0 1 09/14/12 11:49 75-00-3

MW2 & MW5

PCE $\frac{(5.2-5.3)}{[(5.2+5.3)/2]} \times 100 = \frac{0.1}{5.25}$

$0.0190 \times 100 = 1.90\%$ RPD

1,1,1-TCE $\frac{(3.8-3.7)}{[(3.8+3.7)/2]} \times 100 =$

$\frac{0.1}{3.75} \times 100 = 2.66\%$ RPD

TCFM: $\frac{(1.4-1.3)}{[(1.4+1.3)/2]} \times 100 = \frac{0.1}{1.35}$

$0.074 \times 100 = 7.40\%$ RPD

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-7 **Lab ID: 2513481005** Collected: 09/05/12 12:00 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroform	ND	ug/L	1.0	1		09/14/12 11:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/14/12 11:49	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:49	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 11:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/14/12 11:49	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/14/12 11:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/14/12 11:49	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/14/12 11:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/14/12 11:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/12 11:49	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/14/12 11:49	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 11:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 11:49	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 11:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/14/12 11:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/14/12 11:49	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/14/12 11:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/14/12 11:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/14/12 11:49	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/14/12 11:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/14/12 11:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/14/12 11:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	1		09/14/12 11:49	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/14/12 11:49	103-65-1	
Styrene	ND	ug/L	1.0	1		09/14/12 11:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 11:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/14/12 11:49	127-18-4	
Toluene	ND	ug/L	1.0	1		09/14/12 11:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 11:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/14/12 11:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/14/12 11:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/14/12 11:49	79-01-6	
Trichlorofluoromethane	**13.4**	ug/L	1.0	1		09/14/12 11:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/14/12 11:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 11:49	95-63-6	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-7 **Lab ID: 2513481005** Collected: 09/05/12 12:00 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 11:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/14/12 11:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/14/12 11:49	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/14/12 11:49	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/14/12 11:49	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	110	%	79-121	1		09/14/12 11:49	460-00-4	
Dibromofluoromethane (S)	97	%	81-119	1		09/14/12 11:49	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	72-127	1		09/14/12 11:49	17060-07-0	
Toluene-d8 (S)	102	%	77-120	1		09/14/12 11:49	2037-26-5	

Sample: MW-3 **Lab ID: 2513481006** Collected: 09/05/12 13:00 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		09/14/12 12:07	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/12 12:07	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/14/12 12:07	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/14/12 12:07	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/14/12 12:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/14/12 12:07	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/14/12 12:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/14/12 12:07	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/14/12 12:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/14/12 12:07	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/14/12 12:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/14/12 12:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/14/12 12:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/14/12 12:07	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 12:07	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/14/12 12:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/14/12 12:07	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/14/12 12:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/14/12 12:07	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/14/12 12:07	74-95-3	
1,2-Dichlorobenzene	**4.8**	ug/L	1.0	1		09/14/12 12:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 12:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/14/12 12:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/14/12 12:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/14/12 12:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/14/12 12:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/14/12 12:07	540-59-0	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: MW-3 **Lab ID: 2513481006** Collected: 09/05/12 13:00 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		09/14/12 12:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 12:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/14/12 12:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 12:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/14/12 12:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/14/12 12:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/14/12 12:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 12:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/14/12 12:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/14/12 12:07	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/14/12 12:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/14/12 12:07	98-82-8	
p-Isopropyltoluene	**2.2**	ug/L	1.0	1		09/14/12 12:07	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/14/12 12:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/14/12 12:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/14/12 12:07	1634-04-4	
Naphthalene	**4.7**	ug/L	1.0	1		09/14/12 12:07	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	103-65-1	
Styrene	ND	ug/L	1.0	1		09/14/12 12:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 12:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/14/12 12:07	79-34-5	
Tetrachloroethene	**1.4**	ug/L	1.0	1		09/14/12 12:07	127-18-4	
Toluene	ND	ug/L	1.0	1		09/14/12 12:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 12:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/14/12 12:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/14/12 12:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/14/12 12:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/14/12 12:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/14/12 12:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/14/12 12:07	96-18-4	
1,2,4-Trimethylbenzene	**1.7**	ug/L	1.0	1		09/14/12 12:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/14/12 12:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/14/12 12:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/14/12 12:07	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/14/12 12:07	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/14/12 12:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	102	%	79-121	1		09/14/12 12:07	460-00-4	
Dibromofluoromethane (S)	98	%	81-119	1		09/14/12 12:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	72-127	1		09/14/12 12:07	17060-07-0	
Toluene-d8 (S)	101	%	77-120	1		09/14/12 12:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: Trip Blank - 8260 **Lab ID: 2513481007** Collected: 09/05/12 13:20 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	5.0	1		09/13/12 00:50	67-64-1	
Benzene	ND	ug/L	1.0	1		09/13/12 00:50	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		09/13/12 00:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		09/13/12 00:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		09/13/12 00:50	75-27-4	
Bromoform	ND	ug/L	1.0	1		09/13/12 00:50	75-25-2	
Bromomethane	ND	ug/L	1.0	1		09/13/12 00:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1		09/13/12 00:50	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	98-06-6	
Carbon disulfide	ND	ug/L	1.0	1		09/13/12 00:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		09/13/12 00:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	108-90-7	
Chloroethane	ND	ug/L	1.0	1		09/13/12 00:50	75-00-3	
Chloroform	ND	ug/L	1.0	1		09/13/12 00:50	67-66-3	
Chloromethane	ND	ug/L	1.0	1		09/13/12 00:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		09/13/12 00:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		09/13/12 00:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		09/13/12 00:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		09/13/12 00:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		09/13/12 00:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		09/13/12 00:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		09/13/12 00:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		09/13/12 00:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		09/13/12 00:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	1		09/13/12 00:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		09/13/12 00:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/12 00:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		09/13/12 00:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		09/13/12 00:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		09/13/12 00:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		09/13/12 00:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		09/13/12 00:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		09/13/12 00:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		09/13/12 00:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		09/13/12 00:50	87-68-3	
2-Hexanone	ND	ug/L	5.0	1		09/13/12 00:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		09/13/12 00:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		09/13/12 00:50	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/13/12 00:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	1		09/13/12 00:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		09/13/12 00:50	1634-04-4	

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ANALYTICAL RESULTS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Sample: Trip Blank - 8260 **Lab ID: 2513481007** Collected: 09/05/12 13:20 Received: 09/06/12 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	1.0	1		09/13/12 00:50	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	103-65-1	
Styrene	ND	ug/L	1.0	1		09/13/12 00:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		09/13/12 00:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		09/13/12 00:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		09/13/12 00:50	127-18-4	
Toluene	ND	ug/L	1.0	1		09/13/12 00:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		09/13/12 00:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		09/13/12 00:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		09/13/12 00:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		09/13/12 00:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		09/13/12 00:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		09/13/12 00:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/13/12 00:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		09/13/12 00:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		09/13/12 00:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		09/13/12 00:50	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		09/13/12 00:50	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	79-121	1		09/13/12 00:50	460-00-4	
Dibromofluoromethane (S)	100	%	81-119	1		09/13/12 00:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	72-127	1		09/13/12 00:50	17060-07-0	
Toluene-d8 (S)	103	%	77-120	1		09/13/12 00:50	2037-26-5	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

QC Batch: MSV/7730
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2513481001, 2513481007

METHOD BLANK: 129603
Matrix: Water
Associated Lab Samples: 2513481001, 2513481007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,1-Dichloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,1-Dichloroethene	ug/L	ND	1.0	09/13/12 00:31	
1,1-Dichloropropene	ug/L	ND	1.0	09/13/12 00:31	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/13/12 00:31	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/13/12 00:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/13/12 00:31	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/13/12 00:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
1,2-Dichloroethane	ug/L	ND	1.0	09/13/12 00:31	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	09/13/12 00:31	
1,2-Dichloropropane	ug/L	ND	1.0	09/13/12 00:31	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/13/12 00:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
1,3-Dichloropropane	ug/L	ND	1.0	09/13/12 00:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
2,2-Dichloropropane	ug/L	ND	1.0	09/13/12 00:31	
2-Butanone (MEK)	ug/L	ND	5.0	09/13/12 00:31	
2-Chlorotoluene	ug/L	ND	1.0	09/13/12 00:31	
2-Hexanone	ug/L	ND	5.0	09/13/12 00:31	
4-Chlorotoluene	ug/L	ND	1.0	09/13/12 00:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/13/12 00:31	
Acetone	ug/L	ND	5.0	09/13/12 00:31	
Benzene	ug/L	ND	1.0	09/13/12 00:31	
Bromobenzene	ug/L	ND	1.0	09/13/12 00:31	
Bromochloromethane	ug/L	ND	1.0	09/13/12 00:31	
Bromodichloromethane	ug/L	ND	1.0	09/13/12 00:31	
Bromoform	ug/L	ND	1.0	09/13/12 00:31	
Bromomethane	ug/L	ND	1.0	09/13/12 00:31	
Carbon disulfide	ug/L	ND	1.0	09/13/12 00:31	
Carbon tetrachloride	ug/L	ND	1.0	09/13/12 00:31	
Chlorobenzene	ug/L	ND	1.0	09/13/12 00:31	
Chloroethane	ug/L	ND	1.0	09/13/12 00:31	
Chloroform	ug/L	ND	1.0	09/13/12 00:31	
Chloromethane	ug/L	ND	1.0	09/13/12 00:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/13/12 00:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/13/12 00:31	
Dibromochloromethane	ug/L	ND	1.0	09/13/12 00:31	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

METHOD BLANK: 129603 Matrix: Water

Associated Lab Samples: 2513481001, 2513481007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	09/13/12 00:31	
Dichlorodifluoromethane	ug/L	ND	1.0	09/13/12 00:31	
Ethylbenzene	ug/L	ND	1.0	09/13/12 00:31	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/13/12 00:31	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/13/12 00:31	
m&p-Xylene	ug/L	ND	2.0	09/13/12 00:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/13/12 00:31	
Methylene chloride	ug/L	ND	5.0	09/13/12 00:31	
n-Butylbenzene	ug/L	ND	1.0	09/13/12 00:31	
n-Propylbenzene	ug/L	ND	1.0	09/13/12 00:31	
Naphthalene	ug/L	ND	1.0	09/13/12 00:31	
o-Xylene	ug/L	ND	1.0	09/13/12 00:31	
p-Isopropyltoluene	ug/L	ND	1.0	09/13/12 00:31	
sec-Butylbenzene	ug/L	ND	1.0	09/13/12 00:31	
Styrene	ug/L	ND	1.0	09/13/12 00:31	
tert-Butylbenzene	ug/L	ND	1.0	09/13/12 00:31	
Tetrachloroethene	ug/L	ND	1.0	09/13/12 00:31	
Toluene	ug/L	ND	1.0	09/13/12 00:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/13/12 00:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/13/12 00:31	
Trichloroethene	ug/L	ND	1.0	09/13/12 00:31	
Trichlorofluoromethane	ug/L	ND	1.0	09/13/12 00:31	
Vinyl chloride	ug/L	ND	1.0	09/13/12 00:31	
Xylene (Total)	ug/L	ND	3.0	09/13/12 00:31	
1,2-Dichloroethane-d4 (S)	%	103	72-127	09/13/12 00:31	
4-Bromofluorobenzene (S)	%	115	79-121	09/13/12 00:31	
Dibromofluoromethane (S)	%	103	81-119	09/13/12 00:31	
Toluene-d8 (S)	%	102	77-120	09/13/12 00:31	

LABORATORY CONTROL SAMPLE: 129604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-122	
1,1,1-Trichloroethane	ug/L	20	19.7	98	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	62-133	
1,1,2-Trichloroethane	ug/L	20	21.0	105	68-122	
1,1-Dichloroethane	ug/L	20	18.8	94	70-125	
1,1-Dichloroethene	ug/L	20	19.2	96	69-142	
1,1-Dichloropropene	ug/L	20	19.1	95	67-129	
1,2,3-Trichlorobenzene	ug/L	20	14.6	73	60-132	
1,2,3-Trichloropropane	ug/L	20	20.0	100	65-120	
1,2,4-Trichlorobenzene	ug/L	20	14.6	73	62-127	
1,2,4-Trimethylbenzene	ug/L	20	19.4	97	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.0	90	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	99	65-123	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

LABORATORY CONTROL SAMPLE: 129604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.7	99	71-118	
1,2-Dichloroethane	ug/L	20	20.1	101	63-131	
1,2-Dichloroethene (Total)	ug/L	40	39.4	98	73-134	
1,2-Dichloropropane	ug/L	20	20.0	100	70-125	
1,3,5-Trimethylbenzene	ug/L	20	18.5	93	70-123	
1,3-Dichlorobenzene	ug/L	20	18.8	94	72-119	
1,3-Dichloropropane	ug/L	20	20.3	101	69-122	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-116	
2,2-Dichloropropane	ug/L	20	16.5	83	52-149	
2-Butanone (MEK)	ug/L	40	26.9	67	45-155	
2-Chlorotoluene	ug/L	20	18.6	93	69-119	
2-Hexanone	ug/L	40	27.1	68	50-151	
4-Chlorotoluene	ug/L	20	17.7	88	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	37.6	94	61-145	
Acetone	ug/L	40	28.0	70	40-160	
Benzene	ug/L	20	18.5	93	66-123	
Bromobenzene	ug/L	20	17.8	89	68-118	
Bromochloromethane	ug/L	20	19.9	99	72-128	
Bromodichloromethane	ug/L	20	19.5	98	68-129	
Bromoform	ug/L	20	21.5	107	54-118	
Bromomethane	ug/L	20	19.8	99	43-151	
Carbon disulfide	ug/L	20	18.1	90	52-142	
Carbon tetrachloride	ug/L	20	19.5	98	67-135	
Chlorobenzene	ug/L	20	19.4	97	72-116	
Chloroethane	ug/L	20	20.1	100	48-139	
Chloroform	ug/L	20	18.3	91	71-124	
Chloromethane	ug/L	20	20.5	103	40-152	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	74-133	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	64-132	
Dibromochloromethane	ug/L	20	19.5	98	60-121	
Dibromomethane	ug/L	20	19.6	98	69-131	
Dichlorodifluoromethane	ug/L	20	22.2	111	40-160	
Ethylbenzene	ug/L	20	19.3	97	67-122	
Hexachloro-1,3-butadiene	ug/L	20	17.2	86	55-139	
Isopropylbenzene (Cumene)	ug/L	20	19.1	95	67-124	
m&p-Xylene	ug/L	40	38.7	97	66-122	
Methyl-tert-butyl ether	ug/L	20	19.8	99	65-138	
Methylene chloride	ug/L	20	19.5	98	58-137	
n-Butylbenzene	ug/L	20	18.6	93	68-129	
n-Propylbenzene	ug/L	20	19.7	98	66-126	
Naphthalene	ug/L	20	12.6	63	59-133	
o-Xylene	ug/L	20	19.2	96	69-123	
p-Isopropyltoluene	ug/L	20	19.3	97	69-127	
sec-Butylbenzene	ug/L	20	18.4	92	68-129	
Styrene	ug/L	20	20.6	103	72-125	
tert-Butylbenzene	ug/L	20	18.0	90	58-120	
Tetrachloroethene	ug/L	20	18.4	92	40-115	
Toluene	ug/L	20	18.6	93	64-118	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

LABORATORY CONTROL SAMPLE: 129604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	19.7	99	70-134	
trans-1,3-Dichloropropene	ug/L	20	16.5	82	52-115	
Trichloroethene	ug/L	20	18.7	93	69-125	
Trichlorofluoromethane	ug/L	20	20.2	101	57-155	
Vinyl chloride	ug/L	20	20.8	104	53-132	
Xylene (Total)	ug/L	60	57.9	97	68-122	
1,2-Dichloroethane-d4 (S)	%			104	72-127	
4-Bromofluorobenzene (S)	%			97	79-121	
Dibromofluoromethane (S)	%			103	81-119	
Toluene-d8 (S)	%			99	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 129994 129995

Parameter	Units	2513398054 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.6	20.1	103	101	67-132	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.9	20.2	105	101	67-145	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	27.0	20.8	135	104	65-135	26	D6
1,1,2-Trichloroethane	ug/L	ND	20	20	20.8	20.9	104	105	67-126	.6	
1,1-Dichloroethane	ug/L	ND	20	20	23.1	20.4	115	102	69-138	12	
1,1-Dichloroethene	ug/L	ND	20	20	22.6	22.0	113	110	68-160	3	
1,1-Dichloropropene	ug/L	ND	20	20	21.6	20.9	108	105	68-145	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	16.0	17.9	80	89	57-131	11	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.0	19.6	75	98	61-123	26	D6
1,2,4-Trichlorobenzene	ug/L	ND	20	20	16.6	17.2	83	86	58-130	3	
1,2,4-Trimethylbenzene	ug/L	1.1	20	20	22.6	20.9	108	99	60-136	8	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	19.8	21.2	99	106	48-127	7	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.9	21.2	110	106	61-127	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.1	21.3	90	105	67-126	16	
1,2-Dichloroethane	ug/L	ND	20	20	21.1	19.6	106	98	60-138	7	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	45.4	41.0	114	103	70-146	10	
1,2-Dichloropropane	ug/L	ND	20	20	22.1	21.6	111	108	67-138	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.6	20.2	107	100	64-135	6	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.8	21.2	99	106	69-128	7	
1,3-Dichloropropane	ug/L	ND	20	20	20.4	19.6	102	98	65-128	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.6	18.6	93	93	66-124	.2	
2,2-Dichloropropane	ug/L	ND	20	20	8.7	8.2	44	41	46-160	5	M1
2-Butanone (MEK)	ug/L	ND	40	40	37.4	29.2	94	73	40-140	25	
2-Chlorotoluene	ug/L	ND	20	20	22.0	19.2	110	96	67-129	13	
2-Hexanone	ug/L	ND	40	40	38.1	37.6	95	94	42-141	1	
4-Chlorotoluene	ug/L	ND	20	20	21.1	18.5	105	92	67-133	13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	45.3	45.5	113	114	54-151	.5	
Acetone	ug/L	ND	40	40	42.3	38.3	105	95	40-155	10	
Benzene	ug/L	ND	20	20	22.5	21.6	112	108	63-138	4	
Bromobenzene	ug/L	ND	20	20	21.1	18.4	106	92	64-127	14	
Bromochloromethane	ug/L	ND	20	20	21.9	19.9	109	100	66-136	9	
Bromodichloromethane	ug/L	ND	20	20	20.7	19.5	104	97	65-138	6	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 129994 129995

Parameter	Units	2513398054 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromoform	ug/L	ND	20	20	19.6	18.9	98	95	51-119	4	
Bromomethane	ug/L	ND	20	20	21.7	20.1	109	101	40-158	8	
Carbon disulfide	ug/L	ND	20	20	21.3	19.6	106	98	56-158	8	
Carbon tetrachloride	ug/L	ND	20	20	20.8	20.7	104	104	66-152	.5	
Chlorobenzene	ug/L	ND	20	20	20.6	20.5	103	103	68-128	.4	
Chloroethane	ug/L	ND	20	20	25.3	23.4	127	117	49-154	8	
Chloroform	ug/L	ND	20	20	19.3	18.9	96	94	69-137	2	
Chloromethane	ug/L	ND	20	20	24.9	21.3	125	106	40-160	16	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.9	20.4	109	102	69-147	7	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.1	19.3	96	97	60-141	1	
Dibromochloromethane	ug/L	ND	20	20	18.9	20.4	94	102	56-125	8	
Dibromomethane	ug/L	ND	20	20	21.0	21.1	105	105	63-137	.3	
Dichlorodifluoromethane	ug/L	ND	20	20	22.2	20.8	111	104	40-160	7	
Ethylbenzene	ug/L	1.4	20	20	22.1	21.9	104	102	65-135	1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	17.7	18.0	88	90	50-149	2	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.2	18.6	96	93	64-137	3	
m&p-Xylene	ug/L		40	40	44.5	44.2	96	95	63-134	.6	
Methyl-tert-butyl ether	ug/L	ND	20	20	24.7	20.2	123	101	59-143	20	
Methylene chloride	ug/L	ND	20	20	23.2	20.6	116	103	52-133	12	
n-Butylbenzene	ug/L	ND	20	20	16.4	20.2	82	101	65-143	21	D6
n-Propylbenzene	ug/L	ND	20	20	22.2	19.2	110	95	64-141	15	
Naphthalene	ug/L	ND	20	20	17.2	17.6	86	88	48-141	2	
o-Xylene	ug/L		20	20	20.4	19.7	88	84	68-131	4	
p-Isopropyltoluene	ug/L	ND	20	20	20.2	20.2	101	101	69-137	.3	
sec-Butylbenzene	ug/L	ND	20	20	20.9	19.4	104	97	69-139	7	
Styrene	ug/L	ND	20	20	19.1	18.6	95	93	67-135	3	
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.2	102	96	61-129	6	
Tetrachloroethene	ug/L	ND	20	20	17.8	17.8	89	89	40-122	.05	
Toluene	ug/L	1.7	20	20	19.2	20.1	88	92	64-128	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.5	20.6	118	103	66-150	13	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.9	16.3	74	81	51-116	9	
Trichloroethene	ug/L	ND	20	20	20.5	20.1	102	100	68-135	2	
Trichlorofluoromethane	ug/L	ND	20	20	22.3	21.9	112	110	54-160	2	
Vinyl chloride	ug/L	ND	20	20	25.5	20.5	127	103	45-155	22	
Xylene (Total)	ug/L	8.9	60	60	64.9	63.9	93	92	65-133	2	
1,2-Dichloroethane-d4 (S)	%						98	98	72-127		
4-Bromofluorobenzene (S)	%						96	97	79-121		
Dibromofluoromethane (S)	%						100	99	81-119		
Toluene-d8 (S)	%						92	99	77-120		

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

QC Batch: MSV/7758
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 2513481002, 2513481003, 2513481004, 2513481005, 2513481006

METHOD BLANK: 130091
Matrix: Water
Associated Lab Samples: 2513481002, 2513481003, 2513481004, 2513481005, 2513481006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,1,1-Trichloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,1-Dichloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,1-Dichloroethene	ug/L	ND	1.0	09/14/12 06:19	
1,1-Dichloropropene	ug/L	ND	1.0	09/14/12 06:19	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	09/14/12 06:19	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/14/12 06:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	09/14/12 06:19	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	09/14/12 06:19	
1,2-Dichlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
1,2-Dichloroethane	ug/L	ND	1.0	09/14/12 06:19	
1,2-Dichloroethene (Total)	ug/L	ND	2.0	09/14/12 06:19	
1,2-Dichloropropane	ug/L	ND	1.0	09/14/12 06:19	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/14/12 06:19	
1,3-Dichlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
1,3-Dichloropropane	ug/L	ND	1.0	09/14/12 06:19	
1,4-Dichlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
2,2-Dichloropropane	ug/L	ND	1.0	09/14/12 06:19	
2-Butanone (MEK)	ug/L	ND	5.0	09/14/12 06:19	
2-Chlorotoluene	ug/L	ND	1.0	09/14/12 06:19	
2-Hexanone	ug/L	ND	5.0	09/14/12 06:19	
4-Chlorotoluene	ug/L	ND	1.0	09/14/12 06:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	09/14/12 06:19	
Acetone	ug/L	ND	5.0	09/14/12 06:19	
Benzene	ug/L	ND	1.0	09/14/12 06:19	
Bromobenzene	ug/L	ND	1.0	09/14/12 06:19	
Bromochloromethane	ug/L	ND	1.0	09/14/12 06:19	
Bromodichloromethane	ug/L	ND	1.0	09/14/12 06:19	
Bromoform	ug/L	ND	1.0	09/14/12 06:19	
Bromomethane	ug/L	ND	1.0	09/14/12 06:19	
Carbon disulfide	ug/L	ND	1.0	09/14/12 06:19	
Carbon tetrachloride	ug/L	ND	1.0	09/14/12 06:19	
Chlorobenzene	ug/L	ND	1.0	09/14/12 06:19	
Chloroethane	ug/L	ND	1.0	09/14/12 06:19	
Chloroform	ug/L	ND	1.0	09/14/12 06:19	
Chloromethane	ug/L	ND	1.0	09/14/12 06:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	09/14/12 06:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	09/14/12 06:19	
Dibromochloromethane	ug/L	ND	1.0	09/14/12 06:19	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

METHOD BLANK: 130091 Matrix: Water

Associated Lab Samples: 2513481002, 2513481003, 2513481004, 2513481005, 2513481006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	09/14/12 06:19	
Dichlorodifluoromethane	ug/L	ND	1.0	09/14/12 06:19	
Ethylbenzene	ug/L	ND	1.0	09/14/12 06:19	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	09/14/12 06:19	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	09/14/12 06:19	
m&p-Xylene	ug/L	ND	2.0	09/14/12 06:19	
Methyl-tert-butyl ether	ug/L	ND	1.0	09/14/12 06:19	
Methylene chloride	ug/L	ND	5.0	09/14/12 06:19	
n-Butylbenzene	ug/L	ND	1.0	09/14/12 06:19	
n-Propylbenzene	ug/L	ND	1.0	09/14/12 06:19	
Naphthalene	ug/L	ND	1.0	09/14/12 06:19	
o-Xylene	ug/L	ND	1.0	09/14/12 06:19	
p-Isopropyltoluene	ug/L	ND	1.0	09/14/12 06:19	
sec-Butylbenzene	ug/L	ND	1.0	09/14/12 06:19	
Styrene	ug/L	ND	1.0	09/14/12 06:19	
tert-Butylbenzene	ug/L	ND	1.0	09/14/12 06:19	
Tetrachloroethene	ug/L	ND	1.0	09/14/12 06:19	
Toluene	ug/L	ND	1.0	09/14/12 06:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	09/14/12 06:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	09/14/12 06:19	
Trichloroethene	ug/L	ND	1.0	09/14/12 06:19	
Trichlorofluoromethane	ug/L	ND	1.0	09/14/12 06:19	
Vinyl chloride	ug/L	ND	1.0	09/14/12 06:19	
Xylene (Total)	ug/L	ND	3.0	09/14/12 06:19	
1,2-Dichloroethane-d4 (S)	%	100	72-127	09/14/12 06:19	
4-Bromofluorobenzene (S)	%	110	79-121	09/14/12 06:19	
Dibromofluoromethane (S)	%	97	81-119	09/14/12 06:19	
Toluene-d8 (S)	%	101	77-120	09/14/12 06:19	

LABORATORY CONTROL SAMPLE: 130092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.9	94	70-122	
1,1,1-Trichloroethane	ug/L	20	16.9	84	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	100	62-133	
1,1,2-Trichloroethane	ug/L	20	19.7	99	68-122	
1,1-Dichloroethane	ug/L	20	15.9	80	70-125	
1,1-Dichloroethene	ug/L	20	15.6	78	69-142	
1,1-Dichloropropene	ug/L	20	16.2	81	67-129	
1,2,3-Trichlorobenzene	ug/L	20	17.0	85	60-132	
1,2,3-Trichloropropane	ug/L	20	19.0	95	65-120	
1,2,4-Trichlorobenzene	ug/L	20	15.8	79	62-127	
1,2,4-Trimethylbenzene	ug/L	20	17.5	87	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.0	90	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	65-123	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

LABORATORY CONTROL SAMPLE: 130092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.4	97	71-118	
1,2-Dichloroethane	ug/L	20	18.6	93	63-131	
1,2-Dichloroethene (Total)	ug/L	40	33.0	82	73-134	
1,2-Dichloropropane	ug/L	20	18.7	93	70-125	
1,3,5-Trimethylbenzene	ug/L	20	16.8	84	70-123	
1,3-Dichlorobenzene	ug/L	20	18.9	94	72-119	
1,3-Dichloropropane	ug/L	20	19.9	100	69-122	
1,4-Dichlorobenzene	ug/L	20	17.4	87	70-116	
2,2-Dichloropropane	ug/L	20	10.7	53	52-149	
2-Butanone (MEK)	ug/L	40	33.0	83	45-155	
2-Chlorotoluene	ug/L	20	18.8	94	69-119	
2-Hexanone	ug/L	40	34.3	86	50-151	
4-Chlorotoluene	ug/L	20	18.0	90	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.2	88	61-145	
Acetone	ug/L	40	30.2	75	40-160	
Benzene	ug/L	20	18.0	90	66-123	
Bromobenzene	ug/L	20	18.6	93	68-118	
Bromochloromethane	ug/L	20	18.3	92	72-128	
Bromodichloromethane	ug/L	20	18.1	90	68-129	
Bromoform	ug/L	20	16.8	84	54-118	
Bromomethane	ug/L	20	16.3	81	43-151	
Carbon disulfide	ug/L	20	13.9	70	52-142	
Carbon tetrachloride	ug/L	20	17.0	85	67-135	
Chlorobenzene	ug/L	20	17.6	88	72-116	
Chloroethane	ug/L	20	14.8	74	48-139	
Chloroform	ug/L	20	16.4	82	71-124	
Chloromethane	ug/L	20	16.8	84	40-152	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	74-133	
cis-1,3-Dichloropropene	ug/L	20	16.1	81	64-132	
Dibromochloromethane	ug/L	20	17.2	86	60-121	
Dibromomethane	ug/L	20	18.7	93	69-131	
Dichlorodifluoromethane	ug/L	20	14.8	74	40-160	
Ethylbenzene	ug/L	20	18.8	94	67-122	
Hexachloro-1,3-butadiene	ug/L	20	17.3	87	55-139	
Isopropylbenzene (Cumene)	ug/L	20	17.0	85	67-124	
m&p-Xylene	ug/L	40	33.4	84	66-122	
Methyl-tert-butyl ether	ug/L	20	17.3	87	65-138	
Methylene chloride	ug/L	20	14.6	73	58-137	
n-Butylbenzene	ug/L	20	17.1	85	68-129	
n-Propylbenzene	ug/L	20	17.0	85	66-126	
Naphthalene	ug/L	20	15.7	79	59-133	
o-Xylene	ug/L	20	16.9	85	69-123	
p-Isopropyltoluene	ug/L	20	18.6	93	69-127	
sec-Butylbenzene	ug/L	20	16.5	83	68-129	
Styrene	ug/L	20	17.3	87	72-125	
tert-Butylbenzene	ug/L	20	17.7	89	58-120	
Tetrachloroethene	ug/L	20	17.2	86	40-115	
Toluene	ug/L	20	17.4	87	64-118	

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QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

LABORATORY CONTROL SAMPLE: 130092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	15.1	75	70-134	
trans-1,3-Dichloropropene	ug/L	20	14.1	70	52-115	
Trichloroethene	ug/L	20	17.1	85	69-125	
Trichlorofluoromethane	ug/L	20	16.2	81	57-155	
Vinyl chloride	ug/L	20	15.0	75	53-132	
Xylene (Total)	ug/L	60	50.3	84	68-122	
1,2-Dichloroethane-d4 (S)	%			102	72-127	
4-Bromofluorobenzene (S)	%			101	79-121	
Dibromofluoromethane (S)	%			98	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 130093 130094

Parameter	Units	2513398065 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.3	21.2	101	106	67-132	4	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.0	20.7	100	103	67-145	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	22.4	22.5	112	113	65-135	.3	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.2	21.3	106	107	67-126	.4	
1,1-Dichloroethane	ug/L	ND	20	20	17.4	18.0	87	90	69-138	4	
1,1-Dichloroethene	ug/L	ND	20	20	17.2	18.5	86	92	68-160	7	
1,1-Dichloropropene	ug/L	ND	20	20	20.2	20.1	101	100	68-145	.4	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	20.4	105	102	57-131	3	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.3	20.8	101	104	61-123	2	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.3	19.6	102	98	58-130	4	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.6	21.4	108	107	60-136	.7	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.2	18.8	91	94	48-127	3	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.6	21.6	108	108	61-127	.1	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.2	22.5	111	112	67-126	1	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	19.8	96	99	60-138	3	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	37.1	38.1	93	95	70-146	3	
1,2-Dichloropropane	ug/L	ND	20	20	21.8	22.2	109	111	67-138	2	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.1	20.4	100	102	64-135	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.8	22.1	109	111	69-128	1	
1,3-Dichloropropane	ug/L	ND	20	20	21.6	21.8	108	109	65-128	.8	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.7	20.1	99	100	66-124	2	
2,2-Dichloropropane	ug/L	ND	20	20	17.2	17.7	86	88	46-160	3	
2-Butanone (MEK)	ug/L	ND	40	40	36.6	36.1	91	90	40-140	1	
2-Chlorotoluene	ug/L	ND	20	20	22.3	22.5	111	113	67-129	1	
2-Hexanone	ug/L	ND	40	40	37.9	37.6	95	94	42-141	.8	
4-Chlorotoluene	ug/L	ND	20	20	20.9	21.3	105	106	67-133	2	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	39.0	38.9	97	97	54-151	.3	
Acetone	ug/L	ND	40	40	151	33.3	373	80	40-155	128	D6,M1
Benzene	ug/L	ND	20	20	21.5	21.6	108	108	63-138	.3	
Bromobenzene	ug/L	ND	20	20	21.9	21.9	109	109	64-127	.07	
Bromochloromethane	ug/L	ND	20	20	20.3	20.4	101	102	66-136	.7	
Bromodichloromethane	ug/L	ND	20	20	19.3	20.2	97	101	65-138	4	

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Seattle, WA 98108
(206)767-5060

QUALITY CONTROL DATA

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 130093 130094

Parameter	Units	2513398065 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Bromoform	ug/L	ND	20	20	15.9	16.8	80	84	51-119	6	
Bromomethane	ug/L	ND	20	20	11.9	14.6	60	73	40-158	20	
Carbon disulfide	ug/L	ND	20	20	15.7	16.8	79	84	56-158	6	
Carbon tetrachloride	ug/L	ND	20	20	19.3	20.4	97	102	66-152	6	
Chlorobenzene	ug/L	ND	20	20	19.8	20.0	99	100	68-128	1	
Chloroethane	ug/L	ND	20	20	16.5	17.8	83	89	49-154	7	
Chloroform	ug/L	ND	20	20	18.5	18.7	93	94	69-137	1	
Chloromethane	ug/L	ND	20	20	18.9	19.5	94	98	40-160	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.6	20.6	103	103	69-147	.09	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.8	19.2	94	96	60-141	2	
Dibromochloromethane	ug/L	ND	20	20	17.4	18.1	87	91	56-125	4	
Dibromomethane	ug/L	ND	20	20	19.7	19.8	99	99	63-137	.6	
Dichlorodifluoromethane	ug/L	ND	20	20	14.7	17.4	74	87	40-160	17	
Ethylbenzene	ug/L	ND	20	20	22.0	22.3	110	112	65-135	1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.0	21.3	105	106	50-149	1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.9	20.2	100	101	64-137	1	
m&p-Xylene	ug/L	ND	40	40	39.3	39.4	98	98	63-134	.2	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.1	18.8	90	94	59-143	4	
Methylene chloride	ug/L	ND	20	20	15.3	16.0	76	80	52-133	4	
n-Butylbenzene	ug/L	ND	20	20	21.7	21.3	109	107	65-143	2	
n-Propylbenzene	ug/L	ND	20	20	20.8	21.0	104	105	64-141	1	
Naphthalene	ug/L	ND	20	20	27.9	22.1	140	110	48-141	24	
o-Xylene	ug/L	ND	20	20	19.8	20.0	99	100	68-131	.9	
p-Isopropyltoluene	ug/L	ND	20	20	22.5	22.7	113	113	69-137	.6	
sec-Butylbenzene	ug/L	ND	20	20	20.2	20.5	101	103	69-139	2	
Styrene	ug/L	ND	20	20	19.2	19.5	96	98	67-135	1	
tert-Butylbenzene	ug/L	ND	20	20	21.7	22.1	108	111	61-129	2	
Tetrachloroethene	ug/L	ND	20	20	20.3	20.8	101	104	40-122	2	
Toluene	ug/L	ND	20	20	20.1	20.6	101	103	64-128	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.4	17.4	82	87	66-150	6	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.0	16.6	80	83	51-116	3	
Trichloroethene	ug/L	ND	20	20	20.1	20.5	100	103	68-135	2	
Trichlorofluoromethane	ug/L	ND	20	20	17.3	18.8	86	94	54-160	8	
Vinyl chloride	ug/L	ND	20	20	17.1	17.2	85	86	45-155	1	
Xylene (Total)	ug/L	ND	60	60	59.1	59.3	98	99	65-133	.4	
1,2-Dichloroethane-d4 (S)	%						101	100	72-127		
4-Bromofluorobenzene (S)	%						104	104	79-121		
Dibromofluoromethane (S)	%						97	97	81-119		
Toluene-d8 (S)	%						99	100	77-120		

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940 South Harney
Seattle, WA 98108
(206)767-5060

QUALIFIERS

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-S	Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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940 South Harney
Seattle, WA 98108
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Seekins Ford 1197-02
Pace Project No.: 2513481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2513481001	MW-1	EPA 5030B/8260	MSV/7730		
2513481002	MW-6	EPA 5030B/8260	MSV/7758		
2513481003	MW-2	EPA 5030B/8260	MSV/7758		
2513481004	MW-5	EPA 5030B/8260	MSV/7758		
2513481005	MW-7	EPA 5030B/8260	MSV/7758		
2513481006	MW-3	EPA 5030B/8260	MSV/7758		
2513481007	Trip Blank - 8260	EPA 5030B/8260	MSV/7730		

Sample Condition Upon Receipt

Pace Analytical

Client Name: Alaska Analytical Project # 2513481

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: 8649 0902

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals Intact: ☑ Yes ☐ No

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____ Temp. Blank Yes ✓ No _____

Thermometer Used 132016 or 101731962 or 226099 Type of Ice: Wet (Blue) None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.9°c Biological Tissue is Frozen: Yes No

Temp should be above freezing ≤ 6°C

Date and Initials of person examining contents: 09/06/12 CW

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler Name & Signature on COC:	☐Yes ☑No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.	
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.	
Follow Up / Hold Analysis Requested:	☐Yes ☑No ☐N/A	8.	
Sufficient Volume:	☑Yes ☐No ☐N/A	9.	
Correct Containers Used:	☑Yes ☐No ☐N/A	10.	
-Pace Containers Used:	☑Yes ☐No ☐N/A		
Containers Intact:	☑Yes ☐No ☐N/A	11.	
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	12.	
Sample Labels match COC:	☑Yes ☐No ☐N/A	13.	
-Includes date/time/ID/Analysis Matrix: WT			
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	14.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A		
Exceptions: VOA, coliform, TOC, O&G	☑Yes ☐No ☐N/A	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	15.	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	16.	
Trip Blanks Present:	☑Yes ☐No ☐N/A	17.	
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	not PACE created.	
Pace Trip Blank Creation Date:			

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: D. Eley Date: 9/10/2012

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Alaska Air Cargo™
ALASKA AIRLINES & HORIZON AIR

P.O. BOX 68900 SEATTLE, WA 98168
800-225-2752 ALASKACARGO.COM

2513481

SHIPPER
MAPPA INC
1956 RICHARDSON HWY
NORTH POLE, AK 99705

CONSIGNEE
Pace Analytical Services Inc
940 South Harney St
Seattle, WA 98108

AWB Number	Pieces	Weight	Origin / Dest	Nature of Goods	Arriving Flight Details	Customs
027-86490902	1	26.0 Lb	FAI-SEA	CHILL WATER SA	AS 128 06-Sep-2012	

Storage Locations: GSX2 1

LOCAL CHARGES :

Bonded Warehouse ☐

Total Local Charges:	USD
VAT 1.34%:	USD
Grand Total:	USD

Pace Analytical®
CUSTODY SEAL

SIGNATURE Kelley Lowery
DATE 9/5/12

Pace Analytical®
CUSTODY SEAL

SIGNATURE Kelley Lowery
DATE 9/5/12

Delivered to
Sample Receiving
9/6/12 08:20Am
Ron Bogart

RECEIPT STATEMENT

The undersigned acknowledge the receipt of above mentioned consignment complete and in good condition.

Date: 06-Sep-2012
Time: 07:38
Driver: RON
Registration:
Signature: Ron Bogart

027 FAI 8649 0902

2513481

027-8649 0902

Shipper's Name and Address
MAPPA INC
1956 RICHARDSON HWY
NORTH POLE, AK 99705
USA
Tel: 9074881266

Shipper's Account Number
27440067686

Customer's ID Number
10564

Not Negotiable
Air Waybill
Issued By

Alaska Air Cargo
ALASKA AIRLINES & HORIZON AIR
P.O. BOX 68900 SEATTLE, WA 98168
800-225-2752 ALASKACARGO.COM

Consignee's Name and Address
Pace Analytical Services I
940 South Harney St
Seattle, WA 98108
USA
Tel: 2069572439

Consignee's Account Number
27442470086

Also notify
Tel:

Issuing Carrier's Agent and City

Accounting Information
10564
MAPPA INC
1956 RICHARDSON HWY
NORTH POLE, AK 99705
USA

Agent's IATA Code

Account No.

Airport of Departure (Addr. of First Carrier) and Requested Routing
Fairbanks

GoldStreak

To	By First Carrier	To / By	To / By	Currency		WT/VAL		Other		Declared Value For Carriage	Declared Value For Customs
SEA	Alaska Airlines			USD	PX	X		X		NVD	NCV

Airport of Destination	Flight/Date	Flight/Date	Amount of Insurance
Seattle	AS 128/06		XXX

Handling Information
DANGEROUS GOODS IN EXCEPTED QUANTITIES CLASS 8
NOA 206-767-5060

SCI

No of Pieces	Gross Weight	kg lb	Commodity Item No.	Chargeable Weight	Rate / Charge	Total	Nature and Quantity of Goods (Incl. Dimensions or Volume)
1	26.0	L		26.0		AS AGREED	CHILL WATER SAMPLES Dims: 24 x 13 x14 x 1 REQ GSX PER
1	26.0					AS AGREED	Volume: 2.528

Prepaid	Weight Charge	Collect	Other Charges
AS AGREED			MYC 5.20 SCC 2.00
Valuation Charge			
Tax			
Total Other Charges Due Agent			
Total Other Charges Due Carrier			
Total Prepaid	Total Collect		
AS AGREED			

Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. I consent to the inspection of this cargo.

For: MAPPA INC

Signature of Shipper or his Agent

☐ THIS SHIPMENT DOES NOT CONTAIN DANGEROUS GOODS

☒ THIS SHIPMENT DOES CONTAIN DANGEROUS GOODS

05 Sep 2012 17:17 — Executed On (Date)

Fairbanks — at (Place)

Alaska Airlines — Signature of Issuing Carrier or its Agent

027-8649 0902

ALASKA ANALYTICAL LABORATORY

CHAIN OF CUSTODY RECORD

~~2513481~~ CW 090612

COC ID:	PAGE: 1	OF: 1

2513481

Project: SeeKins Ford 1197-02

ADDRESS
Alaska Analytical Laboratory
1956 Richardson Highway
North Pole, Alaska 99705
TEL: (907) 488-1271
FAX: (907) 488-0772
Website: www.alaska-analytical.com

Please Include Email Address of Report Recipient Whenever Possible!!!

SUB CONTRATOR: **Pace Analytical** COMPANY: **Pace Analytical Services**

ADDRESS: **940 S. Harney Street**

CITY, STATE, ZIP: **Seattle, WA 98108-2744**

PHONE: **(206) 767-5060** FAX: **(206) 767-5063**

ACCOUNT #: EMAIL:

SPECIAL INSTRUCTIONS / COMMENTS:
Please analyze these samples on a standard TAT. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. Thank You!

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	NUMBER OF CONTAINERS	ANALYTICAL PARAMETERS: VOC by 8260	COMMENTS (Methanol Preserved Weights, HOT Sample Notation, Additional Sample Description, etc.)
1	1209003-001C	MW-1	VOCHCL	Water	9/4/2012 1:20:00 PM	3	X	Please use Client ID.
2	1209003-002C	MW-6	VOCHCL	Water	9/4/2012 2:32:00 PM	3	X	
3	1209003-003C	MW-2	VOCHCL	Water	9/5/2012 10:45:00 AM	3	X	
4	1209003-004C	MW-5	VOCHCL	Water	9/5/2012 11:30:00 AM	3	X	
5	1209003-005C	MW-7	VOCHCL	Water	9/5/2012 12:00:00 PM	3	X	
6	1209003-006C	MW-3	VOCHCL	Water	9/5/2012 1:00:00 PM	3	X	
7	1209003-008A	Trip Blank - 8260	VOCHCL	Water	9/5/2012 1:20:00 PM	3	X	

Relinquished By: Kelley Lovejoy	Date: 9/5/2012	Time: 2:55 PM	Received By:	Date:	Time:
Relinquished By: Goldstream	Date: 090612	Time: 0820	Received By: Odetta Weaver	Date: 090612	Time: 0820
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard ☑ RUSH Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
☐ HARDCOPY (extra cost) ☐ FAX ☑ EMAIL ☐ ONLINE

FOR LAB USE ONLY
Temp of samples 0.9 °C Attempt to Cool ? _____
Comments: _____

Sample Container Count

2513481

CLIENT: Alaska Analytical

COC PAGE 1 of 1

COC ID#

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Trip Blank(s) Provided? (Y) / N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	DG9H			Comments
1																3			
2																↓			
3																			
4																			
5																			
6																			
7																↓			
8																3			
9																			
10																			
11																			
12																			

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber voa vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFX	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic	I	Wipe/Swab	U	Summa Can

Laboratory Data Review Checklist

Completed by:

Title: Melissa S. Shippey

Date: September 24, 2012

CS Report Name: Seekins Ford

Report Date: July 9, 2010

Consultant Firm: Travis/Peterson Environmental Consulting, Inc.

Laboratory Name: Alaska Analytical and Pace Analytical Laboratory

Laboratory Report Number: 2513481

ADEC File Number: 100.26.131

ADEC RecKey Number:

1. Laboratory

   a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?
   (•) Yes ( ) No Comments:

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?
   (•) Yes ( ) No Comments:
   The VOC samples were analyzed by Pace in Seattle, WA.

2. Chain of Custody (COC)

   a. COC information completed, signed, and dated (including released/received by)?
   (•) Yes ( ) No Comments:

   b. Correct analyses requested?
   (•) Yes ( ) No Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (4° ± 2° C)?

(•) Yes ( ) No Comments:

Cooler temp was 0.9°C

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

(•) Yes ( ) No Comments:

Samples were all in acceptable condition. VOA vials had no headspace.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

(•) Yes ( ) No Comments:

Samples were all in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

( ) Yes (•) No Comments:

No discrepancies with this batch of samples.

e. Data quality or usability affected? Explain.

Comments:

N/A

4. Case Narrative

a. Present and understandable?

(•) Yes ( ) No Comments:

b. Discrepancies, errors or QC failures identified by the lab?

(•) Yes ( ) No Comments:

In the batch of MS/MSD samples associated with this lab report the notes D6 and M1 are shown in the case narrative. The RPD between the MS and MSD for three compounds exceeded laboratory control limits. Also the matrix spike recovery exceeded QC limits for 2,2-dichloropropane.

c. Were all corrective actions documented?

( ) Yes (•) No Comments:

The sample QC batch was accepted for this report based on LCS recoveries.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

No effect. Sample batch accepted based upon the remaining QC samples that were run.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

(•) Yes ( ) No Comments:

b. All applicable holding times met?

(•) Yes ( ) No Comments:

c. All soils reported on a dry weight basis?

( ) Yes ( ) No Comments:

No soils only groundwater.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

(•) Yes ( ) No Comments:

e. Data quality or usability affected?

Comments:

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

(•) Yes ( ) No Comments:

ii. All method blank results less than PQL?

(•) Yes ( ) No Comments:

iii. If above PQL, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

v. Data quality or usability affected? Explain.

Comments:

N/A

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

(•) Yes ( ) No Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

( ) Yes (•) No Comments:

No metals samples.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

Some of the MS/MSD RPD's were outside acceptance criteria. Sample batch accepted based upon LCS/LCSD recoveries.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

(•) Yes ( ) No Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

The affected compounds within the MS/MSD batch that had RPD results outside acceptable limits are flagged on page 21 and 22 of the report.

(•) Yes ( ) No Comments:

Data quality or usability affected? (Use comment box to explain)
Comments:

N/A all LCS LCSD combinations were within sampling criteria.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

(•) Yes ( ) No Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

(•) Yes ( ) No Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

(•) Yes ( ) No Comments:

iv. Data quality or usability affected? (Use the comment box to explain.)
Comments:

N/A

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and cooler?

(•) Yes ( ) No Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

( ) Yes ( ) No Comments:

Only one cooler used to transport VOC samples to Pace.

iii. All results less than PQL?

(•) Yes ( ) No Comments:

Trip blank results were non-detect.

iv. If above PQL, what samples are affected?

Comments:

N/A

v. Data quality or usability affected? Explain.

Comments:

N/A

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

(•) Yes ( ) No Comments:

Sample MW-5 is the duplicate for MW-2.

ii. Submitted blind to lab?

(•) Yes ( ) No Comments:

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

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

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

(•) Yes ( ) No Comments:

The RPD for PCE is 1.9%; The RPD for 1,1,1-TCE is 2.66% and the RPD for TCFM is 7.4%. these were the compounds detected in both the primary and duplicate samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

f. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below.)

( ) Yes ( ) No (•) Not Applicable

i. All results less than PQL?

Decontamination blank not required since sampling equipment (i.e. tubing) was not reused from sampling station to sampling station. All new sampling equipment, nitrile gloves etc..were used at each sample location.

○ Yes ○ No Comments:

ii. If above PQL, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected? Explain.

Comments:

N/A

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

○ Yes ◉ No Comments:

N/A