



Reference: 007218

December 4, 2007

Ms. Kasey Ashley
Regional Water Quality Control Board,
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403-1072

**Subject: Surface Water Sampling Report for November 30, 2007
Cleanup and Abatement Order No. R1-2007-0105
Monitoring and Reporting Program No. R1-2007-0106
Freshwater Creek, California**

Dear Ms. Ashley:

1.0 Introduction

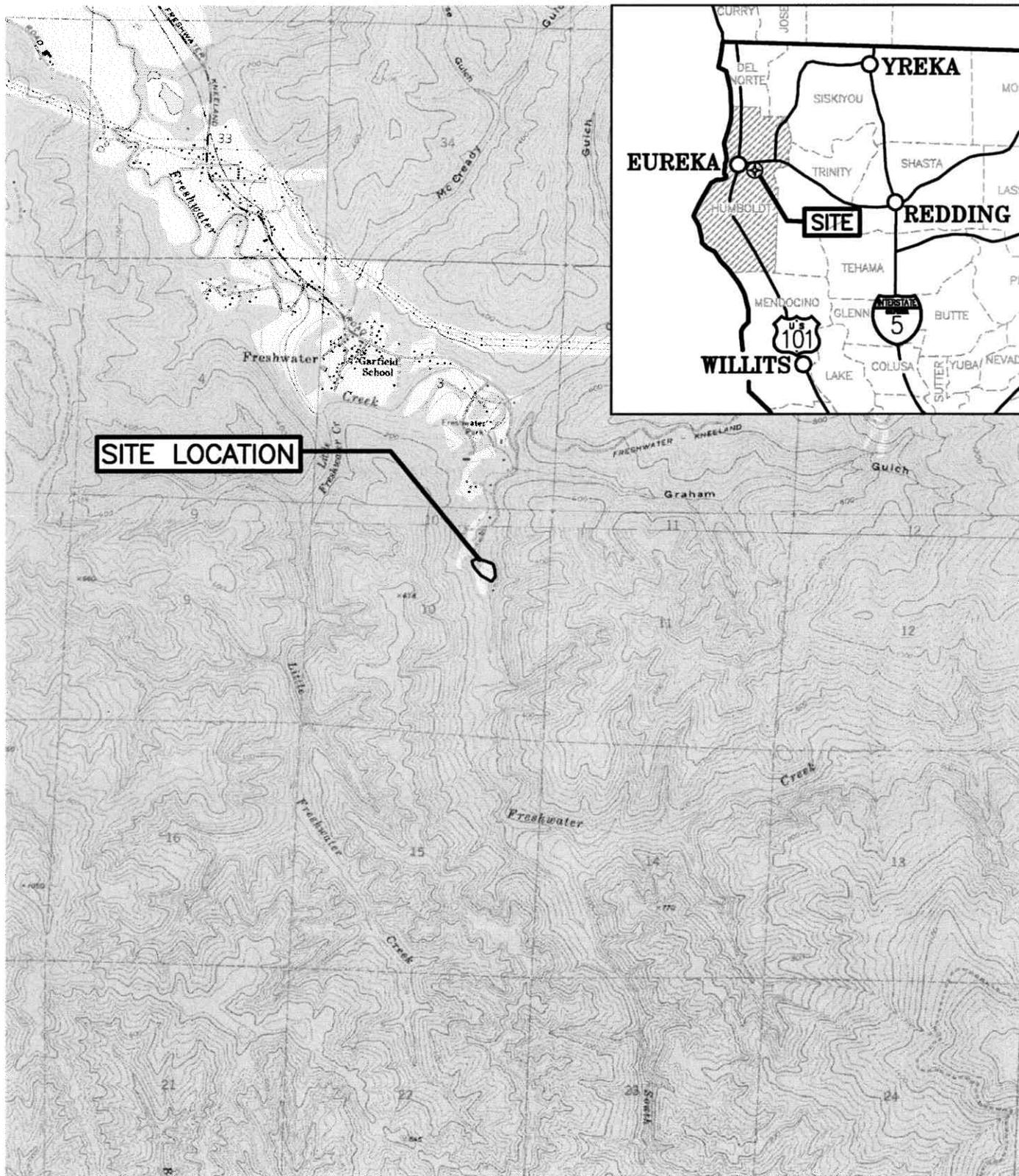
This report presents the results of the surface water sampling conducted on November 30, 2007 at Freshwater Creek, Humboldt County, California (Figure 1). SHN Consulting Engineers & Geologists, Inc. (SHN) is submitting this report on behalf of Steve Wills Trucking. This is the first report required for the subject site and the criteria for sampling, and the sampling locations predate the issuance of Monitoring and Reporting Program No. R1-2007-0106 by the California Regional Water Quality Board, North Coast Region (RWQCB). In this report, testing is reported for four sample locations. Subsequent reports for this site, in conformance with Program No. R1-2007-0106 will have different sampling locations in order to conform to the Program.

2.0 Background

According to Cleanup & Abatement Order No. R1-2007-0105, on November 28, 2007 at approximately 9:00 p.m., a fuel truck owned and operated by Steve Wills Trucking went off Pacific Lumber Camp Road and rolled over into Freshwater Creek, resulting in a discharge of an estimated 100 to 200 gallons of petroleum fluids into and adjacent to Freshwater Creek, tributary to Humboldt Bay. The California Office of Emergency Services and all appropriate regulatory agencies were notified in a timely manner. On November 30, 2007, the California Regional Water Quality Control Board, North Coast Region (RWQCB) issued Cleanup and Abatement Order No. R1-2007-0105. This order was followed by Monitoring and Reporting Program (M&RP) No. R1-2007-0106.

3.0 Sampling Activities

On November 30, 2007, SHN observed the collection of surface water samples by Bruce Gove of Alpha Analytical Laboratories, Inc. Surface water samples were collected from the top of the water column at locations SW-1, SW-2, SW-3, and SW-4 (locations outlined below). Four 40-ml (milliliter) Volatile Organic Analysis (VOAs) vials with HCL preservative and two 1-liter amber glass bottles were used for collecting samples. Samples were transported by Bruce Gove to Alpha Analytical Laboratories, Inc. in Ukiah, California for analysis.



SOURCE: ARCATA SOUTH AND McWHINNEY
USGS 7.5 MINUTE QUADRANGLES



EA 2007 007218-FRESHWTR-SPILL-DRAFTING



Consulting Engineers
& Geologists, Inc.

Freshwater Creek
Accidental Spill
Eureka, California

December 2007

Site Location Map

SHN 007218

007218-SL-MAP

Figure 1

Surface water samples were initially labeled SW-1, SW-2, SW-3, and SW-4 by Alpha Analytical, prior to the issuance of the numbering scheme in Monitoring and Reporting Program No. R1-2007-0106.

Alpha Sample ID	Location
SW-1	Approximately 200 feet upstream from the spill site
SW-2	At spill site, middle of stream, upstream of bridge
SW-3	Approximately 50 feet downstream of the bridge (spill site)
SW-4	Howard Heights Bridge

3.1 Laboratory Analysis

Each surface water sample was analyzed for:

- Total Petroleum Hydrocarbons (TPH) as Gasoline (TPHG) in general accordance with EPA Method 8260GRO
- Total Petroleum Hydrocarbons as Diesel (TPHD), in general accordance with EPA Method 8015DRO
- Total Petroleum Hydrocarbons as Motor Oil (TPHMO), in general accordance with EPA Method 8015DRO
- Volatile Organic Compounds (VOCs), in general accordance with EPA Method 8260B; and
- Semi-Volatile Organic Compounds (SVOCs), in general accordance with EPA Method 8270C.

Alpha Analytical Laboratories, Inc., a California State-certified analytical laboratory located in Ukiah, California conducted all laboratory analyses.

4.0 Surface Water Analytical Results

Table 2 summarizes the laboratory analytical results for the surface water samples collected on November 30, 2007. Attachment 1 presents the complete analytical test results, chain-of-custody, and laboratory quality control data.

Table 2 Surface Water Analytical Results, November 30, 2007 Freshwater Creek Site Humboldt County, California (in ug/L)¹					
Sample Location	TPHMO²	TPHD²	TPHG³	VOCs⁴	SVOCs⁵
SW-1	<100 ⁶	<50	<50	ND ⁷	ND
SW-2	<100	<50	<50	ND	ND
SW-3	140	<50	<50	ND	ND
SW-4	<100	<50	<50	ND	ND

1. ug/L: micrograms per Liter
 2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO) and Total Petroleum Hydrocarbons as Diesel (TPHD), in general accordance with EPA Method Number 8015DRO
 3. Total Petroleum Hydrocarbons as Gasoline (TPHG), in general accordance with U.S. EPA Method Number 8260GRO
 4. Volatile Organic Compounds (VOCs), in general accordance with U.S. EPA Method Number 8260B
 5. Semi-Volatile Organic Compounds (SVOCs), in general accordance with U.S. EPA Method Number 8270C
 6. <: "less than" the stated method reporting limit; reporting limit for VOCs and SVOCs varies by compound – See laboratory reports
 7. ND: Not Detected

Based on the above data, the release to surface waters is primarily confined to motor oil range hydrocarbons. Lighter fraction hydrocarbons, VOCs and SVOCs have not been detected (at the reporting limits used) in the first sampling event.

5.0 Remedial Action Activities

On November 28 and 29, 2007, Northcoast Environmental Construction, Inc. (NEC) responded to the spill and began cleanup activities. NEC removed the vehicle from the stream and set up hydrocarbon absorbing booms in eight locations. Visible hydrocarbon contamination (oil) was removed from all portions of the area, from the edge of creek to several feet above the spill area. A double silt fence was installed parallel to the creek in the area where the truck was removed and cleanup activities were undertaken. Disturbed ground where the truck was removed was covered with straw mulch to stabilize the area and minimize erosion. Approximately 700 gallons of impacted soil, water, and organic material was removed from the immediate truck-spill site and placed in steel drums for offsite disposal. Additional details regarding the nature and locations of remedial activities will be presented in future reports, as field data is converted to figures and text.

SHN began daily sampling on Saturday, December 1, 2007, in accordance with Monitoring and Reporting Program No. R1-2007-0106. Monitoring of cleanup activities and daily sampling is currently being performed at the site by SHN.

Ms. Kasey Ashley
Surface Water Sampling Report, Freshwater Creek, California;
Monitoring and Reporting Program No. R1-2007-0106
December 4, 2007
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6.0 Discussion and Recommendations

As required by the NCRWQCB, SHN will continue daily surface water monitoring in accordance with Program No. R1-2007-0106.

If you have any questions, please call me at 707-441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

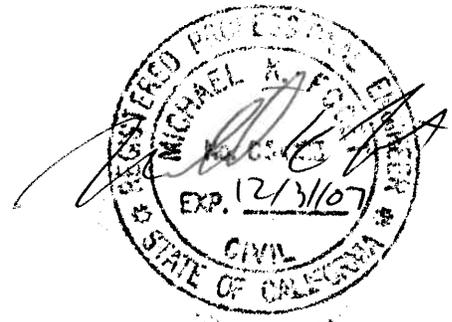


Mike Foget, P.E.
Project Manager

MKF:jLL:scw

Attachments: 1 Laboratory Analytical Report

copy w/attach: Steve Will, Steve Wills Trucking



Attachment 1

Laboratory Analytical Report



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Service Center: 6398 Dougherty Rd., Suite 3, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

03 December 2007

SHN Engineering

Attn: John Aveggio

812 W. Wabash Ave.

Eureka, CA 95501-2138

RE: Freshwater Creek

Work Order: 07K1075

Enclosed are the results of analyses for samples received by the laboratory on 11/30/07 20:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin For Sheri L. Speaks
Project Manager



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CHEMICAL EXAMINATION REPORT

Page 1 of 40

SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number
07K1075

Receipt Date/Time
11/30/2007 20:30

Client Code
SHNEUR

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1	07K1075-01	Water	11/30/07 15:30	11/30/07 20:30
SW-2	07K1075-02	Water	11/30/07 16:00	11/30/07 20:30
SW-3	07K1075-03	Water	11/30/07 16:30	11/30/07 20:30
SW-4	07K1075-04	Water	11/30/07 17:00	11/30/07 20:30

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

Page 2 of 40

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Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-1 (07K1075-01)							
TPH by EPA/LUFT GC/GCMS Methods				Sample Type: Water	Sampled: 11/30/07 15:30		
TPH as Diesel	8015DRO	AL70101	12/01/07	12/01/07	1	ND ug/l	50
TPH as Gasoline	8260GRO	AL70201	12/01/07	12/01/07	"	ND "	50
TPH as Motor Oil	8015DRO	AL70101	12/01/07	12/01/07	"	ND "	100
Surrogate: Tetraetracontane	"	"	"	"		109 %	20-152
Surrogate: Toluene-d8	8260GRO	AL70201	12/01/07	12/01/07		94.0 %	69-115
Volatile Organic Compounds by EPA Method 8260B							
Acetone	EPA 8260B	AL70202	"	12/01/07	1	ND ug/l	5.0
Benzene	"	"	"	"	"	ND "	0.30
Bromobenzene	"	"	"	"	"	ND "	0.50
Bromochloromethane	"	"	"	"	"	ND "	0.50
Bromodichloromethane	"	"	"	"	"	ND "	0.50
Bromoform	"	"	"	"	"	ND "	0.50
Bromomethane	"	"	"	"	"	ND "	0.50
n-Butylbenzene	"	"	"	"	"	ND "	0.50
sec-Butylbenzene	"	"	"	"	"	ND "	0.50
tert-Butylbenzene	"	"	"	"	"	ND "	0.50
Carbon tetrachloride	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
Chloroethane	"	"	"	"	"	ND "	0.50
Chloroform	"	"	"	"	"	ND "	0.50
Chloromethane	"	"	"	"	"	ND "	0.50
2-Chlorotoluene	"	"	"	"	"	ND "	0.50
4-Chlorotoluene	"	"	"	"	"	ND "	0.50
Dibromochloromethane	"	"	"	"	"	ND "	0.50
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Dibromomethane	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50

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12/3/2007



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CHEMICAL EXAMINATION REPORT

Page 3 of 40

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<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-1 (07K1075-01)		Sample Type: Water		Sampled: 11/30/07 15:30			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Dichlorodifluoromethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
1,1-Dichloroethane	"	"	"	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	ND "	0.50	
cis-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,3-Dichloropropane	"	"	"	"	ND "	0.50	
2,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,1-Dichloropropene	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	ND "	0.50	
Hexachlorobutadiene	"	"	"	"	ND "	0.50	
Isopropylbenzene	"	"	"	"	ND "	0.50	
p-Isopropyltoluene	"	"	"	"	ND "	0.50	
Methyl ethyl ketone	"	"	"	"	ND "	1.0	
Methyl isobutyl ketone	"	"	"	"	ND "	1.0	
Methyl tert-butyl ether	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	ND "	0.50	
Naphthalene	"	"	"	"	ND "	0.50	
n-Propylbenzene	"	"	"	"	ND "	0.50	
Styrene	"	"	"	"	ND "	0.50	
1,1,1,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	ND "	0.30	
1,2,3-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,1,1-Trichloroethane	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	ND "	0.50	

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07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-1 (07K1075-01)							
Sample Type: Water				Sampled: 11/30/07 15:30			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Trichloroethene	EPA 8260B	"	12/01/07	"	ND "	0.50	
Trichlorofluoromethane	"	"	"	"	ND "	0.50	
Trichlorotrifluoroethane	"	"	"	"	ND "	0.50	
1,2,3-Trichloropropane	"	"	"	"	ND "	0.50	
1,2,4-Trimethylbenzene	"	"	"	"	ND "	0.50	
1,3,5-Trimethylbenzene	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	ND "	0.50	
m,p-Xylene	"	"	"	"	ND "	0.50	
o-Xylene	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	ND "	0.50	
Surrogate: Dibromofluoromethane	"	"	"	"	75.6 %	46-130	
Surrogate: Toluene-d8	"	"	"	"	94.0 %	59-132	
Surrogate: Bromofluorobenzene	"	"	"	"	101 %	81-135	
Semivolatile Organic Compounds by EPA Method 8270C							
Acenaphthene	EPA 8270C	AL70302	12/01/07	12/03/07	1	ND ug/l	10
Acenaphthylene	"	"	"	"	"	ND "	10
Anthracene	"	"	"	"	"	ND "	10
Benzidine	"	"	"	"	"	ND "	50
Benzo (a) anthracene	"	"	"	"	"	ND "	10
Benzo (a) pyrene	"	"	"	"	"	ND "	10
Benzo (b) fluoranthene	"	"	"	"	"	ND "	10
Benzo (g,h,i) perylene	"	"	"	"	"	ND "	10
Benzo (k) fluoranthene	"	"	"	"	"	ND "	10
Benzoic acid	"	"	"	"	"	ND "	50
Benzyl alcohol	"	"	"	"	"	ND "	20
Bis(2-chloroethoxy)methane	"	"	"	"	"	ND "	10
Bis(2-chloroethyl)ether	"	"	"	"	"	ND "	10
Bis(2-chloroisopropyl)ether	"	"	"	"	"	ND "	10
Bis(2-ethylhexyl)phthalate	"	"	"	"	"	ND "	10
4-Bromophenyl phenyl ether	"	"	"	"	"	ND "	10

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Laboratory Director

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-1 (07K1075-01)		Sample Type: Water		Sampled: 11/30/07 15:30			
Semivolatile Organic Compounds by EPA Method 8270C (cont'd)							
Butyl benzyl phthalate	EPA 8270C	"	12/03/07	"	ND "	10	
4-Chloro-3-methylphenol	"	"	"	"	ND "	10	
4-Chloroaniline	"	"	"	"	ND "	20	
2-Chloronaphthalene	"	"	"	"	ND "	10	
2-Chlorophenol	"	"	"	"	ND "	10	
4-Chlorophenyl phenyl ether	"	"	"	"	ND "	10	
Chrysene	"	"	"	"	ND "	10	
Di-n-butyl phthalate	"	"	"	"	ND "	10	
Di-n-octyl phthalate	"	"	"	"	ND "	10	
Dibenz (a,h) anthracene	"	"	"	"	ND "	10	
Dibenzofuran	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	ND "	10	
3,3'-Dichlorobenzidine	"	"	"	"	ND "	20	
2,4-Dichlorophenol	"	"	"	"	ND "	10	
Diethyl phthalate	"	"	"	"	ND "	10	
Dimethyl phthalate	"	"	"	"	ND "	10	
2,4-Dimethylphenol	"	"	"	"	ND "	10	
4,6-Dinitro-2-methylphenol	"	"	"	"	ND "	50	
2,4-Dinitrophenol	"	"	"	"	ND "	50	
2,4-Dinitrotoluene	"	"	"	"	ND "	10	
2,6-Dinitrotoluene	"	"	"	"	ND "	10	
1,2-Diphenylhydrazine	"	"	"	"	ND "	10	
Fluoranthene	"	"	"	"	ND "	10	
Fluorene	"	"	"	"	ND "	10	
Hexachlorobenzene	"	"	"	"	ND "	10	
Hexachlorobutadiene	"	"	"	"	ND "	10	
Hexachlorocyclopentadiene	"	"	"	"	ND "	15	
Hexachloroethane	"	"	"	"	ND "	10	
Indeno (1,2,3-cd) pyrene	"	"	"	"	ND "	10	

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Laboratory Director

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Attn: John Aveggio

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Project No: -
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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-1 (07K1075-01)							
				Sample Type: Water	Sampled: 11/30/07 15:30		
Semivolatile Organic Compounds by EPA Method 8270C (cont'd)							
Isophorone	EPA 8270C	"	12/03/07	"	ND "	10	
2-Methylnaphthalene	"	"	"	"	ND "	10	
2-Methylphenol (o-cresol)	"	"	"	"	ND "	10	
3 & 4-Methylphenol (m,p-cresol)	"	"	"	"	ND "	10	
N-Nitrosodi-n-propylamine	"	"	"	"	ND "	10	
N-Nitrosodimethylamine	"	"	"	"	ND "	5.0	
N-Nitrosodiphenylamine	"	"	"	"	ND "	10	
Naphthalene	"	"	"	"	ND "	10	
2-Nitroaniline	"	"	"	"	ND "	50	
3-Nitroaniline	"	"	"	"	ND "	50	
4-Nitroaniline	"	"	"	"	ND "	50	
Nitrobenzene	"	"	"	"	ND "	10	
2-Nitrophenol	"	"	"	"	ND "	10	
4-Nitrophenol	"	"	"	"	ND "	50	
Pentachlorophenol	"	"	"	"	ND "	50	
Phenanthrene	"	"	"	"	ND "	10	
Phenol	"	"	"	"	ND "	10	
Pyrene	"	"	"	"	ND "	10	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	10	
2,4,5-Trichlorophenol	"	"	"	"	ND "	10	
2,4,6-Trichlorophenol	"	"	"	"	ND "	10	
Surrogate: 2-Fluorobiphenyl	"	"	"	"	82.3 %	42-115	
Surrogate: 2-Fluorophenol	"	"	"	"	52.5 %	21-87	
Surrogate: Nitrobenzene-d5	"	"	"	"	81.8 %	50-110	
Surrogate: p-Terphenyl-d14	"	"	"	"	88.6 %	61-134	
Surrogate: Phenol-d6	"	"	"	"	32.5 %	20-52	
Surrogate: 2,4,6-Tribromophenol	"	"	"	"	95.6 %	54-135	

SW-2 (07K1075-02)

Sample Type: Water

Sampled: 11/30/07 16:00

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AL70101	12/01/07	12/01/07	1	ND ug/l	50
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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-2 (07K1075-02)		Sample Type: Water			Sampled: 11/30/07 16:00			
TPH by EPA/LUFT GC/GCMS Methods (cont'd)								
TPH as Gasoline	8260GRO	AL70201	12/01/07	12/01/07	"	ND "	50	
TPH as Motor Oil	8015DRO	AL70101	12/01/07	12/01/07	"	ND "	100	
Surrogate: Tetratetracontane	"	"	"	"		108 %	20-152	
Surrogate: Toluene-d8	8260GRO	AL70201	12/01/07	12/01/07		106 %	69-115	
Volatile Organic Compounds by EPA Method 8260B								
Acetone	EPA 8260B	AL70202	"	12/01/07	I	ND ug/l	5.0	
Benzene	"	"	"	"	"	ND "	0.30	
Bromobenzene	"	"	"	"	"	ND "	0.50	
Bromochloromethane	"	"	"	"	"	ND "	0.50	
Bromodichloromethane	"	"	"	"	"	ND "	0.50	
Bromoform	"	"	"	"	"	ND "	0.50	
Bromomethane	"	"	"	"	"	ND "	0.50	
n-Butylbenzene	"	"	"	"	"	ND "	0.50	
sec-Butylbenzene	"	"	"	"	"	ND "	0.50	
tert-Butylbenzene	"	"	"	"	"	ND "	0.50	
Carbon tetrachloride	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
Chloroethane	"	"	"	"	"	ND "	0.50	
Chloroform	"	"	"	"	"	ND "	0.50	
Chloromethane	"	"	"	"	"	ND "	0.50	
2-Chlorotoluene	"	"	"	"	"	ND "	0.50	
4-Chlorotoluene	"	"	"	"	"	ND "	0.50	
Dibromochloromethane	"	"	"	"	"	ND "	0.50	
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.50	
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50	
Dibromomethane	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.50	

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07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-2 (07K1075-02)		Sample Type: Water		Sampled: 11/30/07 16:00			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
1,1-Dichloroethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	ND "	0.50	
cis-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,3-Dichloropropane	"	"	"	"	ND "	0.50	
2,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,1-Dichloropropene	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	ND "	0.50	
Hexachlorobutadiene	"	"	"	"	ND "	0.50	
Isopropylbenzene	"	"	"	"	ND "	0.50	
p-Isopropyltoluene	"	"	"	"	ND "	0.50	
Methyl ethyl ketone	"	"	"	"	ND "	1.0	
Methyl isobutyl ketone	"	"	"	"	ND "	1.0	
Methyl tert-butyl ether	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	ND "	0.50	
Naphthalene	"	"	"	"	ND "	0.50	
n-Propylbenzene	"	"	"	"	ND "	0.50	
Styrene	"	"	"	"	ND "	0.50	
1,1,1,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	ND "	0.30	
1,2,3-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,1,1-Trichloroethane	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	ND "	0.50	
Trichloroethene	"	"	"	"	ND "	0.50	

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Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-2 (07K1075-02)		Sample Type: Water		Sampled: 11/30/07 16:00			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Trichlorofluoromethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
Trichlorotrifluoroethane	"	"	"	"	ND "	0.50	
1,2,3-Trichloropropane	"	"	"	"	ND "	0.50	
1,2,4-Trimethylbenzene	"	"	"	"	ND "	0.50	
1,3,5-Trimethylbenzene	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	ND "	0.50	
m,p-Xylene	"	"	"	"	ND "	0.50	
o-Xylene	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	ND "	0.50	
Surrogate: Dibromofluoromethane	"	"	"	"	87.2 %	46-130	
Surrogate: Toluene-d8	"	"	"	"	106 %	59-132	
Surrogate: Bromofluorobenzene	"	"	"	"	113 %	81-135	
Semivolatile Organic Compounds by EPA Method 8270C							
Acenaphthene	EPA 8270C	AL70302	12/01/07	12/03/07	1	ND ug/l	10
Acenaphthylene	"	"	"	"	"	ND "	10
Anthracene	"	"	"	"	"	ND "	10
Benzdine	"	"	"	"	"	ND "	50
Benzo (a) anthracene	"	"	"	"	"	ND "	10
Benzo (a) pyrene	"	"	"	"	"	ND "	10
Benzo (b) fluoranthene	"	"	"	"	"	ND "	10
Benzo (g,h,i) perylene	"	"	"	"	"	ND "	10
Benzo (k) fluoranthene	"	"	"	"	"	ND "	10
Benzoic acid	"	"	"	"	"	ND "	50
Benzyl alcohol	"	"	"	"	"	ND "	20
Bis(2-chloroethoxy)methane	"	"	"	"	"	ND "	10
Bis(2-chloroethyl)ether	"	"	"	"	"	ND "	10
Bis(2-chloroisopropyl)ether	"	"	"	"	"	ND "	10
Bis(2-ethylhexyl)phthalate	"	"	"	"	"	ND "	10
4-Bromophenyl phenyl ether	"	"	"	"	"	ND "	10
Butyl benzyl phthalate	"	"	"	"	"	ND "	10

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<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-2 (07K1075-02)		Sample Type: Water		Sampled: 11/30/07 16:00			
Semivolatle Organic Compounds by EPA Method 8270C (cont'd)							
4-Chloro-3-methylphenol	EPA 8270C	"	"	12/03/07	"	ND "	10
4-Chloroaniline	"	"	"	"	"	ND "	20
2-Chloronaphthalene	"	"	"	"	"	ND "	10
2-Chlorophenol	"	"	"	"	"	ND "	10
4-Chlorophenyl phenyl ether	"	"	"	"	"	ND "	10
Chrysene	"	"	"	"	"	ND "	10
Di-n-butyl phthalate	"	"	"	"	"	ND "	10
Di-n-octyl phthalate	"	"	"	"	"	ND "	10
Dibenz (a,h) anthracene	"	"	"	"	"	ND "	10
Dibenzofuran	"	"	"	"	"	ND "	10
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10
3,3'-Dichlorobenzidine	"	"	"	"	"	ND "	20
2,4-Dichlorophenol	"	"	"	"	"	ND "	10
Diethyl phthalate	"	"	"	"	"	ND "	10
Dimethyl phthalate	"	"	"	"	"	ND "	10
2,4-Dimethylphenol	"	"	"	"	"	ND "	10
4,6-Dinitro-2-methylphenol	"	"	"	"	"	ND "	50
2,4-Dinitrophenol	"	"	"	"	"	ND "	50
2,4-Dinitrotoluene	"	"	"	"	"	ND "	10
2,6-Dinitrotoluene	"	"	"	"	"	ND "	10
1,2-Diphenylhydrazine	"	"	"	"	"	ND "	10
Fluoranthene	"	"	"	"	"	ND "	10
Fluorene	"	"	"	"	"	ND "	10
Hexachlorobenzene	"	"	"	"	"	ND "	10
Hexachlorobutadiene	"	"	"	"	"	ND "	10
Hexachlorocyclopentadiene	"	"	"	"	"	ND "	15
Hexachloroethane	"	"	"	"	"	ND "	10
Indeno (1,2,3-cd) pyrene	"	"	"	"	"	ND "	10
Isophorone	"	"	"	"	"	ND "	10

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Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-2 (07K1075-02)		Sample Type: Water			Sampled: 11/30/07 16:00		
Semivolatile Organic Compounds by EPA Method 8270C (cont'd)							
2-Methylnaphthalene	EPA 8270C	"	12/03/07	"	ND "	10	
2-Methylphenol (o-cresol)	"	"	"	"	ND "	10	
3 & 4-Methylphenol (m,p-cresol)	"	"	"	"	ND "	10	
N-Nitrosodi-n-propylamine	"	"	"	"	ND "	10	
N-Nitrosodimethylamine	"	"	"	"	ND "	5.0	
N-Nitrosodiphenylamine	"	"	"	"	ND "	10	
Naphthalene	"	"	"	"	ND "	10	
2-Nitroaniline	"	"	"	"	ND "	50	
3-Nitroaniline	"	"	"	"	ND "	50	
4-Nitroaniline	"	"	"	"	ND "	50	
Nitrobenzene	"	"	"	"	ND "	10	
2-Nitrophenol	"	"	"	"	ND "	10	
4-Nitrophenol	"	"	"	"	ND "	50	
Pentachlorophenol	"	"	"	"	ND "	50	
Phenanthrene	"	"	"	"	ND "	10	
Phenol	"	"	"	"	ND "	10	
Pyrene	"	"	"	"	ND "	10	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	10	
2,4,5-Trichlorophenol	"	"	"	"	ND "	10	
2,4,6-Trichlorophenol	"	"	"	"	ND "	10	
Surrogate: 2-Fluorobiphenyl	"	"	"	"	78.0 %	42-115	
Surrogate: 2-Fluorophenol	"	"	"	"	52.0 %	21-87	
Surrogate: Nitrobenzene-d5	"	"	"	"	76.0 %	50-110	
Surrogate: p-Terphenyl-d14	"	"	"	"	94.5 %	61-134	
Surrogate: Phenol-d6	"	"	"	"	33.0 %	20-52	
Surrogate: 2,4,6-Tribromophenol	"	"	"	"	96.0 %	54-135	

SW-2 (07K1075-02RE1)		Sample Type: Water			Sampled: 11/30/07 16:00		
TPH by EPA/LUFT GC/GCMS Methods							
TPH as Gasoline	8260GRO	AL70306	12/01/07	12/01/07	1	ND ug/l	50
Surrogate: Toluene-d8	"	"	"	"		106 %	69-115

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<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-3 (07K1075-03)							
TPH by EPA/LUFT GC/GCMS Methods				Sample Type: Water	Sampled: 11/30/07 16:30		
TPH as Diesel	8015DRO	AL70101	12/01/07	12/01/07	1	ND ug/l	50
TPH as Gasoline	8260GRO	AL70201	12/01/07	12/01/07	"	ND "	50
TPH as Motor Oil	8015DRO	AL70101	12/01/07	12/01/07	"	140 "	100
Surrogate: Tetratetracontane	"	"	"	"		117 %	20-152
Surrogate: Toluene-d8	8260GRO	AL70201	12/01/07	12/01/07		107 %	69-115

Volatile Organic Compounds by EPA Method 8260B

Compound	Method	Batch	Prepared	Analyzed	Dilution	Result	PQL
Acetone	EPA 8260B	AL70202	"	12/01/07	1	ND ug/l	5.0
Benzene	"	"	"	"	"	ND "	0.30
Bromobenzene	"	"	"	"	"	ND "	0.50
Bromochloromethane	"	"	"	"	"	ND "	0.50
Bromodichloromethane	"	"	"	"	"	ND "	0.50
Bromoform	"	"	"	"	"	ND "	0.50
Bromomethane	"	"	"	"	"	ND "	0.50
n-Butylbenzene	"	"	"	"	"	ND "	0.50
sec-Butylbenzene	"	"	"	"	"	ND "	0.50
tert-Butylbenzene	"	"	"	"	"	ND "	0.50
Carbon tetrachloride	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
Chloroethane	"	"	"	"	"	ND "	0.50
Chloroform	"	"	"	"	"	ND "	0.50
Chloromethane	"	"	"	"	"	ND "	0.50
2-Chlorotoluene	"	"	"	"	"	ND "	0.50
4-Chlorotoluene	"	"	"	"	"	ND "	0.50
Dibromochloromethane	"	"	"	"	"	ND "	0.50
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Dibromomethane	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50

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<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-3 (07K1075-03)		Sample Type: Water		Sampled: 11/30/07 16:30			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Dichlorodifluoromethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
1,1-Dichloroethane	"	"	"	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	ND "	0.50	
cis-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,3-Dichloropropane	"	"	"	"	ND "	0.50	
2,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,1-Dichloropropene	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	ND "	0.50	
Hexachlorobutadiene	"	"	"	"	ND "	0.50	
Isopropylbenzene	"	"	"	"	ND "	0.50	
p-Isopropyltoluene	"	"	"	"	ND "	0.50	
Methyl ethyl ketone	"	"	"	"	ND "	1.0	
Methyl isobutyl ketone	"	"	"	"	ND "	1.0	
Methyl tert-butyl ether	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	ND "	0.50	
Naphthalene	"	"	"	"	ND "	0.50	
n-Propylbenzene	"	"	"	"	ND "	0.50	
Styrene	"	"	"	"	ND "	0.50	
1,1,1,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	ND "	0.30	
1,2,3-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,1,1-Trichloroethane	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	ND "	0.50	

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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-3 (07K1075-03)		Sample Type: Water		Sampled: 11/30/07 16:30			
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Trichloroethene	EPA 8260B	"	"	12/01/07	"	ND "	0.50
Trichlorofluoromethane	"	"	"	"	"	ND "	0.50
Trichlorotrifluoroethane	"	"	"	"	"	ND "	0.50
1,2,3-Trichloropropane	"	"	"	"	"	ND "	0.50
1,2,4-Trimethylbenzene	"	"	"	"	"	ND "	0.50
1,3,5-Trimethylbenzene	"	"	"	"	"	ND "	0.50
Vinyl chloride	"	"	"	"	"	ND "	0.50
m,p-Xylene	"	"	"	"	"	ND "	0.50
o-Xylene	"	"	"	"	"	ND "	0.50
Xylenes (total)	"	"	"	"	"	ND "	0.50
Surrogate: Dibromofluoromethane	"	"	"	"	87.2 %	46-130	
Surrogate: Toluene-d8	"	"	"	"	107 %	59-132	
Surrogate: Bromofluorobenzene	"	"	"	"	116 %	81-135	
Semivolatile Organic Compounds by EPA Method 8270C							
Acenaphthene	EPA 8270C	AL70302	12/01/07	12/03/07	1	ND ug/l	10
Acenaphthylene	"	"	"	"	"	ND "	10
Anthracene	"	"	"	"	"	ND "	10
Benzydine	"	"	"	"	"	ND "	50
Benzo (a) anthracene	"	"	"	"	"	ND "	10
Benzo (a) pyrene	"	"	"	"	"	ND "	10
Benzo (b) fluoranthene	"	"	"	"	"	ND "	10
Benzo (g,h,i) perylene	"	"	"	"	"	ND "	10
Benzo (k) fluoranthene	"	"	"	"	"	ND "	10
Benzoic acid	"	"	"	"	"	ND "	50
Benzyl alcohol	"	"	"	"	"	ND "	20
Bis(2-chloroethoxy)methane	"	"	"	"	"	ND "	10
Bis(2-chloroethyl)ether	"	"	"	"	"	ND "	10
Bis(2-chloroisopropyl)ether	"	"	"	"	"	ND "	10
Bis(2-ethylhexyl)phthalate	"	"	"	"	"	ND "	10
4-Bromophenyl phenyl ether	"	"	"	"	"	ND "	10

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Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-3 (07K1075-03)		Sample Type: Water		Sampled: 11/30/07 16:30			
Semivolatile Organic Compounds by EPA Method 8270C (cont'd)							
Butyl benzyl phthalate	EPA 8270C	"	12/03/07	"	ND "	10	
4-Chloro-3-methylphenol	"	"	"	"	ND "	10	
4-Chloroaniline	"	"	"	"	ND "	20	
2-Chloronaphthalene	"	"	"	"	ND "	10	
2-Chlorophenol	"	"	"	"	ND "	10	
4-Chlorophenyl phenyl ether	"	"	"	"	ND "	10	
Chrysene	"	"	"	"	ND "	10	
Di-n-butyl phthalate	"	"	"	"	ND "	10	
Di-n-octyl phthalate	"	"	"	"	ND "	10	
Dibenz (a,h) anthracene	"	"	"	"	ND "	10	
Dibenzofuran	"	"	"	"	ND "	10	
1,2-Dichlorobenzene	"	"	"	"	ND "	10	
1,3-Dichlorobenzene	"	"	"	"	ND "	10	
1,4-Dichlorobenzene	"	"	"	"	ND "	10	
3,3'-Dichlorobenzidine	"	"	"	"	ND "	20	
2,4-Dichlorophenol	"	"	"	"	ND "	10	
Diethyl phthalate	"	"	"	"	ND "	10	
Dimethyl phthalate	"	"	"	"	ND "	10	
2,4-Dimethylphenol	"	"	"	"	ND "	10	
4,6-Dinitro-2-methylphenol	"	"	"	"	ND "	50	
2,4-Dinitrophenol	"	"	"	"	ND "	50	
2,4-Dinitrotoluene	"	"	"	"	ND "	10	
2,6-Dinitrotoluene	"	"	"	"	ND "	10	
1,2-Diphenylhydrazine	"	"	"	"	ND "	10	
Fluoranthene	"	"	"	"	ND "	10	
Fluorene	"	"	"	"	ND "	10	
Hexachlorobenzene	"	"	"	"	ND "	10	
Hexachlorobutadiene	"	"	"	"	ND "	10	
Hexachlorocyclopentadiene	"	"	"	"	ND "	15	
Hexachloroethane	"	"	"	"	ND "	10	
Indeno (1,2,3-cd) pyrene	"	"	"	"	ND "	10	

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Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-3 (07K1075-03)		Sample Type: Water			Sampled: 11/30/07 16:30		
Semivolatle Organic Compounds by EPA Method 8270C (cont'd)							
Isophorone	EPA 8270C	"	"	12/03/07	"	ND "	10
2-Methylnaphthalene	"	"	"	"	"	ND "	10
2-Methylphenol (o-cresol)	"	"	"	"	"	ND "	10
3 & 4-Methylphenol (m,p-cresol)	"	"	"	"	"	ND "	10
N-Nitrosodi-n-propylamine	"	"	"	"	"	ND "	10
N-Nitrosodimethylamine	"	"	"	"	"	ND "	5.0
N-Nitrosodiphenylamine	"	"	"	"	"	ND "	10
Naphthalene	"	"	"	"	"	ND "	10
2-Nitroaniline	"	"	"	"	"	ND "	50
3-Nitroaniline	"	"	"	"	"	ND "	50
4-Nitroaniline	"	"	"	"	"	ND "	50
Nitrobenzene	"	"	"	"	"	ND "	10
2-Nitrophenol	"	"	"	"	"	ND "	10
4-Nitrophenol	"	"	"	"	"	ND "	50
Pentachlorophenol	"	"	"	"	"	ND "	50
Phenanthrene	"	"	"	"	"	ND "	10
Phenol	"	"	"	"	"	ND "	10
Pyrene	"	"	"	"	"	ND "	10
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	10
2,4,5-Trichlorophenol	"	"	"	"	"	ND "	10
2,4,6-Trichlorophenol	"	"	"	"	"	ND "	10
Surrogate: 2-Fluorobiphenyl	"	"	"	"	79.7 %	42-115	
Surrogate: 2-Fluorophenol	"	"	"	"	50.9 %	21-87	
Surrogate: Nitrobenzene-d5	"	"	"	"	79.5 %	50-110	
Surrogate: p-Terphenyl-d14	"	"	"	"	89.1 %	61-134	
Surrogate: Phenol-d6	"	"	"	"	31.7 %	20-52	
Surrogate: 2,4,6-Tribromophenol	"	"	"	"	90.9 %	54-135	

SW-4 (07K1075-04)

Sample Type: Water

Sampled: 11/30/07 17:00

TPH by EPA/LUFT GC/GCMS Methods

TPH as Diesel	8015DRO	AL70101	12/01/07	12/01/07	1	ND ug/l	50
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CHEMICAL EXAMINATION REPORT

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Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-4 (07K1075-04)							
TPH by EPA/LUFT GC/GCMS Methods (cont'd)				Sample Type: Water	Sampled: 11/30/07 17:00		
TPH as Gasoline	8260GRO	AL70201	12/01/07	12/01/07	"	ND "	50
TPH as Motor Oil	8015DRO	AL70101	12/01/07	12/01/07	"	ND "	100
Surrogate: Tetraetracontane	"	"	"	"	109 %	20-152	
Surrogate: Toluene-d8	8260GRO	AL70201	12/01/07	12/01/07	107 %	69-115	
Volatile Organic Compounds by EPA Method 8260B							
Acetone	EPA 8260B	AL70202	"	12/01/07	1	ND ug/l	5.0
Benzene	"	"	"	"	"	ND "	0.30
Bromobenzene	"	"	"	"	"	ND "	0.50
Bromochloromethane	"	"	"	"	"	ND "	0.50
Bromodichloromethane	"	"	"	"	"	ND "	0.50
Bromoform	"	"	"	"	"	ND "	0.50
Bromomethane	"	"	"	"	"	ND "	0.50
n-Butylbenzene	"	"	"	"	"	ND "	0.50
sec-Butylbenzene	"	"	"	"	"	ND "	0.50
tert-Butylbenzene	"	"	"	"	"	ND "	0.50
Carbon tetrachloride	"	"	"	"	"	ND "	0.50
Chlorobenzene	"	"	"	"	"	ND "	0.50
Chloroethane	"	"	"	"	"	ND "	0.50
Chloroform	"	"	"	"	"	ND "	0.50
Chloromethane	"	"	"	"	"	ND "	0.50
2-Chlorotoluene	"	"	"	"	"	ND "	0.50
4-Chlorotoluene	"	"	"	"	"	ND "	0.50
Dibromochloromethane	"	"	"	"	"	ND "	0.50
1,2-Dibromo-3-chloropropane	"	"	"	"	"	ND "	0.50
1,2-Dibromoethane (EDB)	"	"	"	"	"	ND "	0.50
Dibromomethane	"	"	"	"	"	ND "	0.50
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50
Dichlorodifluoromethane	"	"	"	"	"	ND "	0.50

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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-4 (07K1075-04)							
Sample Type: Water							
Sampled: 11/30/07 17:00							
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
1,1-Dichloroethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	ND "	0.50	
cis-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,3-Dichloropropane	"	"	"	"	ND "	0.50	
2,2-Dichloropropane	"	"	"	"	ND "	0.50	
1,1-Dichloropropene	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	ND "	0.50	
Hexachlorobutadiene	"	"	"	"	ND "	0.50	
Isopropylbenzene	"	"	"	"	ND "	0.50	
p-Isopropyltoluene	"	"	"	"	ND "	0.50	
Methyl ethyl ketone	"	"	"	"	ND "	1.0	
Methyl isobutyl ketone	"	"	"	"	ND "	1.0	
Methyl tert-butyl ether	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	ND "	0.50	
Naphthalene	"	"	"	"	ND "	0.50	
n-Propylbenzene	"	"	"	"	ND "	0.50	
Styrene	"	"	"	"	ND "	0.50	
1,1,1,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	ND "	0.30	
1,2,3-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,2,4-Trichlorobenzene	"	"	"	"	ND "	0.50	
1,1,1-Trichloroethane	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	ND "	0.50	
Trichloroethene	"	"	"	"	ND "	0.50	

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07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-4 (07K1075-04)							
Sample Type: Water							
Sampled: 11/30/07 17:00							
Volatile Organic Compounds by EPA Method 8260B (cont'd)							
Trichlorofluoromethane	EPA 8260B	"	12/01/07	"	ND "	0.50	
Trichlorotrifluoroethane	"	"	"	"	ND "	0.50	
1,2,3-Trichloropropane	"	"	"	"	ND "	0.50	
1,2,4-Trimethylbenzene	"	"	"	"	ND "	0.50	
1,3,5-Trimethylbenzene	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	ND "	0.50	
m,p-Xylene	"	"	"	"	ND "	0.50	
o-Xylene	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	ND "	0.50	
Surrogate: Dibromofluoromethane	"	"	"	"	88.0 %	46-130	
Surrogate: Toluene-d8	"	"	"	"	107 %	59-132	
Surrogate: Bromofluorobenzene	"	"	"	"	114 %	81-135	

Semivolatile Organic Compounds by EPA Method 8270C

Acenaphthene	EPA 8270C	AL70302	12/01/07	12/03/07	1	ND ug/l	10
Acenaphthylene	"	"	"	"	"	ND "	10
Anthracene	"	"	"	"	"	ND "	10
Benzydine	"	"	"	"	"	ND "	50
Benzo (a) anthracene	"	"	"	"	"	ND "	10
Benzo (a) pyrene	"	"	"	"	"	ND "	10
Benzo (b) fluoranthene	"	"	"	"	"	ND "	10
Benzo (g,h,i) perylene	"	"	"	"	"	ND "	10
Benzo (k) fluoranthene	"	"	"	"	"	ND "	10
Benzoic acid	"	"	"	"	"	ND "	50
Benzyl alcohol	"	"	"	"	"	ND "	20
Bis(2-chloroethoxy)methane	"	"	"	"	"	ND "	10
Bis(2-chloroethyl)ether	"	"	"	"	"	ND "	10
Bis(2-chloroisopropyl)ether	"	"	"	"	"	ND "	10
Bis(2-ethylhexyl)phthalate	"	"	"	"	"	ND "	10
4-Bromophenyl phenyl ether	"	"	"	"	"	ND "	10
Butyl benzyl phthalate	"	"	"	"	"	ND "	10

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-4 (07K1075-04)		Sample Type: Water		Sampled: 11/30/07 17:00			
Semivolatle Organic Compounds by EPA Method 8270C (cont'd)							
4-Chloro-3-methylphenol	EPA 8270C	"	"	12/03/07	"	ND "	10
4-Chloroaniline	"	"	"	"	"	ND "	20
2-Chloronaphthalene	"	"	"	"	"	ND "	10
2-Chlorophenol	"	"	"	"	"	ND "	10
4-Chlorophenyl phenyl ether	"	"	"	"	"	ND "	10
Chrysene	"	"	"	"	"	ND "	10
Di-n-butyl phthalate	"	"	"	"	"	ND "	10
Di-n-octyl phthalate	"	"	"	"	"	ND "	10
Dibenz (a,h) anthracene	"	"	"	"	"	ND "	10
Dibenzofuran	"	"	"	"	"	ND "	10
1,2-Dichlorobenzene	"	"	"	"	"	ND "	10
1,3-Dichlorobenzene	"	"	"	"	"	ND "	10
1,4-Dichlorobenzene	"	"	"	"	"	ND "	10
3,3'-Dichlorobenzidine	"	"	"	"	"	ND "	20
2,4-Dichlorophenol	"	"	"	"	"	ND "	10
Diethyl phthalate	"	"	"	"	"	ND "	10
Dimethyl phthalate	"	"	"	"	"	ND "	10
2,4-Dimethylphenol	"	"	"	"	"	ND "	10
4,6-Dinitro-2-methylphenol	"	"	"	"	"	ND "	50
2,4-Dinitrophenol	"	"	"	"	"	ND "	50
2,4-Dinitrotoluene	"	"	"	"	"	ND "	10
2,6-Dinitrotoluene	"	"	"	"	"	ND "	10
1,2-Diphenylhydrazine	"	"	"	"	"	ND "	10
Fluoranthene	"	"	"	"	"	ND "	10
Fluorene	"	"	"	"	"	ND "	10
Hexachlorobenzene	"	"	"	"	"	ND "	10
Hexachlorobutadiene	"	"	"	"	"	ND "	10
Hexachlorocyclopentadiene	"	"	"	"	"	ND "	15
Hexachloroethane	"	"	"	"	"	ND "	10
Indeno (1,2,3-cd) pyrene	"	"	"	"	"	ND "	10
Isophorone	"	"	"	"	"	ND "	10

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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Alpha Analytical Laboratories, Inc.

METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
SW-4 (07K1075-04)							
				Sample Type: Water	Sampled: 11/30/07 17:00		
Semivolatile Organic Compounds by EPA Method 8270C (cont'd)							
2-Methylnaphthalene	EPA 8270C	"	"	12/03/07	"	ND "	10
2-Methylphenol (o-cresol)	"	"	"	"	"	ND "	10
3 & 4-Methylphenol (m,p-cresol)	"	"	"	"	"	ND "	10
N-Nitrosodi-n-propylamine	"	"	"	"	"	ND "	10
N-Nitrosodimethylamine	"	"	"	"	"	ND "	5.0
N-Nitrosodiphenylamine	"	"	"	"	"	ND "	10
Naphthalene	"	"	"	"	"	ND "	10
2-Nitroaniline	"	"	"	"	"	ND "	50
3-Nitroaniline	"	"	"	"	"	ND "	50
4-Nitroaniline	"	"	"	"	"	ND "	50
Nitrobenzene	"	"	"	"	"	ND "	10
2-Nitrophenol	"	"	"	"	"	ND "	10
4-Nitrophenol	"	"	"	"	"	ND "	50
Pentachlorophenol	"	"	"	"	"	ND "	50
Phenanthrene	"	"	"	"	"	ND "	10
Phenol	"	"	"	"	"	ND "	10
Pyrene	"	"	"	"	"	ND "	10
1,2,4-Trichlorobenzene	"	"	"	"	"	ND "	10
2,4,5-Trichlorophenol	"	"	"	"	"	ND "	10
2,4,6-Trichlorophenol	"	"	"	"	"	ND "	10
Surrogate: 2-Fluorobiphenyl	"	"	"	"	88.9 %	42-115	
Surrogate: 2-Fluorophenol	"	"	"	"	57.2 %	21-87	
Surrogate: Nitrobenzene-d5	"	"	"	"	85.9 %	50-110	
Surrogate: p-Terphenyl-d14	"	"	"	"	94.3 %	61-134	
Surrogate: Phenol-d6	"	"	"	"	36.1 %	20-52	
Surrogate: 2,4,6-Tribromophenol	"	"	"	"	100 %	54-135	

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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70101 - SVOAs in Water GC										
Blank (AL70101-BLK1)				Prepared & Analyzed: 12/01/07						
TPH as Diesel	ND	50	ug/l							
TPH as Motor Oil	ND	100	"							
Surrogate: Tetraetracontane	75.4		"	75.0		101	20-152			
LCS (AL70101-BS1)				Prepared & Analyzed: 12/01/07						
TPH as Diesel	1290	50	ug/l	2010		64.2	52-136			
TPH as Motor Oil	1930	100	"	2000		96.5	58-138			
Surrogate: Tetraetracontane	69.6		"	75.0		92.8	20-152			
LCS Dup (AL70101-BSD1)				Prepared & Analyzed: 12/01/07						
TPH as Diesel	1420	50	ug/l	2010		70.6	52-136	9.59	25	
TPH as Motor Oil	1940	100	"	2000		97.0	58-138	0.517	25	
Surrogate: Tetraetracontane	70.2		"	75.0		93.6	20-152			
Batch AL70201 - VOAs in Water GCMS										
Blank (AL70201-BLK1)				Prepared & Analyzed: 12/01/07						
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	28.3		"	25.0		113	69-115			
LCS (AL70201-BS1)				Prepared & Analyzed: 12/01/07						
TPH as Gasoline	185	50	ug/l	200		92.5	68-127			
Surrogate: Toluene-d8	27.7		"	25.0		111	69-115			
Matrix Spike (AL70201-MS1)				Source: 07K1075-02 Prepared & Analyzed: 12/01/07						
TPH as Gasoline	159	50	ug/l	200	ND	79.5	37-156			

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Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

TPH by EPA/LUFT GC/GCMS Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70201 - VOAs in Water GCMS										
Matrix Spike (AL70201-MS1)			Source: 07K1075-02		Prepared & Analyzed: 12/01/07					
Surrogate: Toluene-d8	25.8		"	25.0		103	69-115			
Matrix Spike Dup (AL70201-MSD1)			Source: 07K1075-02		Prepared & Analyzed: 12/01/07					
TPH as Gasoline	174	50	ug/l	200	ND	87.0	37-156	9.01	20	
Surrogate: Toluene-d8	26.4		"	25.0		106	69-115			
Batch AL70306 - VOAs in Water GCMS										
Blank (AL70306-BLK1)					Prepared & Analyzed: 12/01/07					
TPH as Gasoline	ND	50	ug/l							
Surrogate: Toluene-d8	28.3		"	25.0		113	69-115			
LCS (AL70306-BS1)					Prepared & Analyzed: 12/01/07					
TPH as Gasoline	185	50	ug/l	200		92.5	68-127			
Surrogate: Toluene-d8	27.7		"	25.0		111	69-115			
Matrix Spike (AL70306-MS1)			Source: 07K1075-02		Prepared & Analyzed: 12/01/07					
TPH as Gasoline	159	50	ug/l	200	ND	79.5	37-156			
Surrogate: Toluene-d8	25.8		"	25.0		103	69-115			
Matrix Spike Dup (AL70306-MSD1)			Source: 07K1075-02		Prepared & Analyzed: 12/01/07					
TPH as Gasoline	174	50	ug/l	200	ND	87.0	37-156	9.01	20	
Surrogate: Toluene-d8	26.4		"	25.0		106	69-115			

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<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Blank (AL70202-BLK1)				Prepared & Analyzed: 12/01/07						
Acetone	ND	5.0	ug/l							
Benzene	ND	0.30	"							
Bromobenzene	ND	0.50	"							
Bromochloromethane	ND	0.50	"							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
n-Butylbenzene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
2-Chlorotoluene	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Dibromomethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							

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<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Blank (AL70202-BLK1)				Prepared & Analyzed: 12/01/07						
1,1-Dichloroethene	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
1,1-Dichloropropene	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
p-Isopropyltoluene	ND	0.50	"							
Methyl ethyl ketone	ND	1.0	"							
Methyl isobutyl ketone	ND	1.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Methylene chloride	ND	0.50	"							
Naphthalene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.30	"							
1,2,3-Trichlorobenzene	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	0.50	"							
1,1,1-Trichloroethane	ND	0.50	"							

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Order Number 07K1075 Receipt Date/Time 11/30/2007 20:30 Client Code SHNEUR Client PO/Reference

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Blank (AL70202-BLK1)				Prepared & Analyzed: 12/01/07						
1,1,2-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Trichlorotrifluoroethane	ND	0.50	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Dibromofluoromethane	21.5		"	25.0		86.0	46-130			
Surrogate: Toluene-d8	28.3		"	25.0		113	59-132			
Surrogate: Bromofluorobenzene	29.4		"	25.0		118	81-135			
LCS (AL70202-BS1)				Prepared & Analyzed: 12/01/07						
Acetone	45.2	5.0	ug/l	39.4		115	69-145			
Benzene	10.2	0.30	"	10.0		102	82-123			
Bromobenzene	11.2	0.50	"	10.0		112	83-120			
Bromochloromethane	10.2	0.50	"	10.0		102	86-115			
Bromodichloromethane	10.1	0.50	"	10.0		101	86-135			
Bromoform	10.4	0.50	"	10.0		104	79-132			
Bromomethane	11.0	0.50	"	10.0		110	69-145			
n-Butylbenzene	11.6	0.50	"	10.0		116	79-132			
sec-Butylbenzene	11.8	0.50	"	10.0		118	86-132			
tert-Butylbenzene	11.3	0.50	"	10.0		113	82-126			
Carbon tetrachloride	10.9	0.50	"	10.0		109	77-134			

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Project ID: Freshwater Creek

<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
LCS (AL70202-BS1)				Prepared & Analyzed: 12/01/07						
Chlorobenzene	10.2	0.50	"	10.0		102	84-114			
Chloroethane	10.2	0.50	"	10.0		102	68-133			
Chloroform	10.2	0.50	"	10.0		102	81-122			
Chloromethane	10.7	0.50	"	10.0		107	63-129			
2-Chlorotoluene	12.2	0.50	"	10.0		122	78-130			
4-Chlorotoluene	11.2	0.50	"	10.0		112	80-122			
Dibromochloromethane	10.6	0.50	"	10.0		106	81-124			
1,2-Dibromo-3-chloropropane	9.92	0.50	"	10.0		99.2	74-124			
1,2-Dibromoethane (EDB)	10.9	0.50	"	10.0		109	80-120			
Dibromomethane	9.75	0.50	"	10.0		97.5	82-116			
1,2-Dichlorobenzene	10.6	0.50	"	10.0		106	84-121			
1,3-Dichlorobenzene	10.8	0.50	"	10.0		108	80-120			
1,4-Dichlorobenzene	10.3	0.50	"	10.0		103	84-120			
Dichlorodifluoromethane	12.7	0.50	"	10.0		127	66-169			
1,1-Dichloroethane	10.5	0.50	"	10.0		105	81-126			
1,2-Dichloroethane	10.2	0.50	"	10.0		102	77-115			
1,1-Dichloroethene	12.5	0.50	"	10.0		125	71-151			
cis-1,2-Dichloroethene	10.7	0.50	"	10.0		107	84-131			
trans-1,2-Dichloroethene	10.5	0.50	"	10.0		105	79-128			
1,2-Dichloropropane	10.8	0.50	"	10.0		108	82-125			
1,3-Dichloropropane	10.8	0.50	"	10.0		108	83-116			
2,2-Dichloropropane	11.8	0.50	"	10.0		118	80-125			
1,1-Dichloropropene	11.5	0.50	"	10.0		115	85-130			
cis-1,3-Dichloropropene	9.96	0.50	"	10.0		99.6	83-128			
trans-1,3-Dichloropropene	10.1	0.50	"	10.0		101	76-115			
Ethylbenzene	11.7	0.50	"	10.0		117	84-122			
Hexachlorobutadiene	11.4	0.50	"	10.0		114	70-144			

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Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
LCS (AL70202-BS1)				Prepared & Analyzed: 12/01/07						
Isopropylbenzene	10.4	0.50	"	10.0		104	75-116			
p-Isopropyltoluene	11.5	0.50	"	10.0		115	78-121			
Methyl ethyl ketone	25.2	1.0	"	20.0		126	70-156			
Methyl isobutyl ketone	19.9	1.0	"	20.0		99.5	70-130			
Methyl tert-butyl ether	11.0	0.50	"	10.0		110	84-119			
Methylene chloride	9.63	0.50	"	10.0		96.3	79-130			
Naphthalene	11.6	0.50	"	10.0		116	86-127			
n-Propylbenzene	11.4	0.50	"	10.0		114	75-127			
Styrene	11.0	0.50	"	10.0		110	80-125			
1,1,1,2-Tetrachloroethane	10.4	0.50	"	10.0		104	79-118			
1,1,2,2-Tetrachloroethane	10.4	0.50	"	10.0		104	90-121			
Tetrachloroethane	10.2	0.50	"	10.0		102	78-137			
Toluene	11.2	0.30	"	10.0		112	76-137			
1,2,3-Trichlorobenzene	12.9	0.50	"	10.0		129	84-128			QL-03
1,2,4-Trichlorobenzene	12.5	0.50	"	10.0		125	85-123			QL-03
1,1,1-Trichloroethane	11.1	0.50	"	10.0		111	70-130			
1,1,2-Trichloroethane	10.6	0.50	"	10.0		106	83-122			
Trichloroethene	10.9	0.50	"	10.0		109	84-123			
Trichlorofluoromethane	10.4	0.50	"	10.0		104	74-130			
Trichlorotrifluoroethane	10.4	0.50	"	9.84		106	87-121			
1,2,3-Trichloropropane	11.0	0.50	"	10.0		110	78-112			
1,2,4-Trimethylbenzene	11.9	0.50	"	10.0		119	83-127			
1,3,5-Trimethylbenzene	11.6	0.50	"	10.0		116	82-124			
Vinyl chloride	11.7	0.50	"	10.0		117	61-140			
m,p-Xylene	23.1	0.50	"	20.0		116	81-124			
o-Xylene	11.0	0.50	"	10.0		110	80-126			
Xylenes (total)	34.1	0.50	"	30.0		114	81-126			

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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
07K1075	11/30/2007 20:30	SHNEUR	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
LCS (AL70202-BS1)				Prepared & Analyzed: 12/01/07						
Surrogate: Dibromofluoromethane	20.1		"	25.0		80.4	46-130			
Surrogate: Toluene-d8	24.7		"	25.0		98.8	59-132			
Surrogate: Bromofluorobenzene	26.7		"	25.0		107	81-135			
Matrix Spike (AL70202-MS1)				Source: 07K1075-01		Prepared & Analyzed: 12/01/07				
Acetone	33.3	5.0	ug/l	39.4	ND	84.5	40-147			
Benzene	11.4	0.30	"	10.0	ND	114	57-141			
Bromobenzene	11.9	0.50	"	10.0	ND	119	65-135			
Bromochloromethane	11.0	0.50	"	10.0	ND	110	69-131			
Bromodichloromethane	11.2	0.50	"	10.0	ND	112	62-140			
Bromoform	11.4	0.50	"	10.0	ND	114	55-151			
Bromomethane	12.3	0.50	"	10.0	ND	123	43-162			
n-Butylbenzene	12.8	0.50	"	10.0	ND	128	74-138			
sec-Butylbenzene	12.7	0.50	"	10.0	ND	127	78-145			
tert-Butylbenzene	12.2	0.50	"	10.0	ND	122	71-139			
Carbon tetrachloride	11.9	0.50	"	10.0	ND	119	65-153			
Chlorobenzene	11.0	0.50	"	10.0	ND	110	57-136			
Chloroethane	10.8	0.50	"	10.0	ND	108	62-142			
Chloroform	10.8	0.50	"	10.0	ND	108	36-151			
Chloromethane	11.8	0.50	"	10.0	ND	118	69-149			
2-Chlorotoluene	11.2	0.50	"	10.0	ND	112	70-137			
4-Chlorotoluene	11.4	0.50	"	10.0	ND	114	50-134			
Dibromochloromethane	11.3	0.50	"	10.0	ND	113	62-141			
1,2-Dibromo-3-chloropropane	10.9	0.50	"	10.0	ND	109	59-134			
1,2-Dibromoethane (EDB)	11.3	0.50	"	10.0	ND	113	40-147			
Dibromomethane	10.6	0.50	"	10.0	ND	106	65-129			
1,2-Dichlorobenzene	11.9	0.50	"	10.0	ND	119	57-137			

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Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Matrix Spike (AL70202-MS1)		Source: 07K1075-01			Prepared & Analyzed: 12/01/07					
1,3-Dichlorobenzene	11.4	0.50	"	10.0	ND	114	65-131			
1,4-Dichlorobenzene	11.0	0.50	"	10.0	ND	110	61-131			
Dichlorodifluoromethane	11.9	0.50	"	10.0	ND	119	63-177			
1,1-Dichloroethane	11.5	0.50	"	10.0	ND	115	64-136			
1,2-Dichloroethane	10.7	0.50	"	10.0	ND	107	62-126			
1,1-Dichloroethene	12.8	0.50	"	10.0	ND	128	45-178			
cis-1,2-Dichloroethene	12.0	0.50	"	10.0	ND	120	66-141			
trans-1,2-Dichloroethene	12.0	0.50	"	10.0	ND	120	59-151			
1,2-Dichloropropane	11.8	0.50	"	10.0	ND	118	62-128			
1,3-Dichloropropane	11.4	0.50	"	10.0	ND	114	67-126			
2,2-Dichloropropane	13.0	0.50	"	10.0	ND	130	71-135			
1,1-Dichloropropene	12.6	0.50	"	10.0	ND	126	58-148			
cis-1,3-Dichloropropene	10.5	0.50	"	10.0	ND	105	50-140			
trans-1,3-Dichloropropene	10.8	0.50	"	10.0	ND	108	55-126			
Ethylbenzene	12.9	0.50	"	10.0	ND	129	48-153			
Hexachlorobutadiene	13.0	0.50	"	10.0	ND	130	70-147			
Isopropylbenzene	11.2	0.50	"	10.0	ND	112	65-128			
p-Isopropyltoluene	12.1	0.50	"	10.0	ND	121	70-132			
Methyl ethyl ketone	22.5	1.0	"	20.0	ND	112	62-126			
Methyl isobutyl ketone	21.4	1.0	"	20.0	ND	107	66-127			
Methyl tert-butyl ether	11.2	0.50	"	10.0	ND	112	55-144			
Methylene chloride	11.1	0.50	"	10.0	ND	111	60-137			
Naphthalene	12.5	0.50	"	10.0	ND	125	64-143			
n-Propylbenzene	12.2	0.50	"	10.0	ND	122	66-138			
Styrene	12.6	0.50	"	10.0	ND	126	36-162			
1,1,1,2-Tetrachloroethane	11.4	0.50	"	10.0	ND	114	56-137			
1,1,2,2-Tetrachloroethane	11.2	0.50	"	10.0	ND	112	50-143			

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Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Matrix Spike (AL70202-MS1)		Source: 07K1075-01			Prepared & Analyzed: 12/01/07					
Tetrachloroethene	10.6	0.50	"	10.0	ND	106	49-148			
Toluene	12.5	0.30	"	10.0	ND	125	56-147			
1,2,3-Trichlorobenzene	13.7	0.50	"	10.0	ND	137	60-143			
1,2,4-Trichlorobenzene	13.5	0.50	"	10.0	ND	135	65-134			QM-05
1,1,1-Trichloroethane	11.9	0.50	"	10.0	ND	119	62-144			
1,1,2-Trichloroethane	11.1	0.50	"	10.0	ND	111	62-129			
Trichloroethene	11.1	0.50	"	10.0	ND	111	58-140			
Trichlorofluoromethane	10.7	0.50	"	10.0	ND	107	65-143			
Trichlorotrifluoroethane	10.6	0.50	"	9.84	ND	108	72-135			
1,2,3-Trichloropropane	11.8	0.50	"	10.0	ND	118	65-120			
1,2,4-Trimethylbenzene	12.6	0.50	"	10.0	ND	126	71-138			
1,3,5-Trimethylbenzene	12.1	0.50	"	10.0	ND	121	70-136			
Vinyl chloride	13.3	0.50	"	10.0	ND	133	55-146			
m,p-Xylene	25.0	0.50	"	20.0	ND	125	71-137			
o-Xylene	12.0	0.50	"	10.0	ND	120	70-137			
Xylenes (total)	37.0	0.50	"	30.0	ND	123	49-153			
<i>Surrogate: Dibromofluoromethane</i>	20.9		"	25.0		83.6	46-130			
<i>Surrogate: Toluene-d8</i>	25.5		"	25.0		102	59-132			
<i>Surrogate: Bromofluorobenzene</i>	27.7		"	25.0		111	81-135			
Matrix Spike Dup (AL70202-MSD1)		Source: 07K1075-01			Prepared & Analyzed: 12/01/07					
Acetone	22.8	5.0	ug/l	39.4	ND	57.9	40-147	37.4	25	
Benzene	7.53	0.30	"	10.0	ND	75.3	57-141	40.9	25	
Bromobenzene	7.79	0.50	"	10.0	ND	77.9	65-135	41.7	25	
Bromochloromethane	8.21	0.50	"	10.0	ND	82.1	69-131	29.0	25	
Bromodichloromethane	6.99	0.50	"	10.0	ND	69.9	62-140	46.3	25	
Bromoform	6.71	0.50	"	10.0	ND	67.1	55-151	51.8	25	

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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Matrix Spike Dup (AL70202-MSD1)	Source: 07K1075-01			Prepared & Analyzed: 12/01/07						QM-08
Bromomethane	8.81	0.50	"	10.0	ND	88.1	43-162	33.1	25	
n-Butylbenzene	8.23	0.50	"	10.0	ND	82.3	74-138	43.5	25	
sec-Butylbenzene	8.49	0.50	"	10.0	ND	84.9	78-145	39.7	25	
tert-Butylbenzene	7.76	0.50	"	10.0	ND	77.6	71-139	44.5	25	
Carbon tetrachloride	7.62	0.50	"	10.0	ND	76.2	65-153	43.9	25	
Chlorobenzene	7.22	0.50	"	10.0	ND	72.2	57-136	41.5	25	
Chloroethane	8.29	0.50	"	10.0	ND	82.9	62-142	26.3	25	
Chloroform	7.00	0.50	"	10.0	ND	70.0	36-151	42.7	25	
Chloromethane	7.98	0.50	"	10.0	ND	79.8	69-149	38.6	25	
2-Chlorotoluene	8.61	0.50	"	10.0	ND	86.1	70-137	26.1	25	
4-Chlorotoluene	7.55	0.50	"	10.0	ND	75.5	50-134	40.6	25	
Dibromochloromethane	6.83	0.50	"	10.0	ND	68.3	62-141	49.3	25	
1,2-Dibromo-3-chloropropane	6.67	0.50	"	10.0	ND	66.7	59-134	48.2	25	
1,2-Dibromoethane (EDB)	7.32	0.50	"	10.0	ND	73.2	40-147	42.7	25	
Dibromomethane	7.03	0.50	"	10.0	ND	70.3	65-129	40.5	25	
1,2-Dichlorobenzene	7.28	0.50	"	10.0	ND	72.8	57-137	48.2	25	
1,3-Dichlorobenzene	7.60	0.50	"	10.0	ND	76.0	65-131	40.0	25	
1,4-Dichlorobenzene	7.25	0.50	"	10.0	ND	72.5	61-131	41.1	25	
Dichlorodifluoromethane	9.08	0.50	"	10.0	ND	90.8	63-177	26.9	25	
1,1-Dichloroethane	7.44	0.50	"	10.0	ND	74.4	64-136	42.9	25	
1,2-Dichloroethane	7.01	0.50	"	10.0	ND	70.1	62-126	41.7	25	
1,1-Dichloroethene	9.23	0.50	"	10.0	ND	92.3	45-178	32.4	25	
cis-1,2-Dichloroethene	7.82	0.50	"	10.0	ND	78.2	66-141	42.2	25	
trans-1,2-Dichloroethene	7.92	0.50	"	10.0	ND	79.2	59-151	41.0	25	
1,2-Dichloropropane	7.63	0.50	"	10.0	ND	76.3	62-128	42.9	25	
1,3-Dichloropropane	7.31	0.50	"	10.0	ND	73.1	67-126	43.7	25	
2,2-Dichloropropane	8.28	0.50	"	10.0	ND	82.8	71-135	44.4	25	

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Bruce Gove
Laboratory Director

12/3/2007



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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70202 - VOAs in Water GCMS										
Matrix Spike Dup (AL70202-MSD1)		Source: 07K1075-01			Prepared & Analyzed: 12/01/07				QM-08	
1,1-Dichloropropene	8.50	0.50	"	10.0	ND	85.0	58-148	38.9	25	
cis-1,3-Dichloropropene	6.77	0.50	"	10.0	ND	67.7	50-140	43.2	25	
trans-1,3-Dichloropropene	6.60	0.50	"	10.0	ND	66.0	55-126	48.3	25	
Ethylbenzene	8.08	0.50	"	10.0	ND	80.8	48-153	45.9	25	
Hexachlorobutadiene	9.47	0.50	"	10.0	ND	94.7	70-147	31.4	25	
Isopropylbenzene	7.19	0.50	"	10.0	ND	71.9	65-128	43.6	25	
p-Isopropyltoluene	8.15	0.50	"	10.0	ND	81.5	70-132	39.0	25	
Methyl ethyl ketone	17.2	1.0	"	20.0	ND	86.0	62-126	26.7	25	
Methyl isobutyl ketone	13.6	1.0	"	20.0	ND	68.0	66-127	44.6	25	
Methyl tert-butyl ether	7.26	0.50	"	10.0	ND	72.6	55-144	42.7	25	
Methylene chloride	7.04	0.50	"	10.0	ND	70.4	60-137	44.8	25	
Naphthalene	7.84	0.50	"	10.0	ND	78.4	64-143	45.8	25	
n-Propylbenzene	7.94	0.50	"	10.0	ND	79.4	66-138	42.3	25	
Styrene	7.69	0.50	"	10.0	ND	76.9	36-162	48.4	25	
1,1,1,2-Tetrachloroethane	7.08	0.50	"	10.0	ND	70.8	56-137	46.8	25	
1,1,2,2-Tetrachloroethane	7.12	0.50	"	10.0	ND	71.2	50-143	44.5	25	
Tetrachloroethene	7.12	0.50	"	10.0	ND	71.2	49-148	39.3	25	
Toluene	8.02	0.30	"	10.0	ND	80.2	56-147	43.7	25	
1,2,3-Trichlorobenzene	8.87	0.50	"	10.0	ND	88.7	60-143	42.8	25	
1,2,4-Trichlorobenzene	8.59	0.50	"	10.0	ND	85.9	65-134	44.5	25	
1,1,1-Trichloroethane	7.59	0.50	"	10.0	ND	75.9	62-144	44.2	25	
1,1,2-Trichloroethane	6.99	0.50	"	10.0	ND	69.9	62-129	45.4	25	
Trichloroethene	7.69	0.50	"	10.0	ND	76.9	58-140	36.3	25	
Trichlorofluoromethane	8.73	0.50	"	10.0	ND	87.3	65-143	20.3	25	
Trichlorotrifluoroethane	7.64	0.50	"	9.84	ND	77.6	72-135	32.5	25	
1,2,3-Trichloropropane	7.44	0.50	"	10.0	ND	74.4	65-120	45.3	25	
1,2,4-Trimethylbenzene	7.98	0.50	"	10.0	ND	79.8	71-138	44.9	25	

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Laboratory Director

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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag	
Batch AL70202 - VOAs in Water GCMS											
Matrix Spike Dup (AL70202-MSD1)	Source: 07K1075-01			Prepared & Analyzed: 12/01/07				QM-08			
1,3,5-Trimethylbenzene	7.76	0.50	"	10.0	ND	77.6	70-136	43.7	25		
Vinyl chloride	9.09	0.50	"	10.0	ND	90.9	55-146	37.6	25		
m,p-Xylene	15.7	0.50	"	20.0	ND	78.5	71-137	45.7	25		
o-Xylene	7.81	0.50	"	10.0	ND	78.1	70-137	42.3	25		
Xylenes (total)	23.5	0.50	"	30.0	ND	78.3	49-153	44.6	25		
Surrogate: Dibromofluoromethane	21.7		"	25.0		86.8	46-130				
Surrogate: Toluene-d8	26.9		"	25.0		108	59-132				
Surrogate: Bromofluorobenzene	29.0		"	25.0		116	81-135				

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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u> 07K1075	<u>Receipt Date/Time</u> 11/30/2007 20:30	<u>Client Code</u> SHNEUR	<u>Client PO/Reference</u>
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70302 - SVOAs in Water GCMS										
Blank (AL70302-BLK1)				Prepared: 12/01/07 Analyzed: 12/03/07						
Acenaphthene	ND	10	ug/l							
Acenaphthylene	ND	10	"							
Anthracene	ND	10	"							
Benzidine	ND	50	"							
Benzo (a) anthracene	ND	10	"							
Benzo (a) pyrene	ND	10	"							
Benzo (b) fluoranthene	ND	10	"							
Benzo (g,h,i) perylene	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
Benzoic acid	ND	50	"							
Benzyl alcohol	ND	20	"							
Bis(2-chloroethoxy)methane	ND	10	"							
Bis(2-chloroethyl)ether	ND	10	"							
Bis(2-chloroisopropyl)ether	ND	10	"							
Bis(2-ethylhexyl)phthalate	ND	10	"							
4-Bromophenyl phenyl ether	ND	10	"							
Butyl benzyl phthalate	ND	10	"							
4-Chloro-3-methylphenol	ND	10	"							
4-Chloroaniline	ND	20	"							
2-Chloronaphthalene	ND	10	"							
2-Chlorophenol	ND	10	"							
4-Chlorophenyl phenyl ether	ND	10	"							
Chrysene	ND	10	"							
Di-n-butyl phthalate	ND	10	"							
Di-n-octyl phthalate	ND	10	"							
Dibenz (a,h) anthracene	ND	10	"							
Dibenzofuran	ND	10	"							

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Bruce Gove
Laboratory Director

12/3/2007



Alpha

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CHEMICAL EXAMINATION REPORT

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SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70302 - SVOAs in Water GCMS										
Blank (AL70302-BLK1)					Prepared: 12/01/07 Analyzed: 12/03/07					
1,2-Dichlorobenzene	ND	10	"							
1,3-Dichlorobenzene	ND	10	"							
1,4-Dichlorobenzene	ND	10	"							
3,3'-Dichlorobenzidine	ND	20	"							
2,4-Dichlorophenol	ND	10	"							
Diethyl phthalate	ND	10	"							
Dimethyl phthalate	ND	10	"							
2,4-Dimethylphenol	ND	10	"							
4,6-Dinitro-2-methylphenol	ND	50	"							
2,4-Dinitrophenol	ND	50	"							
2,4-Dinitrotoluene	ND	10	"							
2,6-Dinitrotoluene	ND	10	"							
1,2-Diphenylhydrazine	ND	10	"							
Fluoranthene	ND	10	"							
Fluorene	ND	10	"							
Hexachlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	15	"							
Hexachloroethane	ND	10	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	10	"							
2-Methylnaphthalene	ND	10	"							
2-Methylphenol (o-cresol)	ND	10	"							
3 & 4-Methylphenol (m,p-cresol)	ND	10	"							
N-Nitrosodi-n-propylamine	ND	10	"							
N-Nitrosodiphenylamine	ND	10	"							
N-Nitrosodimethylamine	ND	5.0	"							

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07K1075	11/30/2007 20:30	SHNEUR	

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70302 - SVOAs in Water GCMS										
Blank (AL70302-BLK1)										
Prepared: 12/01/07 Analyzed: 12/03/07										
Naphthalene	ND	10	"							
2-Nitroaniline	ND	50	"							
3-Nitroaniline	ND	50	"							
4-Nitroaniline	ND	50	"							
Nitrobenzene	ND	10	"							
2-Nitrophenol	ND	10	"							
4-Nitrophenol	ND	50	"							
Pentachlorophenol	ND	50	"							
Phenanthrene	ND	10	"							
Phenol	ND	10	"							
Pyrene	ND	10	"							
1,2,4-Trichlorobenzene	ND	10	"							
2,4,5-Trichlorophenol	ND	10	"							
2,4,6-Trichlorophenol	ND	10	"							
Surrogate: 2-Fluorobiphenyl	35.9		"	40.0		89.8	42-115			
Surrogate: 2-Fluorophenol	19.7		"	40.0		49.2	21-87			
Surrogate: Nitrobenzene-d5	33.9		"	40.0		84.8	50-110			
Surrogate: p-Terphenyl-d14	38.9		"	40.0		97.2	61-134			
Surrogate: Phenol-d6	11.9		"	40.0		29.8	20-52			
Surrogate: 2,4,6-Tribromophenol	38.0		"	40.0		95.0	54-135			
LCS (AL70302-BS1)										
Prepared: 12/01/07 Analyzed: 12/03/07										
Acenaphthene	36.2	10	ug/l	40.0		90.5	49-106			
4-Chloro-3-methylphenol	37.4	10	"	40.0		93.5	56-116			
2-Chlorophenol	33.6	10	"	40.0		84.0	51-95			
1,4-Dichlorobenzene	31.2	10	"	40.0		78.0	40-92			

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CHEMICAL EXAMINATION REPORT

Page 38 of 40

SHN Engineering
812 W. Wabash Ave.
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Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number 07K1075 Receipt Date/Time 11/30/2007 20:30 Client Code SHNEUR Client PO/Reference

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70302 - SVOAs in Water GCMS										
LCS (AL70302-BS1)										
					Prepared: 12/01/07 Analyzed: 12/03/07					
2,4-Dinitrotoluene	41.2	10	"	40.0		103	75-115			
N-Nitrosodi-n-propylamine	37.2	10	"	40.0		93.0	58-104			
4-Nitrophenol	14.5	50	"	40.0		36.2	21-71			
Pentachlorophenol	39.2	50	"	40.0		98.0	53-145			
Phenol	12.2	10	"	40.0		30.5	21-51			
Pyrene	44.0	10	"	40.0		110	70-130			
1,2,4-Trichlorobenzene	35.0	10	"	40.0		87.5	52-91			
Surrogate: 2-Fluorobiphenyl	34.4		"	40.0		86.0	42-115			
Surrogate: 2-Fluorophenol	17.0		"	40.0		42.5	21-87			
Surrogate: Nitrobenzene-d5	32.9		"	40.0		82.2	50-110			
Surrogate: p-Terphenyl-d14	35.9		"	40.0		89.8	61-134			
Surrogate: Phenol-d6	10.3		"	40.0		25.8	20-52			
Surrogate: 2,4,6-Tribromophenol	38.1		"	40.0		95.2	54-135			
LCS Dup (AL70302-BSD1)										
					Prepared: 12/01/07 Analyzed: 12/03/07					
Acenaphthene	39.4	10	ug/l	40.0		98.5	49-106	8.47	25	
4-Chloro-3-methylphenol	41.5	10	"	40.0		104	56-116	10.4	25	
2-Chlorophenol	37.2	10	"	40.0		93.0	51-95	10.2	25	
1,4-Dichlorobenzene	33.7	10	"	40.0		84.2	40-92	7.70	25	
2,4-Dinitrotoluene	45.2	10	"	40.0		113	75-115	9.26	25	
N-Nitrosodi-n-propylamine	42.8	10	"	40.0		107	58-104	14.0	25	QL-06
4-Nitrophenol	15.5	50	"	40.0		38.8	21-71	6.67	25	
Pentachlorophenol	42.2	50	"	40.0		106	53-145	7.37	25	
Phenol	14.1	10	"	40.0		35.2	21-51	14.4	25	
Pyrene	44.9	10	"	40.0		112	70-130	2.02	25	
1,2,4-Trichlorobenzene	37.1	10	"	40.0		92.8	52-91	5.83	25	QL-06

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CHEMICAL EXAMINATION REPORT

Page 39 of 40

SHN Engineering
812 W. Wabash Ave.
Eureka, CA 95501-2138
Attn: John Aveggio

Report Date: 12/03/07 15:06
Project No: -
Project ID: Freshwater Creek

Order Number: 07K1075 Receipt Date/Time: 11/30/2007 20:30 Client Code: SHNEUR Client PO/Reference:

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AL70302 - SVOAs in Water GCMS										
LCS Dup (AL70302-BSD1)				Prepared: 12/01/07 Analyzed: 12/03/07						
Surrogate: 2-Fluorobiphenyl	37.8		"	40.0		94.5	42-115			
Surrogate: 2-Fluorophenol	20.7		"	40.0		51.8	21-87			
Surrogate: Nitrobenzene-d5	36.2		"	40.0		90.5	50-110			
Surrogate: p-Terphenyl-d14	36.1		"	40.0		90.2	61-134			
Surrogate: Phenol-d6	11.8		"	40.0		29.5	20-52			
Surrogate: 2,4,6-Tribromophenol	40.3		"	40.0		101	54-135			

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<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
07K1075	11/30/2007 20:30	SHNEUR	

Notes and Definitions

- QM-08 The RPD was outside acceptance limits for MS/MSD, possibly due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QL-06 Spike recovery for this analyte was outside of control limits. All calibration checks were acceptable and method blank was below reporting limit.
- QL-03 Although the LCS/LCSD recovery for this analyte is outside of in-house developed control limits, it is within the EPA recommended range of 70-130%.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit



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Chain of Custody Record

Reports and Invoices will be delivered by e-mail in .pdf format.

Lab No. 07K1075 Page 1 of 1

Report To:		Send Invoice To:		Project				Analysis Requested		TAT		Sample Notes	
Company: <u>Steve Wills Trucking</u>		Company (if different):		Project Name:				Analysis Requested		TAT		Sample Notes	
Attn:		Attn:		Project Address:				Lab Approval Required For Rush TATs		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Temperature: <u>4</u> deg. C	
Address:		Address:		Project #:				Shipping Method:		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No	
Phone/Fax: <u>707-766-3781</u>		P.O. #:		Container				Preservative Matrix		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No	
E-mail Address: <u>768-3784 fax</u>		E-mail Address:		4ml VOA <input checked="" type="checkbox"/> Amber <input checked="" type="checkbox"/> Poly <input checked="" type="checkbox"/> Sleeve <input type="checkbox"/>				HCL HNO3 H2SO4 None Water Soil		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No	
Samplers Signature: <u>Bruce Gove</u>		Sampler Address:		Sampled Date				Sampled Time		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No	
Print: <u>Bruce Gove</u>		Address:		Date				Time		24 hr <input checked="" type="radio"/> 48 hr <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> Other: <input type="radio"/> days		Custody Seals: <input type="radio"/> Yes <input type="radio"/> No	
Sample Identification		Date		Time		Total Number of Containers		Analysis Requested		TAT		Sample Notes	
<u>SW-1 200ft. water in from spill</u>		<u>11-30-07</u>		<u>1530</u>		<u>6</u>		<u>TPH-G, D, MO 82601, 8270</u>		<u>07K1075-01</u>		<u>ASAP RESULTS Expected MON. morning 12-3</u>	
<u>SW-2 at spill site</u>		<u>"</u>		<u>1600</u>		<u>"</u>		<u>"</u>		<u>"</u>		<u>"</u>	
<u>SW-3 downstream from spill boom</u>		<u>"</u>		<u>1630</u>		<u>"</u>		<u>"</u>		<u>"</u>		<u>"</u>	
<u>SW-4 just downstream from boom at Hawthorn Heights Bridge</u>		<u>"</u>		<u>1700</u>		<u>"</u>		<u>"</u>		<u>"</u>		<u>"</u>	
<u>all sps taken from Freshwater Creek numbers are un-preserved - VOA's are preserved by HFC</u>													
Relinquished By:		Received By:		Date		Time		California EDF Report?		Yes <input type="radio"/> No <input type="radio"/>		Sampling Company Log Code	
<u>GOPLAB Turner Gove</u>		<u>11-30-07</u>		<u>2030</u>									
Global ID:		EDF to (E-mail Address):		Drinking Water State System/Source Number:		Travel and Site Time:		Message		Misc. Supplier:		10/1/07 10 hrs 305 11/2/07	

* * * *