Appendix B

Laboratory Analytical Reports and Chain-of-Custody Forms

March 2005 Monitoring Event

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CASE NARRATIVE for B5C0314

Client:	Kennedy/Jenks Consultants
Project Manager:	Sarah Kraja
Project Name:	BNSF – Livingston, MT
Project Number:	0596021.16

1.0 DESCRIPTION OF CASE

Three water samples and one trip blank were received for analysis of the following: BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS, Volatile Petroleum Hydrocarbons by Montana VPH, Extractable Petroleum Hydrocarbons by Montana EPH, Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Dissolved Metals by EPA 200 Series Methods, Conventional Chemistry Parameters by APHA/EPA Methods, and Anions by EPA Method 300.0.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on March 11, 2005. Sample temperature at time of receipt was 1.5 ° C, which is outside the recommended criteria of 4°C ± 2°C.

3.0 PREPARATIONS AND ANALYSIS

BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS

Due to a detection for Naphthalene above the MRL in the laboratory blank in analytical batch 5C11053 and 5C12007 for the MT-VPH method, all of the laboratory samples were re-analyzed for Naphthalene by EPA method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Petroleum Hydrocarbons by Montana VPH

All criteria for acceptable QC measurements were met with the following exceptions:

Detection for Naphthalene above the MRL was reported for the laboratory blank in analytical batch 5C11053 and 5C12007. The associated laboratory samples have been qualified to reflect the contamination. All of the associated laboratory samples were re-analyzed by EPA Method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Extractable Petroleum Hydrocarbons by Montana EPH

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

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Dissolved Metals by EPA 200 Series Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Conventional Chemistry Parameters by APHA/EPA Methods

All criteria for acceptable QC measurements were met with the following exceptions:

Due to variable results (sample was analyzed three separate times) for Ammonia for laboratory sample B5C0314-01 in analytical batch 5C14069, the average of the three analytical runs was reported.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Anions by EPA Method 300.0

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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24 March 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are the results of analyses for samples received by the laboratory on 03/11/05 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L-87-1	B5C0314-01	Water	03/08/05 11:40	03/11/05 08:50
LG-5	B5C0314-02	Water	03/09/05 09:20	03/11/05 08:50
LS-10	B5C0314-03	Water	03/08/05 14:50	03/11/05 08:50
Trip Blank	B5C0314-04	Water	03/08/05 12:00	03/11/05 08:50

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*99.0 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*92.5 %*	*70-130*			"	"	"	"	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*102 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*95.0 %*	*70-130*			"	"	"	"	
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*100 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*96.0 %*	*70-130*			"	"	"	"	
Trip Blank (B5C0314-04) Water Sampled: 03/08/05 12:00 Received: 03/11/05 08:50									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*98.0 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*99.0 %*	*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Volatile Petroleum Hydrocarbons by Montana VPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C11053	03/11/05	03/11/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.93**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*101 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*94.0 %*	*60-140*			"	"	"	"	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C11053	03/11/05	03/11/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.77**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*97.8 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*94.8 %*	*60-140*			"	"	"	"	

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Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Volatile Petroleum Hydrocarbons by Montana VPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C11053	03/11/05	03/11/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.81**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*100 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.3 %*	*60-140*			"	"	"	"	
Trip Blank (B5C0314-04) Water Sampled: 03/08/05 12:00 Received: 03/11/05 08:50									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**3.17**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*102 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.3 %*	*60-140*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Extractable Petroleum Hydrocarbons by Montana EPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
C9-C18 Aliphatics	ND	250	ug/l	1	5C11051	03/11/05	03/22/05	MDEP-EPH-98	
C19-C36 Aliphatics	ND	250	"	"	"	"	"	"	
C11-C22 Aromatics	ND	250	"	"	"	"	03/22/05	"	
TEH (Total Ext. Petroleum Hydrocarbons)	ND	750	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	*84.8 %*	*50-150*			"	"	*03/22/05*	"	
Surrogate: o-Terphenyl	*81.7 %*	*50-150*			"	"	*03/22/05*	"	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
TEH (Total Ext. Petroleum Hydrocarbons)	**325**	300	ug/l	1	5C11051	03/11/05	03/15/05	"	
Surrogate: 1-Chlorooctadecane	*95.9 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*84.3 %*	*50-150*			"	"	"	"	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C11051	03/11/05	03/15/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*95.6 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*82.6 %*	*50-150*			"	"	"	"	
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C11051	03/11/05	03/15/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*96.9 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*89.4 %*	*50-150*			"	"	"	"	

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32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Dissolved Metals by EPA 200 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
Ammonia-Nitrogen	**0.270**	0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	X
Nitrate/Nitrite-Nitrogen	**0.388**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.624**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.473**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/24/05 12:42

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-1 (B5C0314-01) Water Sampled: 03/08/05 11:40 Received: 03/11/05 08:50									
Sulfate	**23.4**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
LG-5 (B5C0314-02) Water Sampled: 03/09/05 09:20 Received: 03/11/05 08:50									
Sulfate	**28.2**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
LS-10 (B5C0314-03) Water Sampled: 03/08/05 14:50 Received: 03/11/05 08:50									
Sulfate	**24.0**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14073: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C14073-BLK1)										
Naphthalene	ND	1.00	ug/l							
Surrogate: Toluene-d8	*19.8*		"	*20.0*		*99.0*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
LCS (5C14073-BS1)										
Naphthalene	29.7	1.00	ug/l	30.0		99.0	80-120			
Surrogate: Toluene-d8	*20.1*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*18.9*		"	*20.0*		*94.5*	*70-130*			
LCS Dup (5C14073-BSD1)										
Naphthalene	31.2	1.00	ug/l	30.0		104	80-120	4.93	20	
Surrogate: Toluene-d8	*20.0*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
Matrix Spike (5C14073-MS1)					**Source: B5C0314-01**					
Naphthalene	32.3	1.00	ug/l	30.0	0.00	108	60-140			
Surrogate: Toluene-d8	*20.8*		"	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*18.0*		"	*20.0*		*90.0*	*70-130*			
Matrix Spike Dup (5C14073-MSD1)					**Source: B5C0314-01**					
Naphthalene	32.4	1.00	ug/l	30.0	0.00	108	60-140	0.309	30	
Surrogate: Toluene-d8	*20.3*		"	*20.0*		*102*	*70-130*			
Surrogate: 4-BFB	*18.3*		"	*20.0*		*91.5*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11053: Prepared 03/11/05 Using EPA 5030B (P/T)										
Blank (5C11053-BLK1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l							
C5-C8 Aliphatics	ND	20.0	"							
C9-C12 Aliphatics	ND	20.0	"							
C9-C10 Aromatics	ND	20.0	"							
C5-C8 Aliphatics/Adjusted	ND	20.0	"							
C9-C12 Aliphatics/Adjusted	ND	20.0	"							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Naphthalene	2.18	1.00	"							
Surrogate: 4-BFB (FID)	*54.2*		"	*60.0*		*90.3*	*60-140*			
Surrogate: 4-BFB (PID)	*56.9*		"	*60.0*		*94.8*	*60-140*			
LCS (5C11053-BS1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1060	40.0	ug/l	1200		88.3	60-140			
Surrogate: 4-BFB (FID)	*57.4*		"	*60.0*		*95.7*	*60-140*			
Surrogate: 4-BFB (PID)	*59.4*		"	*60.0*		*99.0*	*60-140*			
LCS Dup (5C11053-BSD1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1180	40.0	ug/l	1200		98.3	60-140	10.7	40	
Surrogate: 4-BFB (FID)	*64.1*		"	*60.0*		*107*	*60-140*			
Surrogate: 4-BFB (PID)	*59.7*		"	*60.0*		*99.5*	*60-140*			
Matrix Spike (5C11053-MS1)					**Source: B5C0314-02**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1310	40.0	ug/l	1200	ND	109	60-140			
Surrogate: 4-BFB (FID)	*65.5*		"	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*60.4*		"	*60.0*		*101*	*60-140*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/24/05 12:42

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11053: Prepared 03/11/05 Using EPA 5030B (P/T)										
Matrix Spike Dup (5C11053-MSD1)					**Source: B5C0314-02**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1210	40.0	ug/l	1200	ND	101	60-140	7.94	40	
Surrogate: 4-BFB (FID)	*63.9*		"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*59.2*		"	*60.0*		*98.7*	*60-140*			
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C12007-BLK1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l							
C5-C8 Aliphatics	ND	20.0	"							
C9-C12 Aliphatics	ND	20.0	"							
C9-C10 Aromatics	ND	20.0	"							
C5-C8 Aliphatics/Adjusted	ND	20.0	"							
C9-C12 Aliphatics/Adjusted	ND	20.0	"							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Naphthalene	1.97	1.00	"							
Surrogate: 4-BFB (FID)	*60.3*		"	*60.0*		*100*	*60-140*			
Surrogate: 4-BFB (PID)	*57.0*		"	*60.0*		*95.0*	*60-140*			
LCS (5C12007-BS1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1200	40.0	ug/l	1200		100	60-140			
Surrogate: 4-BFB (FID)	*63.8*		"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*60.1*		"	*60.0*		*100*	*60-140*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/24/05 12:42

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
LCS Dup (5C12007-BSD1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1240	40.0	ug/l	1200		103	60-140	3.28	40	
Surrogate: 4-BFB (FID)	*63.2*		"	*60.0*		*105*	*60-140*			
Surrogate: 4-BFB (PID)	*59.3*		"	*60.0*		*98.8*	*60-140*			
Matrix Spike (5C12007-MS1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1270	40.0	ug/l	1200	ND	106	60-140			
Surrogate: 4-BFB (FID)	*61.7*		"	*60.0*		*103*	*60-140*			
Surrogate: 4-BFB (PID)	*60.8*		"	*60.0*		*101*	*60-140*			
Matrix Spike Dup (5C12007-MSD1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1260	40.0	ug/l	1200	ND	105	60-140	0.791	40	
Surrogate: 4-BFB (FID)	*65.3*		"	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*62.0*		"	*60.0*		*103*	*60-140*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/24/05 12:42

Extractable Petroleum Hydrocarbons by Montana EPH - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C										
Blank (5C11051-BLK2)										
C9-C18 Aliphatics	ND	250	ug/l							
C19-C36 Aliphatics	ND	250	"							
C11-C22 Aromatics	ND	250	"							
TEH (Total Ext. Petroleum Hydrocarbons)	ND	750	"							
Surrogate: 1-Chlorooctadecane	*354*		"	*400*		*88.5*	*50-150*			
Surrogate: o-Terphenyl	*382*		"	*400*		*95.5*	*50-150*			
LCS (5C11051-BS3)										
C9-C18 Aliphatics	185	250	ug/l	250		74.0	50-150			
C19-C36 Aliphatics	296	250	"	450		65.8	50-150			
C11-C22 Aromatics	781	250	"	850		91.9	50-150			
TEH (Total Ext. Petroleum Hydrocarbons)	1260	750	"	1550		81.3	50-150			
Surrogate: 1-Chlorooctadecane	*364*		"	*400*		*91.0*	*50-150*			
Surrogate: o-Terphenyl	*392*		"	*400*		*98.0*	*50-150*			
LCS Dup (5C11051-BSD3)										
C9-C18 Aliphatics	181	250	ug/l	250		72.4	50-150	2.19	20	
C19-C36 Aliphatics	290	250	"	450		64.4	50-150	2.05	20	
C11-C22 Aromatics	788	250	"	850		92.7	50-150	0.892	20	
TEH (Total Ext. Petroleum Hydrocarbons)	1260	750	"	1550		81.3	50-150	0.00	20	
Surrogate: 1-Chlorooctadecane	*362*		"	*400*		*90.5*	*50-150*			
Surrogate: o-Terphenyl	*382*		"	*400*		*95.5*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C										
Blank (5C11051-BLK1)										
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l							
Surrogate: 1-Chlorooctadecane	*386*		"	*400*		*96.5*	*50-150*			
Surrogate: o-Terphenyl	*362*		"	*400*		*90.5*	*50-150*			
LCS (5C11051-BS1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1470	300	ug/l	1550		94.8	50-150			
Surrogate: 1-Chlorooctadecane	*439*		"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*353*		"	*400*		*88.2*	*50-150*			
LCS Dup (5C11051-BSD1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1250	300	ug/l	1550		80.6	50-150	16.2	40	
Surrogate: 1-Chlorooctadecane	*459*		"	*400*		*115*	*50-150*			
Surrogate: o-Terphenyl	*375*		"	*400*		*93.8*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Dissolved Metals by EPA 200 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C03046: Prepared 03/03/05 Using EPA 200 Series										
Blank (5C03046-BLK1)										
Iron	ND	0.150	mg/l							
Blank (5C03046-BLK2)										
Iron	ND	0.150	mg/l							
LCS (5C03046-BS1)										
Iron	5.35	0.150	mg/l	5.00		107	85-115			
LCS Dup (5C03046-BSD1)										
Iron	5.28	0.150	mg/l	5.00		106	85-115	1.32	20	
Duplicate (5C03046-DUP1)					**Source: B5C0071-02**					
Iron	ND	0.150	mg/l		ND			NA	20	
Matrix Spike (5C03046-MS1)					**Source: B5C0071-02**					
Iron	5.26	0.150	mg/l	5.00	ND	105	80-120			
Matrix Spike (5C03046-MS2)					**Source: B5C0314-01**					
Iron	5.31	0.150	mg/l	5.00	ND	106	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14069: Prepared 03/14/05 Using General Preparation										
Blank (5C14069-BLK1)										
Ammonia-Nitrogen	ND	0.100	mg/l as N							
LCS (5C14069-BS1)										
Ammonia-Nitrogen	4.92	0.100	mg/l as N	5.00		98.4	90-110			
LCS Dup (5C14069-BSD1)										
Ammonia-Nitrogen	4.88	0.100	mg/l as N	5.00		97.6	90-110	0.816	20	
Matrix Spike (5C14069-MS1)					**Source: B5C0314-01**					
Ammonia-Nitrogen	5.04	0.100	mg/l as N	5.00	0.270	95.4	75-125			
Batch 5C15061: Prepared 03/15/05 Using General Preparation										
Blank (5C15061-BLK1)										
Nitrate/Nitrite-Nitrogen	ND	0.0100	mg/l as N							
LCS (5C15061-BS1)										
Nitrate/Nitrite-Nitrogen	1.00	0.0100	mg/l as N	1.00		100	90-110			
LCS Dup (5C15061-BSD1)										
Nitrate/Nitrite-Nitrogen	1.02	0.0100	mg/l as N	1.00		102	90-110	1.98	20	
Matrix Spike (5C15061-MS1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.15	0.0100	mg/l as N	0.250	0.893	103	36-150			
Matrix Spike Dup (5C15061-MSD1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.14	0.0100	mg/l as N	0.250	0.893	98.8	36-150	0.873	20	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/24/05 12:42

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15057: Prepared 03/14/05 Using General Preparation										
Blank (5C15057-BLK1)										
Sulfate	ND	0.400	mg/l							
LCS (5C15057-BS1)										
Sulfate	5.81	0.400	mg/l	6.00		96.8	90-110			
LCS Dup (5C15057-BSD1)										
Sulfate	5.97	0.400	mg/l	6.00		99.5	90-110	2.72	20	
Duplicate (5C15057-DUP1)					**Source: B5C0103-01**					
Sulfate	8.10	0.400	mg/l		8.26			1.96	25	
Duplicate (5C15057-DUP2)					**Source: B5C0326-01**					
Sulfate	1.13	0.400	mg/l		1.17			3.48	25	
Matrix Spike (5C15057-MS1)					**Source: B5C0103-01**					
Sulfate	13.8	0.800	mg/l	6.00	8.26	92.3	58-135			
Matrix Spike (5C15057-MS2)					**Source: B5C0326-01**					
Sulfate	6.68	0.400	mg/l	6.00	1.17	91.8	58-135			

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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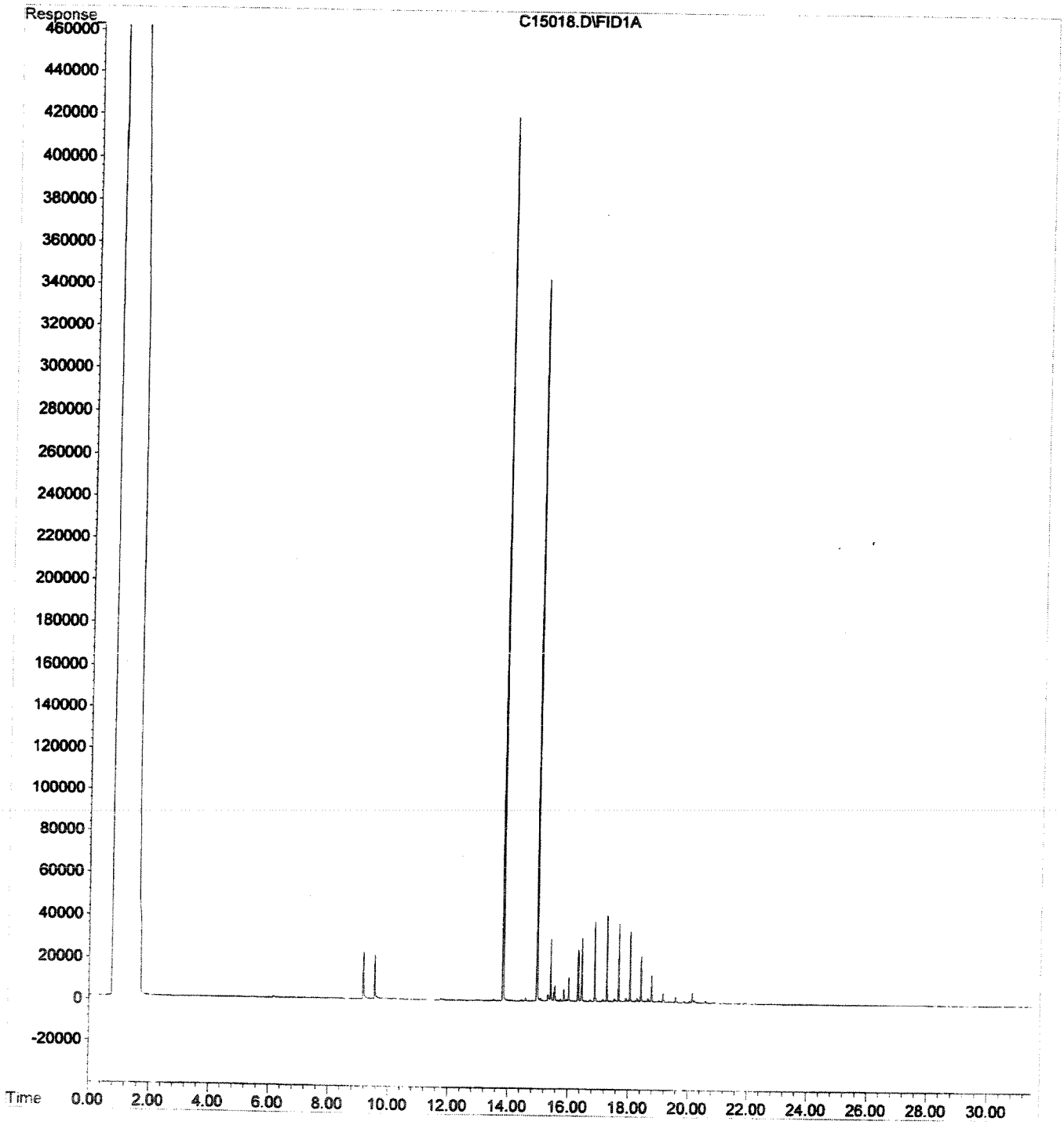
Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/24/05 12:42

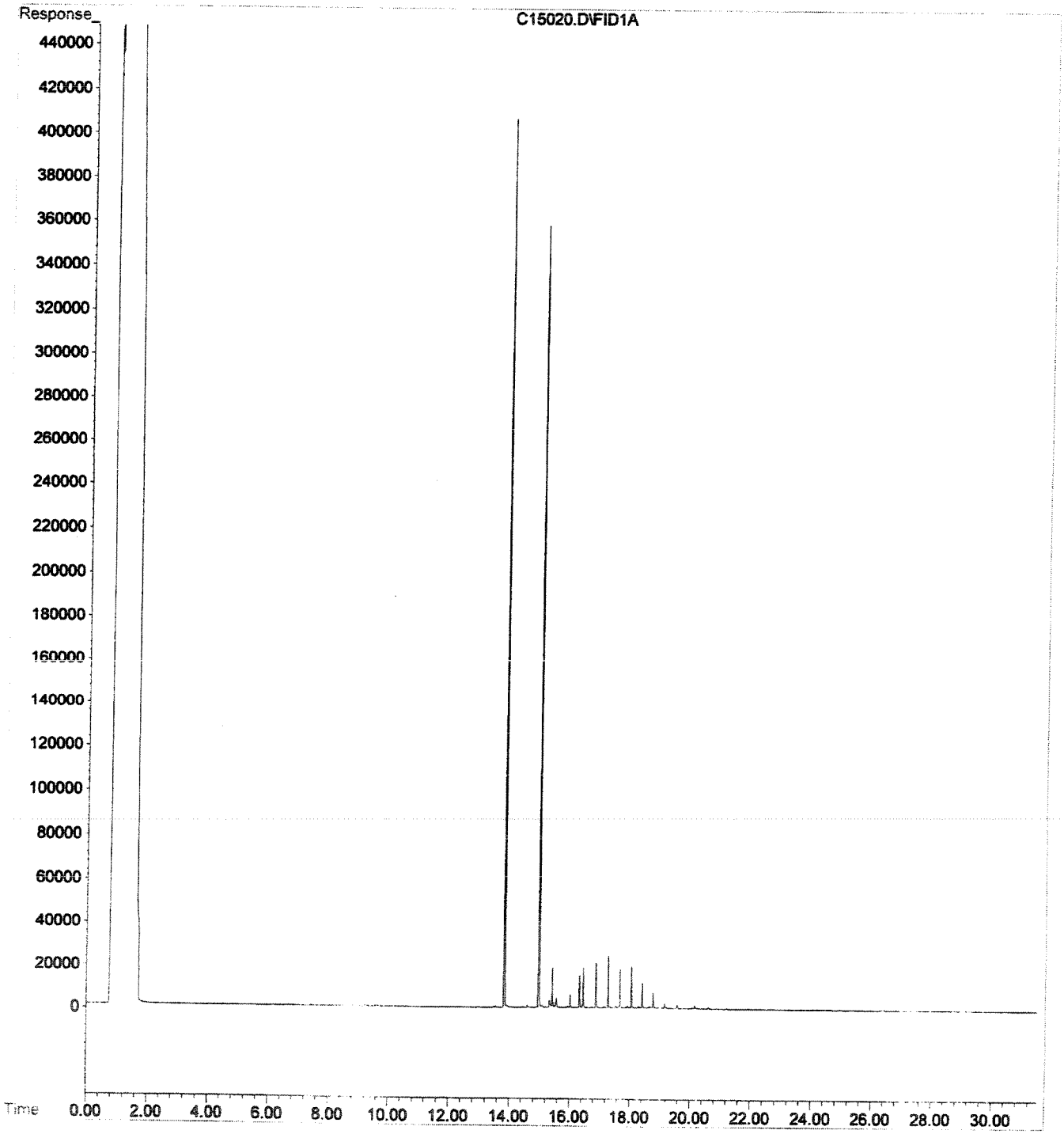
Notes and Definitions

B	Analyte detected in the method blank.
X	See case narrative.
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

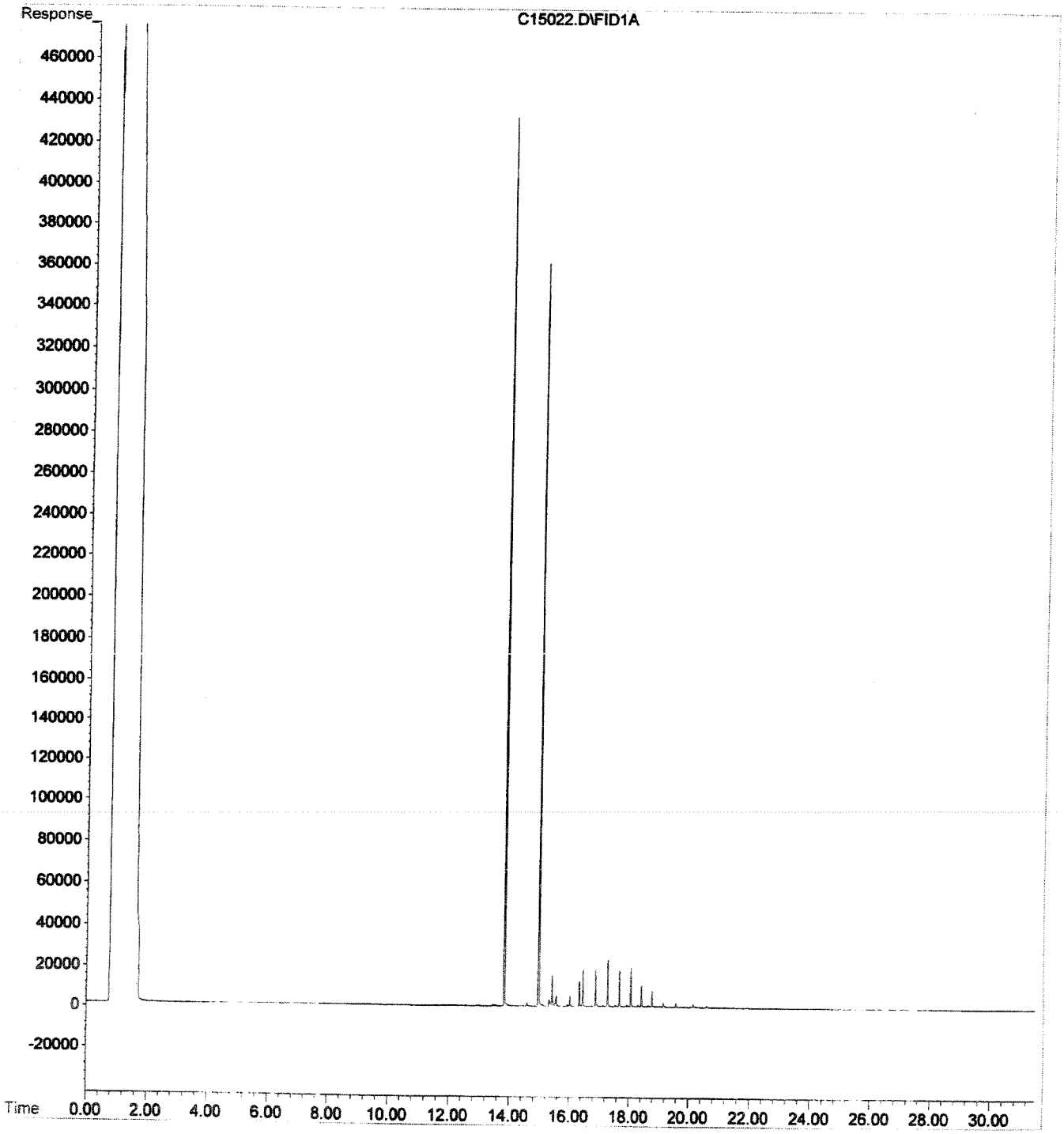
File : D:\HPCHEM\1\DATA\031505\C15018.D
Operator : tmk
Acquired : 15 Mar 2005 14:10 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0314-01
Misc Info : 1x mt-eph w
Vial Number: 9



File : D:\HPCHEM\1\DATA\031505\C15020.D
Operator : tmk
Acquired : 15 Mar 2005 14:51 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0314-02
Misc Info : 1x mt-eph w
Vial Number: 10



File : D:\HPCHEM\1\DATA\031505\C15022.D
Operator : tmk
Acquired : 15 Mar 2005 15:33 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0314-03
Misc Info : 1x mt-eph w
Vial Number: 11

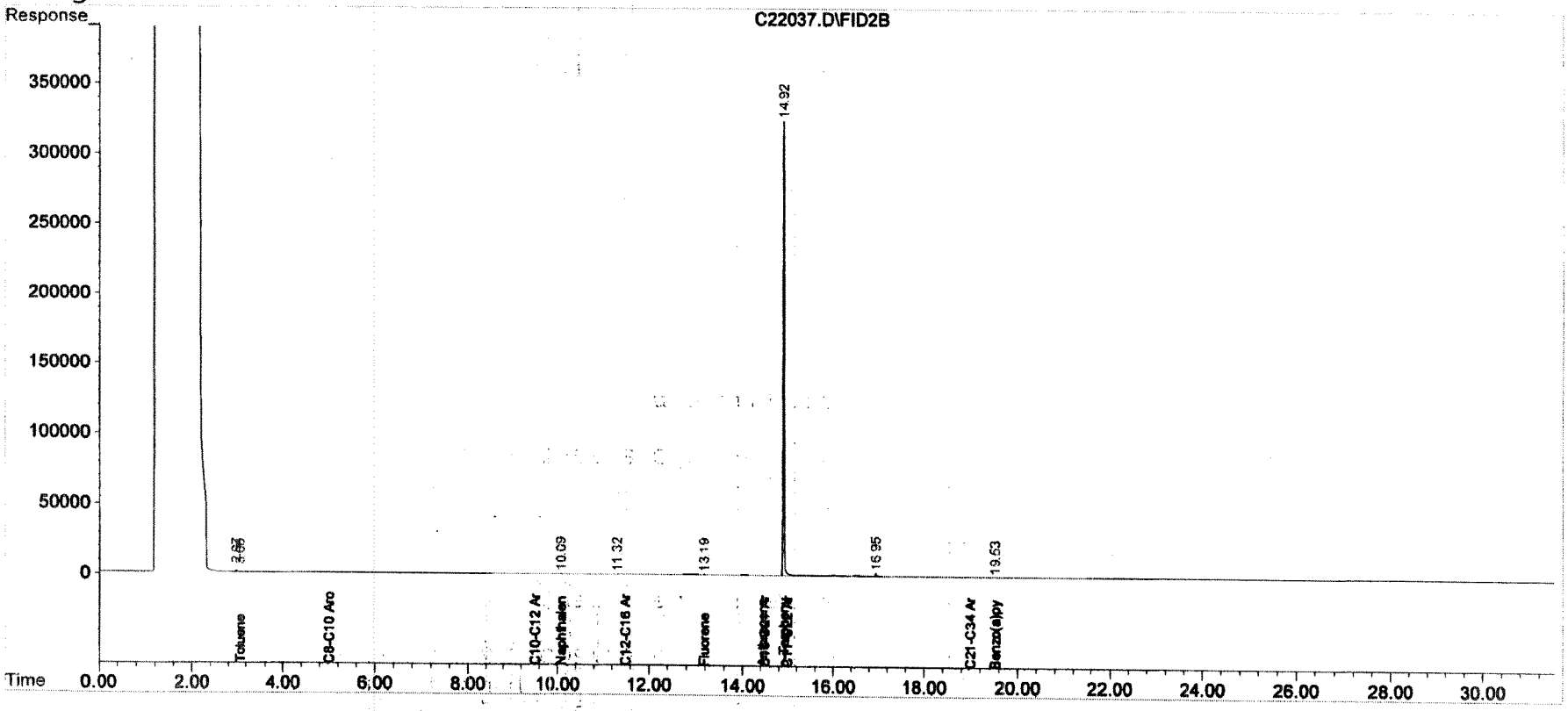


Quantitation Report

Data File : D:\HPCHEM\1\DATA\032205.SEC\C22037.D Vial: 64
Acq On : 22 Mar 2005 21:34 Operator: tmk
Sample : b5c0314-01 Inst : GC-3
Misc : 1x eph ar w r1 Multiplr: 1.00
IntFile : SURR.E
Quant Time: Mar 23 7:45 2005 Quant Results File: L0804R3R.RES

Quant Method : D:\HPCHEM\1\METHODS\L0804R3R.M (Chemstation Integrator)
Title : EPH Rear Method
Last Update : Tue Feb 15 15:15:09 2005
Response via : Multiple Level Calibration
DataAcq Meth : TFB0805.M

Volume Inj. :
Signal Phase :
Signal Info :

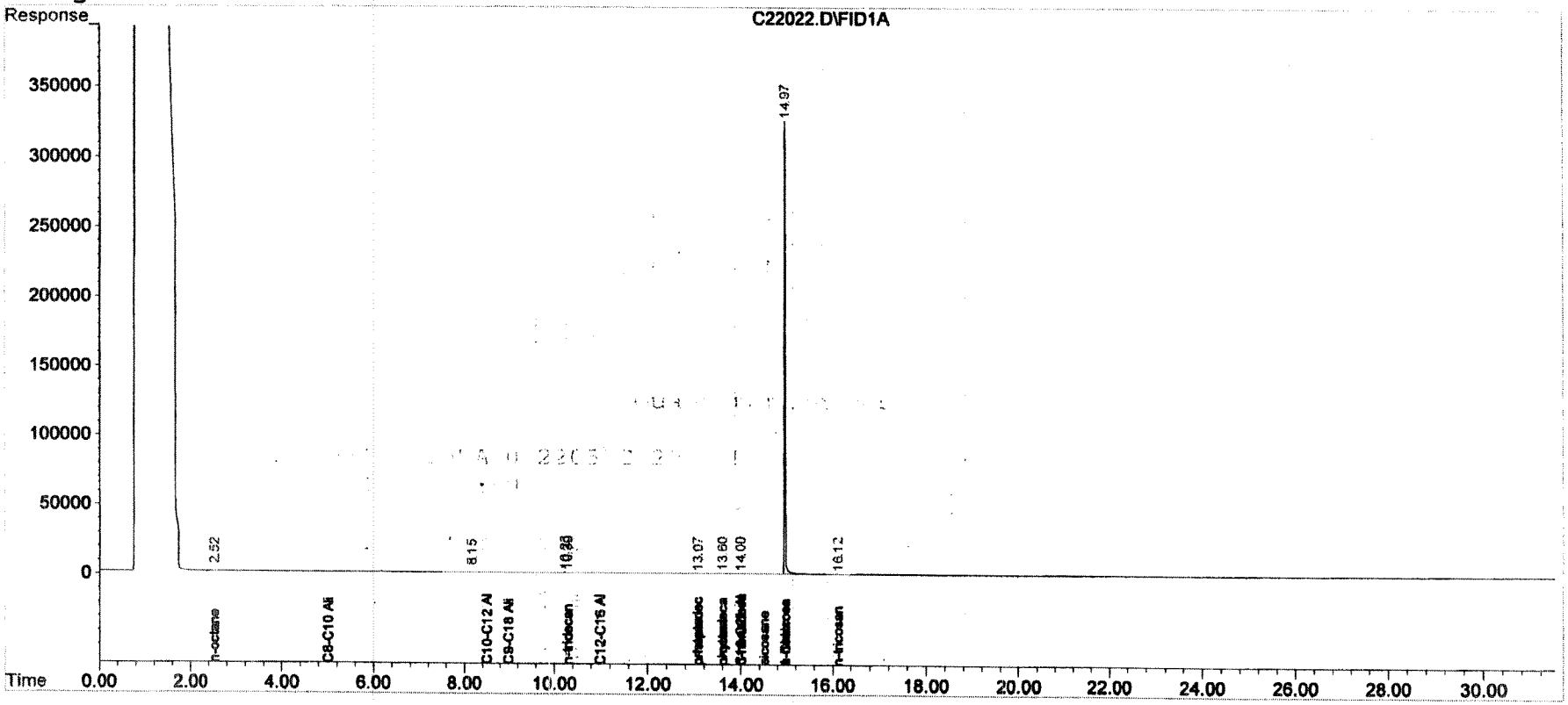


Quantitation Report

Data File : D:\HPCHEM\1\DATA\032205\C22022.D Vial: 6
Acq On : 22 Mar 2005 15:49 Operator: tmk
Sample : b5c0314-01 Inst : GC-3
Misc : 1x mt-eph s al re-frac Multiplr: 1.00
IntFile : SURR.E
Quant Time: Mar 22 16:20 2005 Quant Results File: L0804L3F.RES

Quant Method : D:\HPCHEM\1\METHODS\L0804L3F.M (Chemstation Integrator)
Title : EPH Front Method
Last Update : Tue Feb 15 15:10:45 2005
Response via : Multiple Level Calibration
DataAcq Meth : L0804L3F.M

Volume Inj. :
Signal Phase :
Signal Info :

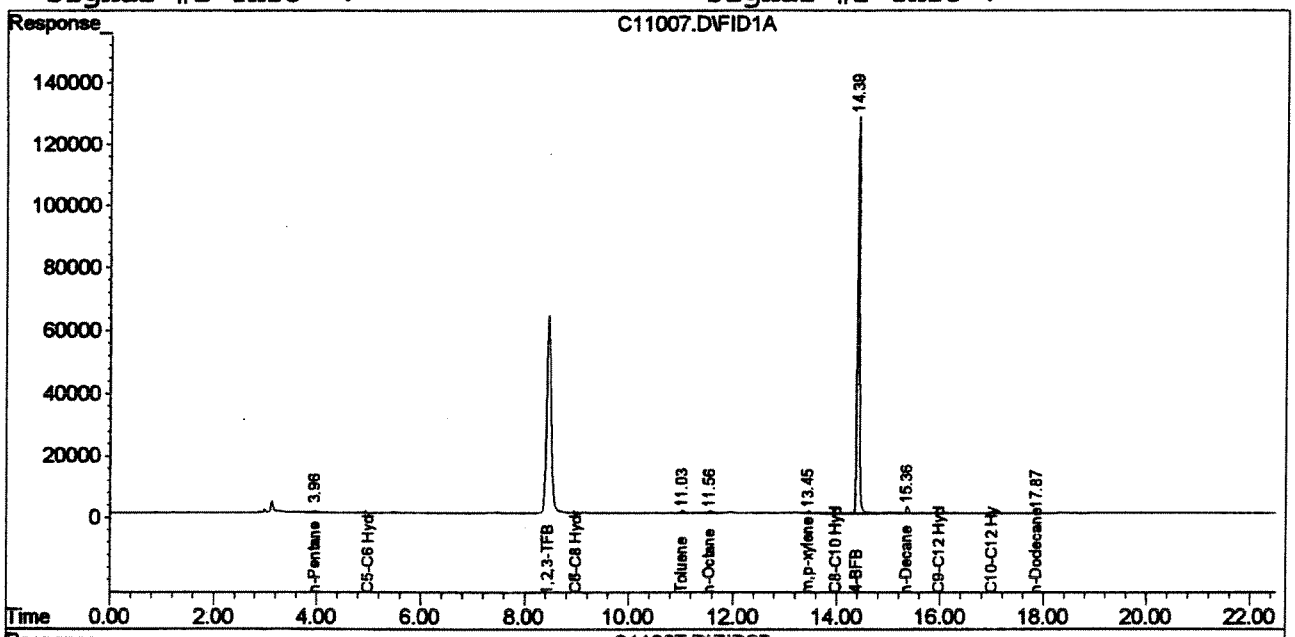


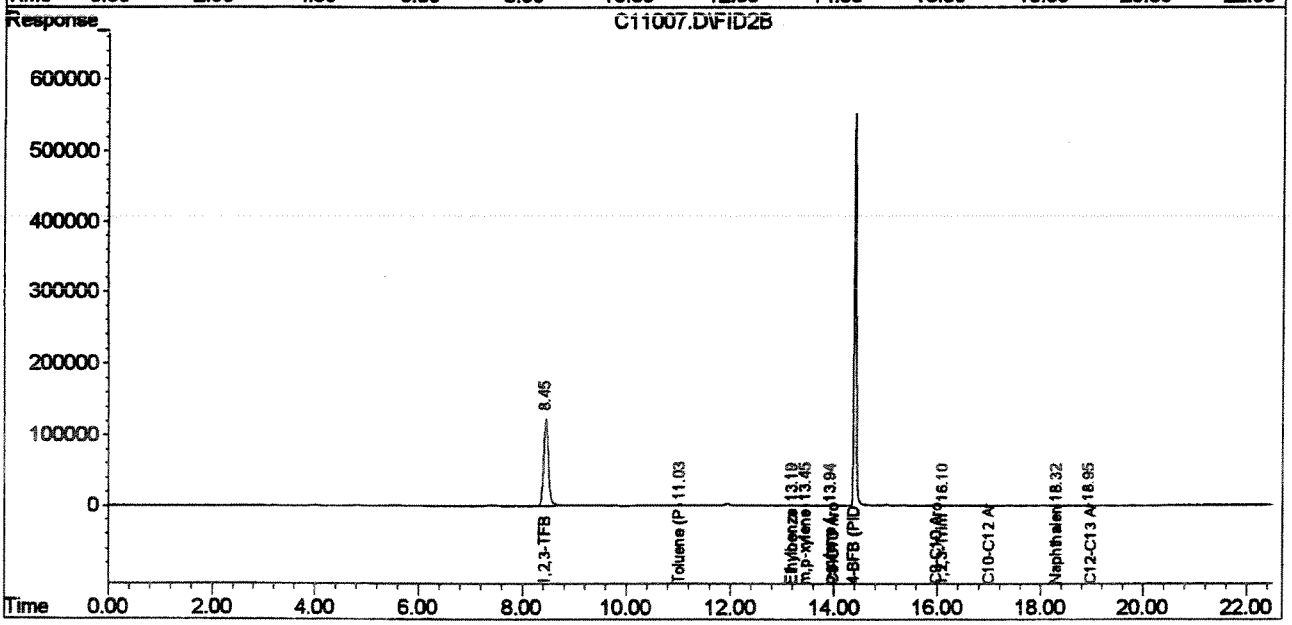
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11007.D\FID1A.CH Vial: 7
Signal #2 : D:\HPCHEM\3\DATA\031105\C11007.D\FID2B.CH
Acq On : 11 Mar 2005 13:45 Operator: mam
Sample : b5c0314-01 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 11 14:08 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 07:59:51 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



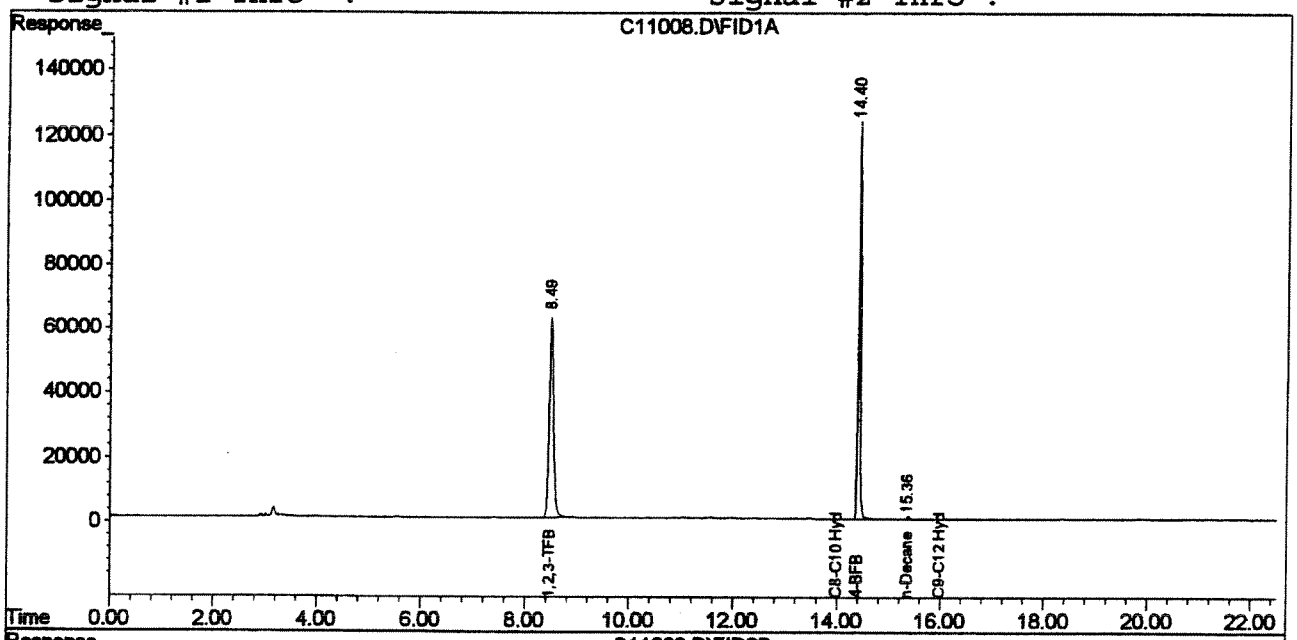


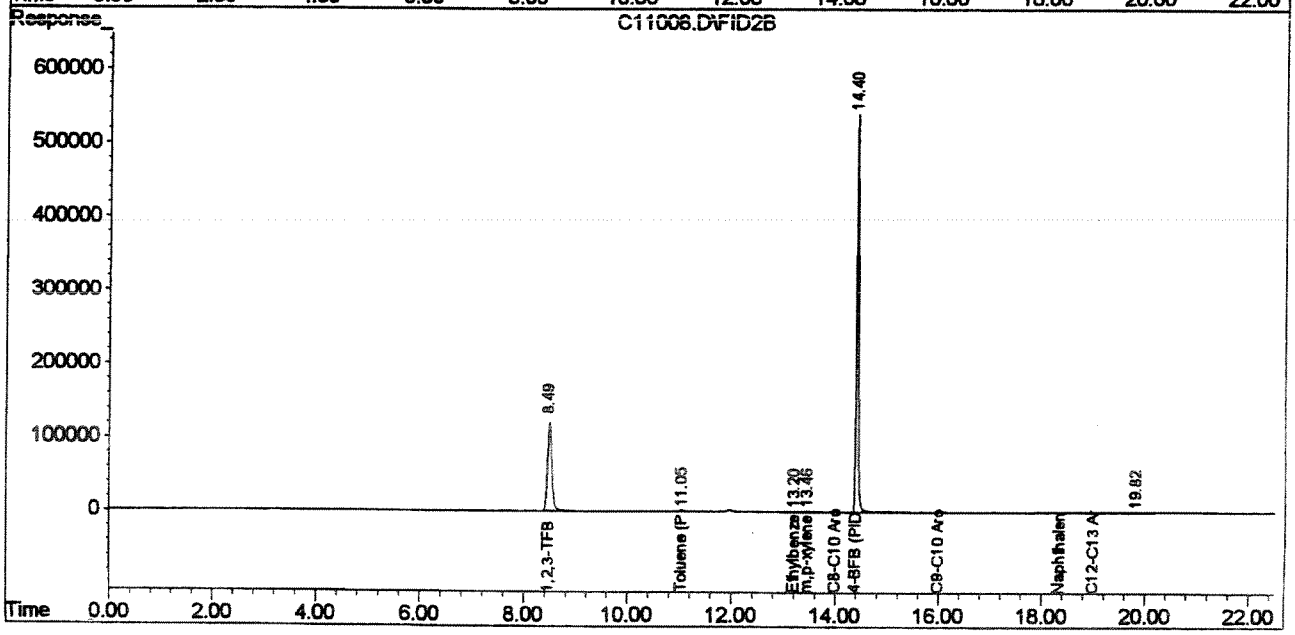
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11008.D\FID1A.CH Vial: 8
Signal #2 : D:\HPCHEM\3\DATA\031105\C11008.D\FID2B.CH
Acq On : 11 Mar 2005 14:16 Operator: mam
Sample : b5c0314-02 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 11 14:39 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 07:59:51 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



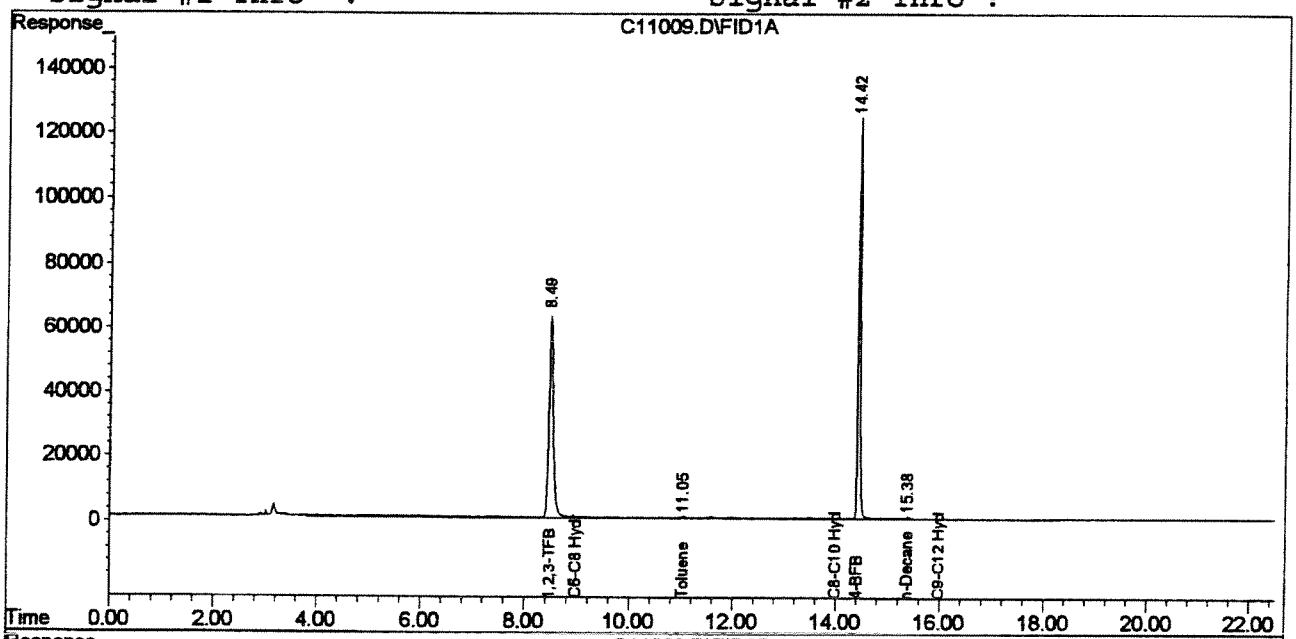


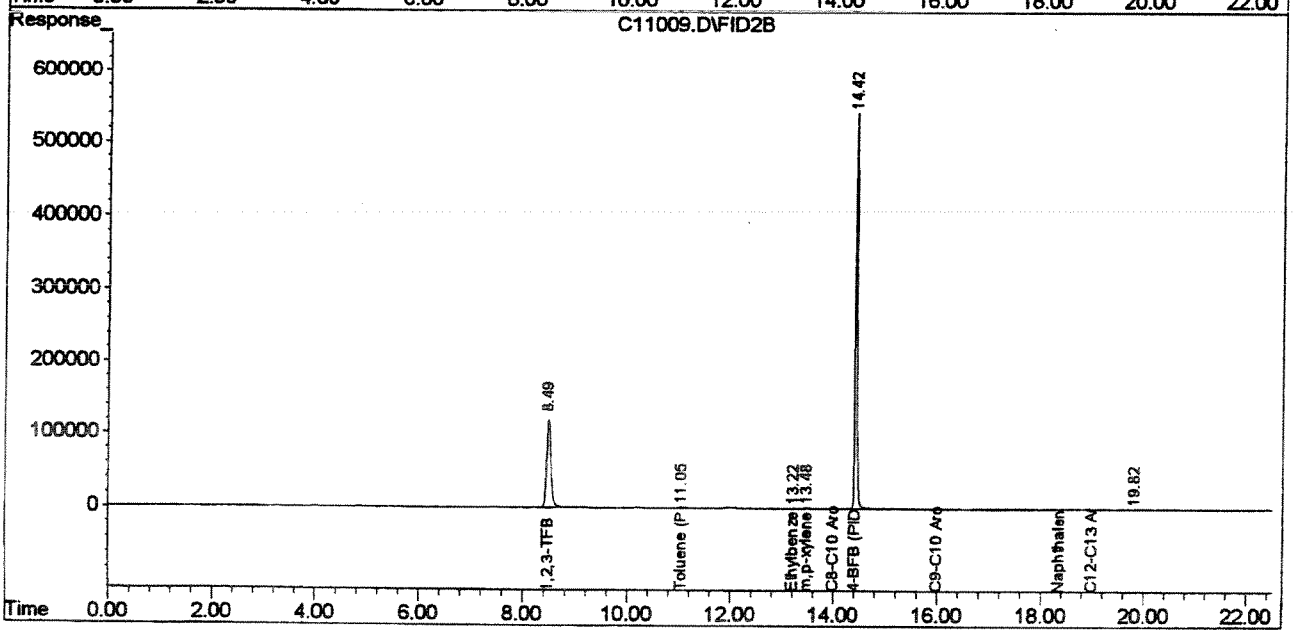
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11009.D\FID1A.CH Vial: 9
Signal #2 : D:\HPCHEM\3\DATA\031105\C11009.D\FID2B.CH
Acq On : 11 Mar 2005 14:47 Operator: mam
Sample : b5c0314-03 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:22 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 07:59:51 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



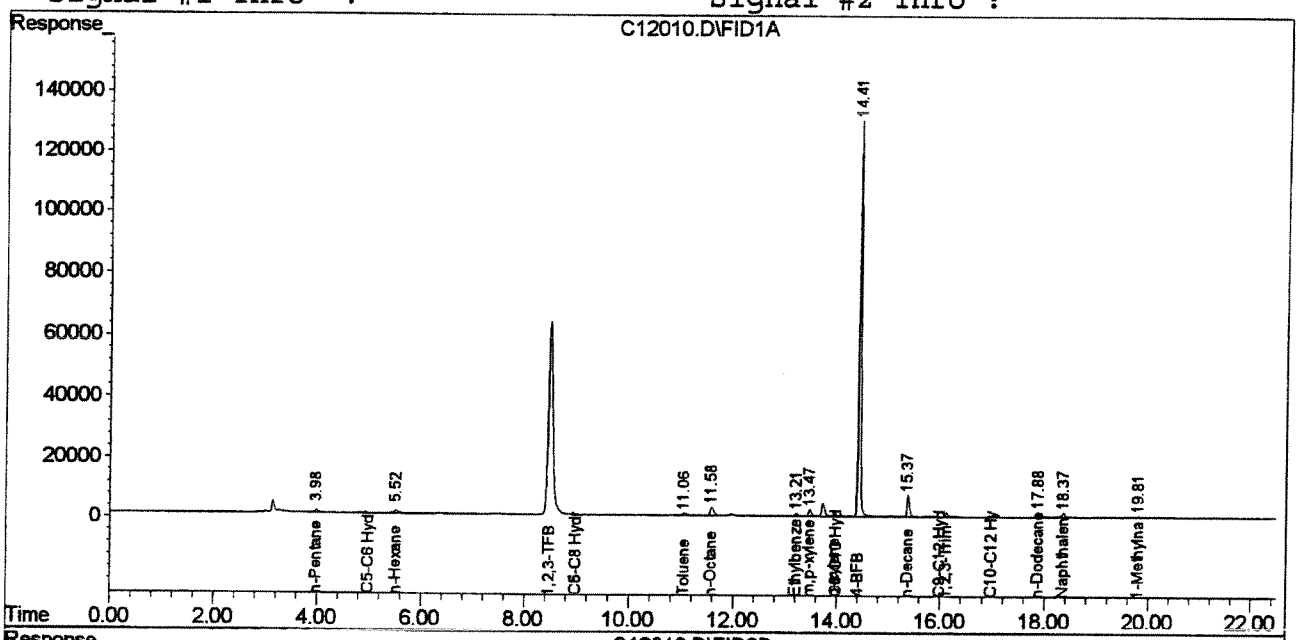


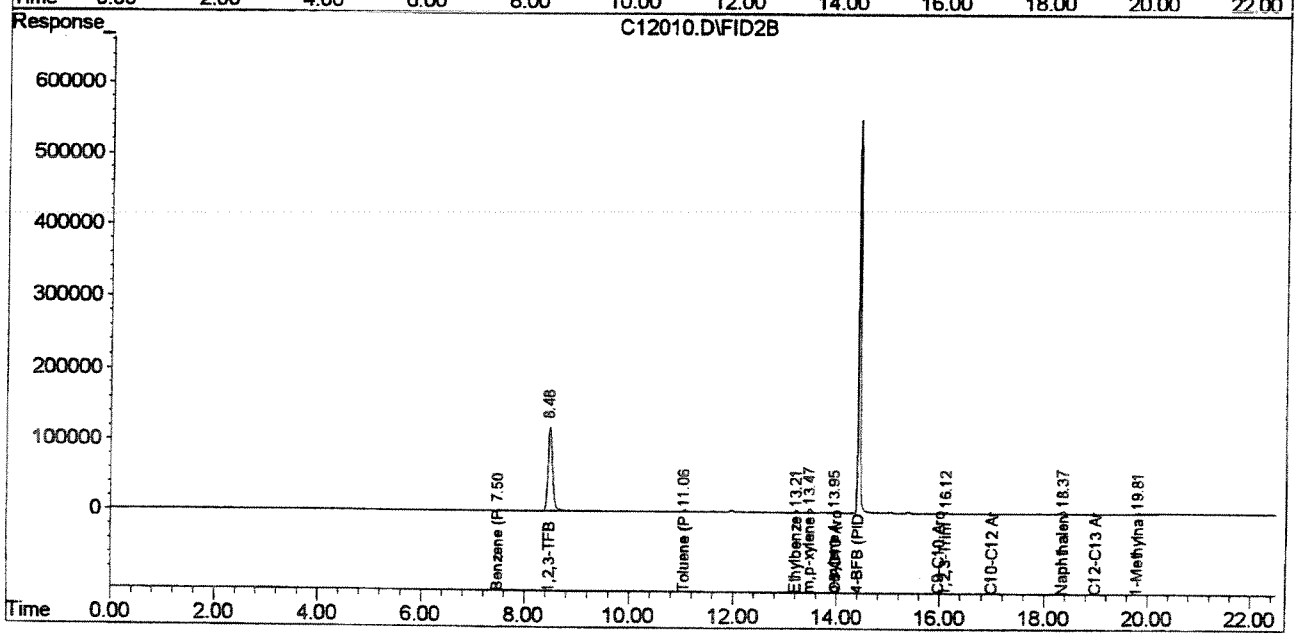
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12010.D\FID1A.CH Vial: 9
Signal #2 : D:\HPCHEM\3\DATA\031205\C12010.D\FID2B.CH
Acq On : 12 Mar 2005 16:01 Operator: sks
Sample : b5c0314-04 r1 Inst : GC #6
Misc : 1x 5 mL tb Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 12 16:24 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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CHAIN OF CUSTODY REPORT

Work Order #: B5C0314

NCA CLIENT: Kennedy Henks - BNSF

REPORT TO: Sarah Kraje

ADDRESS: 32001 32nd Ave S Suite 100 Federal Way WA

PHONE: 253 874 0555 FAX:

INVOICE TO: Dave Smith BNSF

P.O. NUMBER:

PROJECT NAME: BNSF-Livingston

PROJECT NUMBER: 0596021*16

SAMPLED BY: Sarah Kraje

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | - | HNO_3

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH-MT Screen	VPH by MADEP/MBTEX	353.2 350.3	Sulfate 300.0	Iron 200.7	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-87-1	3/8/05 1140	X	X	X	X	X	W	8	If EPHis 70-3 then	-01
2	LG-5	3/9/05 920	X	X	X	X	X	W		Fractionate	-02
3	LS-10	3/8/05 1450	X	X	X	X	X	W		↓	-03
4	Trip Blank			X							-04
5											
6											
7											
8											
9											
10											

Samples were not @2-6c upon receipt!

RELEASED BY: Sarah Kraje DATE: 3/10/05
PRINT NAME: Sarah Kraje FIRM: K/T TIME: ~~0805~~ 0850

RECEIVED BY: Tom Blankinship DATE: 3/11/05
PRINT NAME: Blankinship FIRM: NCA TIME: 0850

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 1.5°C w/cs

COC REV 09/04

PAGE OF

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CASE NARRATIVE for B5C0315 (Amended)

Client:	Kennedy/Jenks Consultants
Project Manager:	Sarah Kraja
Project Name:	BNSF – Livingston, MT
Project Number:	0596021.16

RECEIVED
MAY 04 2005
K/J Federal Way

1.0 DESCRIPTION OF CASE

Three water samples and one trip blank were received for analysis of the following: BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS, Volatile Petroleum Hydrocarbons by Montana VPH, Extractable Petroleum Hydrocarbons by Montana EPH, Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Dissolved Metals by EPA 200 Series Methods, Polynuclear Aromatic Compounds by GC/MS with High Volume Injection, Conventional Chemistry Parameters by APHA/EPA Methods, and Anions by EPA Method 300.0.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on March 11, 2005. Sample temperature at time of receipt was 4.0 ° C. As per clients request, the analysis for PAHs by GC/MS with High Volume Injection was added on April 27, 2005.

3.0 PREPARATIONS AND ANALYSIS

BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS

Due to a detection for Naphthalene above the MRL in the laboratory blank in analytical batch 5C11053 and 5C12007 for the MT-VPH method, all of the laboratory samples were re-analyzed for Naphthalene by EPA method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Petroleum Hydrocarbons by Montana VPH

All criteria for acceptable QC measurements were met with the following exceptions:

Detection for Naphthalene above the MRL was reported for the laboratory blank in analytical batch 5C11053 and 5C12007. The associated laboratory samples have been qualified to reflect the contamination. All of the associated laboratory samples were re-analyzed by EPA Method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Extractable Petroleum Hydrocarbons by Montana EPH

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

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907.563.9200 fax 907.563.9210

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Dissolved Metals by EPA 200 Series Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection

All criteria for acceptable QC measurements were met with the following exceptions:

The PAH analysis for laboratory sample B5C0315-02 was added as per clients request on April 27, 2005. The sample was analyzed outside the established hold time for the method for extracts.

The laboratory blank and laboratory sample B5C0315-02 in analytical batch 5C11051 had detections above the reporting limit for the following compounds: Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, and Chrysene. Due to the laboratory blank contamination, the reporting limits were raised for these compounds to reflect the laboratory's standard SIM PAH reporting limits. After raising the reporting limits, Chrysene still had detection above the reporting limit for the laboratory blank but the laboratory sample was ND.

Conventional Chemistry Parameters by APHA/EPA Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Anions by EPA Method 300.0

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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04 May 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are **amended** results of analyses for samples received by the laboratory on 03/11/05 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LS-9	B5C0315-01	Water	03/09/05 17:30	03/11/05 08:50
LG-12	B5C0315-02	Water	03/09/05 15:05	03/11/05 08:50
LG-4	B5C0315-03	Water	03/09/05 13:50	03/11/05 08:50
Trip Blank	B5C0315-04	Water	03/09/05 12:00	03/11/05 08:50

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
Naphthalene	ND		1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*101 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*96.0 %*		*70-130*			"	"	"	"	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
Naphthalene	ND		1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*98.0 %*		*70-130*			"	"	"	"	
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
Naphthalene	ND		1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*97.5 %*		*70-130*			"	"	"	"	
Trip Blank (B5C0315-04) Water Sampled: 03/09/05 12:00 Received: 03/11/05 08:50										
Naphthalene	ND		1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*95.5 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Volatile Petroleum Hydrocarbons by Montana VPH
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C11053	03/11/05	03/11/05	MDEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.82**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*98.7 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*96.8 %*		*60-140*			"	"	"	"	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C11053	03/11/05	03/11/05	MDEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	**25.4**		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.79**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*99.5 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*98.7 %*		*60-140*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Volatile Petroleum Hydrocarbons by Montana VPH
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C11053	03/11/05	03/11/05	ADEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.76**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*95.8 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.2 %*		*60-140*			"	"	"	"	
Trip Blank (B5C0315-04) Water Sampled: 03/09/05 12:00 Received: 03/11/05 08:50										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C12007	03/12/05	03/12/05	ADEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**2.08**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*102 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.3 %*		*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Extractable Petroleum Hydrocarbons by Montana EPH
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
C9-C18 Aliphatics	ND		250	ug/l	1	5C11051	03/11/05	03/18/05	MDEP-EPH-9	
C19-C36 Aliphatics	ND		250	"	"	"	"	"	"	
C11-C22 Aromatics	ND		250	"	"	"	"	"	"	
TEH (Total Ext. Petroleum Hydrocarbons)	ND		750	"	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane	*86.2 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*87.5 %*		*50-150*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Amended Report** Issued: 05/03/05 11:22

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l	1	5C11051	03/11/05	03/15/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*95.1 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*86.0 %*		*50-150*			"	"	"	"	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
TEH (Total Ext. Petroleum Hydrocarbons)	**369**		300	ug/l	1	5C11051	03/11/05	03/15/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*93.8 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*90.4 %*		*50-150*			"	"	"	"	
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l	1	5C11051	03/11/05	03/15/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*96.1 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*87.8 %*		*50-150*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Dissolved Metals by EPA 200 Series Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
Iron	ND		0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
Iron	**0.544**		0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
Iron	ND		0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										**I-02**
Acenaphthene	**1.33**		0.100	ug/l	1	5C11051	03/11/05	04/28/05	PA 8270C-H\	
Acenaphthylene	ND		0.100	"	"	"	"	"	"	
Anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) anthracene	ND		0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND		0.100	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND		0.100	"	"	"	"	"	"	
Benzo (ghi) perylene	ND		0.100	"	"	"	"	"	"	
Chrysene	ND		0.100	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.100	"	"	"	"	"	"	
Fluoranthene	ND		0.100	"	"	"	"	"	"	
Fluorene	**0.663**		0.100	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.100	"	"	"	"	"	"	
1-Methylnaphthalene	ND		0.100	"	"	"	"	"	"	
2-Methylnaphthalene	ND		0.100	"	"	"	"	"	"	
Naphthalene	ND		0.100	"	"	"	"	"	"	
Phenanthrene	ND		0.100	"	"	"	"	"	"	
Pyrene	ND		0.100	"	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	*68.8 %*		*20-145*			"	"	"	"	
Surrogate: 1-Methylnaphthalene-d	*85.0 %*		*18-145*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
Ammonia-Nitrogen	ND		0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.519**		0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
Ammonia-Nitrogen	ND		0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	ND		0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
Ammonia-Nitrogen	ND		0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.839**		0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-9 (B5C0315-01) Water Sampled: 03/09/05 17:30 Received: 03/11/05 08:50										
Sulfate	**27.7**		2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
LG-12 (B5C0315-02) Water Sampled: 03/09/05 15:05 Received: 03/11/05 08:50										
Sulfate	**44.5**		2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
LG-4 (B5C0315-03) Water Sampled: 03/09/05 13:50 Received: 03/11/05 08:50										
Sulfate	**29.4**		2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Amended Report** Issued: 05/03/05 11:22

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14073: Prepared 03/12/05 Using EPA 5030B (P/T)											
Blank (5C14073-BLK1)											
Naphthalene	ND		1.00	ug/l							
Surrogate: Toluene-d8	*19.8*			"	*20.0*		*99.0*	*70-130*			
Surrogate: 4-BFB	*19.2*			"	*20.0*		*96.0*	*70-130*			
LCS (5C14073-BS1)											
Naphthalene	29.7		1.00	ug/l	30.0		99.0	80-120			
Surrogate: Toluene-d8	*20.1*			"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*18.9*			"	*20.0*		*94.5*	*70-130*			
LCS Dup (5C14073-BSD1)											
Naphthalene	31.2		1.00	ug/l	30.0		104	80-120	4.93	20	
Surrogate: Toluene-d8	*20.0*			"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*19.2*			"	*20.0*		*96.0*	*70-130*			
Matrix Spike (5C14073-MS1)						**Source: B5C0314-01**					
Naphthalene	32.3		1.00	ug/l	30.0	0.00	108	60-140			
Surrogate: Toluene-d8	*20.8*			"	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*18.0*			"	*20.0*		*90.0*	*70-130*			
Matrix Spike Dup (5C14073-MSD1)						**Source: B5C0314-01**					
Naphthalene	32.4		1.00	ug/l	30.0	0.00	108	60-140	0.309	30	
Surrogate: Toluene-d8	*20.3*			"	*20.0*		*102*	*70-130*			
Surrogate: 4-BFB	*18.3*			"	*20.0*		*91.5*	*70-130*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Amended Report** Issued: 05/03/05 11:22

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11053: Prepared 03/11/05 Using EPA 5030B (P/T)											
Blank (5C11053-BLK1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l							
C5-C8 Aliphatics	ND		20.0	"							
C9-C12 Aliphatics	ND		20.0	"							
C9-C10 Aromatics	ND		20.0	"							
C5-C8 Aliphatics/Adjusted	ND		20.0	"							
C9-C12 Aliphatics/Adjusted	ND		20.0	"							
Benzene	ND		0.500	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
Methyl tert-butyl ether	ND		1.00	"							
Naphthalene	2.18		1.00	"							
Surrogate: 4-BFB (FID)	*54.2*			"	*60.0*		*90.3*	*60-140*			
Surrogate: 4-BFB (PID)	*56.9*			"	*60.0*		*94.8*	*60-140*			
LCS (5C11053-BS1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1060		40.0	ug/l	1200		88.3	60-140			
Surrogate: 4-BFB (FID)	*57.4*			"	*60.0*		*95.7*	*60-140*			
Surrogate: 4-BFB (PID)	*59.4*			"	*60.0*		*99.0*	*60-140*			
LCS Dup (5C11053-BSD1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1180		40.0	ug/l	1200		98.3	60-140	10.7	40	
Surrogate: 4-BFB (FID)	*64.1*			"	*60.0*		*107*	*60-140*			
Surrogate: 4-BFB (PID)	*59.7*			"	*60.0*		*99.5*	*60-140*			
Matrix Spike (5C11053-MS1)						**Source: B5C0314-02**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1310		40.0	ug/l	1200	ND	109	60-140			
Surrogate: 4-BFB (FID)	*65.5*			"	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*60.4*			"	*60.0*		*101*	*60-140*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11053: Prepared 03/11/05 Using EPA 5030B (P/T)											
Matrix Spike Dup (5C11053-MSD1)						**Source: B5C0314-02**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1210		40.0	ug/l	1200	ND	101	60-140	7.94	40	
Surrogate: 4-BFB (FID)	*63.9*			"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*59.2*			"	*60.0*		*98.7*	*60-140*			
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)											
Blank (5C12007-BLK1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l							
C5-C8 Aliphatics	ND		20.0	"							
C9-C12 Aliphatics	ND		20.0	"							
C9-C10 Aromatics	ND		20.0	"							
C5-C8 Aliphatics/Adjusted	ND		20.0	"							
C9-C12 Aliphatics/Adjusted	ND		20.0	"							
Benzene	ND		0.500	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
Methyl tert-butyl ether	ND		1.00	"							
Naphthalene	1.97		1.00	"							B, X
Surrogate: 4-BFB (FID)	*60.3*			"	*60.0*		*100*	*60-140*			
Surrogate: 4-BFB (PID)	*57.0*			"	*60.0*		*95.0*	*60-140*			
LCS (5C12007-BS1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1200		40.0	ug/l	1200		100	60-140			
Surrogate: 4-BFB (FID)	*63.8*			"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*60.1*			"	*60.0*		*100*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)											
LCS Dup (5C12007-BSD1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1240		40.0	ug/l	1200		103	60-140	3.28	40	
Surrogate: 4-BFB (FID)	*63.2*			"	*60.0*		*105*	*60-140*			
Surrogate: 4-BFB (PID)	*59.3*			"	*60.0*		*98.8*	*60-140*			
Matrix Spike (5C12007-MS1)						**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1270		40.0	ug/l	1200	ND	106	60-140			
Surrogate: 4-BFB (FID)	*61.7*			"	*60.0*		*103*	*60-140*			
Surrogate: 4-BFB (PID)	*60.8*			"	*60.0*		*101*	*60-140*			
Matrix Spike Dup (5C12007-MSD1)						**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1260		40.0	ug/l	1200	ND	105	60-140	0.791	40	
Surrogate: 4-BFB (FID)	*65.3*			"	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*62.0*			"	*60.0*		*103*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Extractable Petroleum Hydrocarbons by Montana EPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C											
Blank (5C11051-BLK2)											
C9-C18 Aliphatics	ND		250	ug/l							
C19-C36 Aliphatics	ND		250	"							
C11-C22 Aromatics	ND		250	"							
TEH (Total Ext. Petroleum Hydrocarbons)	ND		750	"							
Surrogate: 1-Chlorooctadecane	*354*			"	*400*		*88.5*	*50-150*			
Surrogate: o-Terphenyl	*382*			"	*400*		*95.5*	*50-150*			
LCS (5C11051-BS3)											
C9-C18 Aliphatics	185		250	ug/l	250		74.0	50-150			
C19-C36 Aliphatics	296		250	"	450		65.8	50-150			
C11-C22 Aromatics	781		250	"	850		91.9	50-150			
TEH (Total Ext. Petroleum Hydrocarbons)	1260		750	"	1550		81.3	50-150			
Surrogate: 1-Chlorooctadecane	*364*			"	*400*		*91.0*	*50-150*			
Surrogate: o-Terphenyl	*392*			"	*400*		*98.0*	*50-150*			
LCS Dup (5C11051-BSD3)											
C9-C18 Aliphatics	181		250	ug/l	250		72.4	50-150	2.19	20	
C19-C36 Aliphatics	290		250	"	450		64.4	50-150	2.05	20	
C11-C22 Aromatics	788		250	"	850		92.7	50-150	0.892	20	
TEH (Total Ext. Petroleum Hydrocarbons)	1260		750	"	1550		81.3	50-150	0.00	20	
Surrogate: 1-Chlorooctadecane	*362*			"	*400*		*90.5*	*50-150*			
Surrogate: o-Terphenyl	*382*			"	*400*		*95.5*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C											
Blank (5C11051-BLK1)											
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l							
Surrogate: 1-Chlorooctadecane	*386*			"	*400*		*96.5*	*50-150*			
Surrogate: o-Terphenyl	*362*			"	*400*		*90.5*	*50-150*			
LCS (5C11051-BS1)											
TEH (Total Ext. Petroleum Hydrocarbons)	1470		300	ug/l	1550		94.8	50-150			
Surrogate: 1-Chlorooctadecane	*439*			"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*353*			"	*400*		*88.2*	*50-150*			
LCS Dup (5C11051-BSD1)											
TEH (Total Ext. Petroleum Hydrocarbons)	1250		300	ug/l	1550		80.6	50-150	16.2	40	
Surrogate: 1-Chlorooctadecane	*459*			"	*400*		*115*	*50-150*			
Surrogate: o-Terphenyl	*375*			"	*400*		*93.8*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Dissolved Metals by EPA 200 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C03046: Prepared 03/03/05 Using EPA 200 Series											
Blank (5C03046-BLK1)											
Iron	ND		0.150	mg/l							
Blank (5C03046-BLK2)											
Iron	ND		0.150	mg/l							
LCS (5C03046-BS1)											
Iron	5.35		0.150	mg/l	5.00		107	85-115			
LCS Dup (5C03046-BSD1)											
Iron	5.28		0.150	mg/l	5.00		106	85-115	1.32	20	
Duplicate (5C03046-DUP1)						**Source: B5C0071-02**					
Iron	ND		0.150	mg/l		ND			NA	20	
Matrix Spike (5C03046-MS1)						**Source: B5C0071-02**					
Iron	5.26		0.150	mg/l	5.00	ND	105	80-120			
Matrix Spike (5C03046-MS2)						**Source: B5C0314-01**					
Iron	5.31		0.150	mg/l	5.00	ND	106	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C											
Blank (5C11051-BLK1)											**I-02**
Acenaphthene	ND		0.100	ug/l							
Acenaphthylene	ND		0.100	"							
Anthracene	ND		0.100	"							
Benzo (a) anthracene	ND		0.100	"							
Benzo (a) pyrene	ND		0.100	"							
Benzo (b) fluoranthene	ND		0.100	"							
Benzo (k) fluoranthene	ND		0.100	"							
Benzo (ghi) perylene	ND		0.100	"							
Chrysene	0.107		0.100	"							B
Dibenz (a,h) anthracene	ND		0.100	"							
Fluoranthene	ND		0.100	"							
Fluorene	ND		0.100	"							
Indeno (1,2,3-cd) pyrene	ND		0.100	"							
1-Methylnaphthalene	ND		0.100	"							
2-Methylnaphthalene	ND		0.100	"							
Naphthalene	ND		0.100	"							
Phenanthrene	ND		0.100	"							
Pyrene	ND		0.100	"							
Pentachlorophenol	ND		0.100	"							
Surrogate: Benzo (a) pyrene-d12	*0.929*			*"*	*1.00*		*92.9*	*20-145*			
Surrogate: 1-Methylnaphthalene-d10	*0.705*			*"*	*1.00*		*70.5*	*18-145*			
LCS (5C11051-BS2)											**I-02**
Acenaphthene	14.1		1.00	ug/l	20.0		70.5	53-124			
Acenaphthylene	15.0		1.00	"	20.0		75.0	54-134			
Anthracene	16.1		1.00	"	20.0		80.5	57-133			
Benzo (a) anthracene	18.5		1.00	"	20.0		92.5	57-131			
Benzo (a) pyrene	16.4		1.00	"	20.0		82.0	50-140			
Benzo (b) fluoranthene	18.6		1.00	"	20.0		93.0	43-149			
Benzo (k) fluoranthene	16.2		1.00	"	20.0		81.0	41-150			
Benzo (ghi) perylene	15.9		1.00	"	20.0		79.5	40-140			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C											
LCS (5C11051-BS2)											**I-02**
Chrysene	19.4		1.00	ug/l	20.0		97.0	49-136			
Dibenz (a,h) anthracene	14.3		1.00	"	20.0		71.5	40-130			
Fluoranthene	19.7		1.00	"	20.0		98.5	57-147			
Fluorene	15.6		1.00	"	20.0		78.0	40-148			
Indeno (1,2,3-cd) pyrene	14.9		1.00	"	20.0		74.5	41-137			
1-Methylnaphthalene	13.6		1.00	"	20.0		68.0	43-132			
2-Methylnaphthalene	17.7		1.00	"	20.0		88.5	40-147			
Naphthalene	12.2		1.00	"	20.0		61.0	53-121			
Phenanthrene	16.5		1.00	"	20.0		82.5	44-146			
Pyrene	19.7		1.00	"	20.0		98.5	57-147			
Pentachlorophenol	9.76		1.00	"	20.0		48.8	20-128			
Surrogate: Benzo (a) pyrene-d12	*0.990*			*"*	*1.00*		*99.0*	*20-145*			
Surrogate: 1-Methylnaphthalene-d10	*0.699*			*"*	*1.00*		*69.9*	*18-145*			
LCS Dup (5C11051-BSD2)											**I-02**
Acenaphthene	14.3		1.00	ug/l	20.0		71.5	53-124	1.41	40	
Acenaphthylene	16.7		1.00	"	20.0		83.5	54-134	10.7	40	
Anthracene	17.1		1.00	"	20.0		85.5	57-133	6.02	40	
Benzo (a) anthracene	18.2		1.00	"	20.0		91.0	57-131	1.63	40	
Benzo (a) pyrene	16.7		1.00	"	20.0		83.5	50-140	1.81	40	
Benzo (b) fluoranthene	18.8		1.00	"	20.0		94.0	43-149	1.07	40	
Benzo (k) fluoranthene	16.8		1.00	"	20.0		84.0	41-150	3.64	40	
Benzo (ghi) perylene	16.7		1.00	"	20.0		83.5	40-140	4.91	40	
Chrysene	19.4		1.00	"	20.0		97.0	49-136	0.00	40	
Dibenz (a,h) anthracene	14.9		1.00	"	20.0		74.5	40-130	4.11	40	
Fluoranthene	19.6		1.00	"	20.0		98.0	57-147	0.509	40	
Fluorene	17.0		1.00	"	20.0		85.0	40-148	8.59	40	
Indeno (1,2,3-cd) pyrene	15.8		1.00	"	20.0		79.0	41-137	5.86	40	
1-Methylnaphthalene	9.74		1.00	"	20.0		48.7	43-132	33.1	40	
2-Methylnaphthalene	15.0		1.00	"	20.0		75.0	40-147	16.5	40	
Naphthalene	12.2		1.00	"	20.0		61.0	53-121	0.00	40	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Polynuclear Aromatic Compounds by GC/MS with High Volume Injection - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C11051: Prepared 03/11/05 Using EPA 3520C											
LCS Dup (5C11051-BSD2)											**I-02**
Phenanthrene	17.3		1.00	ug/l	20.0		86.5	44-146	4.73	40	
Pyrene	20.2		1.00	"	20.0		101	57-147	2.51	40	
Pentachlorophenol	8.78		1.00	"	20.0		43.9	20-128	10.6	50	
Surrogate: Benzo (a) pyrene-d12	*1.06*			"	*1.00*		*106*	*20-145*			
Surrogate: 1-Methylnaphthalene-d10	*0.584*			"	*1.00*		*58.4*	*18-145*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14069: Prepared 03/14/05 Using General Preparation											
Blank (5C14069-BLK1)											
Ammonia-Nitrogen	ND		0.100	mg/l as N							
LCS (5C14069-BS1)											
Ammonia-Nitrogen	4.92		0.100	mg/l as N	5.00		98.4	90-110			
LCS Dup (5C14069-BSD1)											
Ammonia-Nitrogen	4.88		0.100	mg/l as N	5.00		97.6	90-110	0.816	20	
Matrix Spike (5C14069-MS1)						**Source: B5C0314-01**					
Ammonia-Nitrogen	5.04		0.100	mg/l as N	5.00	0.270	95.4	75-125			
Batch 5C15061: Prepared 03/15/05 Using General Preparation											
Blank (5C15061-BLK1)											
Nitrate/Nitrite-Nitrogen	ND		0.0100	mg/l as N							
LCS (5C15061-BS1)											
Nitrate/Nitrite-Nitrogen	1.00		0.0100	mg/l as N	1.00		100	90-110			
LCS Dup (5C15061-BSD1)											
Nitrate/Nitrite-Nitrogen	1.02		0.0100	mg/l as N	1.00		102	90-110	1.98	20	
Matrix Spike (5C15061-MS1)						**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.15		0.0100	mg/l as N	0.250	0.893	103	36-150			
Matrix Spike Dup (5C15061-MSD1)						**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.14		0.0100	mg/l as N	0.250	0.893	98.8	36-150	0.873	20	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15057: Prepared 03/14/05 Using General Preparation											
Blank (5C15057-BLK1)											
Sulfate	ND		0.400	mg/l							
LCS (5C15057-BS1)											
Sulfate	5.81		0.400	mg/l	6.00		96.8	90-110			
LCS Dup (5C15057-BSD1)											
Sulfate	5.97		0.400	mg/l	6.00		99.5	90-110	2.72	20	
Duplicate (5C15057-DUP1)						**Source: B5C0103-01**					
Sulfate	8.10		0.400	mg/l		8.26			1.96	25	
Duplicate (5C15057-DUP2)						**Source: B5C0326-01**					
Sulfate	1.13		0.400	mg/l		1.17			3.48	25	
Matrix Spike (5C15057-MS1)						**Source: B5C0103-01**					
Sulfate	13.8		0.800	mg/l	6.00	8.26	92.3	58-135			
Matrix Spike (5C15057-MS2)						**Source: B5C0326-01**					
Sulfate	6.68		0.400	mg/l	6.00	1.17	91.8	58-135			

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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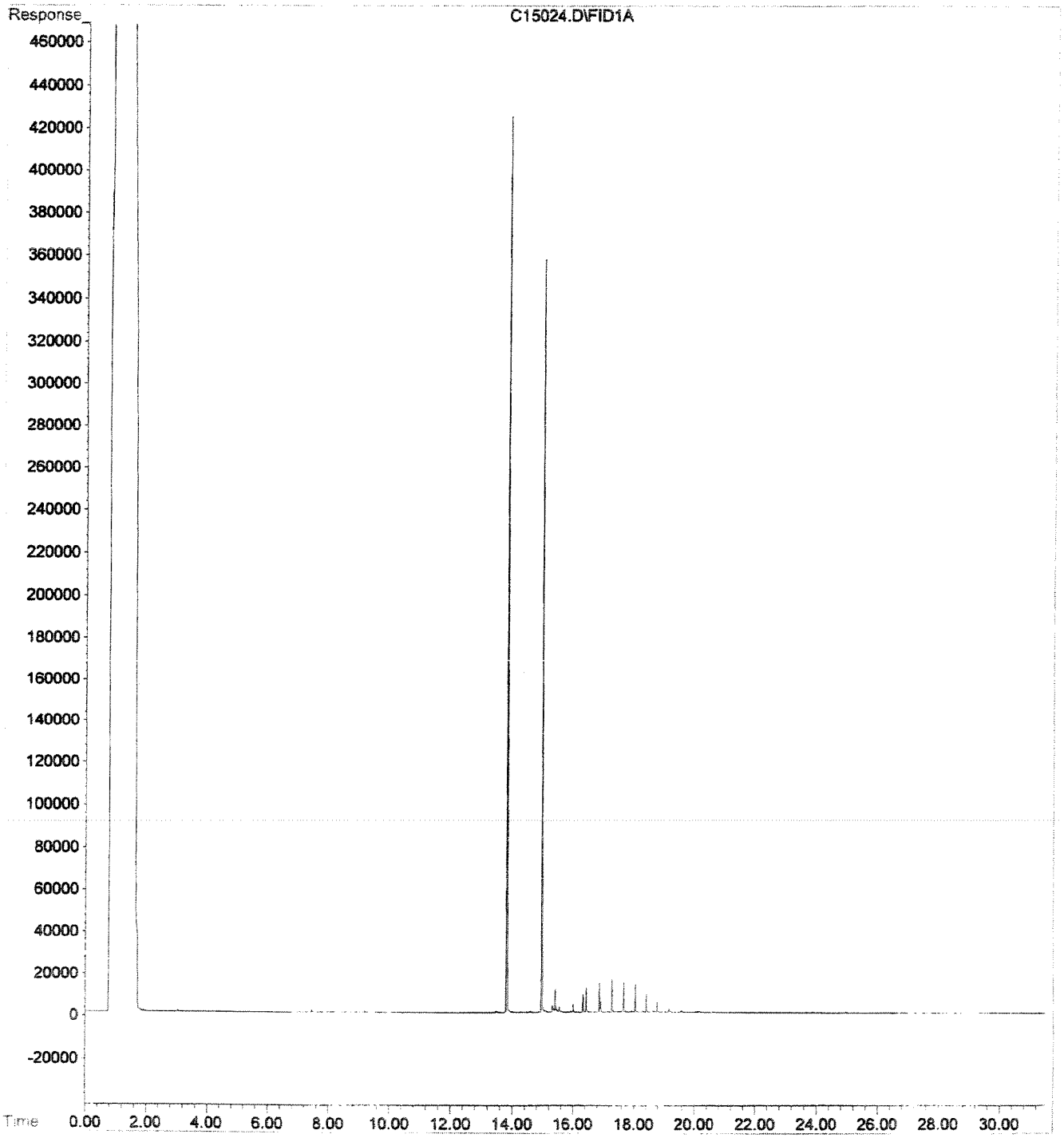
Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 05/03/05 11:22

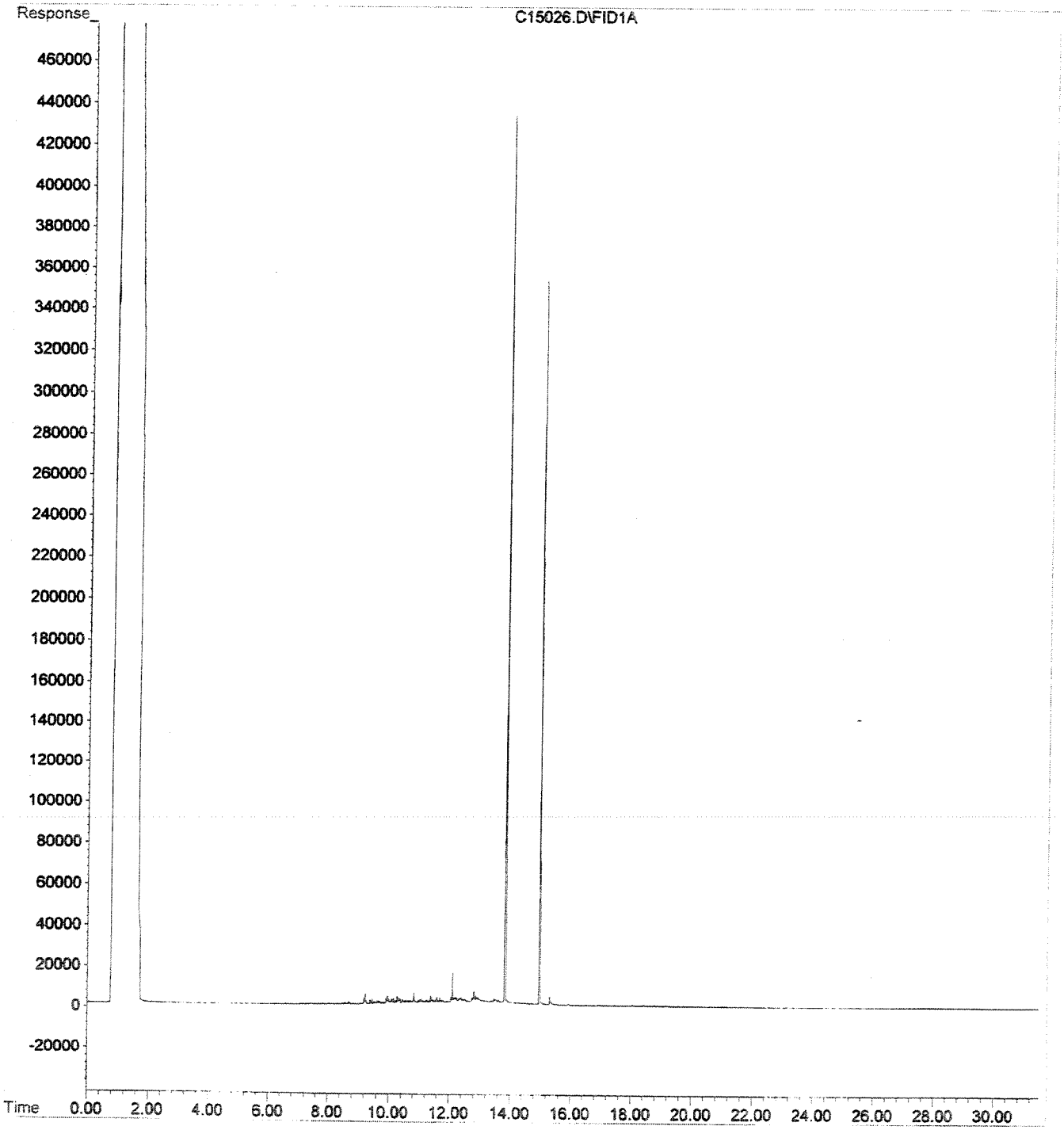
Notes and Definitions

B	Analyte detected in the method blank.
I-02	This sample was analyzed outside of the recommended holding time.
X	See case narrative.
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

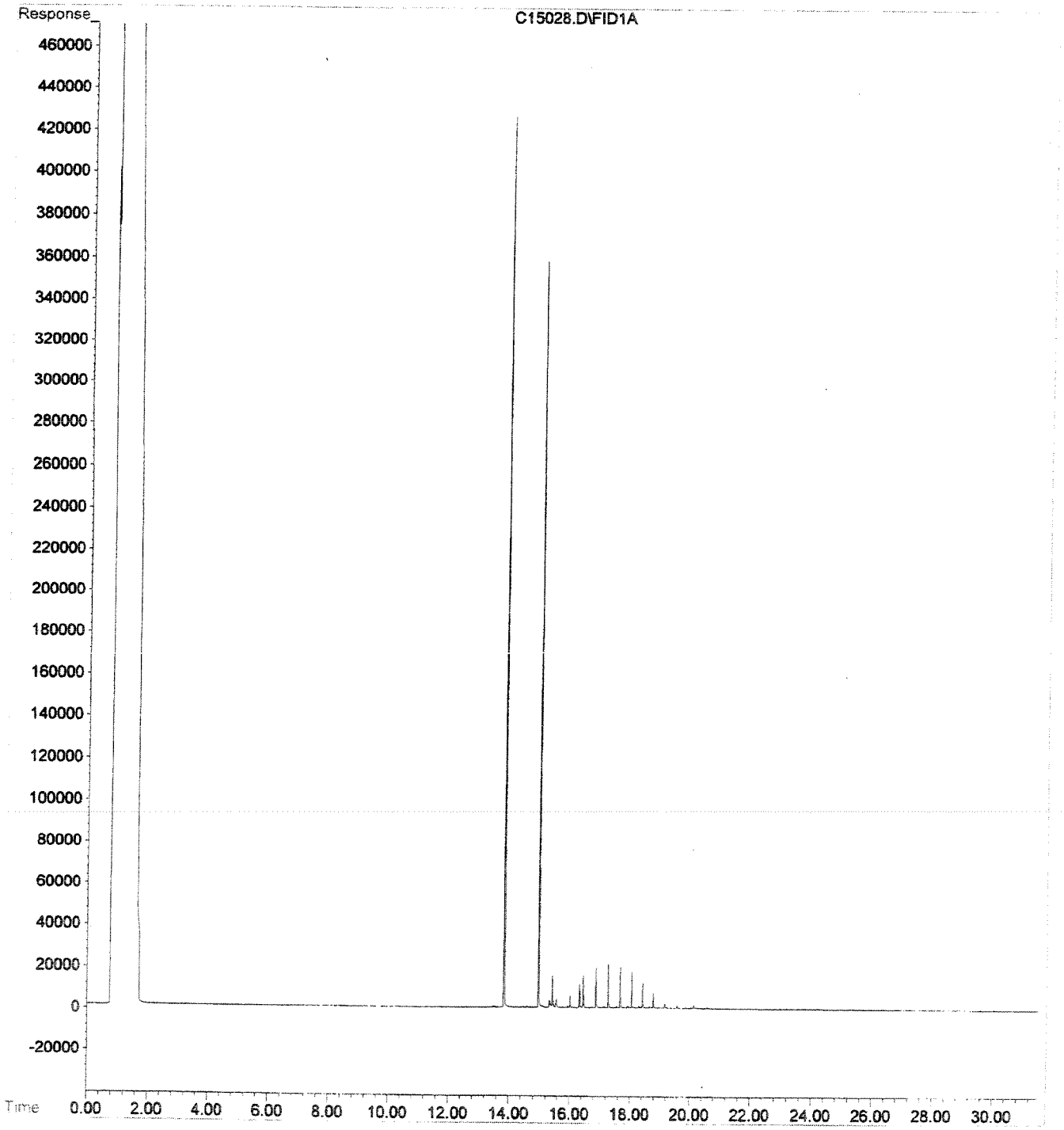
File : D:\HPCHEM\1\DATA\031505\C15024.D
Operator : tmk
Acquired : 15 Mar 2005 16:14 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0315-01
Misc Info : 1x mt-eph w
Vial Number: 12



File : D:\HPCHEM\1\DATA\031505\C15026.D
Operator : tmk
Acquired : 15 Mar 2005 16:55 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0315-02
Misc Info : 1x mt-eph w
Vial Number: 13



File : D:\HPCHEM\1\DATA\031505\C15028.D
Operator : tmk
Acquired : 15 Mar 2005 17:36 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: b5c0315-03
Misc Info : 1x mt-eph w
Vial Number: 14



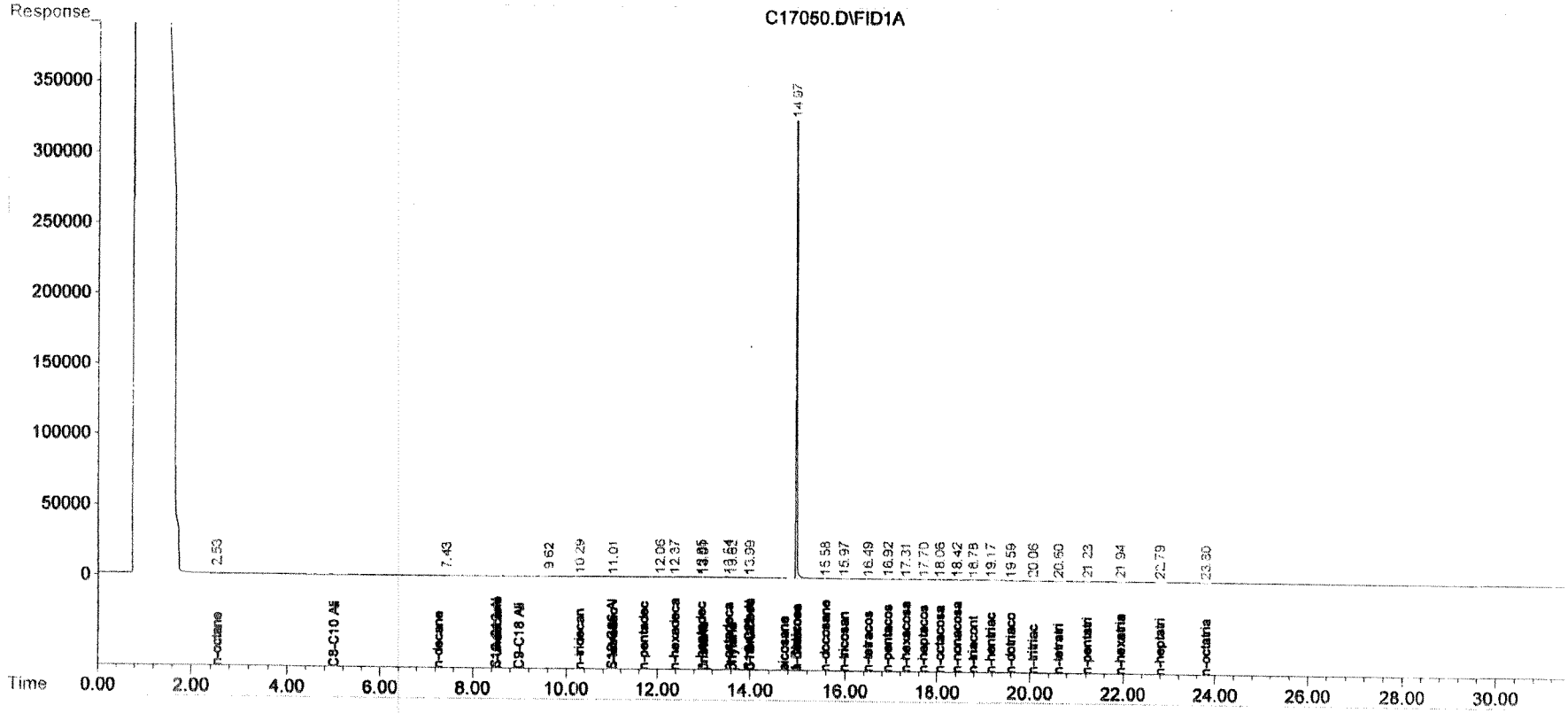
Quantitation Report

Data File : D:\HPCHEM\1\DATA\031705\C17050.D
Acq On : 18 Mar 2005 9:29
Sample : B5C0315-02
Misc : 1X MT-EPH Water
IntFile : SURR.E
Quant Time: Mar 18 10:01 2005 Quant Results File: L0804L3F.RES

Vial: 25
Operator: DEB
Inst : GC-3
Multiplr: 1.00

Quant Method : D:\HPCHEM\1\METHODS\L0804L3F.M (Chemstation Integrator)
Title : EPH Front Method
Last Update : Tue Feb 15 15:10:45 2005
Response via : Multiple Level Calibration
DataAcq Meth : L0804L3F.M

Volume Inj. :
Signal Phase :
Signal Info :

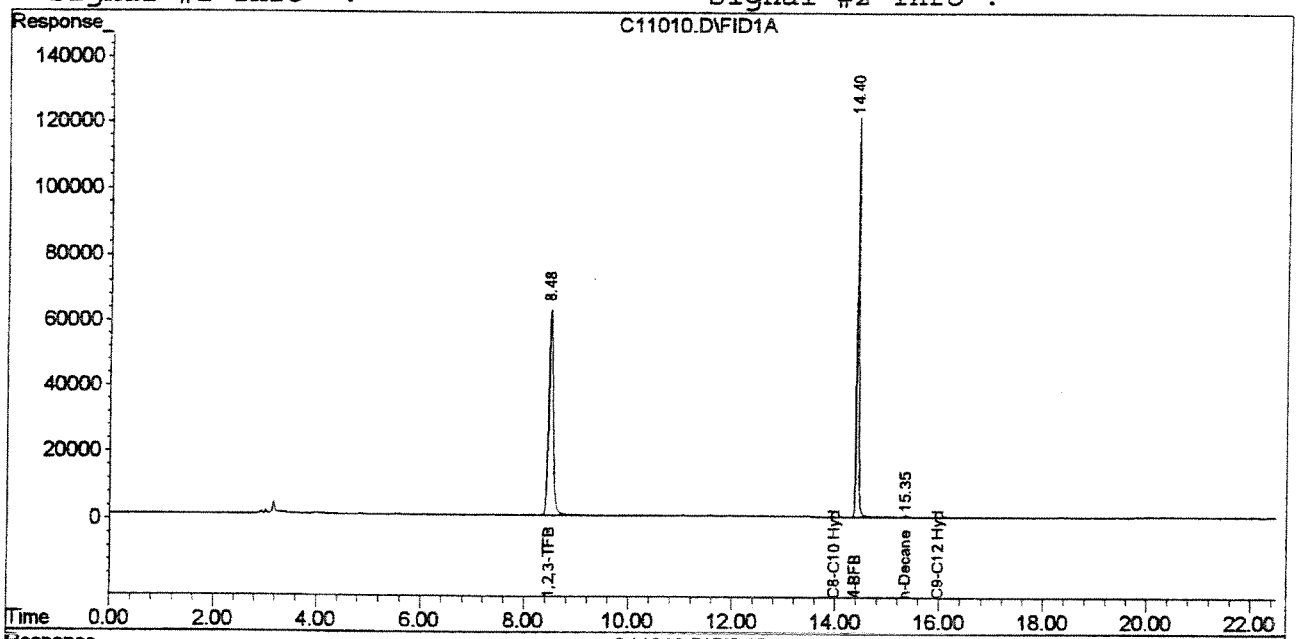


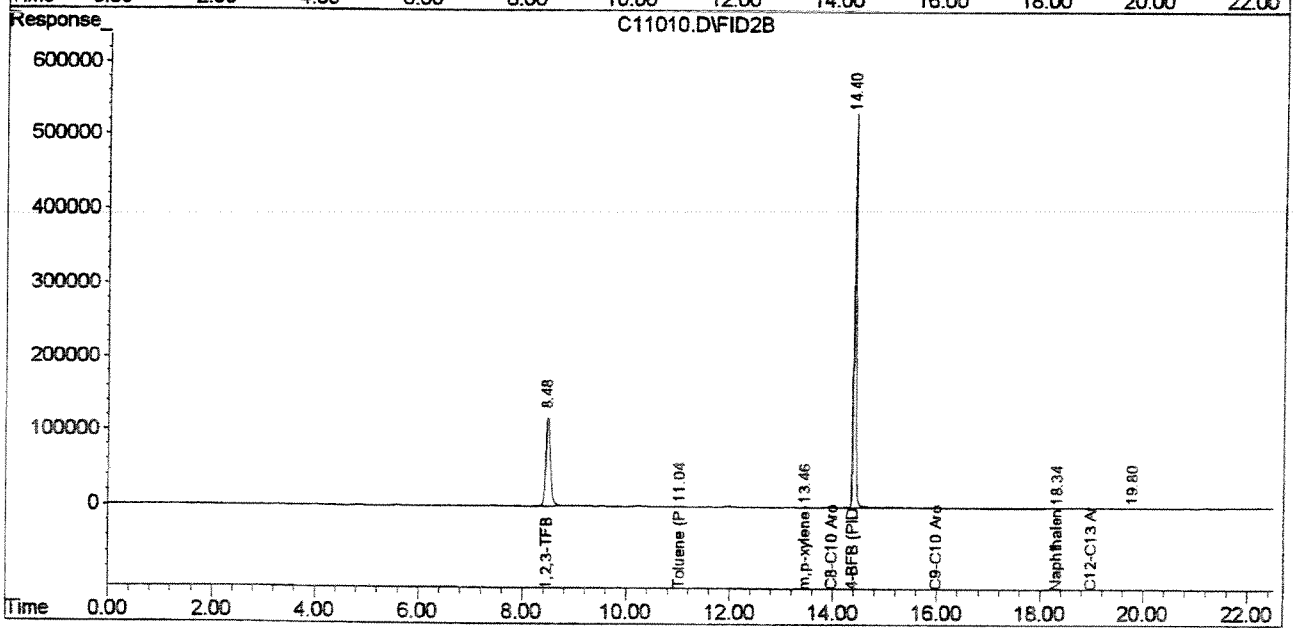
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11010.D\FID1A.CH Vial: 10
Signal #2 : D:\HPCHEM\3\DATA\031105\C11010.D\FID2B.CH
Acq On : 11 Mar 2005 15:19 Operator: mam
Sample : b5c0315-01 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:23 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 07:59:51 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



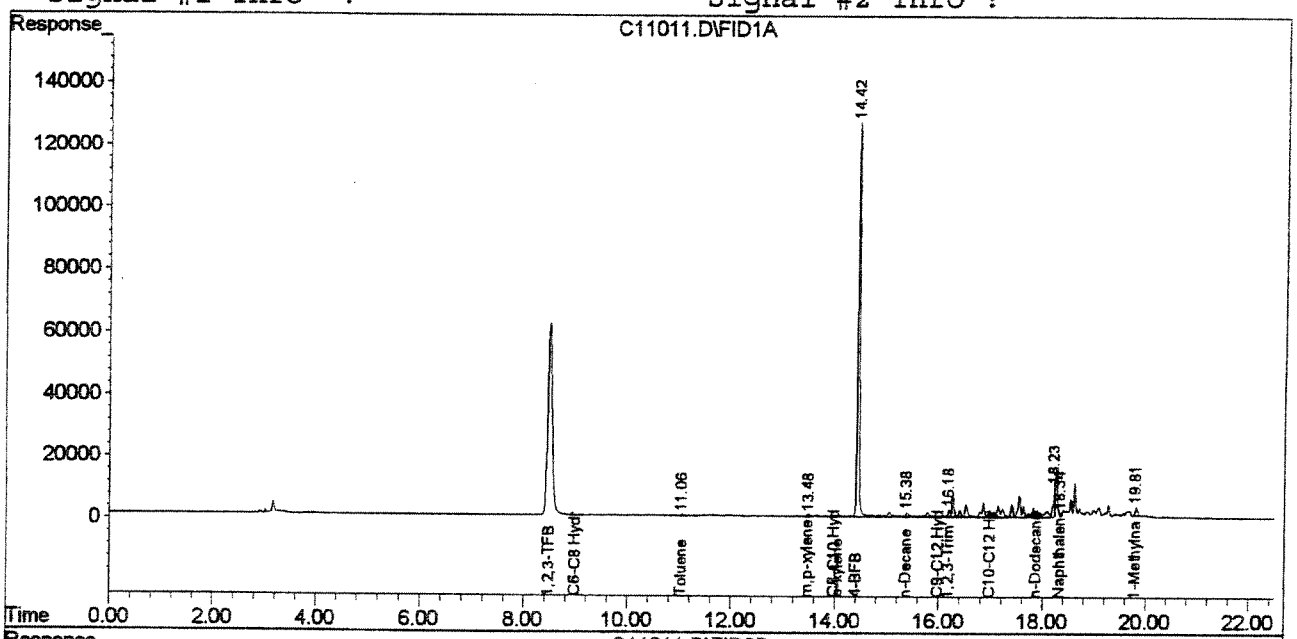


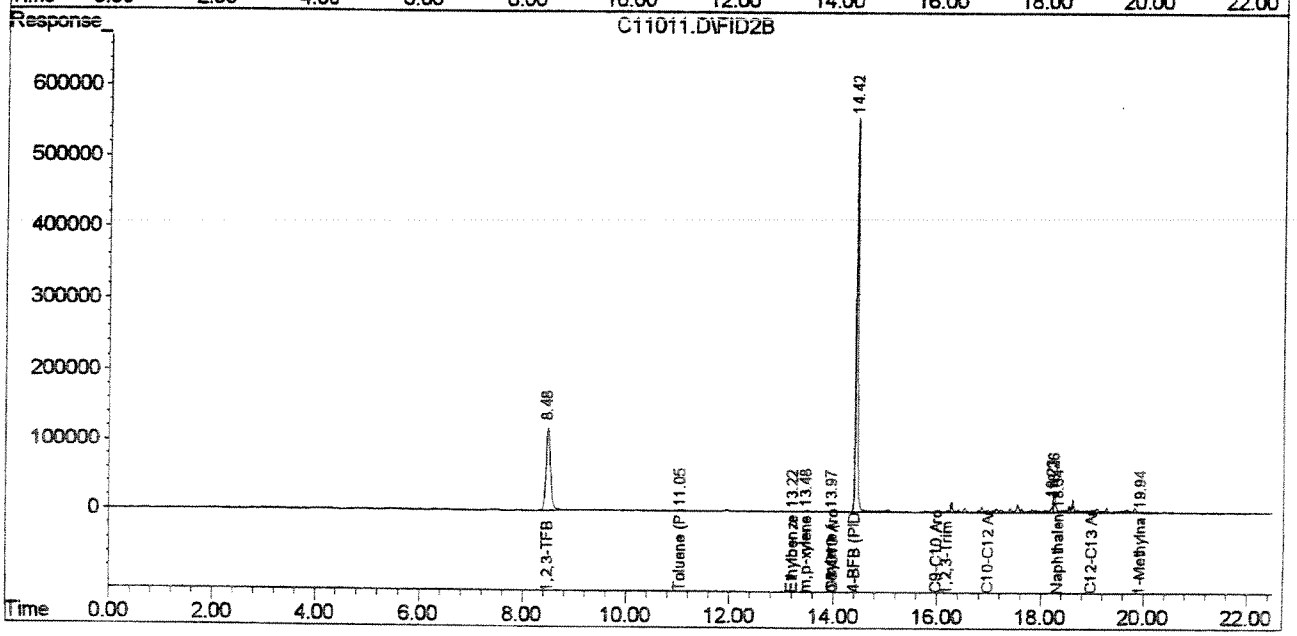
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11011.D\FID1A.CH Vial: 11
Signal #2 : D:\HPCHEM\3\DATA\031105\C11011.D\FID2B.CH
Acq On : 11 Mar 2005 15:50 Operator: mam
Sample : b5c0315-02 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:24 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



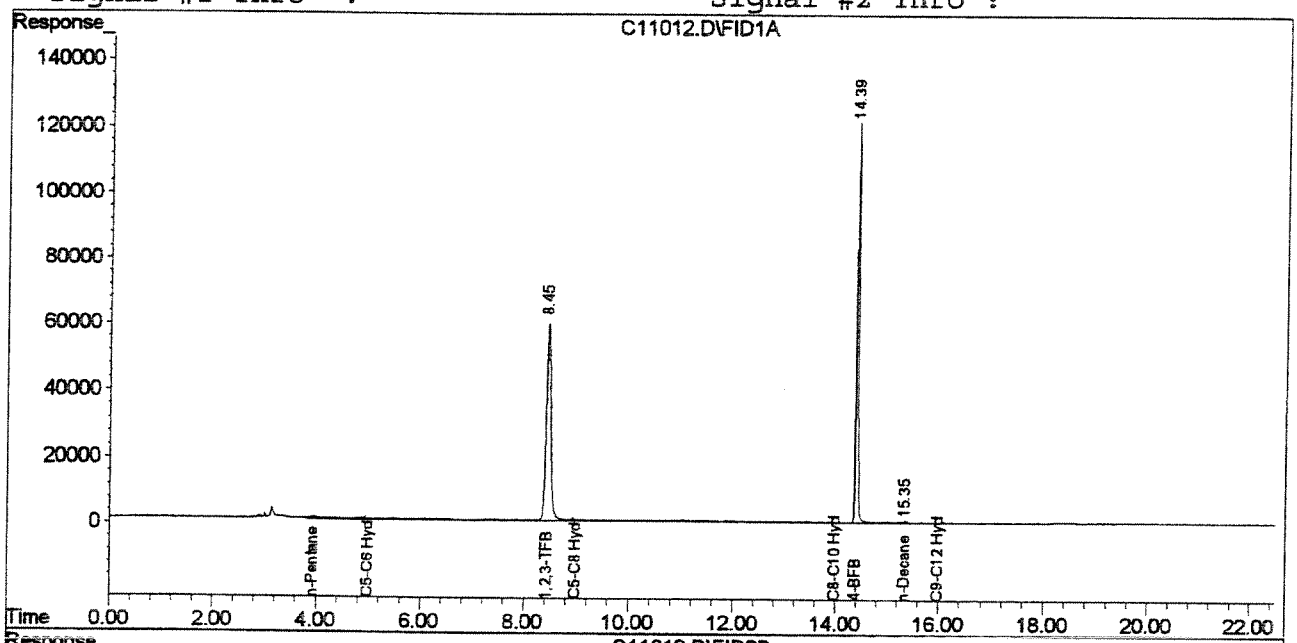


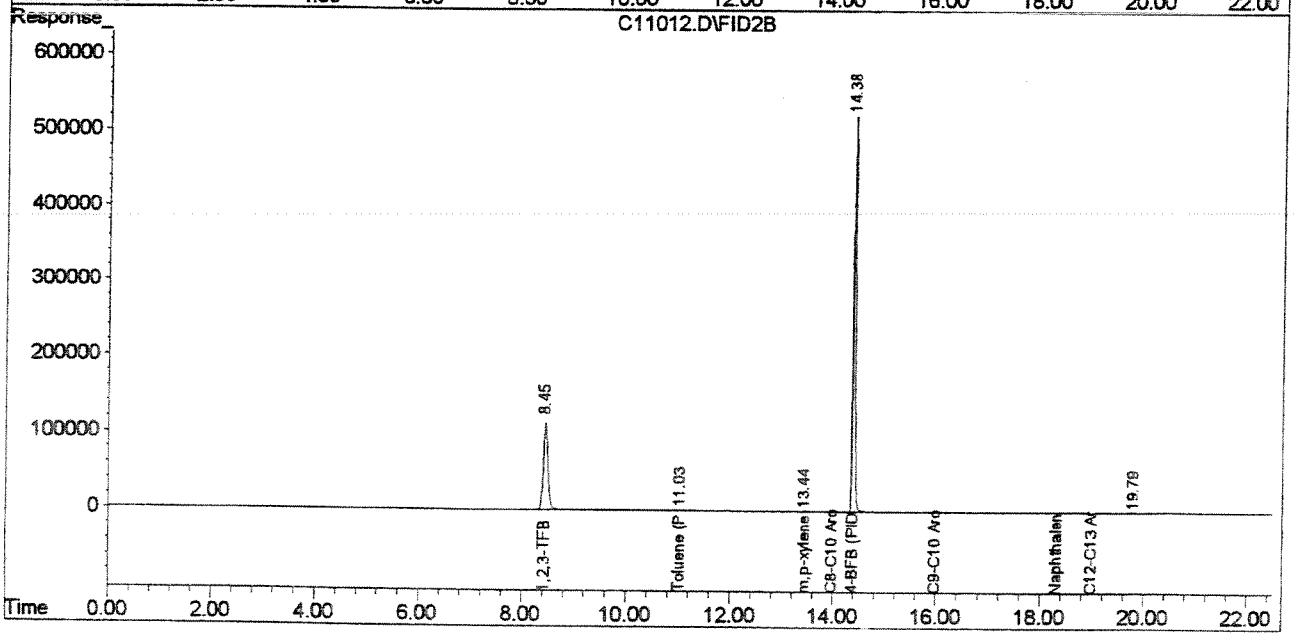
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031105\C11012.D\FID1A.CH Vial: 12
Signal #2 : D:\HPCHEM\3\DATA\031105\C11012.D\FID2B.CH
Acq On : 11 Mar 2005 16:21 Operator: mam
Sample : b5c0315-03 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:25 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



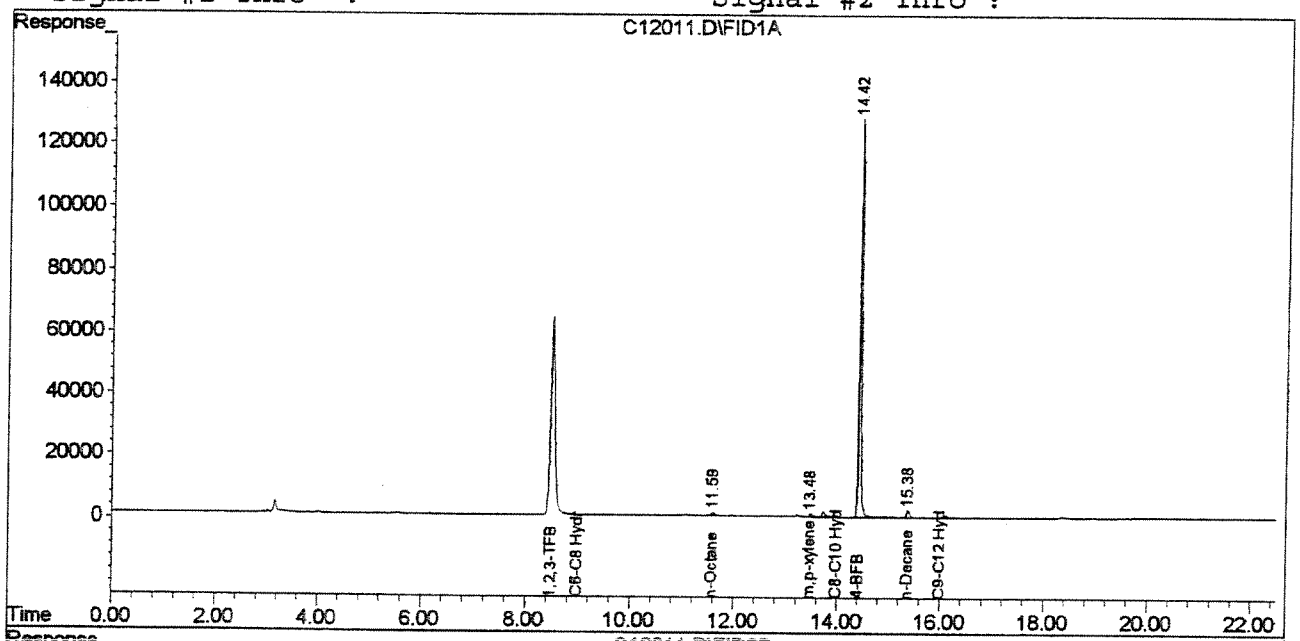


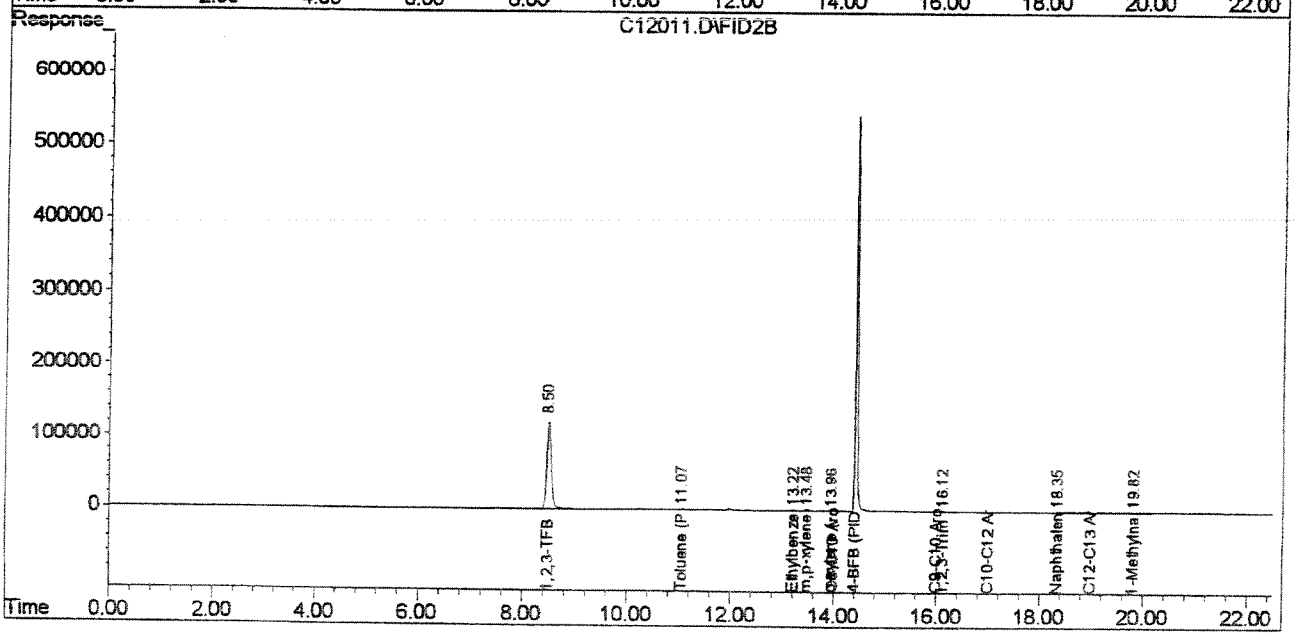
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12011.D\FID1A.CH Vial: 10
Signal #2 : D:\HPCHEM\3\DATA\031205\C12011.D\FID2B.CH
Acq On : 12 Mar 2005 16:32 Operator: sks
Sample : b5c0315-04 r1 Inst : GC #6
Misc : 1x 5 mL tb Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 12 16:55 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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CHAIN OF CUSTODY REPORT

Work Order #: B5C0315

NCA CLIENT: Kennedy/Jenks Consultants - BNSF
REPORT TO: Sarah Kraja - Kennedy/Jenks
ADDRESS: 32001 32nd Ave S Suite 100 Federal Way WA
PHONE: 253 874 0855 FAX:

INVOICE TO: Dave Smith BNSF
P.O. NUMBER:

PROJECT NAME: BNSF - Livingston
PROJECT NUMBER: 0596021*16
SAMPLED BY: Sarah Kraja

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | – | HNO_3

REQUESTED ANALYSES: MBTEXN

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH w/ Screen	VPH by MADEP w/	353.2 350.3	Sulfate 300.0	Iron 200.7	PAH								MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	LS-9	3/9/05 1730	X	X	X	X	X									W	8	If EPH is 70.3 then	-01
2	LG-12	3/9/05 1505	X	X	X	X	X	X								W	8	Fractionate	-02
3	LG-4	3/9/05 1350	X	X	X	X	X									W	8	↓	-03
4	trip blank			X															-04
5																			
6																			
7																			
8																			
9																			
10																			

X = PAH Analysis added on April 27, 2005 As per Sarah Kraja of KJ

RELEASED BY: Sarah C Kraja DATE: 3/10/05
PRINT NAME: Sarah C Kraja FIRM: K/J TIME: 0850
RECEIVED BY: Tom Blankinship DATE: 3/11/05
PRINT NAME: Blankinship FIRM: NCA TIME: 0850

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 4.0 w/cs

COC REV 09/04

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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: B5C0315

NCA CLIENT: Kennedy/Jenks Consultants - BNSF
REPORT TO: Sarah Kraja - Kennedy Jenks
ADDRESS: 32001 32nd Ave S Suite 100 Federal Way WA
PHONE: 253 874 0555 FAX:

INVOICE TO: Dave Smith BNSF
P.O. NUMBER:

PROJECT NAME: BNSF - Livingston
PROJECT NUMBER: 0596021*16
SAMPLED BY: Sarah Kraja

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | – | HNO_3

REQUESTED ANALYSES: MBTEXN

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH-MT	Screen VPH by MADEP w/	353.2 350.3	Sulfate 300.0	Iron 200.7	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	LS-9	3/9/05 1730	X	X	X	X	X	W	8	If EPH is 70.3 then	-01
2	LG-12	3/9/05 1505	X	X	X	X	X	W	8	Fractionate	-02
3	LG-4	3/9/05 1350	X	X	X	X	X	W	8	↓	-03
4	trip blank			X							-04
5											
6											
7											
8											
9											
10											

RELEASED BY: Sarah C Kraja DATE: 3/10/05
PRINT NAME: Sarah C Kraja FIRM: K/J TIME: 0850
RECEIVED BY: Tom Blankinship DATE: 3/11/05
PRINT NAME: Blankinship FIRM: NCA TIME: 0850

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 4.0 w/cs

COC REV 09/04

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907.563.9200 fax 907.563.9210

CASE NARRATIVE for B5C0333

Client:	Kennedy/Jenks Consultants
Project Manager:	Sarah Kraja
Project Name:	BNSF – Livingston, MT
Project Number:	0596021.16

1.0 DESCRIPTION OF CASE

Three water samples and one trip blank were received for analysis of the following: BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS, Volatile Petroleum Hydrocarbons by Montana VPH, Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Dissolved Metals by EPA 200 Series Methods, Conventional Chemistry Parameters by APHA/EPA Methods, and Anions by EPA Method 300.0.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on March 12, 2005. Sample temperature at time of receipt was 0.6 ° C, which is outside the recommended criteria of 4°C ± 2°C.

3.0 PREPARATIONS AND ANALYSIS

BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS

Due to a detection for Naphthalene above the MRL in the laboratory blank in analytical batch 5C12007 for the MT-VPH method, all of the laboratory samples were re-analyzed for Naphthalene by EPA method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Petroleum Hydrocarbons by Montana VPH

All criteria for acceptable QC measurements were met with the following exceptions:

Detection for Naphthalene above the MRL was reported for the laboratory blank in analytical batch 5C12007. The laboratory blank and associated laboratory samples have been qualified to reflect the contamination. All of the associated laboratory samples were re-analyzed by EPA Method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Dissolved Metals by EPA 200 Series Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

RECEIVED
MAR 28 2005
K/J Federal Way

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Conventional Chemistry Parameters by APHA/EPA Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Anions by EPA Method 300.0

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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18 March 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are the results of analyses for samples received by the laboratory on 03/12/05 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 08:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LG-13	B5C0333-01	Water	03/09/05 11:15	03/12/05 10:15
MW-100	B5C0333-02	Water	03/09/05 11:30	03/12/05 10:15
LS-6	B5C0333-03	Water	03/10/05 10:25	03/12/05 10:15
Trip Blank	B5C0333-04	Water	03/09/05 12:00	03/12/05 10:15

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*99.5 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*95.5 %*	*70-130*			"	"	"	"	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
Naphthalene	**1.20**	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*100 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*94.0 %*	*70-130*			"	"	"	"	
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*98.5 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*96.5 %*	*70-130*			"	"	"	"	
Trip Blank (B5C0333-04) Water Sampled: 03/09/05 12:00 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*99.0 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*96.0 %*	*70-130*			"	"	"	"	

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907.563.9200 fax 907.563.9210

Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 08:59

Volatile Petroleum Hydrocarbons by Montana VPH
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.86**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*90.5 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.3 %*	*60-140*			"	"	"	"	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.91**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*92.8 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*98.2 %*	*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Volatile Petroleum Hydrocarbons by Montana VPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	**35.5**	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	**46.5**	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.83**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*95.3 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*99.2 %*	*60-140*			"	"	"	"	
Trip Blank (B5C0333-04) Water Sampled: 03/09/05 12:00 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.91**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*88.5 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*98.0 %*	*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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907.563.9200 fax 907.563.9210

Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*89.6 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*83.1 %*	*50-150*			"	"	"	"	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*93.4 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*88.2 %*	*50-150*			"	"	"	"	
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*90.0 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*83.7 %*	*50-150*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Dissolved Metals by EPA 200 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
Iron	**0.751**	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C16056	03/16/05	03/16/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**1.05**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C16056	03/16/05	03/16/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**1.04**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C16056	03/16/05	03/16/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	ND	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LG-13 (B5C0333-01) Water Sampled: 03/09/05 11:15 Received: 03/12/05 10:15									
Sulfate	**28.1**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
MW-100 (B5C0333-02) Water Sampled: 03/09/05 11:30 Received: 03/12/05 10:15									
Sulfate	**28.3**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
LS-6 (B5C0333-03) Water Sampled: 03/10/05 10:25 Received: 03/12/05 10:15									
Sulfate	**14.5**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14073: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C14073-BLK1)										
Naphthalene	ND	1.00	ug/l							
Surrogate: Toluene-d8	*19.8*		"	*20.0*		*99.0*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
LCS (5C14073-BS1)										
Naphthalene	29.7	1.00	ug/l	30.0		99.0	80-120			
Surrogate: Toluene-d8	*20.1*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*18.9*		"	*20.0*		*94.5*	*70-130*			
LCS Dup (5C14073-BSD1)										
Naphthalene	31.2	1.00	ug/l	30.0		104	80-120	4.93	20	
Surrogate: Toluene-d8	*20.0*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
Matrix Spike (5C14073-MS1)					**Source: B5C0314-01**					
Naphthalene	32.3	1.00	ug/l	30.0	0.00	108	60-140			
Surrogate: Toluene-d8	*20.8*		"	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*18.0*		"	*20.0*		*90.0*	*70-130*			
Matrix Spike Dup (5C14073-MSD1)					**Source: B5C0314-01**					
Naphthalene	32.4	1.00	ug/l	30.0	0.00	108	60-140	0.309	30	
Surrogate: Toluene-d8	*20.3*		"	*20.0*		*102*	*70-130*			
Surrogate: 4-BFB	*18.3*		"	*20.0*		*91.5*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C12007-BLK1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l							
C5-C8 Aliphatics	ND	20.0	"							
C9-C12 Aliphatics	ND	20.0	"							
C9-C10 Aromatics	ND	20.0	"							
C5-C8 Aliphatics/Adjusted	ND	20.0	"							
C9-C12 Aliphatics/Adjusted	ND	20.0	"							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Naphthalene	1.97	1.00	"							B, X
Surrogate: 4-BFB (FID)	*60.3*		"	*60.0*		*100*	*60-140*			
Surrogate: 4-BFB (PID)	*57.0*		"	*60.0*		*95.0*	*60-140*			
LCS (5C12007-BS1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1200	40.0	ug/l	1200		100	60-140			
Surrogate: 4-BFB (FID)	*63.8*		"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*60.1*		"	*60.0*		*100*	*60-140*			
LCS Dup (5C12007-BSD1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1240	40.0	ug/l	1200		103	60-140	3.28	40	
Surrogate: 4-BFB (FID)	*63.2*		"	*60.0*		*105*	*60-140*			
Surrogate: 4-BFB (PID)	*59.3*		"	*60.0*		*98.8*	*60-140*			
Matrix Spike (5C12007-MS1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1270	40.0	ug/l	1200	ND	106	60-140			
Surrogate: 4-BFB (FID)	*61.7*		"	*60.0*		*103*	*60-140*			
Surrogate: 4-BFB (PID)	*60.8*		"	*60.0*		*101*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
Matrix Spike Dup (5C12007-MSD1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1260	40.0	ug/l	1200	ND	105	60-140	0.791	40	
Surrogate: 4-BFB (FID)	*65.3*		*"*	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*62.0*		*"*	*60.0*		*103*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15005: Prepared 03/15/05 Using EPA 3520C										
Blank (5C15005-BLK1)										
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l							
Surrogate: 1-Chlorooctadecane	*364*		"	*400*		*91.0*	*50-150*			
Surrogate: o-Terphenyl	*337*		"	*400*		*84.2*	*50-150*			
LCS (5C15005-BS1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1160	300	ug/l	1550		74.8	50-150			
Surrogate: 1-Chlorooctadecane	*440*		"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*358*		"	*400*		*89.5*	*50-150*			
LCS Dup (5C15005-BSD1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1180	300	ug/l	1550		76.1	50-150	1.71	40	
Surrogate: 1-Chlorooctadecane	*442*		"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*358*		"	*400*		*89.5*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Dissolved Metals by EPA 200 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C03046: Prepared 03/03/05 Using EPA 200 Series										
Blank (5C03046-BLK1)										
Iron	ND	0.150	mg/l							
Blank (5C03046-BLK2)										
Iron	ND	0.150	mg/l							
LCS (5C03046-BS1)										
Iron	5.35	0.150	mg/l	5.00		107	85-115			
LCS Dup (5C03046-BSD1)										
Iron	5.28	0.150	mg/l	5.00		106	85-115	1.32	20	
Duplicate (5C03046-DUP1)					**Source: B5C0071-02**					
Iron	ND	0.150	mg/l		ND			NA	20	
Matrix Spike (5C03046-MS1)					**Source: B5C0071-02**					
Iron	5.26	0.150	mg/l	5.00	ND	105	80-120			
Matrix Spike (5C03046-MS2)					**Source: B5C0314-01**					
Iron	5.31	0.150	mg/l	5.00	ND	106	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15061: Prepared 03/15/05 Using General Preparation										
Blank (5C15061-BLK1)										
Nitrate/Nitrite-Nitrogen	ND	0.0100	mg/l as N							
LCS (5C15061-BS1)										
Nitrate/Nitrite-Nitrogen	1.00	0.0100	mg/l as N	1.00		100	90-110			
LCS Dup (5C15061-BSD1)										
Nitrate/Nitrite-Nitrogen	1.02	0.0100	mg/l as N	1.00		102	90-110	1.98	20	
Matrix Spike (5C15061-MS1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.15	0.0100	mg/l as N	0.250	0.893	103	36-150			
Matrix Spike Dup (5C15061-MSD1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.14	0.0100	mg/l as N	0.250	0.893	98.8	36-150	0.873	20	
Batch 5C16056: Prepared 03/16/05 Using General Preparation										
Blank (5C16056-BLK1)										
Ammonia-Nitrogen	ND	0.100	mg/l as N							
LCS (5C16056-BS1)										
Ammonia-Nitrogen	4.79	0.100	mg/l as N	5.00		95.8	90-110			
LCS Dup (5C16056-BSD1)										
Ammonia-Nitrogen	4.83	0.100	mg/l as N	5.00		96.6	90-110	0.832	20	
Duplicate (5C16056-DUP1)					**Source: B5C0334-03**					
Ammonia-Nitrogen	0.0500	0.100	mg/l as N		0.0500			0.00	30	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C16056: Prepared 03/16/05 Using General Preparation										
Matrix Spike (5C16056-MS1)					**Source: B5C0334-03**					
Ammonia-Nitrogen	5.03	0.100	mg/l as N	5.00	0.0500	99.6	75-125			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15057: Prepared 03/14/05 Using General Preparation										
Blank (5C15057-BLK1)										
Sulfate	ND	0.400	mg/l							
LCS (5C15057-BS1)										
Sulfate	5.81	0.400	mg/l	6.00		96.8	90-110			
LCS Dup (5C15057-BSD1)										
Sulfate	5.97	0.400	mg/l	6.00		99.5	90-110	2.72	20	
Duplicate (5C15057-DUP1)					**Source: B5C0103-01**					
Sulfate	8.10	0.400	mg/l		8.26			1.96	25	
Duplicate (5C15057-DUP2)					**Source: B5C0326-01**					
Sulfate	1.13	0.400	mg/l		1.17			3.48	25	
Matrix Spike (5C15057-MS1)					**Source: B5C0103-01**					
Sulfate	13.8	0.800	mg/l	6.00	8.26	92.3	58-135			
Matrix Spike (5C15057-MS2)					**Source: B5C0326-01**					
Sulfate	6.68	0.400	mg/l	6.00	1.17	91.8	58-135			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 08:59

Notes and Definitions

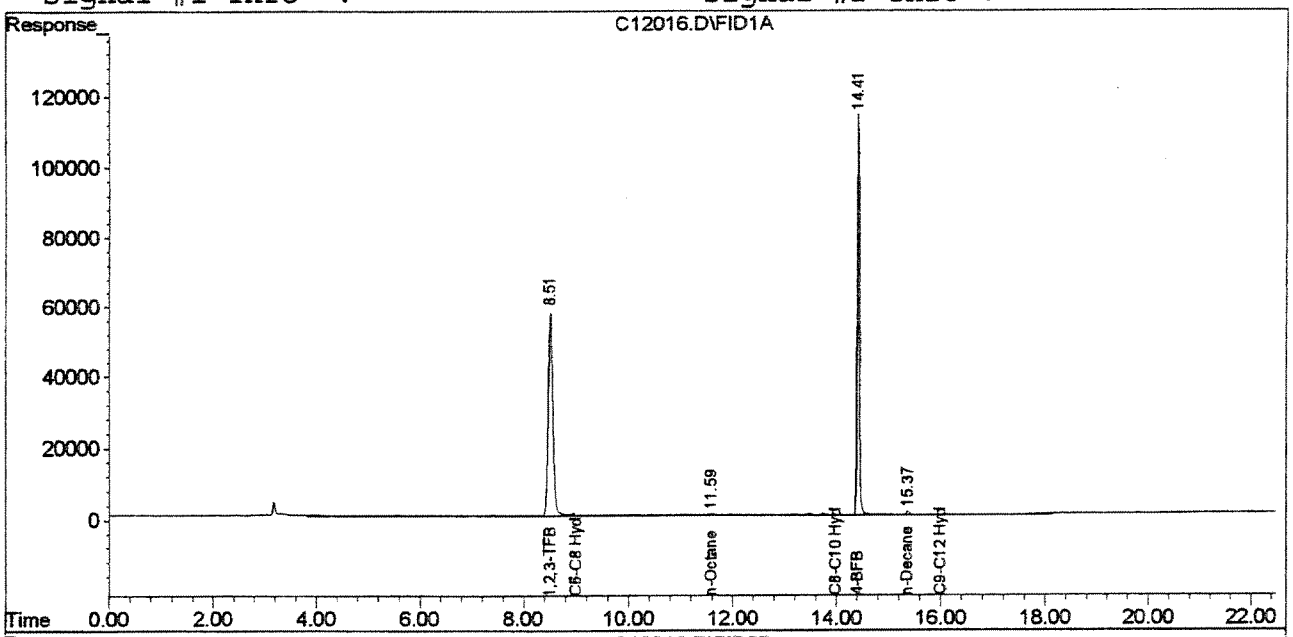
B	Analyte detected in the method blank.
X	See case narrative.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

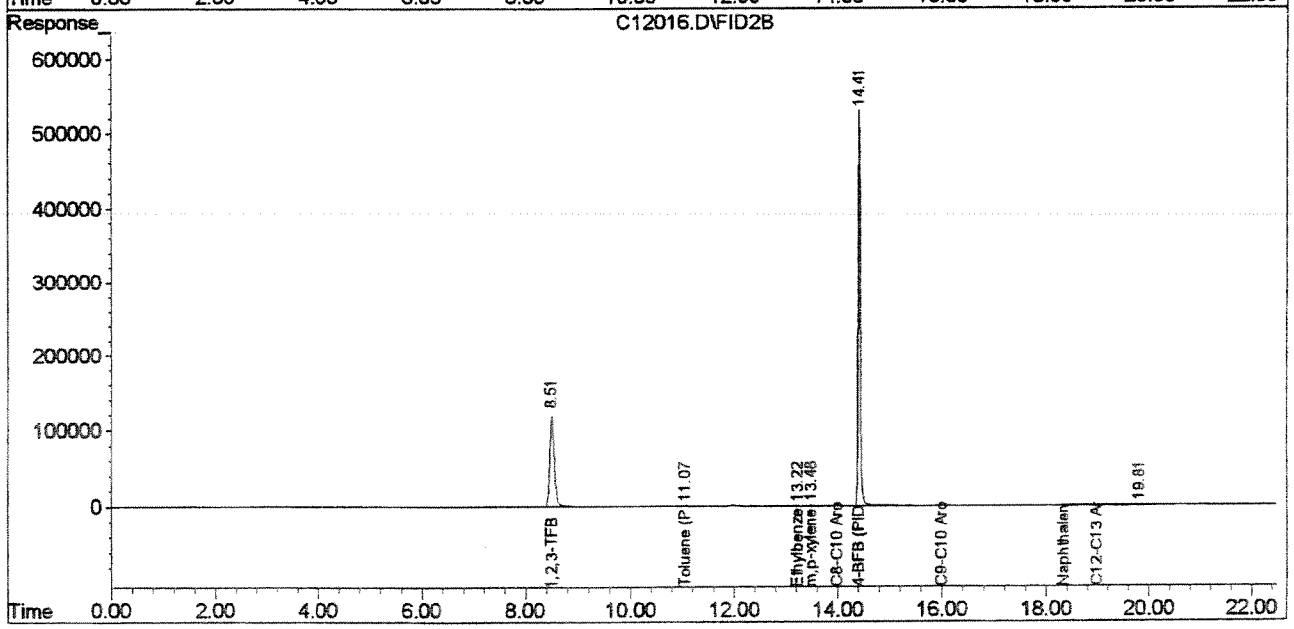
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12016.D\FID1A.CH Vial: 15
Signal #2 : D:\HPCHEM\3\DATA\031205\C12016.D\FID2B.CH
Acq On : 12 Mar 2005 19:23 Operator: sks
Sample : b5c0333-01 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:52 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



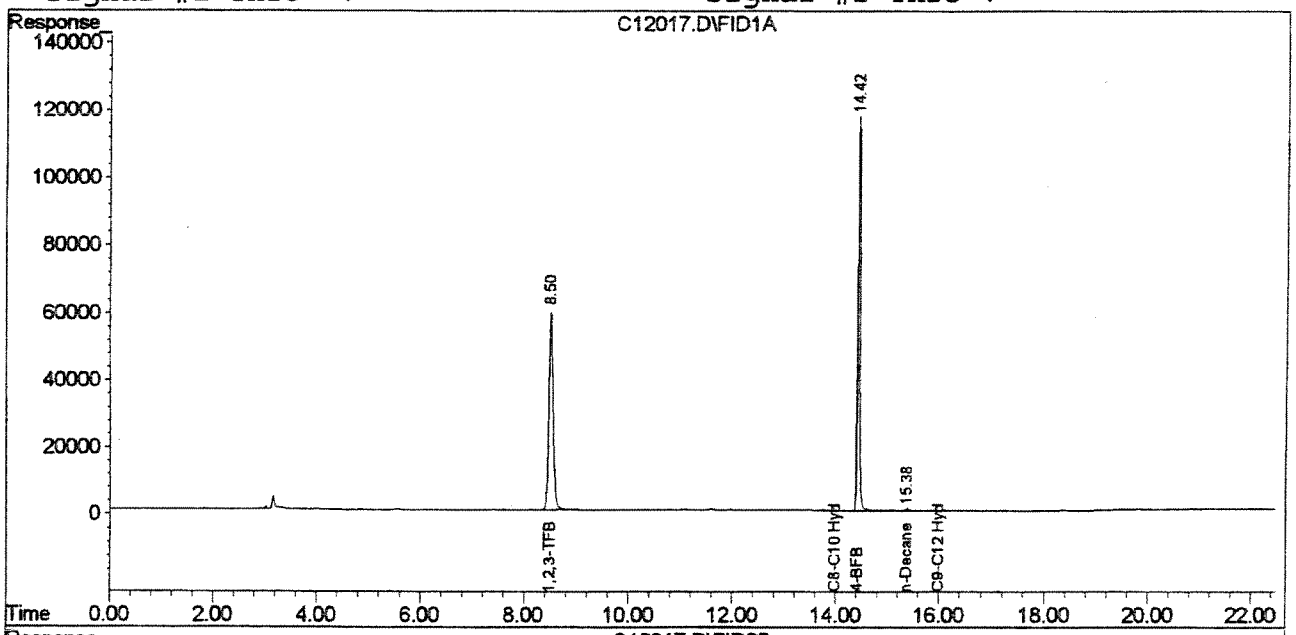


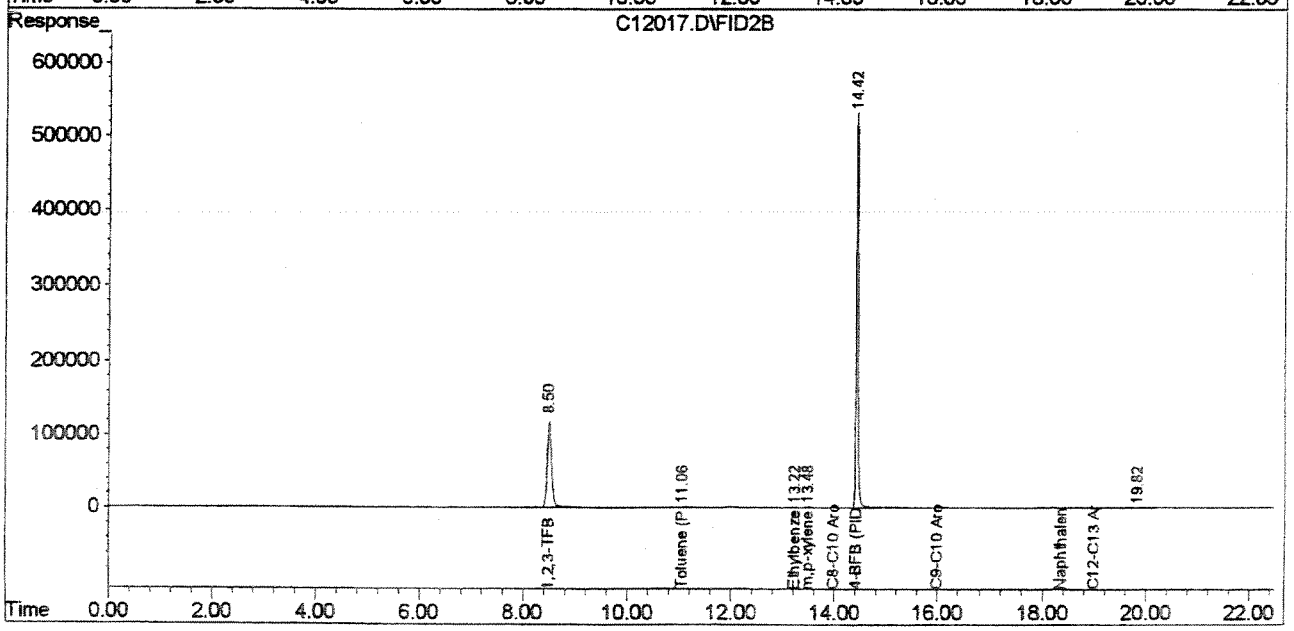
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12017.D\FID1A.CH Vial: 16
Signal #2 : D:\HPCHEM\3\DATA\031205\C12017.D\FID2B.CH
Acq On : 12 Mar 2005 19:53 Operator: sks
Sample : b5c0333-02 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 12 20:16 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



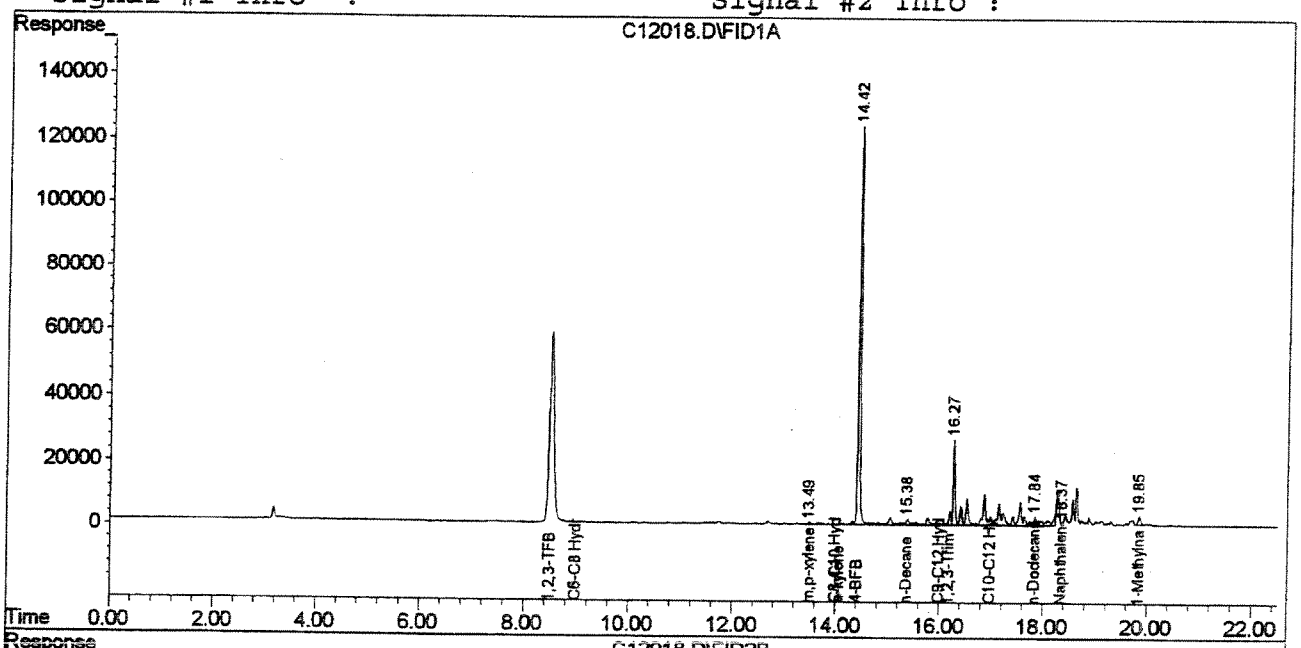


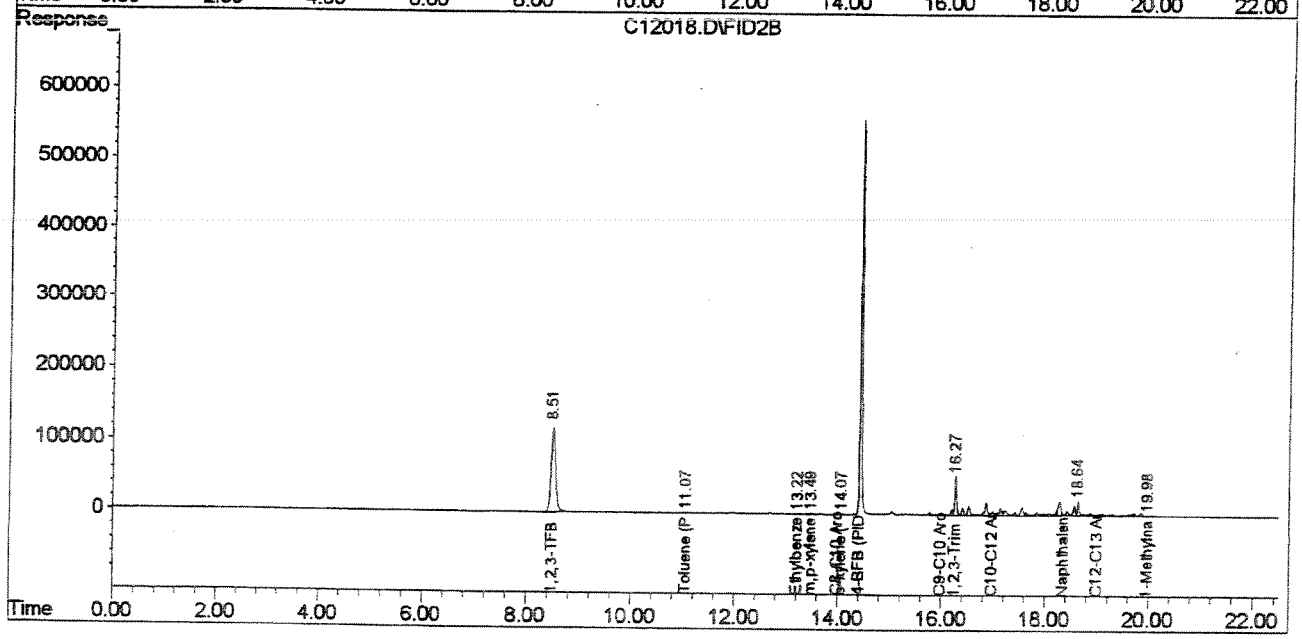
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12018.D\FID1A.CH Vial: 17
Signal #2 : D:\HPCHEM\3\DATA\031205\C12018.D\FID2B.CH
Acq On : 12 Mar 2005 20:24 Operator: sks
Sample : b5c0333-03 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:53 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



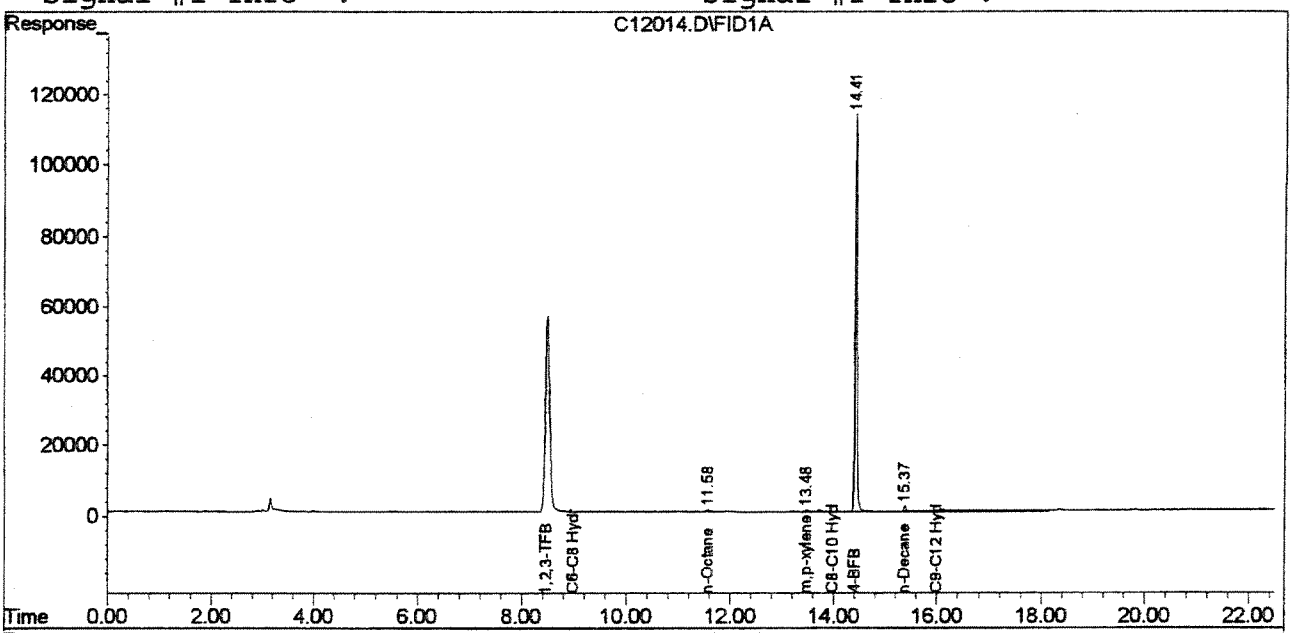


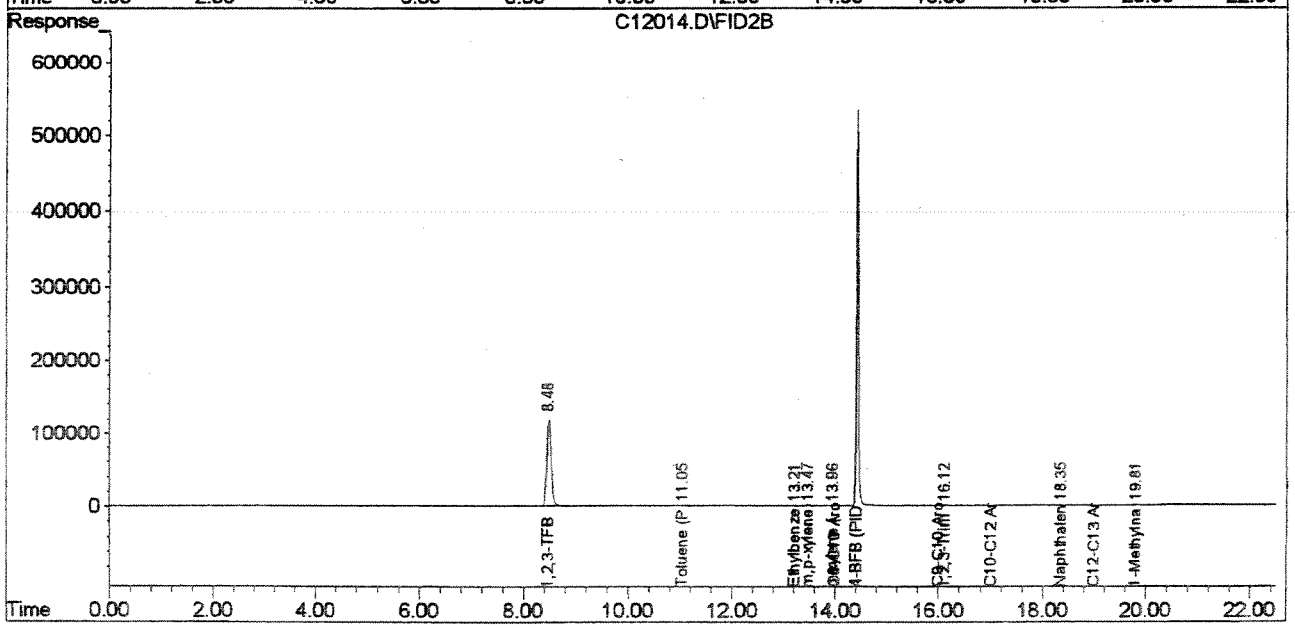
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12014.D\FID1A.CH Vial: 13
Signal #2 : D:\HPCHEM\3\DATA\031205\C12014.D\FID2B.CH
Acq On : 12 Mar 2005 18:21 Operator: sks
Sample : b5c0333-04 Inst : GC #6
Misc : 1x 5 mL tb Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:51 2005 Quant Results File: VPC1005.RES

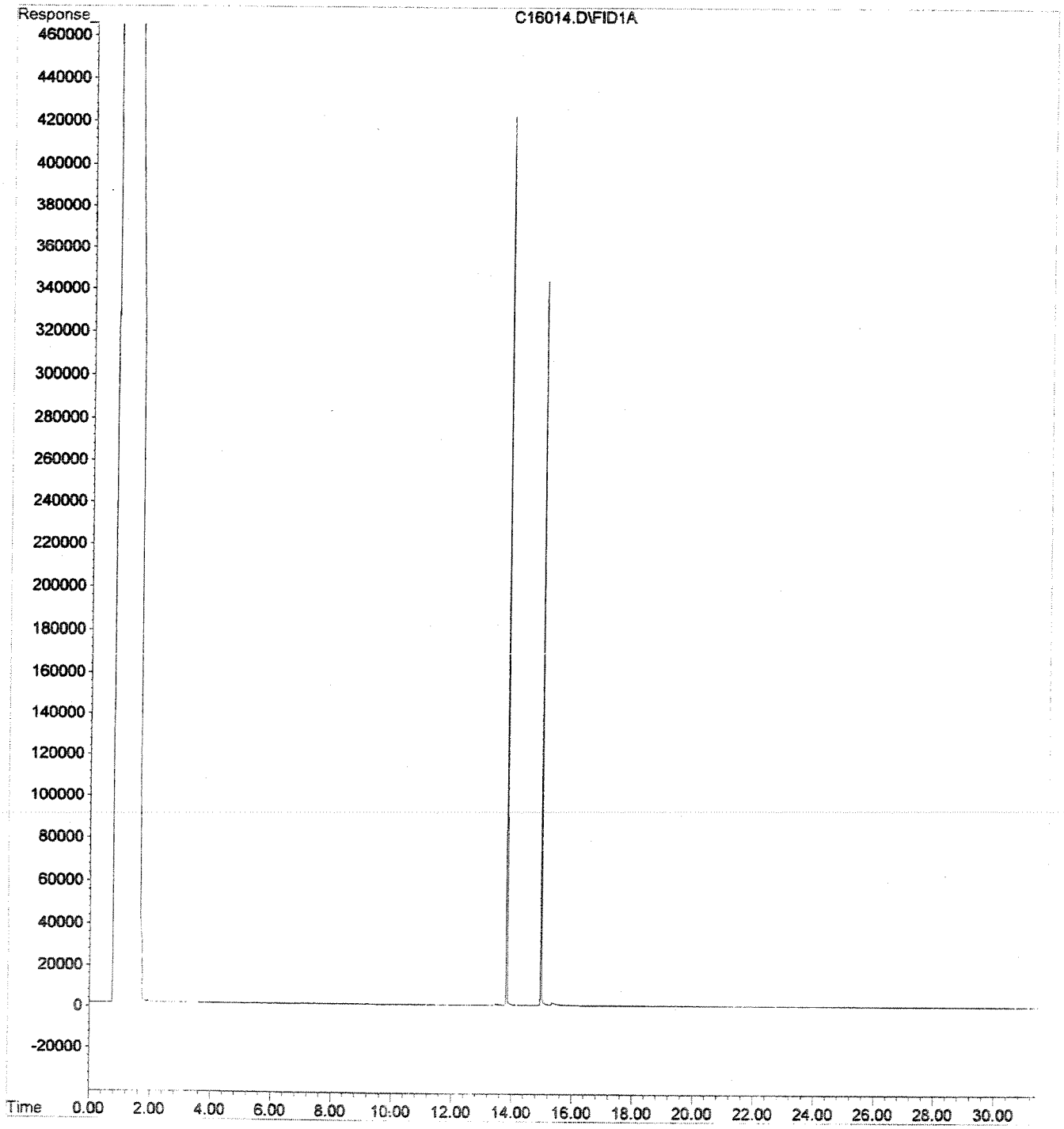
Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

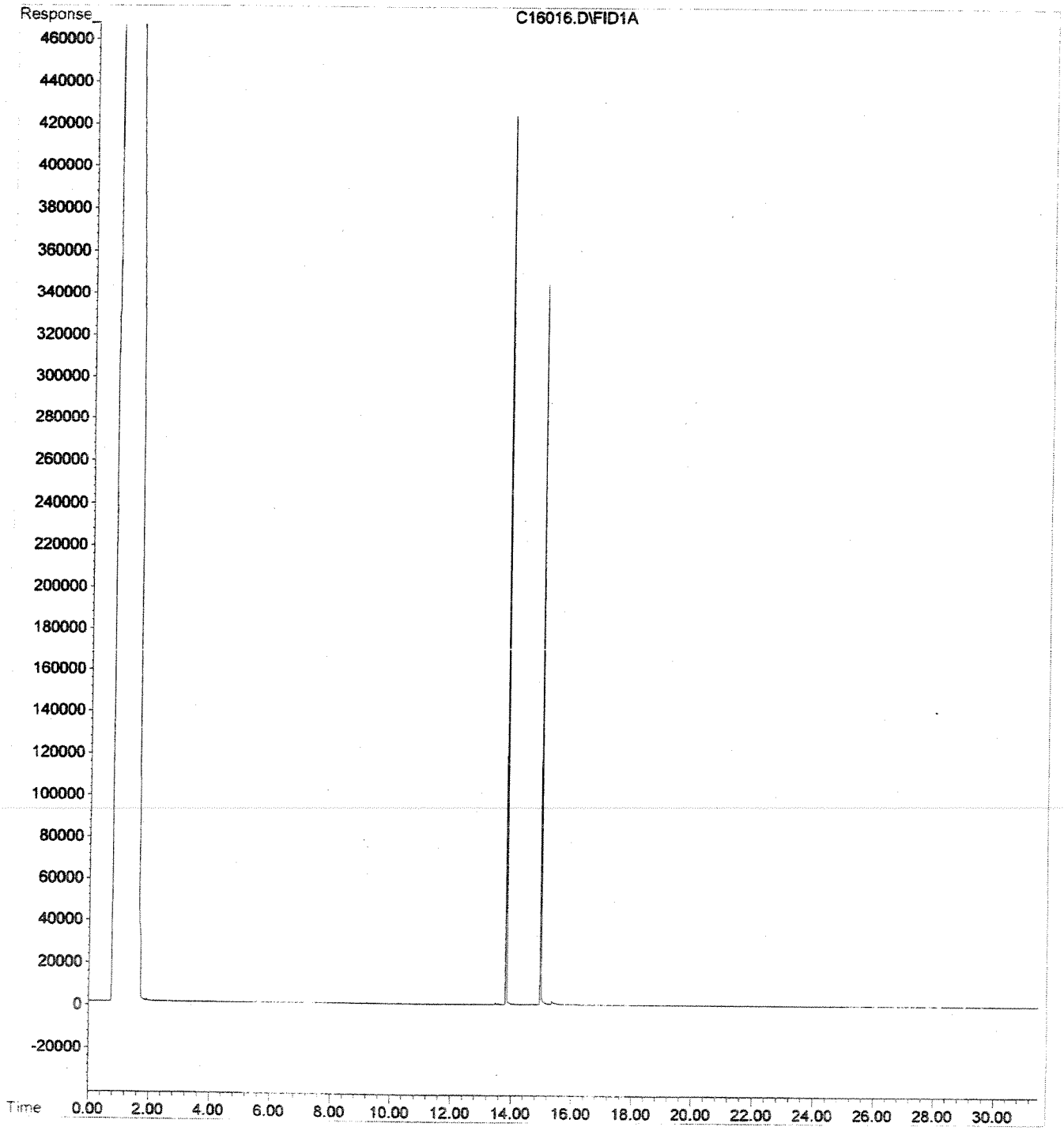




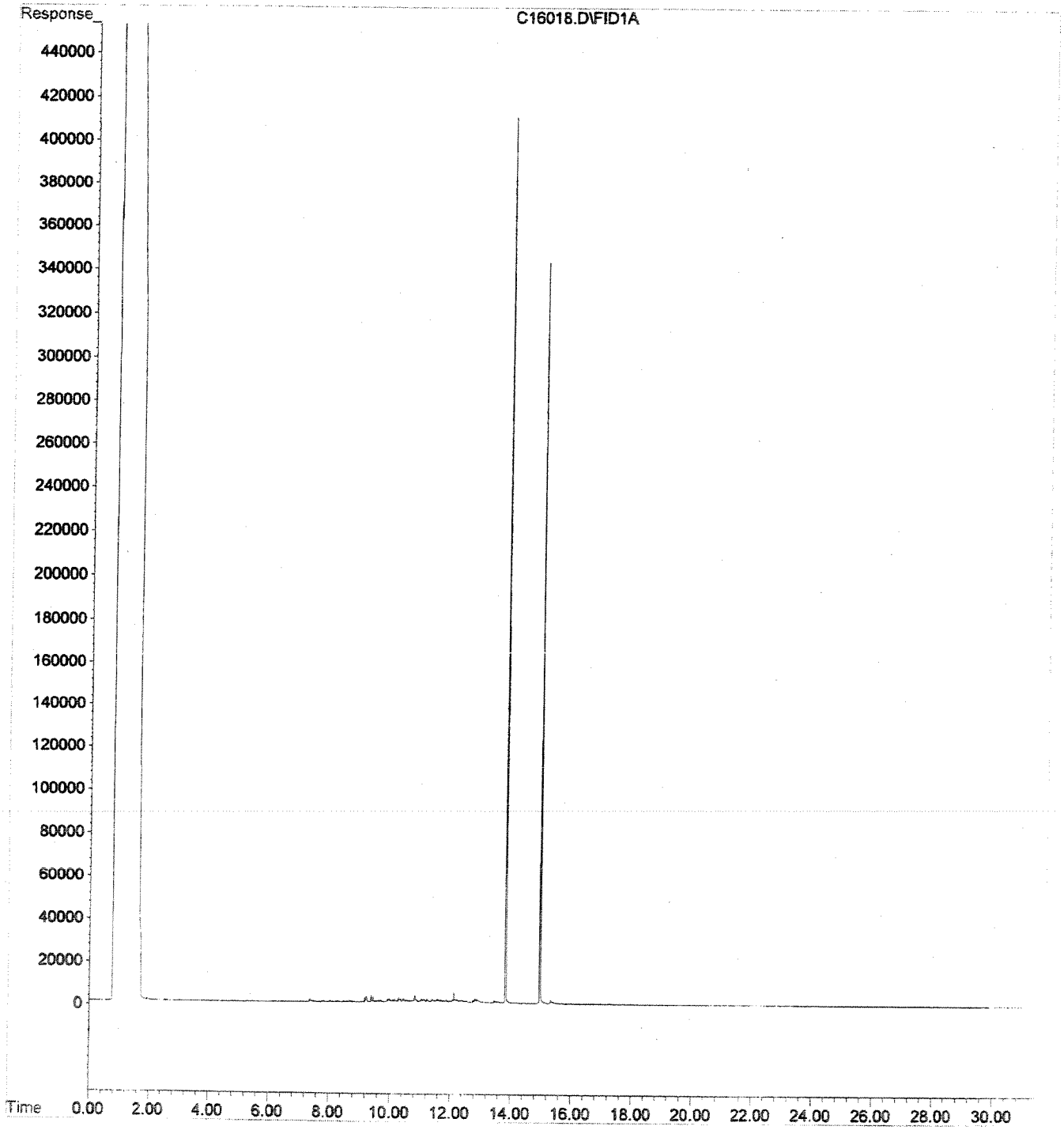
File : D:\HPCHEM\1\DATA\031605\C16014.D
Operator : DEB
Acquired : 16 Mar 2005 18:42 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0333-01
Misc Info : 1X MT-EPH Screen Water
Vial Number: 7



File : D:\HPCHEM\1\DATA\031605\C16016.D
Operator : DEB
Acquired : 16 Mar 2005 19:23 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0333-02
Misc Info : 1X MT-EPH Screen Water
Vial Number: 8



File : D:\HPCHEM\1\DATA\031605\C16018.D
Operator : DEB
Acquired : 16 Mar 2005 20:04 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0333-03
Misc Info : 1X MT-EPH Screen Water
Vial Number: 9



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CHAIN OF CUSTODY REPORT

Work Order #: B5C0333

NCA CLIENT: Kennedy/Jenks Consultants - BNSF

REPORT TO: Sarah Kraja - Kennedy Jenks

ADDRESS: 32001 32nd Ave S Suite 100
Federal Way WA 98001

PHONE: 253 8740555 FAX:

INVOICE TO: Dave Smith
BNSF

P.O. NUMBER:

PROJECT NAME: BNSF - Livingston

PROJECT NUMBER: 05960021*16

SAMPLED BY: Sarah Kraja

TURNAROUND REQUEST in Business Days *

Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | — | HNO_3

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH-MT Screen	VPH by MADEP w/MBTEXN	353.2 350.3	Sulfate 300.0	Iron 200.7	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	LG-13	3/9/05 1115	X	X	X	X	X	W	8	If EPH is >0.3 then Fractionate	01
2	MW-100	3/9/05 1130	X	X	X	X	X	W	8		02
3	LS-6	3/10/05 1025	X	X	X	X	X	W	8		03
4	trip blank			X							04
5											
6											
7											
8											
9											
10											

RELEASED BY: Sarah C Kraja DATE: 3/10/05
PRINT NAME: Sarah C Kraja FIRM: K/J TIME: 0850

RECEIVED BY: Demi Hardman DATE: 3-12-05
PRINT NAME: Demi Hardman FIRM: NCA TIME: 10:15

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS: Samples were not @2-6c upon receipt!

TEMP: W/O -0.6

COC REV 09/04

PAGE OF

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CASE NARRATIVE for B5C0334

Client:	Kennedy/Jenks Consultants
Project Manager:	Sarah Kraja
Project Name:	BNSF – Livingston, MT
Project Number:	0596021.16

1.0 DESCRIPTION OF CASE

Three water samples and one trip blank were received for analysis of the following: BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS, Volatile Petroleum Hydrocarbons by Montana VPH, Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Dissolved Metals by EPA 200 Series Methods, Conventional Chemistry Parameters by APHA/EPA Methods, and Anions by EPA Method 300.0.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on March 12, 2005. Sample temperature at time of receipt was 1.0 ° C, which is outside the recommended criteria of 4°C ± 2°C.

3.0 PREPARATIONS AND ANALYSIS

BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS

Due to a detection for Naphthalene above the MRL in the laboratory blank in analytical batch 5C12007 for the MT-VPH method, all of the laboratory samples were re-analyzed for Naphthalene by EPA method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Petroleum Hydrocarbons by Montana VPH

All criteria for acceptable QC measurements were met with the following exceptions:

Detection for Naphthalene above the MRL was reported for the laboratory blank in analytical batch 5C12007. The laboratory blank and associated laboratory samples have been qualified to reflect the contamination. All of the associated laboratory samples were re-analyzed by EPA Method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Dissolved Metals by EPA 200 Series Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

RECEIVED
MAR 28 2005
K/J Federal Way

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Conventional Chemistry Parameters by APHA/EPA Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Anions by EPA Method 300.0

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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18 March 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are the results of analyses for samples received by the laboratory on 03/12/05 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L-88-9	B5C0334-01	Water	03/10/05 13:05	03/12/05 10:15
L-87-6	B5C0334-02	Water	03/10/05 16:30	03/12/05 10:15
HRO-23	B5C0334-03	Water	03/10/05 18:05	03/12/05 10:15
Trip Blank	B5C0334-04	Water	03/10/05 12:00	03/12/05 10:15

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*100 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*89.5 %*	*70-130*			"	"	"	"	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
Naphthalene	**2.13**	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*99.5 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*87.0 %*	*70-130*			"	"	"	"	
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*99.5 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*91.0 %*	*70-130*			"	"	"	"	
Trip Blank (B5C0334-04) Water Sampled: 03/10/05 12:00 Received: 03/12/05 10:15									
Naphthalene	ND	1.00	ug/l	1	5C14073	03/12/05	03/12/05	EPA 8260B	
Surrogate: Toluene-d8	*98.0 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB	*96.0 %*	*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Volatile Petroleum Hydrocarbons by Montana VPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.78**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*95.0 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.8 %*	*60-140*			"	"	"	"	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.79**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*100 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*101 %*	*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Volatile Petroleum Hydrocarbons by Montana VPH

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.80**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*101 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*101 %*	*60-140*			"	"	"	"	
Trip Blank (B5C0334-04) Water Sampled: 03/10/05 12:00 Received: 03/12/05 10:15									
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l	1	5C12007	03/12/05	03/12/05	MDEP-VPH-98	
C5-C8 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND	20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND	20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND	20.0	"	"	"	"	"	"	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Naphthalene	**1.88**	1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*94.0 %*	*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*97.5 %*	*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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907.563.9200 fax 907.563.9210

Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*95.3 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*89.8 %*	*50-150*			"	"	"	"	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*95.3 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*89.9 %*	*50-150*			"	"	"	"	
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l	1	5C15005	03/15/05	03/16/05	MDEP-EPH-98	
Surrogate: 1-Chlorooctadecane	*91.9 %*	*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*84.4 %*	*50-150*			"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Dissolved Metals by EPA 200 Series Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
Iron	ND	0.150	mg/l	1	5C03046	03/14/05	03/14/05	EPA 200.7	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Conventional Chemistry Parameters by APHA/EPA Methods

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
Ammonia-Nitrogen	**1.00**	0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.596**	0.0100	"	"	5C15060	03/15/05	03/15/05	EPA 353.2	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C14069	03/14/05	03/14/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.795**	0.0100	"	"	5C15060	03/15/05	03/15/05	EPA 353.2	
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
Ammonia-Nitrogen	ND	0.100	mg/l as N	1	5C16056	03/16/05	03/16/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.647**	0.0100	"	"	5C15061	03/15/05	03/15/05	EPA 353.2	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Anions by EPA Method 300.0

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-9 (B5C0334-01) Water Sampled: 03/10/05 13:05 Received: 03/12/05 10:15									
Sulfate	**28.5**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
L-87-6 (B5C0334-02) Water Sampled: 03/10/05 16:30 Received: 03/12/05 10:15									
Sulfate	**36.2**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	
HRO-23 (B5C0334-03) Water Sampled: 03/10/05 18:05 Received: 03/12/05 10:15									
Sulfate	**33.9**	2.00	mg/l	5	5C15057	03/14/05	03/14/05	EPA 300.0	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14073: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C14073-BLK1)										
Naphthalene	ND	1.00	ug/l							
Surrogate: Toluene-d8	*19.8*		"	*20.0*		*99.0*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
LCS (5C14073-BS1)										
Naphthalene	29.7	1.00	ug/l	30.0		99.0	80-120			
Surrogate: Toluene-d8	*20.1*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*18.9*		"	*20.0*		*94.5*	*70-130*			
LCS Dup (5C14073-BSD1)										
Naphthalene	31.2	1.00	ug/l	30.0		104	80-120	4.93	20	
Surrogate: Toluene-d8	*20.0*		"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*19.2*		"	*20.0*		*96.0*	*70-130*			
Matrix Spike (5C14073-MS1)					**Source: B5C0314-01**					
Naphthalene	32.3	1.00	ug/l	30.0	0.00	108	60-140			
Surrogate: Toluene-d8	*20.8*		"	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*18.0*		"	*20.0*		*90.0*	*70-130*			
Matrix Spike Dup (5C14073-MSD1)					**Source: B5C0314-01**					
Naphthalene	32.4	1.00	ug/l	30.0	0.00	108	60-140	0.309	30	
Surrogate: Toluene-d8	*20.3*		"	*20.0*		*102*	*70-130*			
Surrogate: 4-BFB	*18.3*		"	*20.0*		*91.5*	*70-130*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
Blank (5C12007-BLK1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND	40.0	ug/l							
C5-C8 Aliphatics	ND	20.0	"							
C9-C12 Aliphatics	ND	20.0	"							
C9-C10 Aromatics	ND	20.0	"							
C5-C8 Aliphatics/Adjusted	ND	20.0	"							
C9-C12 Aliphatics/Adjusted	ND	20.0	"							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Naphthalene	1.97	1.00	"							B, X
Surrogate: 4-BFB (FID)	*60.3*		"	*60.0*		*100*	*60-140*			
Surrogate: 4-BFB (PID)	*57.0*		"	*60.0*		*95.0*	*60-140*			
LCS (5C12007-BS1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1200	40.0	ug/l	1200		100	60-140			
Surrogate: 4-BFB (FID)	*63.8*		"	*60.0*		*106*	*60-140*			
Surrogate: 4-BFB (PID)	*60.1*		"	*60.0*		*100*	*60-140*			
LCS Dup (5C12007-BSD1)										
TVPH (Total Vol. Petroleum Hydrocarbons)	1240	40.0	ug/l	1200		103	60-140	3.28	40	
Surrogate: 4-BFB (FID)	*63.2*		"	*60.0*		*105*	*60-140*			
Surrogate: 4-BFB (PID)	*59.3*		"	*60.0*		*98.8*	*60-140*			
Matrix Spike (5C12007-MS1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1270	40.0	ug/l	1200	ND	106	60-140			
Surrogate: 4-BFB (FID)	*61.7*		"	*60.0*		*103*	*60-140*			
Surrogate: 4-BFB (PID)	*60.8*		"	*60.0*		*101*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C12007: Prepared 03/12/05 Using EPA 5030B (P/T)										
Matrix Spike Dup (5C12007-MSD1)					**Source: B5C0333-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1260	40.0	ug/l	1200	ND	105	60-140	0.791	40	
Surrogate: 4-BFB (FID)	*65.3*		"	*60.0*		*109*	*60-140*			
Surrogate: 4-BFB (PID)	*62.0*		"	*60.0*		*103*	*60-140*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15005: Prepared 03/15/05 Using EPA 3520C										
Blank (5C15005-BLK1)										
TEH (Total Ext. Petroleum Hydrocarbons)	ND	300	ug/l							
Surrogate: 1-Chlorooctadecane	*364*		"	*400*		*91.0*	*50-150*			
Surrogate: o-Terphenyl	*337*		"	*400*		*84.2*	*50-150*			
LCS (5C15005-BS1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1160	300	ug/l	1550		74.8	50-150			
Surrogate: 1-Chlorooctadecane	*440*		"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*358*		"	*400*		*89.5*	*50-150*			
LCS Dup (5C15005-BSD1)										
TEH (Total Ext. Petroleum Hydrocarbons)	1180	300	ug/l	1550		76.1	50-150	1.71	40	
Surrogate: 1-Chlorooctadecane	*442*		"	*400*		*110*	*50-150*			
Surrogate: o-Terphenyl	*358*		"	*400*		*89.5*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Dissolved Metals by EPA 200 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C03046: Prepared 03/03/05 Using EPA 200 Series										
Blank (5C03046-BLK1)										
Iron	ND	0.150	mg/l							
Blank (5C03046-BLK2)										
Iron	ND	0.150	mg/l							
LCS (5C03046-BS1)										
Iron	5.35	0.150	mg/l	5.00		107	85-115			
LCS Dup (5C03046-BSD1)										
Iron	5.28	0.150	mg/l	5.00		106	85-115	1.32	20	
Duplicate (5C03046-DUP1)					**Source: B5C0071-02**					
Iron	ND	0.150	mg/l		ND			NA	20	
Matrix Spike (5C03046-MS1)					**Source: B5C0071-02**					
Iron	5.26	0.150	mg/l	5.00	ND	105	80-120			
Matrix Spike (5C03046-MS2)					**Source: B5C0314-01**					
Iron	5.31	0.150	mg/l	5.00	ND	106	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C14069: Prepared 03/14/05 Using General Preparation										
Blank (5C14069-BLK1)										
Ammonia-Nitrogen	ND	0.100	mg/l as N							
LCS (5C14069-BS1)										
Ammonia-Nitrogen	4.92	0.100	mg/l as N	5.00		98.4	90-110			
LCS Dup (5C14069-BSD1)										
Ammonia-Nitrogen	4.88	0.100	mg/l as N	5.00		97.6	90-110	0.816	20	
Matrix Spike (5C14069-MS1)					**Source: B5C0314-01**					
Ammonia-Nitrogen	5.04	0.100	mg/l as N	5.00	0.270	95.4	75-125			
Batch 5C15060: Prepared 03/15/05 Using General Preparation										
Blank (5C15060-BLK1)										
Nitrate/Nitrite-Nitrogen	ND	0.0100	mg/l as N							
LCS (5C15060-BS1)										
Nitrate/Nitrite-Nitrogen	0.969	0.0100	mg/l as N	1.00		96.9	90-110			
LCS Dup (5C15060-BSD1)										
Nitrate/Nitrite-Nitrogen	0.971	0.0100	mg/l as N	1.00		97.1	90-110	0.206	20	
Matrix Spike (5C15060-MS1)					**Source: B5C0189-01**					
Nitrate/Nitrite-Nitrogen	1.14	0.0100	mg/l as N	0.250	0.881	104	36-150			
Matrix Spike Dup (5C15060-MSD1)					**Source: B5C0189-01**					
Nitrate/Nitrite-Nitrogen	1.15	0.0100	mg/l as N	0.250	0.881	108	36-150	0.873	20	

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15061: Prepared 03/15/05 Using General Preparation										
Blank (5C15061-BLK1)										
Nitrate/Nitrite-Nitrogen	ND	0.0100	mg/l as N							
LCS (5C15061-BS1)										
Nitrate/Nitrite-Nitrogen	1.00	0.0100	mg/l as N	1.00		100	90-110			
LCS Dup (5C15061-BSD1)										
Nitrate/Nitrite-Nitrogen	1.02	0.0100	mg/l as N	1.00		102	90-110	1.98	20	
Matrix Spike (5C15061-MS1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.15	0.0100	mg/l as N	0.250	0.893	103	36-150			
Matrix Spike Dup (5C15061-MSD1)					**Source: B5C0278-01**					
Nitrate/Nitrite-Nitrogen	1.14	0.0100	mg/l as N	0.250	0.893	98.8	36-150	0.873	20	
Batch 5C16056: Prepared 03/16/05 Using General Preparation										
Blank (5C16056-BLK1)										
Ammonia-Nitrogen	ND	0.100	mg/l as N							
LCS (5C16056-BS1)										
Ammonia-Nitrogen	4.79	0.100	mg/l as N	5.00		95.8	90-110			
LCS Dup (5C16056-BSD1)										
Ammonia-Nitrogen	4.83	0.100	mg/l as N	5.00		96.6	90-110	0.832	20	
Duplicate (5C16056-DUP1)					**Source: B5C0334-03**					
Ammonia-Nitrogen	0.0500	0.100	mg/l as N		0.0500			0.00	30	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C16056: Prepared 03/16/05 Using General Preparation										
Matrix Spike (5C16056-MS1)					**Source: B5C0334-03**					
Ammonia-Nitrogen	5.03	0.100	mg/l as N	5.00	0.0500	99.6	75-125			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/18/05 10:50

Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15057: Prepared 03/14/05 Using General Preparation										
Blank (5C15057-BLK1)										
Sulfate	ND	0.400	mg/l							
LCS (5C15057-BS1)										
Sulfate	5.81	0.400	mg/l	6.00		96.8	90-110			
LCS Dup (5C15057-BSD1)										
Sulfate	5.97	0.400	mg/l	6.00		99.5	90-110	2.72	20	
Duplicate (5C15057-DUP1)					**Source: B5C0103-01**					
Sulfate	8.10	0.400	mg/l		8.26			1.96	25	
Duplicate (5C15057-DUP2)					**Source: B5C0326-01**					
Sulfate	1.13	0.400	mg/l		1.17			3.48	25	
Matrix Spike (5C15057-MS1)					**Source: B5C0103-01**					
Sulfate	13.8	0.800	mg/l	6.00	8.26	92.3	58-135			
Matrix Spike (5C15057-MS2)					**Source: B5C0326-01**					
Sulfate	6.68	0.400	mg/l	6.00	1.17	91.8	58-135			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/18/05 10:50

Notes and Definitions

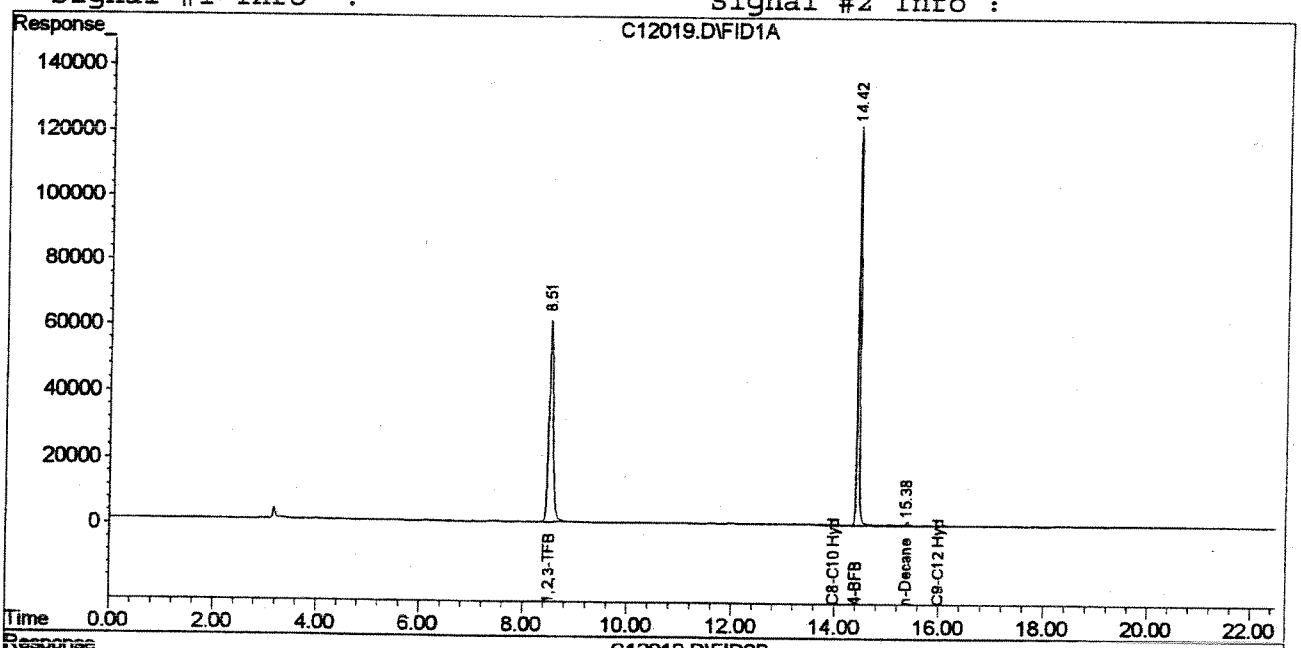
B	Analyte detected in the method blank.
X	See case narrative.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

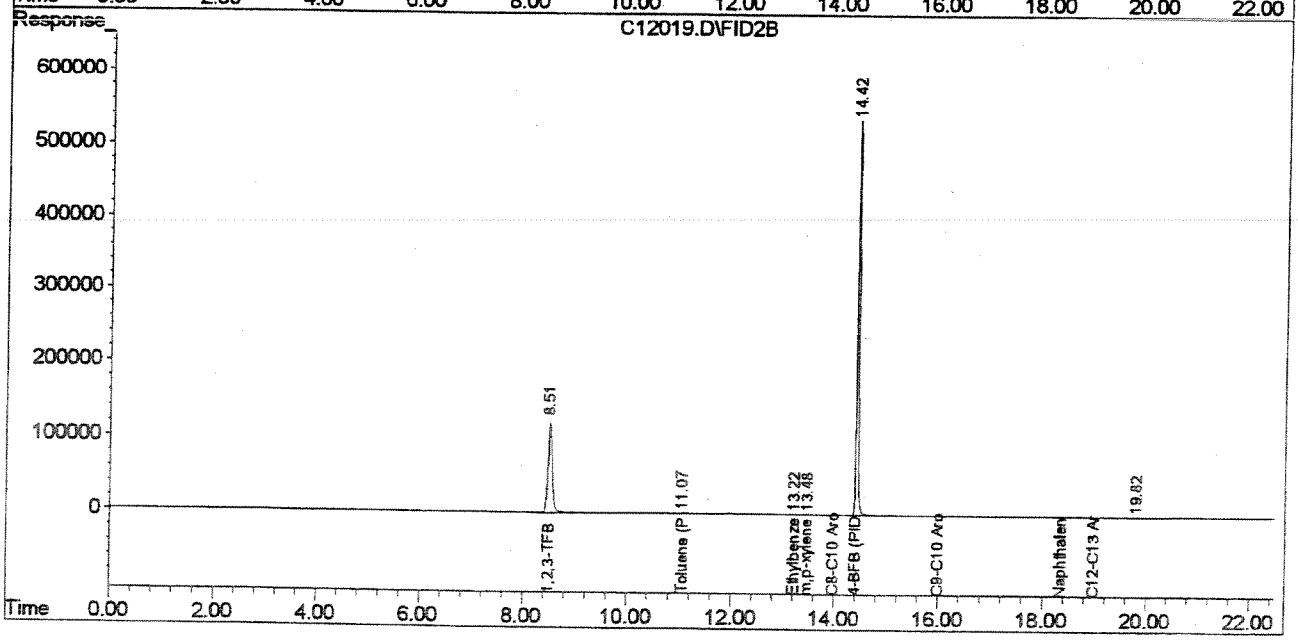
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12019.D\FID1A.CH Vial: 18
Signal #2 : D:\HPCHEM\3\DATA\031205\C12019.D\FID2B.CH
Acq On : 12 Mar 2005 20:55 Operator: sks
Sample : b5c0334-01 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:53 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



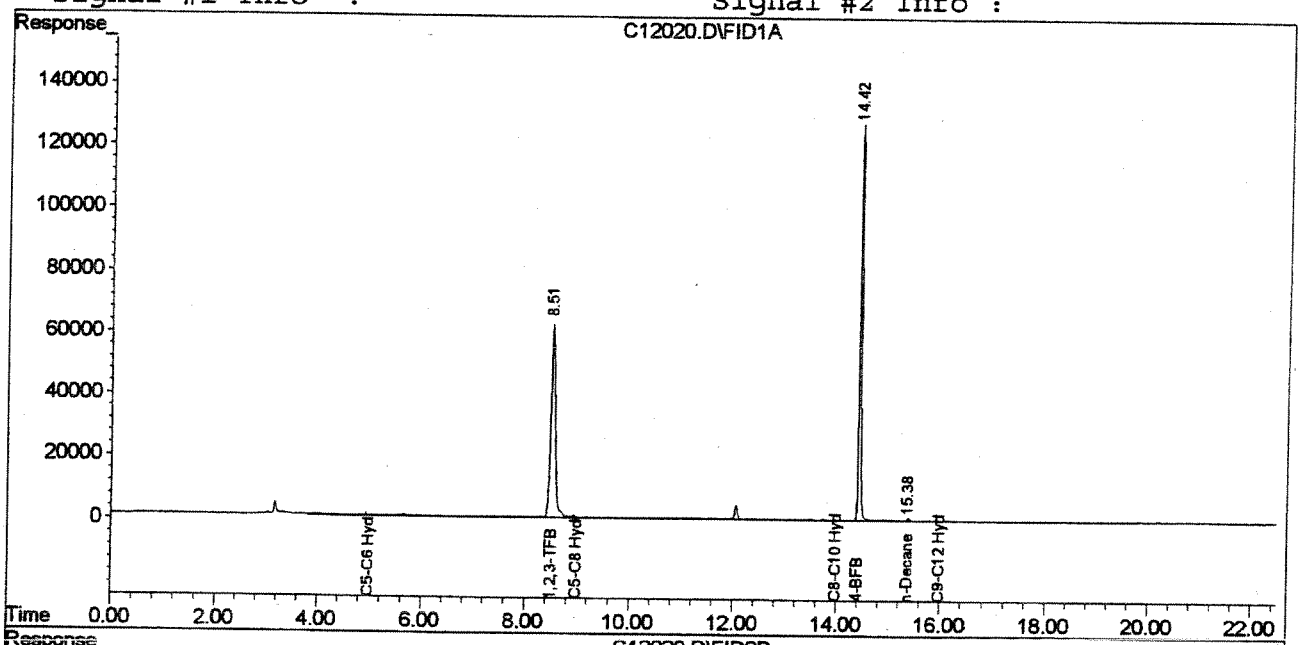


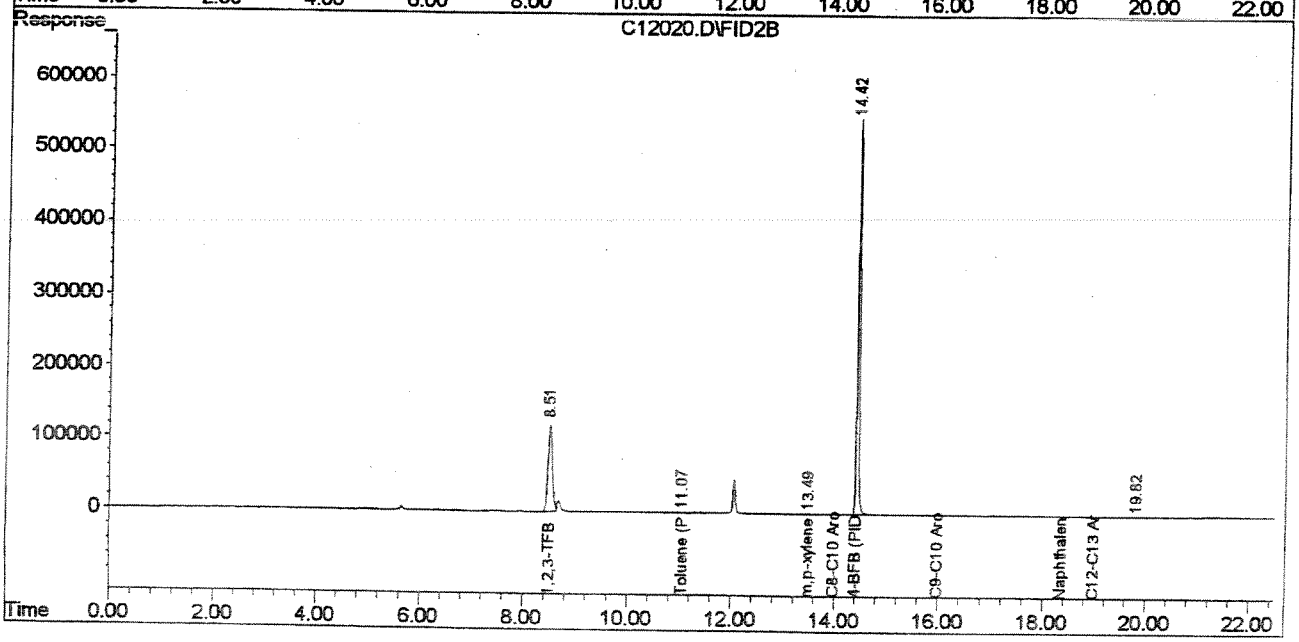
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12020.D\FID1A.CH Vial: 19
Signal #2 : D:\HPCHEM\3\DATA\031205\C12020.D\FID2B.CH
Acq On : 12 Mar 2005 21:26 Operator: sks
Sample : b5c0334-02 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:54 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



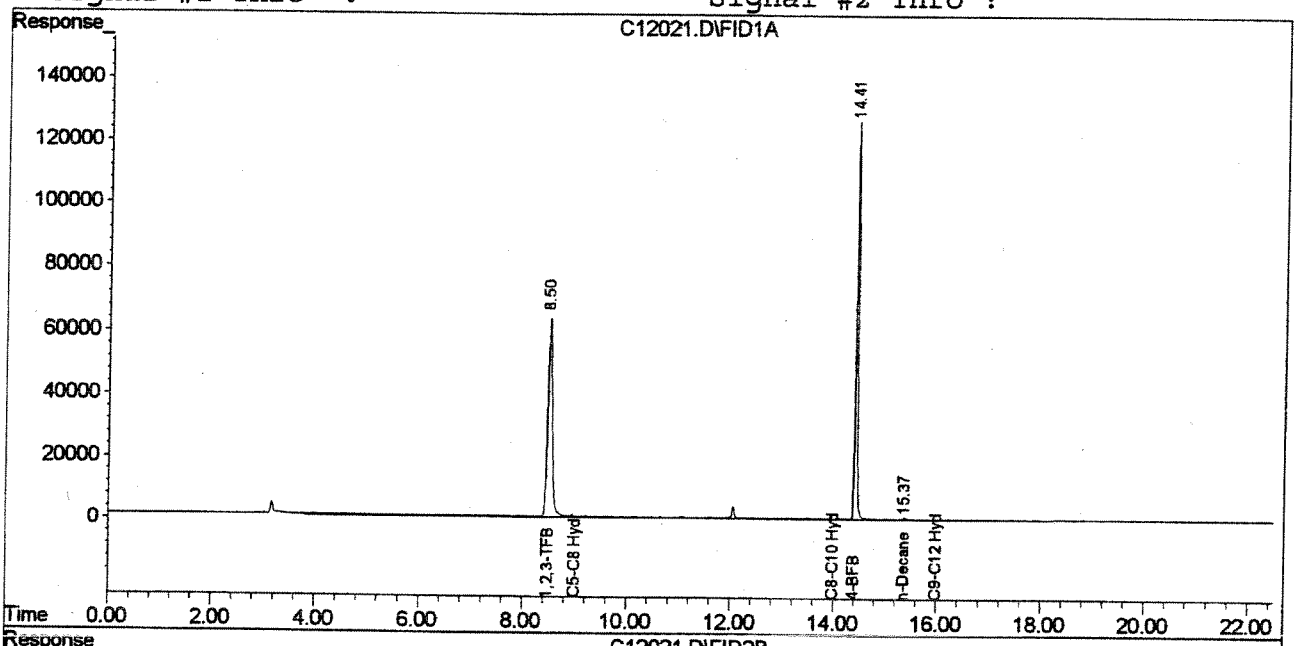


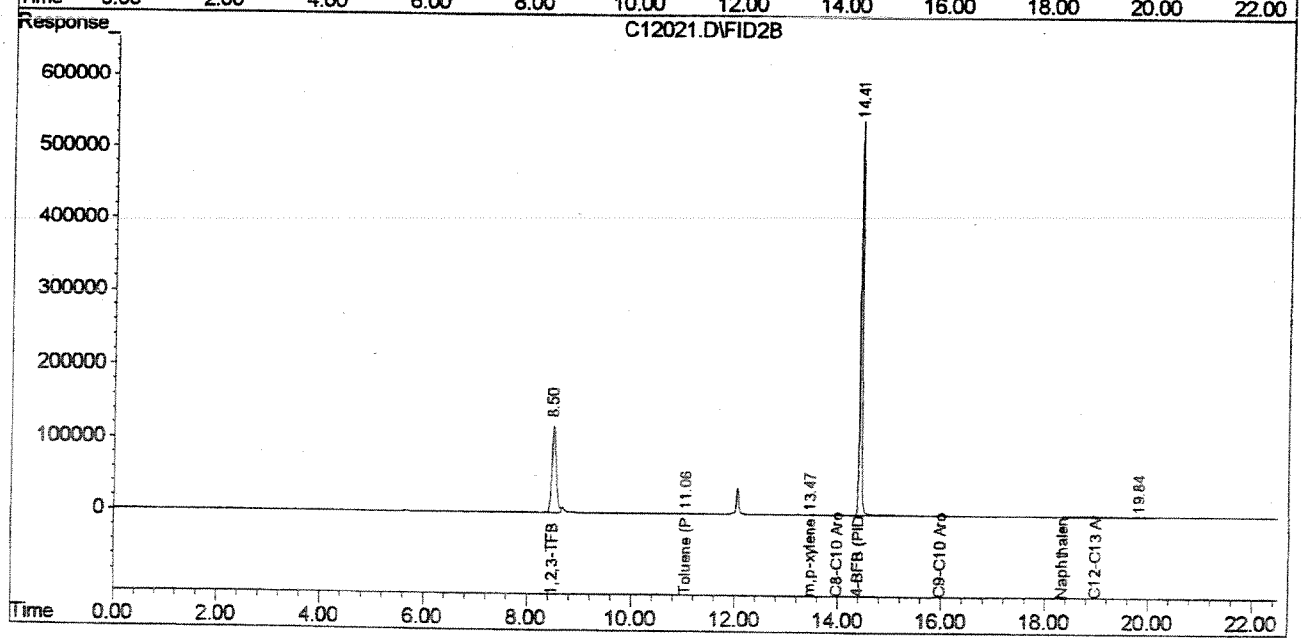
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12021.D\FID1A.CH Vial: 20
Signal #2 : D:\HPCHEM\3\DATA\031205\C12021.D\FID2B.CH
Acq On : 12 Mar 2005 21:56 Operator: sks
Sample : b5c0334-03 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:54 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



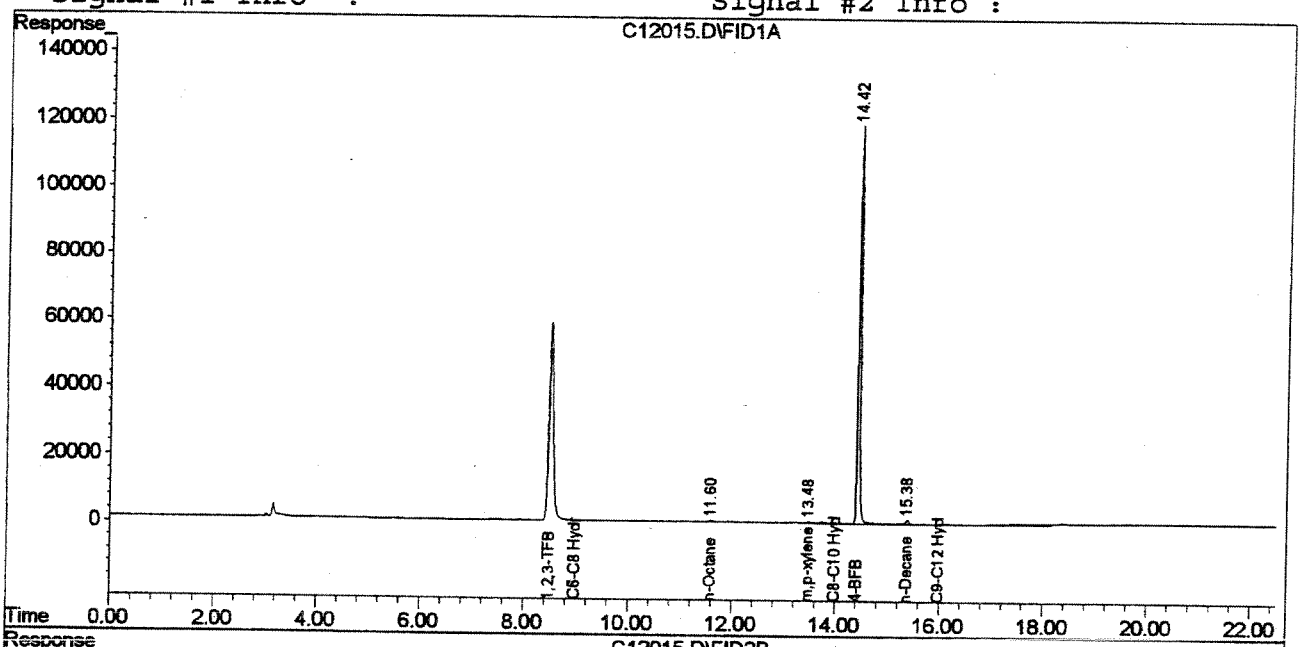


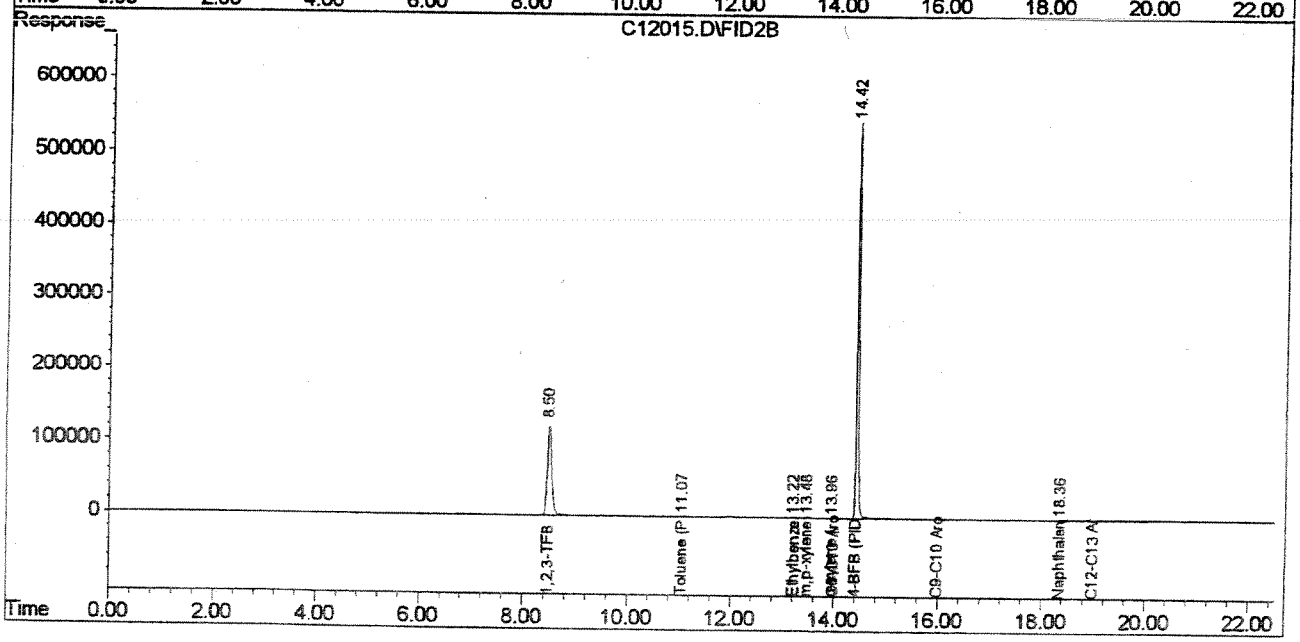
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031205\C12015.D\FID1A.CH Vial: 14
Signal #2 : D:\HPCHEM\3\DATA\031205\C12015.D\FID2B.CH
Acq On : 12 Mar 2005 18:52 Operator: sks
Sample : b5c0334-04 Inst : GC #6
Misc : 1x 5 mL tb Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 14 18:51 2005 Quant Results File: VPC1005.RES

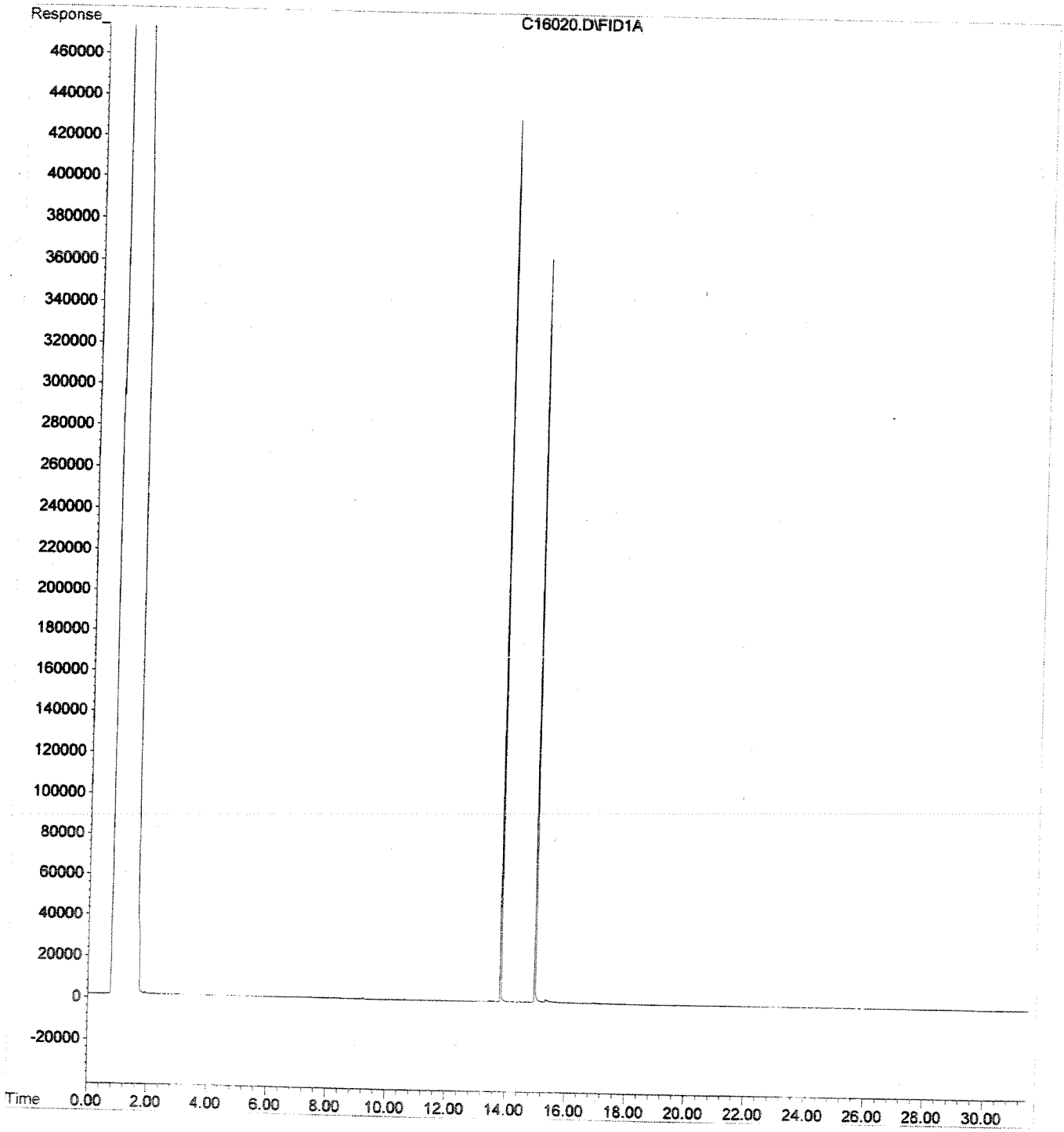
Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

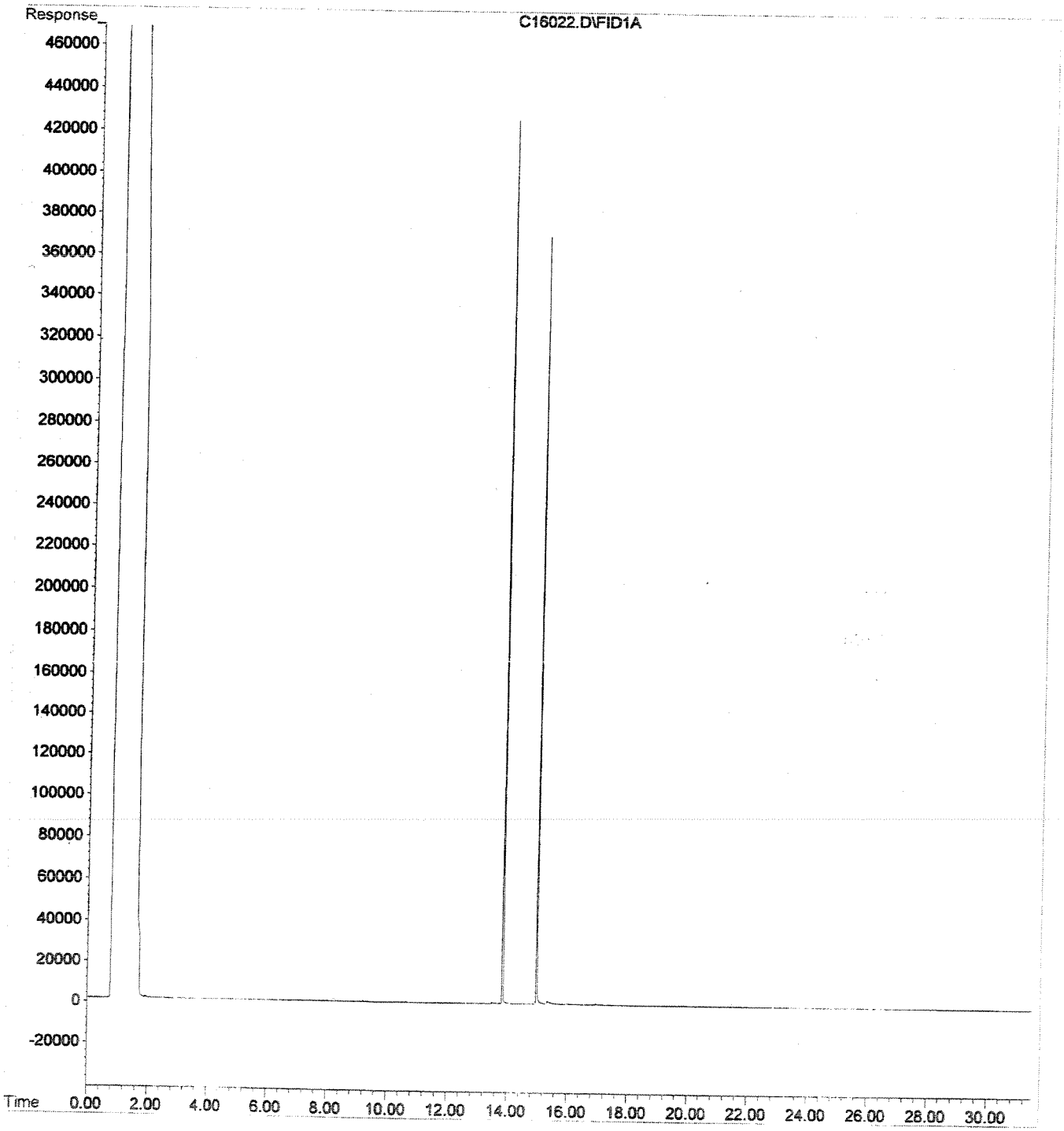




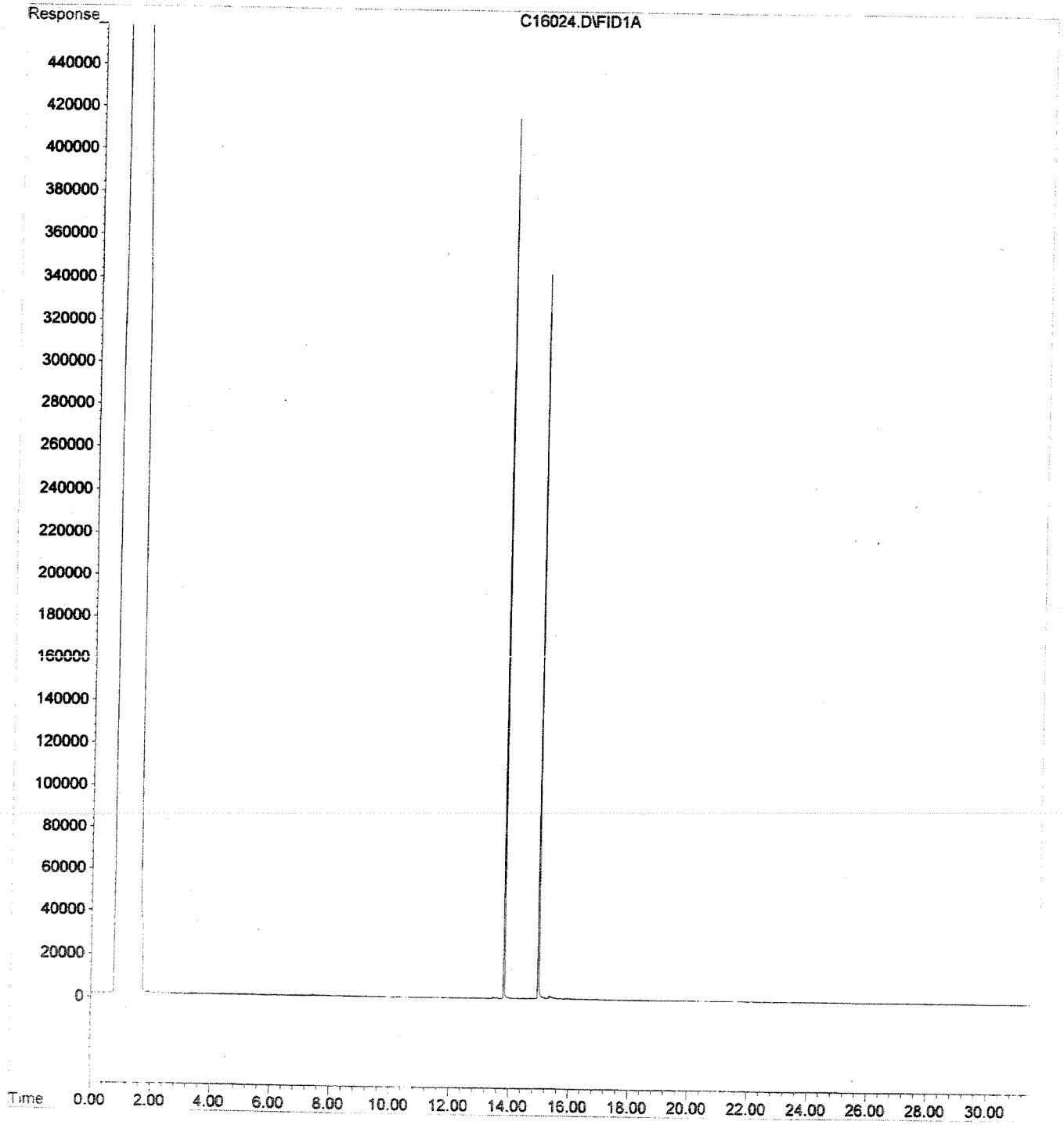
File : D:\HPCHEM\1\DATA\031605\C16020.D
Operator : DEB
Acquired : 16 Mar 2005 20:46 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0334-01
Misc Info : 1X MT-EPH Screen Water
Vial Number: 10



File : D:\HPCHEM\1\DATA\031605\C16022.D
Operator : DEB
Acquired : 16 Mar 2005 21:27 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0334-02
Misc Info : 1X MT-EPH Screen Water
Vial Number: 11



File : D:\HPCHEM\1\DATA\031605\C16024.D
Operator : DEB
Acquired : 16 Mar 2005 22:08 using AcqMethod L0804L3F.M
Instrument : GC-3
Sample Name: B5C0334-03
Misc Info : 1X MT-EPH Screen Water
Vial Number: 12



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CHAIN OF CUSTODY REPORT

Work Order #: B5C0334

NCA CLIENT: Kennedy Henks Consultants - BNSF
REPORT TO: Sarah Kraja - Kennedy Henks
ADDRESS: 32001 32nd Ave S Suite 100 Federal Way WA 98001
PHONE: 253 874 0555 FAX:

INVOICE TO: Dave Smith BNSF
P.O. NUMBER:

PROJECT NAME: BNSF - Livingston
PROJECT NUMBER: 0596021*16
SAMPLED BY: Sarah Kraja

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | - | HNO_3

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH-MT Screen	VPH by MADEPW MBTEX	3532 350.3	Sulfate 300.0	Iron 200.7	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-88-9	3/10/05 1305	X	X	X	X	X	W	8	If EPH is >0.3 then	01
2	L-87-6	3/10/05 1630	X	X	X	X	X	W	8	fractionate	02
3	HRO-23	3/10/05 1805	X	X	X	X	X	W	8	↓	03
4	trip blank			X							04
5											
6											
7											
8											
9											
10											

RELEASED BY: Sarah C Kraja DATE: 3/~~10~~ 11st/05
PRINT NAME: Sarah Kraja FIRM: K/T TIME: 530

RECEIVED BY: Dennis Hardmore DATE: 3/12/05
PRINT NAME: Dennis Hardmore FIRM: NCA TIME: 10:15

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:
Samples were not @2-6c upon receipt!

TEMP: 1.0

COC REV 09/04

W10

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CASE NARRATIVE for B5C0401

Client:	Kennedy/Jenks Consultants
Project Manager:	Sarah Kraja
Project Name:	BNSF – Livingston, MT
Project Number:	0596021.16

1.0 DESCRIPTION OF CASE

Three water samples and one trip blank were received for analysis of the following: BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS, Volatile Petroleum Hydrocarbons by Montana VPH, Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Dissolved Metals by EPA 200 Series Methods, Conventional Chemistry Parameters by APHA/EPA Methods, Anions by EPA Method 300.0, and Volatile Organic Compounds in Drinking Water per EPA 524.2.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on March 15, 2005. Sample temperature at time of receipt was 5.6 ° C. The analysis for Volatile Organic Compounds in Drinking Water per EPA 524.2 was subcontracted to North Creek Analytical – Portland.

3.0 PREPARATIONS AND ANALYSIS

BTEX, MTBE and Naphthalene by WDOE Interim TPH policy Method using GC/MS

Due to a detection for Naphthalene above the MRL in the laboratory blank in analytical batch 5C15071 for the MT-VPH method, all of the laboratory samples were re-analyzed for Naphthalene by EPA method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Petroleum Hydrocarbons by Montana VPH

All criteria for acceptable QC measurements were met with the following exceptions:

Detection for Naphthalene above the MRL was reported for the laboratory blank in analytical batch 5C15071. The laboratory blank and associated laboratory samples have been qualified to reflect the contamination. All of the associated laboratory samples were re-analyzed by EPA Method 8260B.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Dissolved Metals by EPA 200 Series Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

RECEIVED
MAR 28 2005
K/J Federal Way

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Conventional Chemistry Parameters by APHA/EPA Methods

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Anions by EPA Method 300.0

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds in Drinking Water per EPA 524.2

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Robert Greer
Project Manager
North Creek Analytical

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23 March 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are the results of analyses for samples received by the laboratory on 03/15/05 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RW-8a	B5C0401-01	Water	03/11/05 11:45	03/15/05 09:30
RW-8b	B5C0401-02	Water	03/11/05 16:50	03/15/05 09:30
Trip Blank	B5C0401-03	Water	03/11/05 12:00	03/15/05 09:30
Purge Waterdrum	B5C0401-04	Water	03/11/05 22:00	03/15/05 09:30

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
Naphthalene	ND		1.00	ug/l	1	5C17051	03/17/05	03/17/05	EPA 8260B	
Surrogate: Toluene-d8	*98.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*93.0 %*		*70-130*			"	"	"	"	
RW-8b (B5C0401-02) Water Sampled: 03/11/05 16:50 Received: 03/15/05 09:30										
Naphthalene	ND		1.00	ug/l	1	5C17051	03/17/05	03/17/05	EPA 8260B	
Surrogate: Toluene-d8	*99.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*92.5 %*		*70-130*			"	"	"	"	
Trip Blank (B5C0401-03) Water Sampled: 03/11/05 12:00 Received: 03/15/05 09:30										
Naphthalene	ND		1.00	ug/l	1	5C17051	03/17/05	03/17/05	EPA 8260B	
Surrogate: Toluene-d8	*99.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*90.0 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Petroleum Hydrocarbons by Montana VPH
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C15071	03/15/05	03/16/05	MDEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.79**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*92.2 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*104 %*		*60-140*			"	"	"	"	
RW-8b (B5C0401-02) Water Sampled: 03/11/05 16:50 Received: 03/15/05 09:30										
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C15071	03/15/05	03/16/05	MDEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.76**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*94.3 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*106 %*		*60-140*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Petroleum Hydrocarbons by Montana VPH
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (B5C0401-03) Water	**Sampled: 03/11/05 12:00**		**Received: 03/15/05 09:30**							
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l	1	5C15071	03/15/05	03/16/05	MDEP-VPH-9	
C5-C8 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics	ND		20.0	"	"	"	"	"	"	
C9-C10 Aromatics	ND		20.0	"	"	"	"	"	"	
C5-C8 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
C9-C12 Aliphatics/Adjusted	ND		20.0	"	"	"	"	"	"	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND		1.00	"	"	"	"	"	"	
Naphthalene	**1.90**		1.00	"	"	"	"	"	"	B, X
Surrogate: 4-BFB (FID)	*86.8 %*		*60-140*			"	"	"	"	
Surrogate: 4-BFB (PID)	*103 %*		*60-140*			"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l	1	5C16005	03/16/05	03/18/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*95.1 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*86.8 %*		*50-150*			"	"	"	"	
RW-8b (B5C0401-02) Water Sampled: 03/11/05 16:50 Received: 03/15/05 09:30										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l	1	5C16005	03/16/05	03/18/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*92.3 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*85.6 %*		*50-150*			"	"	"	"	
Purge Waterdrum (B5C0401-04) Water Sampled: 03/11/05 22:00 Received: 03/15/05 09:30										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l	1	5C16005	03/16/05	03/18/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*92.1 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*85.5 %*		*50-150*			"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Dissolved Metals by EPA 200 Series Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
Iron	ND		0.150	mg/l	1	5C17028	03/17/05	03/17/05	EPA 200.7	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
Ammonia-Nitrogen	**0.110**		0.100	mg/l as N	1	5C16056	03/16/05	03/16/05	EPA 350.3	
Nitrate/Nitrite-Nitrogen	**0.645**		0.0100	"	"	5C17052	03/17/05	03/17/05	EPA 353.2	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW-8a (B5C0401-01) Water Sampled: 03/11/05 11:45 Received: 03/15/05 09:30										
Sulfate	**36.2**		4.00	mg/l	10	5C18036	03/17/05	03/17/05	EPA 300.0	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purge Waterdrum (B5C0401-04) Water Sampled: 03/11/05 22:00 Received: 03/15/05 09:30										
Benzene	ND	0.110	0.500	ug/l	1	5030736	03/17/05	03/17/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purge Waterdrum (B5C0401-04) Water Sampled: 03/11/05 22:00 Received: 03/15/05 09:30										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5030736	03/17/05	03/17/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*105 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*105 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*85.0 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

BTEX, MTBE and Naphthalene by WDOE Interim TPH Policy Method using GC/MS - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C17051: Prepared 03/17/05 Using EPA 5030B (P/T)											
Blank (5C17051-BLK1)											
Naphthalene	ND		1.00	ug/l							
Surrogate: Toluene-d8	*19.7*			"	*20.0*		*98.5 %*	*70-130*			
Surrogate: 4-BFB	*19.2*			"	*20.0*		*96.0 %*	*70-130*			
LCS (5C17051-BS1)											
Naphthalene	29.7		1.00	ug/l	30.0		99.0	80-120			
Surrogate: Toluene-d8	*19.9*			"	*20.0*		*99.5 %*	*70-130*			
Surrogate: 4-BFB	*18.8*			"	*20.0*		*94.0 %*	*70-130*			
LCS Dup (5C17051-BSD1)											
Naphthalene	33.3		1.00	ug/l	30.0		111	80-120	11.4	20	
Surrogate: Toluene-d8	*20.4*			"	*20.0*		*102 %*	*70-130*			
Surrogate: 4-BFB	*18.6*			"	*20.0*		*93.0 %*	*70-130*			
Matrix Spike (5C17051-MS1)						**Source: B5C0401-01**					
Naphthalene	31.4		1.00	ug/l	30.0	0.00	105	60-140			
Surrogate: Toluene-d8	*20.5*			"	*20.0*		*102 %*	*70-130*			
Surrogate: 4-BFB	*18.4*			"	*20.0*		*92.0 %*	*70-130*			
Matrix Spike Dup (5C17051-MSD1)						**Source: B5C0401-01**					
Naphthalene	30.2		1.00	ug/l	30.0	0.00	101	60-140	3.90	30	
Surrogate: Toluene-d8	*20.4*			"	*20.0*		*102 %*	*70-130*			
Surrogate: 4-BFB	*18.9*			"	*20.0*		*94.5 %*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15071: Prepared 03/15/05 Using EPA 5030B (P/T)											
Blank (5C15071-BLK1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	ND		40.0	ug/l							
C5-C8 Aliphatics	ND		20.0	"							
C9-C12 Aliphatics	ND		20.0	"							
C9-C10 Aromatics	ND		20.0	"							
C5-C8 Aliphatics/Adjusted	ND		20.0	"							
C9-C12 Aliphatics/Adjusted	ND		20.0	"							
Benzene	ND		0.500	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		1.00	"							
Methyl tert-butyl ether	ND		1.00	"							
Naphthalene	1.79		1.00	"							
Surrogate: 4-BFB (FID)	*59.9*			"	*60.0*		*99.8 %*	*60-140*			
Surrogate: 4-BFB (PID)	*61.6*			"	*60.0*		*103 %*	*60-140*			
LCS (5C15071-BS1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1130		40.0	ug/l	1200		94.2	60-140			
Surrogate: 4-BFB (FID)	*62.9*			"	*60.0*		*105 %*	*60-140*			
Surrogate: 4-BFB (PID)	*63.7*			"	*60.0*		*106 %*	*60-140*			
LCS Dup (5C15071-BSD1)											
TVPH (Total Vol. Petroleum Hydrocarbons)	1170		40.0	ug/l	1200		97.5	60-140	3.48	40	
Surrogate: 4-BFB (FID)	*64.2*			"	*60.0*		*107 %*	*60-140*			
Surrogate: 4-BFB (PID)	*64.5*			"	*60.0*		*108 %*	*60-140*			
Matrix Spike (5C15071-MS1)						**Source: B5C0401-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1240		40.0	ug/l	1200	ND	103	60-140			
Surrogate: 4-BFB (FID)	*59.9*			"	*60.0*		*99.8 %*	*60-140*			
Surrogate: 4-BFB (PID)	*63.5*			"	*60.0*		*106 %*	*60-140*			

North Creek Analytical - Bothell

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.

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Petroleum Hydrocarbons by Montana VPH - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C15071: Prepared 03/15/05 Using EPA 5030B (P/T)											
Matrix Spike Dup (5C15071-MSD1)						**Source: B5C0401-01**					
TVPH (Total Vol. Petroleum Hydrocarbons)	1250		40.0	ug/l	1200	ND	104	60-140	0.803	40	
Surrogate: 4-BFB (FID)	*62.7*			"	*60.0*		*104 %*	*60-140*			
Surrogate: 4-BFB (PID)	*63.5*			"	*60.0*		*106 %*	*60-140*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C16005: Prepared 03/16/05 Using EPA 3520C											
Blank (5C16005-BLK1)											
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l							
Surrogate: 1-Chlorooctadecane	*360*			"	*400*		*90.0 %*	*50-150*			
Surrogate: o-Terphenyl	*337*			"	*400*		*84.2 %*	*50-150*			
LCS (5C16005-BS1)											
TEH (Total Ext. Petroleum Hydrocarbons)	1210		300	ug/l	1550		78.1	50-150			
Surrogate: 1-Chlorooctadecane	*462*			"	*400*		*116 %*	*50-150*			
Surrogate: o-Terphenyl	*369*			"	*400*		*92.2 %*	*50-150*			
LCS Dup (5C16005-BSD1)											
TEH (Total Ext. Petroleum Hydrocarbons)	967		300	ug/l	1550		62.4	50-150	22.3	40	
Surrogate: 1-Chlorooctadecane	*444*			"	*400*		*111 %*	*50-150*			
Surrogate: o-Terphenyl	*331*			"	*400*		*82.8 %*	*50-150*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Dissolved Metals by EPA 200 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C17028: Prepared 03/17/05 Using EPA 200 Series											
Blank (5C17028-BLK1)											
Iron	ND		0.150	mg/l							
LCS (5C17028-BS1)											
Iron	5.85		0.150	mg/l	5.00		117	80-120			
LCS Dup (5C17028-BSD1)											
Iron	5.82		0.150	mg/l	5.00		116	80-120	0.514	20	
Duplicate (5C17028-DUP1)						**Source: B5C0401-01**					
Iron	ND		0.150	mg/l		ND			NA	20	
Matrix Spike (5C17028-MS1)						**Source: B5C0401-01**					
Iron	6.26		0.150	mg/l	5.00	ND	125	80-120			Q-02
Matrix Spike (5C17028-MS2)						**Source: B5C0435-02**					
Iron	5.96		0.150	mg/l	5.00	0.0782	118	80-120			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C16056: Prepared 03/16/05 Using General Preparation											
Blank (5C16056-BLK1)											
Ammonia-Nitrogen	ND		0.100	mg/l as N							
LCS (5C16056-BS1)											
Ammonia-Nitrogen	4.79		0.100	mg/l as N	5.00		95.8	90-110			
LCS Dup (5C16056-BSD1)											
Ammonia-Nitrogen	4.83		0.100	mg/l as N	5.00		96.6	90-110	0.832	20	
Duplicate (5C16056-DUP1)						**Source: B5C0334-03**					
Ammonia-Nitrogen	0.0500		0.100	mg/l as N		0.0500			0.00	30	
Matrix Spike (5C16056-MS1)						**Source: B5C0334-03**					
Ammonia-Nitrogen	5.03		0.100	mg/l as N	5.00	0.0500	99.6	75-125			
Batch 5C17052: Prepared 03/17/05 Using General Preparation											
Blank (5C17052-BLK1)											
Nitrate/Nitrite-Nitrogen	ND		0.0100	mg/l as N							
LCS (5C17052-BS1)											
Nitrate/Nitrite-Nitrogen	1.07		0.0100	mg/l as N	1.00		107	90-110			
LCS Dup (5C17052-BSD1)											
Nitrate/Nitrite-Nitrogen	1.06		0.0100	mg/l as N	1.00		106	90-110	0.939	20	
Matrix Spike (5C17052-MS1)						**Source: B5C0401-01**					
Nitrate/Nitrite-Nitrogen	0.898		0.0100	mg/l as N	0.250	0.645	101	36-150			

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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C17052: Prepared 03/17/05 Using General Preparation											
Matrix Spike Dup (5C17052-MSD1)						**Source: B5C0401-01**					
Nitrate/Nitrite-Nitrogen	0.907		0.0100	mg/l as N	0.250	0.645	105	36-150	0.997	20	

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Anions by EPA Method 300.0 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5C18036: Prepared 03/17/05 Using General Preparation											
Blank (5C18036-BLK1)											
Sulfate	ND		0.400	mg/l							
LCS (5C18036-BS1)											
Sulfate	6.23		0.400	mg/l	6.00		104	90-110			
LCS Dup (5C18036-BSD1)											
Sulfate	6.24		0.400	mg/l	6.00		104	90-110	0.160	20	
Duplicate (5C18036-DUP1)						**Source: B5C0357-01**					
Sulfate	2.82		0.400	mg/l		2.70			4.35	25	
Matrix Spike (5C18036-MS1)						**Source: B5C0357-01**					
Sulfate	9.18		0.400	mg/l	6.00	2.70	108	58-135			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Blank (5030736-BLK1)											
Benzene	ND	0.110	0.500	ug/l							
Bromobenzene	ND	0.120	0.500	"							
Bromochloromethane	ND	0.0900	0.500	"							
Bromodichloromethane	ND	0.0600	0.500	"							
Bromoform	ND	0.0700	0.500	"							
Bromomethane	ND	0.0900	0.500	"							
n-Butylbenzene	ND	0.100	0.500	"							
sec-Butylbenzene	ND	0.0700	0.500	"							
tert-Butylbenzene	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0800	0.500	"							
Chlorobenzene	ND	0.0800	0.500	"							
Chloroethane	ND	0.0800	0.500	"							
Chloroform	ND	0.0500	0.500	"							
Chloromethane	ND	0.100	0.500	"							
2-Chlorotoluene	ND	0.0700	0.500	"							
4-Chlorotoluene	ND	0.120	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"							
Dibromochloromethane	ND	0.0700	0.500	"							
1,2-Dibromoethane	ND	0.100	0.500	"							
Dibromomethane	ND	0.110	0.500	"							
1,2-Dichlorobenzene	ND	0.0800	0.500	"							
1,3-Dichlorobenzene	ND	0.0800	0.500	"							
1,4-Dichlorobenzene	ND	0.110	0.500	"							
Dichlorodifluoromethane	ND	0.100	0.500	"							
1,1-Dichloroethane	ND	0.0900	0.500	"							
1,2-Dichloroethane	ND	0.0900	0.500	"							
1,1-Dichloroethene	ND	0.140	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.120	0.500	"							
1,2-Dichloropropane	ND	0.0700	0.500	"							
1,3-Dichloropropane	ND	0.0900	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Blank (5030736-BLK1)											
2,2-Dichloropropane	ND	0.0800	0.500	ug/l							
1,1-Dichloropropene	ND	0.0800	0.500	"							
cis-1,3-Dichloropropene	ND	0.0900	0.500	"							
trans-1,3-Dichloropropene	ND	0.0400	0.500	"							
Ethylbenzene	ND	0.0900	0.500	"							
Hexachlorobutadiene	0.290	0.260	0.500	"							J
Isopropylbenzene	ND	0.0600	0.500	"							
p-Isopropyltoluene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0600	0.500	"							
Methylene chloride	ND	0.0700	0.500	"							
Naphthalene	ND	0.120	0.500	"							
n-Propylbenzene	ND	0.0600	0.500	"							
Styrene	ND	0.0500	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"							
Tetrachloroethene	ND	0.120	0.500	"							
Toluene	ND	0.0600	0.500	"							
1,2,3-Trichlorobenzene	ND	0.170	0.500	"							
1,2,4-Trichlorobenzene	ND	0.140	0.500	"							
1,1,1-Trichloroethane	ND	0.0900	0.500	"							
1,1,2-Trichloroethane	ND	0.0900	0.500	"							
Trichloroethene	ND	0.100	0.500	"							
Trichlorofluoromethane	ND	0.110	0.500	"							
1,2,3-Trichloropropane	ND	0.130	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"							
Vinyl chloride	ND	0.0700	0.500	"							
Xylenes (total)	ND	0.180	1.00	"							
Surrogate: Dibromofluoromethane	*4.68*			"	*5.00*		*93.6 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.78*			"	*5.00*		*95.6 %*	*70-130*			
Surrogate: Toluene-d8	*4.93*			"	*5.00*		*98.6 %*	*70-130*			

North Creek Analytical - Bothell

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Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Blank (5030736-BLK1)											
Surrogate: 4-BFB	*4.42*			*"*	*5.00*		*88.4 %*	*70-130*			
LCS (5030736-BS2)											
Benzene	5.26	0.110	0.500	ug/l	5.00		105	70-130			
Bromobenzene	5.29	0.120	0.500	"	5.00		106	70-130			
Bromochloromethane	5.44	0.0900	0.500	"	5.00		109	70-130			
Bromodichloromethane	5.18	0.0600	0.500	"	5.00		104	70-130			
Bromoform	4.98	0.0700	0.500	"	5.00		99.6	70-130			
Bromomethane	5.55	0.0900	0.500	"	5.00		111	70-130			
n-Butylbenzene	5.16	0.100	0.500	"	5.00		103	70-130			
sec-Butylbenzene	5.46	0.0700	0.500	"	5.00		109	70-130			
tert-Butylbenzene	5.32	0.0700	0.500	"	5.00		106	70-130			
Carbon tetrachloride	4.82	0.0800	0.500	"	5.00		96.4	70-130			
Chlorobenzene	4.99	0.0800	0.500	"	5.00		99.8	70-130			
Chloroethane	5.24	0.0800	0.500	"	5.00		105	70-130			
Chloroform	5.24	0.0500	0.500	"	5.00		105	70-130			
Chloromethane	5.39	0.100	0.500	"	5.00		108	70-130			
2-Chlorotoluene	5.39	0.0700	0.500	"	5.00		108	70-130			
4-Chlorotoluene	5.60	0.120	0.500	"	5.00		112	70-130			
1,2-Dibromo-3-chloropropane	4.88	0.180	0.500	"	5.00		97.6	70-130			
Dibromochloromethane	5.19	0.0700	0.500	"	5.00		104	70-130			
1,2-Dibromoethane	5.56	0.100	0.500	"	5.00		111	70-130			
Dibromomethane	5.24	0.110	0.500	"	5.00		105	70-130			
1,2-Dichlorobenzene	5.19	0.0800	0.500	"	5.00		104	70-130			
1,3-Dichlorobenzene	5.30	0.0800	0.500	"	5.00		106	70-130			
1,4-Dichlorobenzene	5.34	0.110	0.500	"	5.00		107	70-130			
Dichlorodifluoromethane	5.55	0.100	0.500	"	5.00		111	70-130			
1,1-Dichloroethane	5.27	0.0900	0.500	"	5.00		105	70-130			
1,2-Dichloroethane	5.24	0.0900	0.500	"	5.00		105	70-130			
1,1-Dichloroethene	5.02	0.140	0.500	"	5.00		100	70-130			
cis-1,2-Dichloroethene	5.10	0.0700	0.500	"	5.00		102	70-130			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
LCS (5030736-BS2)											
trans-1,2-Dichloroethene	5.20	0.120	0.500	ug/l	5.00		104	70-130			
1,2-Dichloropropane	5.27	0.0700	0.500	"	5.00		105	70-130			
1,3-Dichloropropane	5.14	0.0900	0.500	"	5.00		103	70-130			
2,2-Dichloropropane	4.89	0.0800	0.500	"	5.00		97.8	70-130			
1,1-Dichloropropene	5.22	0.0800	0.500	"	5.00		104	70-130			
cis-1,3-Dichloropropene	5.33	0.0900	0.500	"	5.00		107	70-130			
trans-1,3-Dichloropropene	4.64	0.0400	0.500	"	5.00		92.8	70-130			
Ethylbenzene	5.35	0.0900	0.500	"	5.00		107	70-130			
Hexachlorobutadiene	5.32	0.260	0.500	"	5.00		106	70-130			
Isopropylbenzene	5.31	0.0600	0.500	"	5.00		106	70-130			
p-Isopropyltoluene	5.44	0.0700	0.500	"	5.00		109	70-130			
Methyl tert-butyl ether	5.39	0.0600	0.500	"	5.00		108	70-130			
Methylene chloride	5.88	0.0700	0.500	"	5.00		118	70-130			
Naphthalene	4.44	0.120	0.500	"	5.00		88.8	70-130			
n-Propylbenzene	5.38	0.0600	0.500	"	5.00		108	70-130			
Styrene	4.93	0.0500	0.500	"	5.00		98.6	70-130			
1,1,1,2-Tetrachloroethane	4.96	0.0700	0.500	"	5.00		99.2	70-130			
1,1,2,2-Tetrachloroethane	5.62	0.100	0.500	"	5.00		112	70-130			
Tetrachloroethene	5.10	0.120	0.500	"	5.00		102	70-130			
Toluene	5.24	0.0600	0.500	"	5.00		105	70-130			
1,2,3-Trichlorobenzene	5.08	0.170	0.500	"	5.00		102	70-130			
1,2,4-Trichlorobenzene	5.08	0.140	0.500	"	5.00		102	70-130			
1,1,1-Trichloroethane	5.09	0.0900	0.500	"	5.00		102	70-130			
1,1,2-Trichloroethane	5.39	0.0900	0.500	"	5.00		108	70-130			
Trichloroethene	4.91	0.100	0.500	"	5.00		98.2	70-130			
Trichlorofluoromethane	4.95	0.110	0.500	"	5.00		99.0	70-130			
1,2,3-Trichloropropane	5.46	0.130	0.500	"	5.00		109	70-130			
1,2,4-Trimethylbenzene	5.35	0.0700	0.500	"	5.00		107	70-130			
1,3,5-Trimethylbenzene	5.30	0.0700	0.500	"	5.00		106	70-130			
Vinyl chloride	5.19	0.0700	0.500	"	5.00		104	70-130			
Surrogate: Dibromofluoromethane	*4.83*			*"*	*5.00*		*96.6 %*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
LCS (5030736-BS2)											
Surrogate: 1,2-DCA-d4	*4.95*			*ug/l*	*5.00*		*99.0 %*	*70-130*			
Surrogate: Toluene-d8	*4.97*			*"*	*5.00*		*99.4 %*	*70-130*			
Surrogate: 4-BFB	*4.93*			*"*	*5.00*		*98.6 %*	*70-130*			
Matrix Spike (5030736-MS1)						**Source: P5C0245-02**					
Benzene	26.2	0.110	0.500	ug/l	25.0	ND	105	70-130			
Bromobenzene	26.8	0.120	0.500	"	25.0	ND	107	70-130			
Bromochloromethane	26.9	0.0900	0.500	"	25.0	ND	108	70-130			
Bromodichloromethane	23.9	0.0600	0.500	"	25.0	ND	95.6	70-130			
Bromoform	19.6	0.0700	0.500	"	25.0	ND	78.4	70-130			
Bromomethane	29.5	0.0900	0.500	"	25.0	ND	118	70-130			
n-Butylbenzene	26.9	0.100	0.500	"	25.0	ND	108	70-130			
sec-Butylbenzene	27.6	0.0700	0.500	"	25.0	ND	110	70-130			
tert-Butylbenzene	28.3	0.0700	0.500	"	25.0	ND	113	70-130			
Carbon tetrachloride	26.4	0.0800	0.500	"	25.0	ND	106	70-130			
Chlorobenzene	24.3	0.0800	0.500	"	25.0	ND	97.2	70-130			
Chloroethane	26.5	0.0800	0.500	"	25.0	ND	106	70-130			
Chloroform	26.4	0.0500	0.500	"	25.0	ND	106	70-130			
Chloromethane	27.7	0.100	0.500	"	25.0	ND	111	70-130			
2-Chlorotoluene	27.0	0.0700	0.500	"	25.0	ND	108	70-130			
4-Chlorotoluene	29.1	0.120	0.500	"	25.0	ND	116	70-130			
1,2-Dibromo-3-chloropropane	23.7	0.180	0.500	"	25.0	ND	94.8	70-130			
Dibromochloromethane	21.9	0.0700	0.500	"	25.0	ND	87.6	70-130			
1,2-Dibromoethane	28.2	0.100	0.500	"	25.0	ND	113	70-130			
Dibromomethane	26.8	0.110	0.500	"	25.0	ND	107	70-130			
1,2-Dichlorobenzene	24.9	0.0800	0.500	"	25.0	ND	99.6	70-130			
1,3-Dichlorobenzene	27.2	0.0800	0.500	"	25.0	ND	109	70-130			
1,4-Dichlorobenzene	26.5	0.110	0.500	"	25.0	ND	106	70-130			
Dichlorodifluoromethane	29.5	0.100	0.500	"	25.0	ND	118	70-130			
1,1-Dichloroethane	26.7	0.0900	0.500	"	25.0	ND	107	70-130			
1,2-Dichloroethane	26.1	0.0900	0.500	"	25.0	ND	104	70-130			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Matrix Spike (5030736-MS1)						**Source: P5C0245-02**					
1,1-Dichloroethene	26.7	0.140	0.500	ug/l	25.0	ND	107	70-130			
cis-1,2-Dichloroethene	27.1	0.0700	0.500	"	25.0	ND	108	70-130			
trans-1,2-Dichloroethene	26.9	0.120	0.500	"	25.0	ND	108	70-130			
1,2-Dichloropropane	26.1	0.0700	0.500	"	25.0	ND	104	70-130			
1,3-Dichloropropane	25.7	0.0900	0.500	"	25.0	ND	103	70-130			
2,2-Dichloropropane	27.0	0.0800	0.500	"	25.0	ND	108	70-130			
1,1-Dichloropropene	26.9	0.0800	0.500	"	25.0	ND	108	70-130			
cis-1,3-Dichloropropene	27.6	0.0900	0.500	"	25.0	ND	110	70-130			
trans-1,3-Dichloropropene	23.5	0.0400	0.500	"	25.0	ND	94.0	70-130			
Ethylbenzene	28.1	0.0900	0.500	"	25.0	ND	112	70-130			
Hexachlorobutadiene	25.2	0.260	0.500	"	25.0	ND	101	70-130			
Isopropylbenzene	28.3	0.0600	0.500	"	25.0	ND	113	70-130			
p-Isopropyltoluene	28.7	0.0700	0.500	"	25.0	ND	115	70-130			
Methyl tert-butyl ether	27.8	0.0600	0.500	"	25.0	ND	111	70-130			
Methylene chloride	26.0	0.0700	0.500	"	25.0	0.210	103	70-130			
Naphthalene	22.8	0.120	0.500	"	25.0	ND	91.2	70-130			
n-Propylbenzene	29.1	0.0600	0.500	"	25.0	ND	116	70-130			
Styrene	26.1	0.0500	0.500	"	25.0	ND	104	70-130			
1,1,1,2-Tetrachloroethane	27.3	0.0700	0.500	"	25.0	ND	109	70-130			
1,1,2,2-Tetrachloroethane	28.6	0.100	0.500	"	25.0	ND	114	70-130			
Tetrachloroethene	25.6	0.120	0.500	"	25.0	ND	102	70-130			
Toluene	26.1	0.0600	0.500	"	25.0	ND	104	70-130			
1,2,3-Trichlorobenzene	25.8	0.170	0.500	"	25.0	ND	103	70-130			
1,2,4-Trichlorobenzene	25.4	0.140	0.500	"	25.0	ND	102	70-130			
1,1,1-Trichloroethane	26.8	0.0900	0.500	"	25.0	ND	107	70-130			
1,1,2-Trichloroethane	26.6	0.0900	0.500	"	25.0	ND	106	70-130			
Trichloroethene	24.9	0.100	0.500	"	25.0	ND	99.6	70-130			
Trichlorofluoromethane	27.1	0.110	0.500	"	25.0	ND	108	70-130			
1,2,3-Trichloropropane	27.0	0.130	0.500	"	25.0	ND	108	70-130			
1,2,4-Trimethylbenzene	29.1	0.0700	0.500	"	25.0	ND	116	70-130			
1,3,5-Trimethylbenzene	28.7	0.0700	0.500	"	25.0	ND	115	70-130			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Matrix Spike (5030736-MS1)						**Source: P5C0245-02**					
Vinyl chloride	26.0	0.0700	0.500	ug/l	25.0	ND	104	70-130			
Surrogate: Dibromofluoromethane	*5.19*			"	*5.00*		*104 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.10*			"	*5.00*		*102 %*	*70-130*			
Surrogate: Toluene-d8	*5.05*			"	*5.00*		*101 %*	*70-130*			
Surrogate: 4-BFB	*5.43*			"	*5.00*		*109 %*	*70-130*			
Matrix Spike Dup (5030736-MSD1)						**Source: P5C0245-02**					
Benzene	27.8	0.110	0.500	ug/l	25.0	ND	111	70-130	5.93	30	
Bromobenzene	27.5	0.120	0.500	"	25.0	ND	110	70-130	2.58	30	
Bromochloromethane	29.2	0.0900	0.500	"	25.0	ND	117	70-130	8.20	30	
Bromodichloromethane	25.9	0.0600	0.500	"	25.0	ND	104	70-130	8.03	30	
Bromoform	21.4	0.0700	0.500	"	25.0	ND	85.6	70-130	8.78	30	
Bromomethane	33.4	0.0900	0.500	"	25.0	ND	134	70-130	12.4	30	Q-01
n-Butylbenzene	29.3	0.100	0.500	"	25.0	ND	117	70-130	8.54	30	
sec-Butylbenzene	28.8	0.0700	0.500	"	25.0	ND	115	70-130	4.26	30	
tert-Butylbenzene	28.7	0.0700	0.500	"	25.0	ND	115	70-130	1.40	30	
Carbon tetrachloride	28.6	0.0800	0.500	"	25.0	ND	114	70-130	8.00	30	
Chlorobenzene	25.7	0.0800	0.500	"	25.0	ND	103	70-130	5.60	30	
Chloroethane	28.8	0.0800	0.500	"	25.0	ND	115	70-130	8.32	30	
Chloroform	28.5	0.0500	0.500	"	25.0	ND	114	70-130	7.65	30	
Chloromethane	30.2	0.100	0.500	"	25.0	ND	121	70-130	8.64	30	
2-Chlorotoluene	27.3	0.0700	0.500	"	25.0	ND	109	70-130	1.10	30	
4-Chlorotoluene	29.6	0.120	0.500	"	25.0	ND	118	70-130	1.70	30	
1,2-Dibromo-3-chloropropane	27.2	0.180	0.500	"	25.0	ND	109	70-130	13.8	30	
Dibromochloromethane	25.0	0.0700	0.500	"	25.0	ND	100	70-130	13.2	30	
1,2-Dibromoethane	30.6	0.100	0.500	"	25.0	ND	122	70-130	8.16	30	
Dibromomethane	28.3	0.110	0.500	"	25.0	ND	113	70-130	5.44	30	
1,2-Dichlorobenzene	26.6	0.0800	0.500	"	25.0	ND	106	70-130	6.60	30	
1,3-Dichlorobenzene	27.8	0.0800	0.500	"	25.0	ND	111	70-130	2.18	30	
1,4-Dichlorobenzene	27.4	0.110	0.500	"	25.0	ND	110	70-130	3.34	30	
Dichlorodifluoromethane	31.2	0.100	0.500	"	25.0	ND	125	70-130	5.60	30	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Matrix Spike Dup (5030736-MSD1)						**Source: P5C0245-02**					
1,1-Dichloroethane	28.7	0.0900	0.500	ug/l	25.0	ND	115	70-130	7.22	30	
1,2-Dichloroethane	28.1	0.0900	0.500	"	25.0	ND	112	70-130	7.38	30	
1,1-Dichloroethene	29.3	0.140	0.500	"	25.0	ND	117	70-130	9.29	30	
cis-1,2-Dichloroethene	29.0	0.0700	0.500	"	25.0	ND	116	70-130	6.77	30	
trans-1,2-Dichloroethene	28.6	0.120	0.500	"	25.0	ND	114	70-130	6.13	30	
1,2-Dichloropropane	28.6	0.0700	0.500	"	25.0	ND	114	70-130	9.14	30	
1,3-Dichloropropane	27.6	0.0900	0.500	"	25.0	ND	110	70-130	7.13	30	
2,2-Dichloropropane	31.2	0.0800	0.500	"	25.0	ND	125	70-130	14.4	30	
1,1-Dichloropropene	28.8	0.0800	0.500	"	25.0	ND	115	70-130	6.82	30	
cis-1,3-Dichloropropene	29.7	0.0900	0.500	"	25.0	ND	119	70-130	7.33	30	
trans-1,3-Dichloropropene	26.0	0.0400	0.500	"	25.0	ND	104	70-130	10.1	30	
Ethylbenzene	28.3	0.0900	0.500	"	25.0	ND	113	70-130	0.709	30	
Hexachlorobutadiene	28.2	0.260	0.500	"	25.0	ND	113	70-130	11.2	30	
Isopropylbenzene	28.5	0.0600	0.500	"	25.0	ND	114	70-130	0.704	30	
p-Isopropyltoluene	29.2	0.0700	0.500	"	25.0	ND	117	70-130	1.73	30	
Methyl tert-butyl ether	31.0	0.0600	0.500	"	25.0	ND	124	70-130	10.9	30	
Methylene chloride	28.1	0.0700	0.500	"	25.0	0.210	112	70-130	7.76	30	
Naphthalene	26.9	0.120	0.500	"	25.0	ND	108	70-130	16.5	30	
n-Propylbenzene	29.5	0.0600	0.500	"	25.0	ND	118	70-130	1.37	30	
Styrene	26.7	0.0500	0.500	"	25.0	ND	107	70-130	2.27	30	
1,1,1,2-Tetrachloroethane	29.6	0.0700	0.500	"	25.0	ND	118	70-130	8.08	30	
1,1,2,2-Tetrachloroethane	29.4	0.100	0.500	"	25.0	ND	118	70-130	2.76	30	
Tetrachloroethene	27.1	0.120	0.500	"	25.0	ND	108	70-130	5.69	30	
Toluene	27.9	0.0600	0.500	"	25.0	ND	112	70-130	6.67	30	
1,2,3-Trichlorobenzene	29.2	0.170	0.500	"	25.0	ND	117	70-130	12.4	30	
1,2,4-Trichlorobenzene	28.1	0.140	0.500	"	25.0	ND	112	70-130	10.1	30	
1,1,1-Trichloroethane	29.5	0.0900	0.500	"	25.0	ND	118	70-130	9.59	30	
1,1,2-Trichloroethane	28.4	0.0900	0.500	"	25.0	ND	114	70-130	6.55	30	
Trichloroethene	26.2	0.100	0.500	"	25.0	ND	105	70-130	5.09	30	
Trichlorofluoromethane	28.7	0.110	0.500	"	25.0	ND	115	70-130	5.73	30	
1,2,3-Trichloropropane	28.3	0.130	0.500	"	25.0	ND	113	70-130	4.70	30	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	03/23/05 07:57

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5030736: Prepared 03/17/05 Using EPA 5030B											
Matrix Spike Dup (5030736-MSD1)						**Source: P5C0245-02**					
1,2,4-Trimethylbenzene	29.0	0.0700	0.500	ug/l	25.0	ND	116	70-130	0.344	30	
1,3,5-Trimethylbenzene	29.2	0.0700	0.500	"	25.0	ND	117	70-130	1.73	30	
Vinyl chloride	27.0	0.0700	0.500	"	25.0	ND	108	70-130	3.77	30	
Surrogate: Dibromofluoromethane	*5.49*			"	*5.00*		*110 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.34*			"	*5.00*		*107 %*	*70-130*			
Surrogate: Toluene-d8	*5.07*			"	*5.00*		*101 %*	*70-130*			
Surrogate: 4-BFB	*5.20*			"	*5.00*		*104 %*	*70-130*			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 03/23/05 07:57

Notes and Definitions

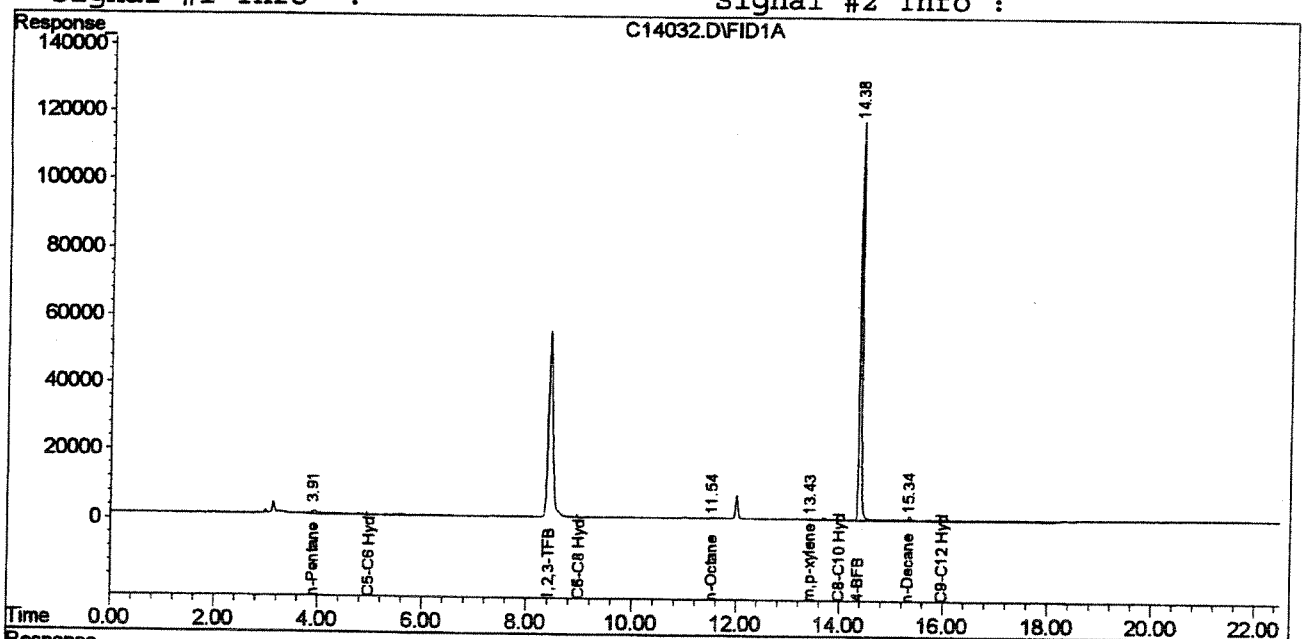
B	Analyte detected in the method blank.
J	Estimated value.
Q-01	The matrix spike recovery, and/or RPD, for this QC sample is outside of established control limits. Failure of a matrix spike QC sample does not represent an out-of-control condition for the batch.
Q-02	The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
X	See case narrative.
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

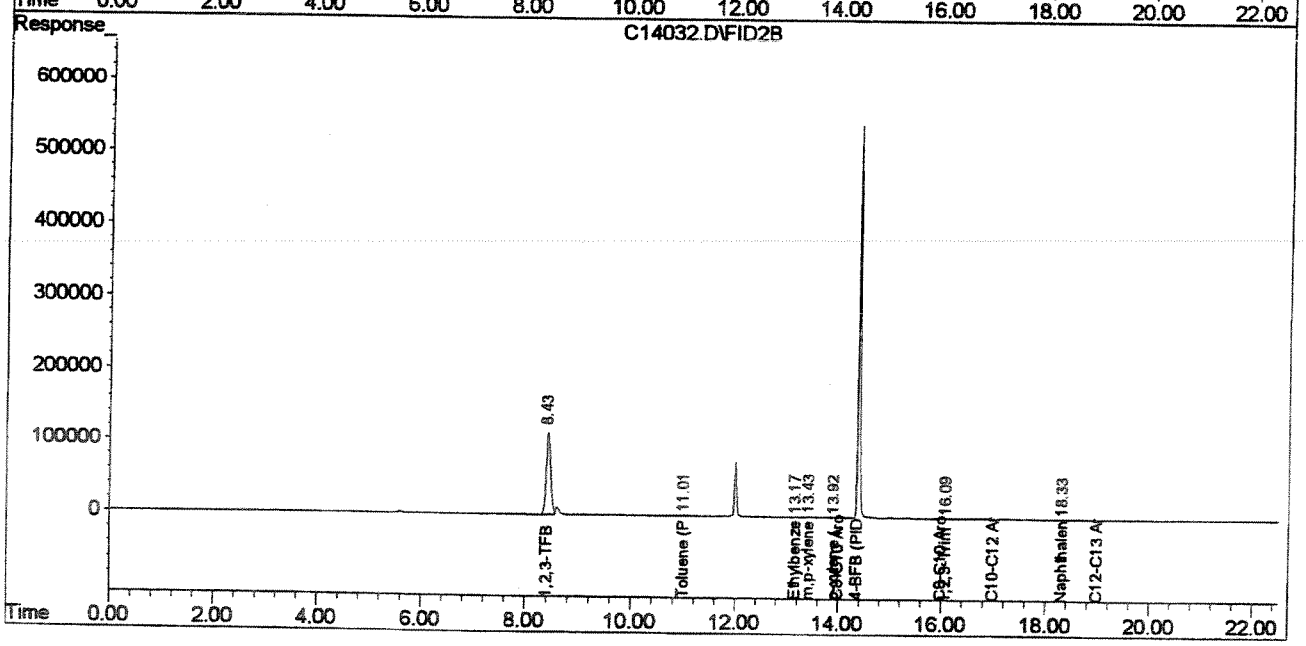
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031505\C14032.D\FID1A.CH Vial: 32
Signal #2 : D:\HPCHEM\3\DATA\031505\C14032.D\FID2B.CH
Acq On : 16 Mar 2005 2:11 Operator: smt
Sample : b5c0401-01 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 16 2:34 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



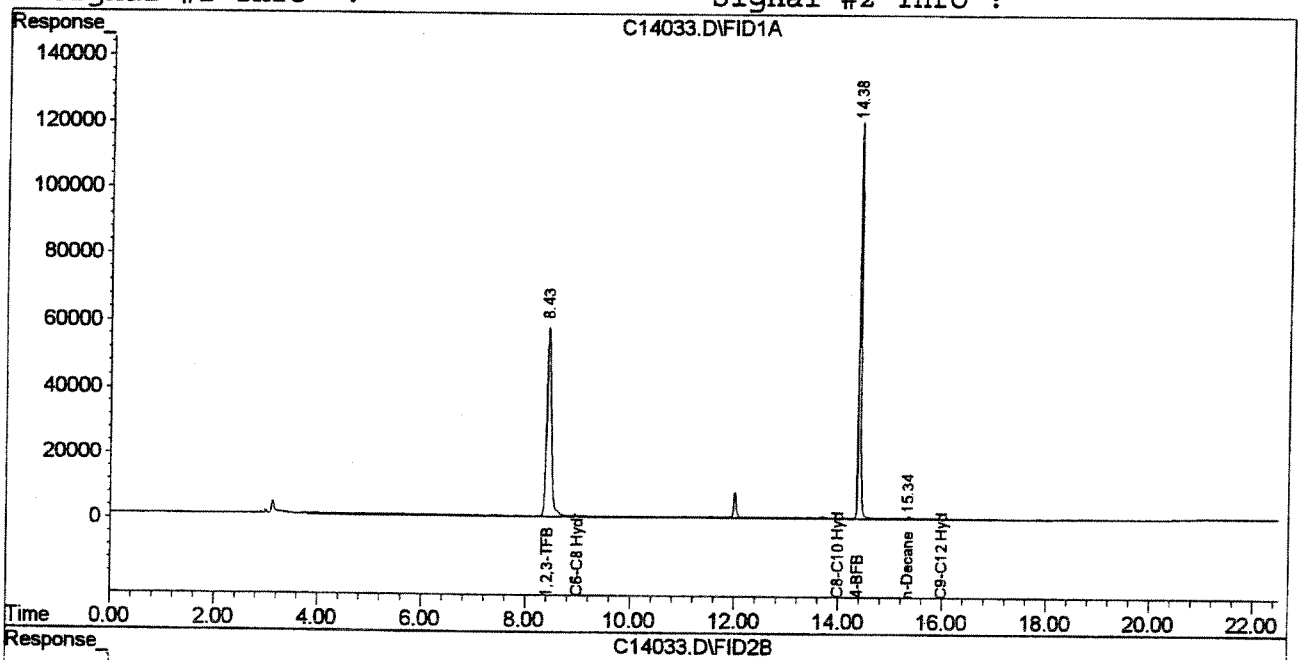


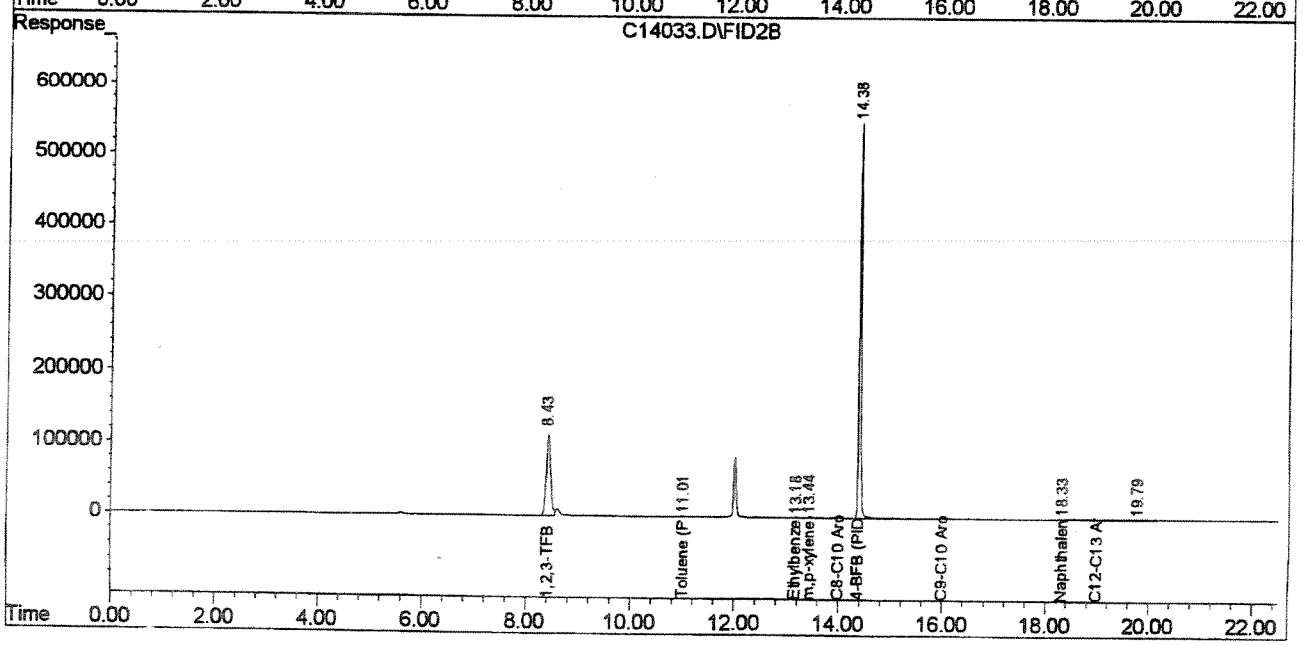
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031505\C14033.D\FID1A.CH Vial: 33
Signal #2 : D:\HPCHEM\3\DATA\031505\C14033.D\FID2B.CH
Acq On : 16 Mar 2005 2:42 Operator: smt
Sample : b5c0401-02 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 16 3:05 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



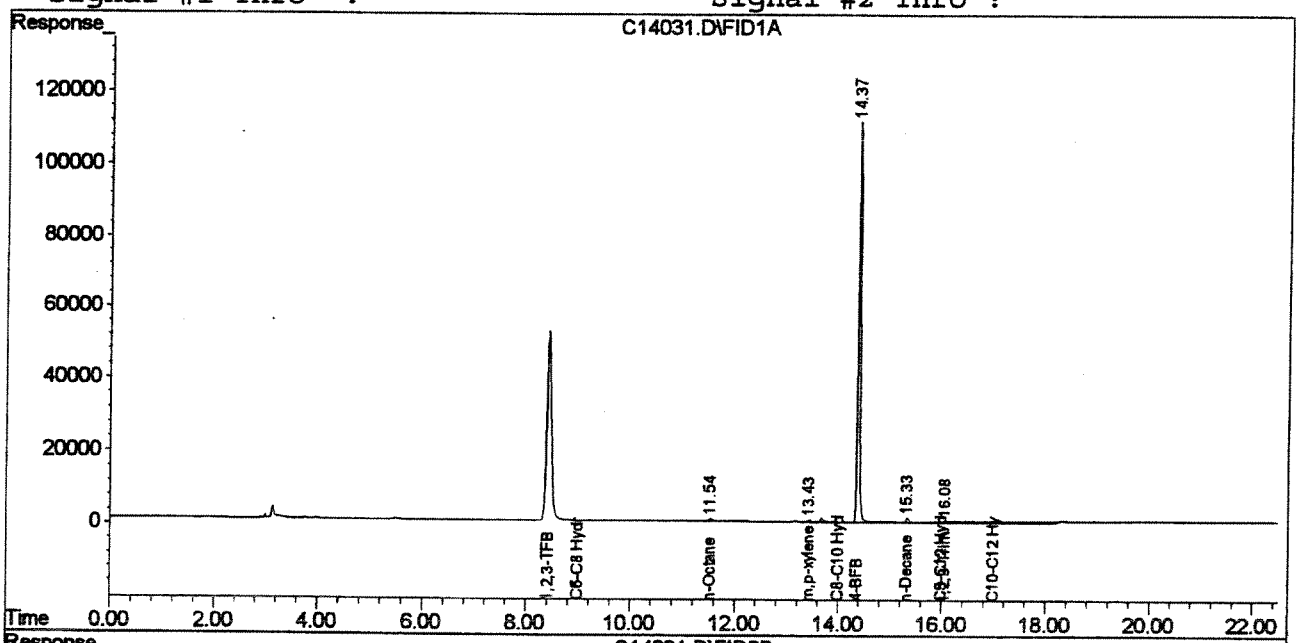


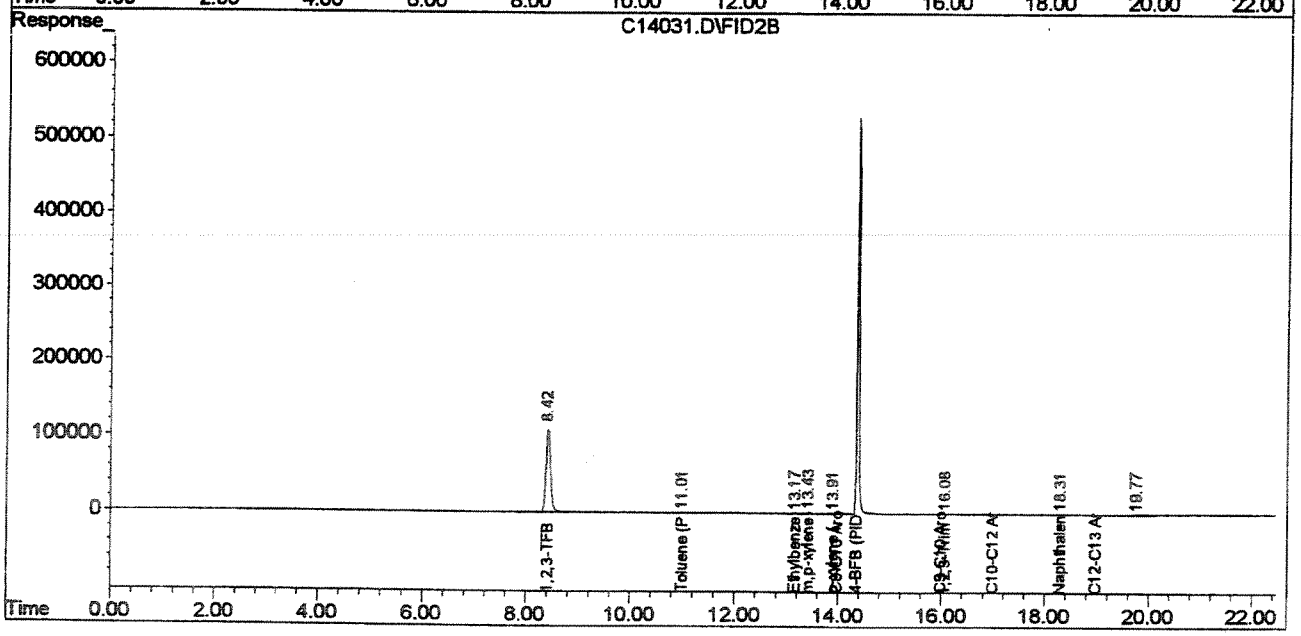
Quantitation Report

Signal #1 : D:\HPCHEM\3\DATA\031505\C14031.D\FID1A.CH Vial: 31
Signal #2 : D:\HPCHEM\3\DATA\031505\C14031.D\FID2B.CH
Acq On : 16 Mar 2005 1:40 Operator: smt
Sample : b5c0401-03 Inst : GC #6
Misc : 1x 5 mL Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Mar 16 2:03 2005 Quant Results File: VPC1005.RES

Quant Method : D:\HPCHEM\3\METHODS\VPC1005.M (Chemstation Integrator)
Title : VPH Water Method
Last Update : Fri Mar 11 12:45:59 2005
Response via : Multiple Level Calibration
DataAcq Meth : VPC1005.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





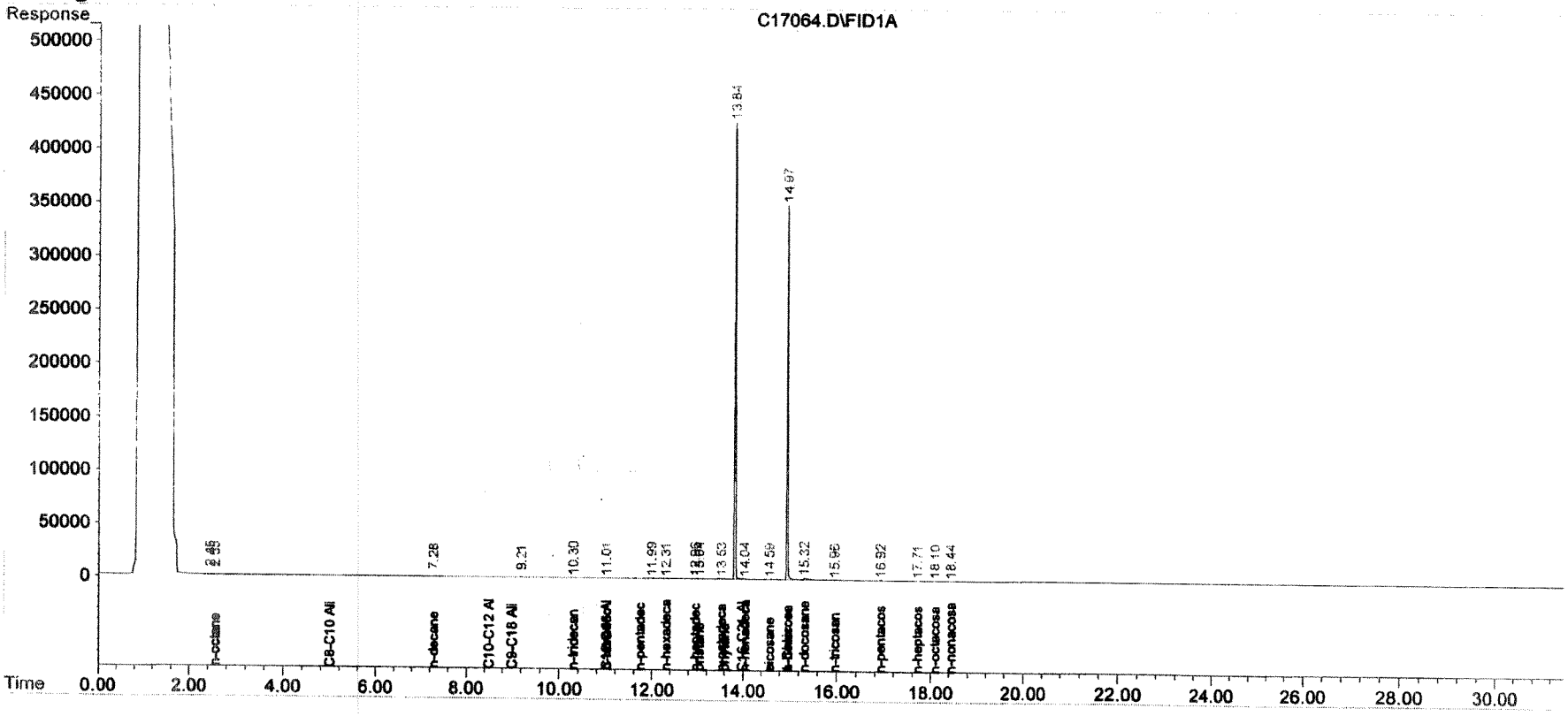
Quantitation Report

Data File : D:\HPCHEM\1\DATA\031705\C17064.D
Acq On : 18 Mar 2005 14:18
Sample : B5C0401-01
Misc : 1X MT-EPH Screen Water
IntFile : SURR.E
Quant Time: Mar 18 14:49 2005 Quant Results File: L0804L3F.RES

Vial: 32
Operator: DEB
Inst : GC-3
Multiplr: 1.00

Quant Method : D:\HPCHEM\1\METHODS\L0804L3F.M (Chemstation Integrator)
Title : EPH Front Method
Last Update : Tue Feb 15 15:10:45 2005
Response via : Multiple Level Calibration
DataAcq Meth : L0804L3F.M

Volume Inj. :
Signal Phase :
Signal Info :



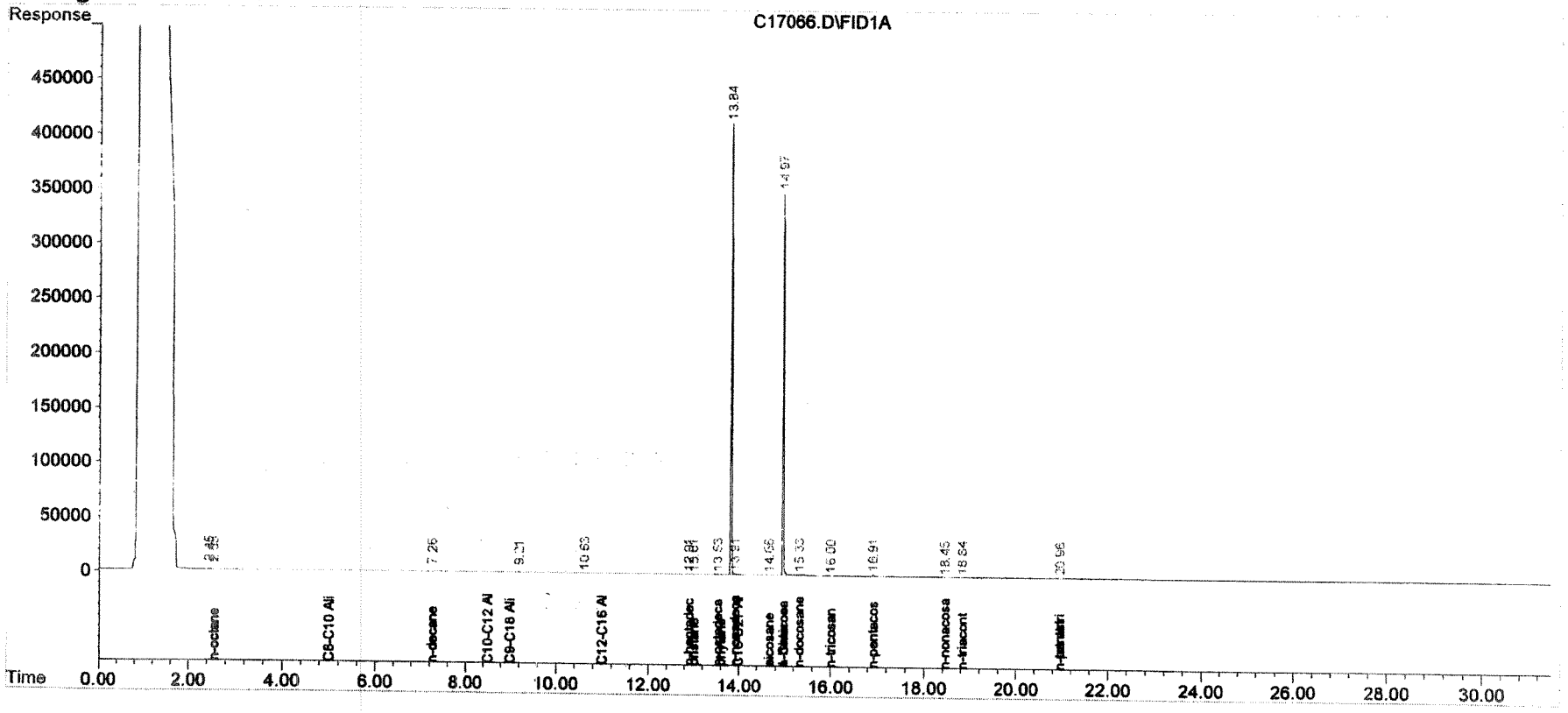
Quantitation Report

Data File : D:\HPCHEM\1\DATA\031705\C17066.D
Acq On : 18 Mar 2005 14:59
Sample : B5C0401-02
Misc : 1X MT-EPH Screen Water
IntFile : SURR.E
Quant Time: Mar 18 15:30 2005 Quant Results File: L0804L3F.RES

Vial: 33
Operator: DEB
Inst : GC-3
Multiplr: 1.00

Quant Method : D:\HPCHEM\1\METHODS\L0804L3F.M (Chemstation Integrator)
Title : EPH Front Method
Last Update : Tue Feb 15 15:10:45 2005
Response via : Multiple Level Calibration
DataAcq Meth : L0804L3F.M

Volume Inj. :
Signal Phase :
Signal Info :

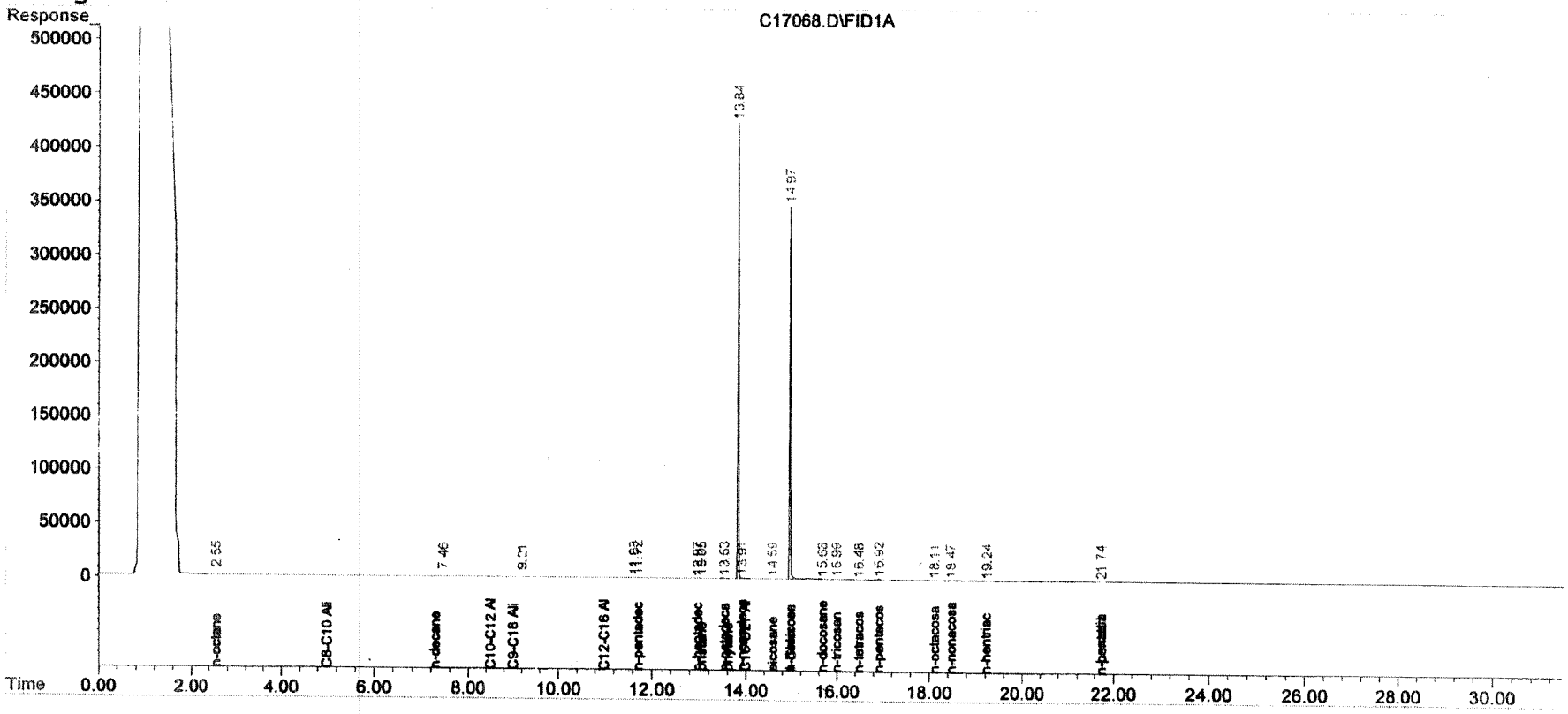


Quantitation Report

Data File : D:\HPCHEM\1\DATA\031705\C17068.D Vial: 34
Acq On : 18 Mar 2005 15:40 Operator: DEB
Sample : B5C0401-04 Inst : GC-3
Misc : 1X MT-EPH Screen Water Multiplr: 1.00
IntFile : SURR.E
Quant Time: Mar 18 16:12 2005 Quant Results File: L0804L3F.RES

Quant Method : D:\HPCHEM\1\METHODS\L0804L3F.M (Chemstation Integrator)
Title : EPH Front Method
Last Update : Tue Feb 15 15:10:45 2005
Response via : Multiple Level Calibration
DataAcq Meth : L0804L3F.M

Volume Inj. :
Signal Phase :
Signal Info :



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CHAIN OF CUSTODY REPORT

Work Order #: B5C0401

NCA CLIENT: Kennedy Henks Consultants - BNSF
REPORT TO: Sarah Kraja
ADDRESS: 32001 32nd Ave S Suite 100 Federal Way WA
PHONE: 253 874 0555 FAX:
PROJECT NAME: BNSF - Livingston
PROJECT NUMBER: 0596021*16
SAMPLED BY: Sarah Kraja

INVOICE TO: Dave Smith BNSF
P.O. NUMBER:

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: H_2SO_4 | HCl | H_2SO_4 | - | HNO_3

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPH-MT Screen	VPH Qy MADEP w/ MBT EXA	353.2 350.3	Sulfate 300.0	Iron 200.7	VOC 524.2	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	RW-8a	3/11/05 1145	X	X	X	X	X		W	8	If EPH is 73 then	01
2	RW-8b	3/11/05	X	X					W	5	Fractionate	02
3	~~L-87-7a~~	~~3/11/05~~										
4	~~L-87-7b~~											
5	trip blank			X								03
6	purge waterdrum	3/11/05 2200 ~~100~~	X					X				04
7												
8												
9												
10												

RELEASED BY: Sarah C Kraja DATE: 3/11/05
PRINT NAME: Sarah Kraja FIRM: K/J TIME: 937pm
RECEIVED BY: Cathy Gamble DATE: 3/15/05
PRINT NAME: Cathy Gamble FIRM: NCA TIME: 9:30
RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 5.6° w/ CS

COC REV 09/04

PAGE OF

June 2005 Monitoring Event

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CASE NARRATIVE for B5F0663

Client: Sarah Kraja
Project Manager: Kennedy/Jenks Consultants
Project Name: BNSF – Livingston, MT
Project Number: 0596021.16

1.0 DESCRIPTION OF CASE

Nineteen water samples and two trip blank's were received for analysis of the following: Purgeable Organic Compounds by EPA Method 524.2, Volatile Organic Compounds by EPA Method 8260B, Conventional Chemistry Parameters by APHA/EPA Methods, and Hydrocarbons by GC/FID Headspace.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received and logged in on June 28, 2005. Sample temperature at time of receipt was 2.4 ° C. The analysis for RSK 175 was subcontracted to NCA – Bend. The analysis for Purgeable Organic Compounds by EPA 524.2 was subcontracted to NCA-Portland. Due to capacity issues at the Portland lab several samples were shipped back to NCA-Bothell so that the samples could be analyzed within the method established hold time. As per clients request, all results for both the Purgeable Organic Compounds and Volatile Organic Compounds are reported down to the MDL. All results between the MDL and the established laboratory reporting limits are qualified as estimated (J-flag).

3.0 PREPARATIONS AND ANALYSIS

Purgeable Organic Compounds by EPA Method 524.2

The result for Chlorobenzene and 2-Chlorotoluene for laboratory sample B5F0663-13 in analytical batch 5G08052 was reported as an estimated value since the reported value exceeded the calibration range for the instrument. The sample was re-analyzed but was analyzed and reported under the Volatile Organic Compounds by EPA Method 8260B test code.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Organic Compounds by EPA Method 8260B

Due to instrument limitations the following compounds could not be reported at 0.5 ug/l as requested by the client: 2-Chloroethylvinylether, 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Hexanone, Methylene Chloride, Naphthalene, and m,p-Xylene. The MDL for these compounds were below the o.5 ug/l reporting requested except for the following compounds: 2-Chloroethylvinylether, 1,1,2-Trichloro-1,2,2-trifluoroethane, and 2-Hexanone.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Conventional Chemistry Parameters by APHA/EPA Methods

All criteria for acceptable QC measurements were met with the following exceptions:

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K/J Federal Way
K/J No/File
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The continuing calibration failed slightly high for all laboratory samples in analytical batch 5G18029 for the Dissolved Organic Carbon analysis. The laboratory samples were filtered upon receipt at the laboratory; each sample was analyzed twice, once at a low range and then at a high range, due to the level of dissolved organic compound in the sample. Insufficient sample remained of the filtered sample for any further re-analysis. The QC samples were all in control.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Hydrocarbons by GC/FID Headspace

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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22 July 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

RE: BNSF-Livingston, MT

Enclosed are the results of analyses for samples received by the laboratory on 06/28/05 09:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
94-1	B5F0663-01	Water	06/24/05 16:15	06/28/05 09:20
94-2	B5F0663-02	Water	06/25/05 09:30	06/28/05 09:20
92-2	B5F0663-03	Water	06/25/05 10:30	06/28/05 09:20
89-2	B5F0663-04	Water	06/25/05 11:20	06/28/05 09:20
L-88-10	B5F0663-05	Water	06/25/05 12:10	06/28/05 09:20
Rainbow	B5F0663-06	Water	06/25/05 12:50	06/28/05 09:20
3	B5F0663-07	Water	06/25/05 15:10	06/28/05 09:20
6	B5F0663-08	Water	06/25/05 16:00	06/28/05 09:20
L-88-13	B5F0663-09	Water	06/25/05 12:10	06/28/05 09:20
Trip blank	B5F0663-10	Water	06/25/05 12:00	06/28/05 09:20
L-dup	B5F0663-11	Water	06/26/05 08:00	06/28/05 09:20
89-6	B5F0663-12	Water	06/26/05 13:15	06/28/05 09:20
L-87-2	B5F0663-13	Water	06/26/05 14:30	06/28/05 09:20
89-4	B5F0663-14	Water	06/26/05 15:45	06/28/05 09:20
L87-3	B5F0663-15	Water	06/26/05 16:40	06/28/05 09:20
L87-3 P	B5F0663-16	Water	06/26/05 17:00	06/28/05 09:20
92-1	B5F0663-17	Water	06/26/05 18:00	06/28/05 09:20
90-3	B5F0663-18	Water	06/27/05 09:20	06/28/05 09:20
LS-11	B5F0663-19	Water	06/27/05 10:20	06/28/05 09:20
89-9	B5F0663-20	Water	06/27/05 11:30	06/28/05 09:20
Trip blank	B5F0663-21	Water	06/27/05 12:00	06/28/05 09:20

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip blank (B5F0663-10) Water Sampled: 06/25/05 12:00 Received: 06/28/05 09:20										
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Benzene	ND	0.0520	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.0530	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0680	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0450	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0560	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0580	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0640	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0870	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0610	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.140	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0830	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0720	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0210	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0640	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.0270	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0410	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0440	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0230	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0880	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0470	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0680	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0530	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0500	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0280	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0410	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0970	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0600	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0570	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0270	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.0580	0.500	"	"	"	"	"	"	
Styrene	ND	0.0160	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip blank (B5F0663-10) Water Sampled: 06/25/05 12:00 Received: 06/28/05 09:20										
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Tetrachloroethene	ND	0.0710	0.500	"	"	"	"	"	"	
Toluene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0890	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.0400	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0630	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.114	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0710	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.0800	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.00900	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*134 %*		*80-120*			"	"	"	"	*S-04*
Surrogate: Toluene-d8	*95.2 %*		*80-120*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*80-120*			"	"	"	"	
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Benzene	ND	0.0520	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.0530	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0680	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0450	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0560	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0580	0.500	"	"	"	"	"	"	
Chlorobenzene	**13.0**	0.0640	0.500	"	"	"	"	"	"	E
Chloroethane	ND	0.0870	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0610	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.140	0.500	"	"	"	"	"	"	
2-Chlorotoluene	**28.2**	0.0830	0.500	"	"	"	"	"	"	E
4-Chlorotoluene	ND	0.0720	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0210	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0640	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.0270	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	**1.03**	0.0410	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	**0.390**	0.0440	0.500	"	"	"	"	"	"	J
1,4-Dichlorobenzene	**2.72**	0.0230	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0880	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
1,1-Dichloroethane	ND	0.0470	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
1,2-Dichloroethane	ND	0.0680	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0530	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.32**	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**0.290**	0.0500	0.500	"	"	"	"	"	"	J
1,2-Dichloropropane	ND	0.0280	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0410	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0970	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0600	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0570	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0270	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.0580	0.500	"	"	"	"	"	"	
Styrene	ND	0.0160	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0710	0.500	"	"	"	"	"	"	
Toluene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0890	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
Trichloroethene	**0.430**	0.0400	0.500	"	"	"	"	"	"	J
Trichlorofluoromethane	ND	0.0630	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.114	0.500	"	"	"	"	"	"	
Vinyl chloride	**2.82**	0.0710	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.0800	0.500	"	"	"	"	"	"	
o-Xylene	**0.980**	0.00900	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*136 %*		*80-120*			"	"	"	"	*S-04*
Surrogate: Toluene-d8	*93.0 %*		*80-120*			"	"	"	"	
Surrogate: 4-BFB	*98.2 %*		*80-120*			"	"	"	"	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-2 (B5F0663-03) Water Sampled: 06/25/05 10:30 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.590**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-2 (B5F0663-03) Water Sampled: 06/25/05 10:30 Received: 06/28/05 09:20										
Methylene chloride	ND	0.252	5.00	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**13.9**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.00**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*104 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*101 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*107 %*		*70-130*			"	"	"	"	
L-88-10 (B5F0663-05) Water Sampled: 06/25/05 12:10 Received: 06/28/05 09:20										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND	0.894	2.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	**2.33**	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-10 (B5F0663-05) Water Sampled: 06/25/05 12:10 Received: 06/28/05 09:20										
1,2-Dibromoethane	ND	0.268	0.500	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	**0.280**	0.274	0.500	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5.50**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**18.7**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**4.50**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*108 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-10 (B5F0663-05) Water Sampled: 06/25/05 12:10 Received: 06/28/05 09:20										
Surrogate: 4-BFB	*106 %*		*70-130*			*5F28084*	*06/28/05*	*06/28/05*	*EPA 8260B*	
L-88-13 (B5F0663-09) Water Sampled: 06/25/05 12:10 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.600**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-13 (B5F0663-09) Water Sampled: 06/25/05 12:10 Received: 06/28/05 09:20										
Methyl tert-butyl ether	ND	0.258	0.500	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**10.2**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.58**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*96.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	
L-dup (B5F0663-11) Water Sampled: 06/26/05 08:00 Received: 06/28/05 09:20										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-dup (B5F0663-11) Water Sampled: 06/26/05 08:00 Received: 06/28/05 09:20										
4-Chlorotoluene	ND	0.286	0.500	ug/l	1	5F28084	06/28/05	06/28/05	EPA 8260B	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.600**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**10.2**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.56**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-dup (B5F0663-11) Water Sampled: 06/26/05 08:00 Received: 06/28/05 09:20										
Surrogate: 1,2-DCA-d4	*106 %*		*70-130*			*5F28084*	*06/28/05*	*06/28/05*	*EPA 8260B*	
Surrogate: Toluene-d8	*99.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
Benzene	ND	0.0870	0.200	ug/l	1	5G08059	07/08/05	07/08/05	EPA 8260B	
Bromobenzene	ND	0.0440	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0730	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0580	0.200	"	"	"	"	"	"	
Bromoform	ND	0.0800	0.200	"	"	"	"	"	"	
Bromomethane	ND	0.117	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0570	0.200	"	"	"	"	"	"	
Chlorobenzene	**14.1**	0.0460	0.200	"	"	"	"	"	"	
Chloroethane	ND	0.0620	1.00	"	"	"	"	"	"	
Chloroform	ND	0.0490	0.200	"	"	"	"	"	"	
Chloromethane	ND	0.102	1.00	"	"	"	"	"	"	
2-Chlorotoluene	**36.4**	0.0440	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.102	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0550	0.200	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0590	0.200	"	"	"	"	"	"	
Dibromomethane	ND	0.0720	0.200	"	"	"	"	"	"	
1,2-Dichlorobenzene	**1.02**	0.0200	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	**0.450**	0.0350	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	**2.91**	0.0350	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0330	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0550	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0650	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0770	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.69**	0.0670	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**0.310**	0.0480	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0650	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0470	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0460	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0770	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0590	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0350	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.0410	0.200	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
Methyl tert-butyl ether	ND	0.0340	1.00	ug/l	1	5G08059	07/08/05	07/08/05	EPA 8260B	
2-Hexanone	ND	0.377	2.00	"	"	"	"	"	"	
Methylene chloride	ND	0.281	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.0270	0.500	"	"	"	"	"	"	
Styrene	ND	0.0400	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0440	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0400	0.200	"	"	"	"	"	"	
Toluene	**0.240**	0.0390	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0370	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0530	0.200	"	"	"	"	"	"	
Trichloroethene	**0.460**	0.0490	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0500	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.172	0.500	"	"	"	"	"	"	
Vinyl chloride	**2.40**	0.0610	0.200	"	"	"	"	"	"	
o-Xylene	**1.00**	0.0380	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.0730	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*106 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*109 %*		*70-130*			"	"	"	"	
89-4 (B5F0663-14) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-4 (B5F0663-14) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
4-Chlorotoluene	ND	0.286	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5.28**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**75.0**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.18**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-4 (B5F0663-14) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
Surrogate: 1,2-DCA-d4	*104 %*		*70-130*			*5F29078*	*06/29/05*	*06/29/05*	*EPA 8260B*	
Surrogate: Toluene-d8	*99.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	
89-4 (B5F0663-14RE1) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.58	8.00	ug/l	4	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	3.14	20.0	"	"	"	"	"	"	
Benzene	ND	0.904	2.00	"	"	"	"	"	"	
Bromobenzene	ND	0.928	2.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.28	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	0.860	2.00	"	"	"	"	"	"	
Bromoform	ND	0.800	2.00	"	"	"	"	"	"	
Bromomethane	ND	1.16	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.06	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	0.944	2.00	"	"	"	"	"	"	
Chloroethane	ND	1.22	2.00	"	"	"	"	"	"	
Chloroform	ND	1.04	2.00	"	"	"	"	"	"	
Chloromethane	ND	1.38	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.900	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.14	2.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.03	2.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.07	2.00	"	"	"	"	"	"	
Dibromomethane	ND	0.872	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.10	2.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.936	2.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.996	2.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.932	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.14	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.30	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.15	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4.88**	1.20	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.21	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.744	2.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.05	2.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.728	2.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.24	2.00	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-4 (B5F0663-14RE1) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
cis-1,3-Dichloropropene	ND	0.820	2.00	ug/l	4	5F30061	07/05/05	07/06/05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.724	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.964	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.03	2.00	"	"	"	"	"	"	
2-Hexanone	ND	4.68	20.0	"	"	"	"	"	"	
Methylene chloride	ND	1.01	20.0	"	"	"	"	"	"	
Naphthalene	ND	1.08	4.00	"	"	"	"	"	"	
Styrene	ND	0.876	2.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.896	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.02	2.00	"	"	"	"	"	"	
Tetrachloroethene	**70.9**	1.00	2.00	"	"	"	"	"	"	
Toluene	ND	0.808	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.06	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.01	2.00	"	"	"	"	"	"	
Trichloroethene	**1.16**	0.892	2.00	"	"	"	"	"	"	J
Trichlorofluoromethane	ND	0.724	2.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.18	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.96	2.00	"	"	"	"	"	"	
o-Xylene	ND	0.892	2.00	"	"	"	"	"	"	
m,p-Xylene	ND	1.84	4.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	
L87-3 (B5F0663-15) Water Sampled: 06/26/05 16:40 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L87-3 (B5F0663-15) Water Sampled: 06/26/05 16:40 Received: 06/28/05 09:20										
Chloroform	ND	0.260	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.35**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**0.410**	0.302	0.500	"	"	"	"	"	"	J
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**37.1**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**3.43**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L87-3 (B5F0663-15) Water Sampled: 06/26/05 16:40 Received: 06/28/05 09:20										
Vinyl chloride	ND	0.490	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*104 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*106 %*		*70-130*			"	"	"	"	
L87-3 P (B5F0663-16) Water Sampled: 06/26/05 17:00 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.59**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L87-3 P (B5F0663-16) Water Sampled: 06/26/05 17:00 Received: 06/28/05 09:20										
1,3-Dichloropropane	ND	0.262	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**25.2**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**2.62**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*105 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5F0663-17) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.61**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5F0663-17) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
Methylene chloride	ND	0.252	2.50	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**77.0**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*106 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*100 %*		*70-130*			"	"	"	"	
92-1 (B5F0663-17RE1) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.58	8.00	ug/l	4	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	3.14	20.0	"	"	"	"	"	"	
Benzene	ND	0.904	2.00	"	"	"	"	"	"	
Bromobenzene	ND	0.928	2.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.28	2.00	"	"	"	"	"	"	
Bromodichloromethane	ND	0.860	2.00	"	"	"	"	"	"	
Bromoform	ND	0.800	2.00	"	"	"	"	"	"	
Bromomethane	ND	1.16	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.06	2.00	"	"	"	"	"	"	
Chlorobenzene	ND	0.944	2.00	"	"	"	"	"	"	
Chloroethane	ND	1.22	2.00	"	"	"	"	"	"	
Chloroform	ND	1.04	2.00	"	"	"	"	"	"	
Chloromethane	ND	1.38	2.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.900	2.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.14	2.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.03	2.00	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5F0663-17RE1) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
1,2-Dibromoethane	ND	1.07	2.00	ug/l	4	5F30061	07/05/05	07/06/05	EPA 8260B	
Dibromomethane	ND	0.872	2.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.10	2.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.936	2.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.996	2.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.932	2.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.14	2.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.30	2.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.15	2.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.40**	1.20	2.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.21	2.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.744	2.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.05	2.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.728	2.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.24	2.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.820	2.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.724	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.964	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.03	2.00	"	"	"	"	"	"	
2-Hexanone	ND	4.68	20.0	"	"	"	"	"	"	
Methylene chloride	ND	1.01	20.0	"	"	"	"	"	"	
Naphthalene	ND	1.08	4.00	"	"	"	"	"	"	
Styrene	ND	0.876	2.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.896	2.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.02	2.00	"	"	"	"	"	"	
Tetrachloroethene	**73.7**	1.00	2.00	"	"	"	"	"	"	
Toluene	ND	0.808	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.06	2.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.01	2.00	"	"	"	"	"	"	
Trichloroethene	ND	0.892	2.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.724	2.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.18	2.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.96	2.00	"	"	"	"	"	"	
o-Xylene	ND	0.892	2.00	"	"	"	"	"	"	
m,p-Xylene	ND	1.84	4.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*99.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*102 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5F0663-17RE1) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
Surrogate: 4-BFB	*104 %*		*70-130*			*5F30061*	*07/05/05*	*07/06/05*	*EPA 8260B*	
90-3 (B5F0663-18) Water Sampled: 06/27/05 09:20 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
90-3 (B5F0663-18) Water Sampled: 06/27/05 09:20 Received: 06/28/05 09:20										
Methyl tert-butyl ether	ND	0.258	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**18.7**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**0.980**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*108 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*70-130*			"	"	"	"	
LS-11 (B5F0663-19) Water Sampled: 06/27/05 10:20 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-11 (B5F0663-19) Water Sampled: 06/27/05 10:20 Received: 06/28/05 09:20										
4-Chlorotoluene	ND	0.286	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	**0.370**	0.249	0.500	"	"	"	"	"	"	J
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.77**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**23.4**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**3.54**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
LS-11 (B5F0663-19) Water Sampled: 06/27/05 10:20 Received: 06/28/05 09:20										
Surrogate: 1,2-DCA-d4	*106 %*		*70-130*			*5F29078*	*06/29/05*	*06/29/05*	*EPA 8260B*	
Surrogate: Toluene-d8	*99.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*110 %*		*70-130*			"	"	"	"	
89-9 (B5F0663-20) Water Sampled: 06/27/05 11:30 Received: 06/28/05 09:20										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.20**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-9 (B5F0663-20) Water Sampled: 06/27/05 11:30 Received: 06/28/05 09:20										
cis-1,3-Dichloropropene	ND	0.205	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**40.2**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**2.42**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*104 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*103 %*		*70-130*			"	"	"	"	
Trip blank (B5F0663-21) Water Sampled: 06/27/05 12:00 Received: 06/28/05 09:20										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND	0.894	2.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip blank (B5F0663-21) Water Sampled: 06/27/05 12:00 Received: 06/28/05 09:20										
Chloroform	ND	0.260	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	2.50	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip blank (B5F0663-21) Water Sampled: 06/27/05 12:00 Received: 06/28/05 09:20										
Vinyl chloride	ND	0.490	0.500	ug/l	1	5F29078	06/29/05	06/29/05	EPA 8260B	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*103 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**29.3**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
89-4 (B5F0663-14) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**18.9**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
L87-3 (B5F0663-15) Water Sampled: 06/26/05 16:40 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**31.9**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
92-1 (B5F0663-17) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**17.8**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
90-3 (B5F0663-18) Water Sampled: 06/27/05 09:20 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**22.6**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
LS-11 (B5F0663-19) Water Sampled: 06/27/05 10:20 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**23.2**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X
89-9 (B5F0663-20) Water Sampled: 06/27/05 11:30 Received: 06/28/05 09:20										
Dissolved Organic Carbon	**19.7**		2.00	mg/l	1	5G18029	06/28/05	07/16/05	EPA 415.1	X

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Hydrocarbons by GC/FID Headspace
North Creek Analytical - Bend

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-2 (B5F0663-13) Water Sampled: 06/26/05 14:30 Received: 06/28/05 09:20										
Methane	**699**		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
89-4 (B5F0663-14) Water Sampled: 06/26/05 15:45 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
L87-3 (B5F0663-15) Water Sampled: 06/26/05 16:40 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
92-1 (B5F0663-17) Water Sampled: 06/26/05 18:00 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
90-3 (B5F0663-18) Water Sampled: 06/27/05 09:20 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
LS-11 (B5F0663-19) Water Sampled: 06/27/05 10:20 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Hydrocarbons by GC/FID Headspace
North Creek Analytical - Bend

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-9 (B5F0663-20) Water Sampled: 06/27/05 11:30 Received: 06/28/05 09:20										
Methane	ND		1.20	ug/l	1	0507002	07/08/05	07/08/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-1 (B5F0663-01) Water Sampled: 06/24/05 16:15 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-1 (B5F0663-01) Water Sampled: 06/24/05 16:15 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**1.04**	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*100 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*90.8 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-2 (B5F0663-02) Water Sampled: 06/25/05 09:30 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-2 (B5F0663-02) Water Sampled: 06/25/05 09:30 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**0.170**	0.120	0.500	"	"	"	"	"	"	J
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*103 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*104 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*90.8 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-2 (B5F0663-04) Water Sampled: 06/25/05 11:20 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-2 (B5F0663-04) Water Sampled: 06/25/05 11:20 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*102 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*99.4 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*95.6 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*92.8 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rainbow (B5F0663-06) Water Sampled: 06/25/05 12:50 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.700**	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Rainbow (B5F0663-06) Water Sampled: 06/25/05 12:50 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**5.74**	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	**1.05**	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*100 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.8 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*88.6 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3 (B5F0663-07) Water Sampled: 06/25/05 15:10 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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907.563.9200 fax 907.563.9210

Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
3 (B5F0663-07) Water Sampled: 06/25/05 15:10 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**0.160**	0.120	0.500	"	"	"	"	"	"	J
Toluene	**0.110**	0.0600	0.500	"	"	"	"	"	"	J
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*100 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*101 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.8 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*88.6 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
6 (B5F0663-08) Water Sampled: 06/25/05 16:00 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
6 (B5F0663-08) Water Sampled: 06/25/05 16:00 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**1.64**	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*102 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.4 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*84.6 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-6 (B5F0663-12) Water Sampled: 06/26/05 13:15 Received: 06/28/05 09:20										
Benzene	ND	0.110	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	0.260	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-6 (B5F0663-12) Water Sampled: 06/26/05 13:15 Received: 06/28/05 09:20										
Isopropylbenzene	ND	0.0600	0.500	ug/l	1	5070139	07/06/05	07/06/05	EPA 524.2	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**5.03**	0.120	0.500	"	"	"	"	"	"	
Toluene	**0.110**	0.0600	0.500	"	"	"	"	"	"	J
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*106 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*103 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*101 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*93.4 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK1)											
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l							
Benzene	ND	0.0520	0.500	"							
Bromobenzene	ND	0.0530	0.500	"							
Bromochloromethane	ND	0.0680	0.500	"							
Bromodichloromethane	ND	0.0450	0.500	"							
Bromoform	ND	0.0560	0.500	"							
Bromomethane	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0580	0.500	"							
Chlorobenzene	ND	0.0640	0.500	"							
Chloroethane	ND	0.0870	0.500	"							
Chloroform	ND	0.0610	0.500	"							
Chloromethane	ND	0.140	0.500	"							
2-Chlorotoluene	ND	0.0830	0.500	"							
4-Chlorotoluene	ND	0.0720	0.500	"							
Dibromochloromethane	ND	0.0210	0.500	"							
1,2-Dibromoethane	ND	0.0640	0.500	"							
Dibromomethane	ND	0.0270	0.500	"							
1,2-Dichlorobenzene	ND	0.0410	0.500	"							
1,3-Dichlorobenzene	ND	0.0440	0.500	"							
1,4-Dichlorobenzene	ND	0.0230	0.500	"							
Dichlorodifluoromethane	ND	0.0880	0.500	"							
1,1-Dichloroethane	ND	0.0470	0.500	"							
1,2-Dichloroethane	ND	0.0680	0.500	"							
1,1-Dichloroethene	ND	0.0530	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.0500	0.500	"							
1,2-Dichloropropane	ND	0.0280	0.500	"							
1,3-Dichloropropane	ND	0.0410	0.500	"							
2,2-Dichloropropane	ND	0.0970	0.500	"							
1,1-Dichloropropene	ND	0.0430	0.500	"							
cis-1,3-Dichloropropene	ND	0.0430	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK1)											
trans-1,3-Dichloropropene	ND	0.0600	0.500	ug/l							
Ethylbenzene	ND	0.0570	0.500	"							
Methylene chloride	ND	0.0270	0.500	"							
Naphthalene	ND	0.0580	0.500	"							
Styrene	ND	0.0160	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"							
Tetrachloroethene	ND	0.0710	0.500	"							
Toluene	ND	0.0500	0.500	"							
1,1,1-Trichloroethane	ND	0.0890	0.500	"							
1,1,2-Trichloroethane	ND	0.0550	0.500	"							
Trichloroethene	ND	0.0400	0.500	"							
Trichlorofluoromethane	ND	0.0630	0.500	"							
1,2,3-Trichloropropane	ND	0.114	0.500	"							
Vinyl chloride	ND	0.0710	0.500	"							
m,p-Xylene	ND	0.0800	0.500	"							
o-Xylene	ND	0.00900	0.500	"							
Surrogate: 1,2-DCA-d4	*4.12*			"	*4.00*		*103 %*	*80-120*			
Surrogate: Toluene-d8	*4.07*			"	*4.00*		*102 %*	*80-120*			
Surrogate: 4-BFB	*4.07*			"	*4.00*		*102 %*	*80-120*			
Blank (5G08052-BLK2)											
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l							
Benzene	ND	0.0170	0.500	"							
Bromobenzene	ND	0.0320	0.500	"							
Bromochloromethane	ND	0.0550	0.500	"							
Bromodichloromethane	ND	0.0230	0.500	"							
Bromoform	ND	0.0290	0.500	"							
Bromomethane	ND	0.140	0.500	"							
n-Butylbenzene	ND	0.0200	0.500	"							
sec-Butylbenzene	ND	0.0150	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK2)											
tert-Butylbenzene	ND	0.0150	0.500	ug/l							
Carbon tetrachloride	ND	0.0250	0.500	"							
Chlorobenzene	ND	0.0170	0.500	"							
Chloroethane	ND	0.0390	0.500	"							
Chloroform	ND	0.0150	0.500	"							
Chloromethane	ND	0.0590	0.500	"							
2-Chlorotoluene	ND	0.0320	0.500	"							
4-Chlorotoluene	ND	0.0270	0.500	"							
Dibromochloromethane	ND	0.0230	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.118	0.500	"							
1,2-Dibromoethane	ND	0.0400	0.500	"							
Dibromomethane	ND	0.0230	0.500	"							
1,2-Dichlorobenzene	ND	0.0210	0.500	"							
1,3-Dichlorobenzene	ND	0.0150	0.500	"							
1,4-Dichlorobenzene	ND	0.0250	0.500	"							
Dichlorodifluoromethane	ND	0.0440	0.500	"							
1,1-Dichloroethane	ND	0.0200	0.500	"							
1,2-Dichloroethane	ND	0.0430	0.500	"							
1,1-Dichloroethene	ND	0.0210	0.500	"							
cis-1,2-Dichloroethene	ND	0.0290	0.500	"							
trans-1,2-Dichloroethene	ND	0.0240	0.500	"							
1,2-Dichloropropane	ND	0.0190	0.500	"							
1,3-Dichloropropane	ND	0.0240	0.500	"							
2,2-Dichloropropane	ND	0.0350	0.500	"							
1,1-Dichloropropene	ND	0.0350	0.500	"							
cis-1,3-Dichloropropene	ND	0.0210	0.500	"							
trans-1,3-Dichloropropene	ND	0.0250	0.500	"							
Ethylbenzene	ND	0.0200	0.500	"							
Hexachlorobutadiene	ND	0.0480	0.500	"							
Isopropylbenzene	ND	0.0210	0.500	"							
p-Isopropyltoluene	ND	0.0150	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK2)											
Methylene chloride	ND	0.0420	0.500	ug/l							
Naphthalene	ND	0.0290	0.500	"							
n-Propylbenzene	ND	0.0150	0.500	"							
Styrene	ND	0.0200	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0330	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0400	0.500	"							
Tetrachloroethene	ND	0.0260	0.500	"							
Toluene	ND	0.0240	0.500	"							
1,2,3-Trichlorobenzene	ND	0.0200	0.500	"							
1,2,4-Trichlorobenzene	ND	0.0260	0.500	"							
1,1,1-Trichloroethane	ND	0.0240	0.500	"							
1,1,2-Trichloroethane	ND	0.0400	0.500	"							
Trichloroethene	ND	0.0380	0.500	"							
Trichlorofluoromethane	ND	0.0410	0.500	"							
1,2,3-Trichloropropane	ND	0.0790	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0100	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0130	0.500	"							
Vinyl chloride	ND	0.0610	0.500	"							
m,p-Xylene	ND	0.0280	0.500	"							
o-Xylene	ND	0.0250	0.500	"							
Surrogate: 1,2-DCA-d4	*3.74*			*"*	*4.00*		*93.5 %*	*80-120*			
Surrogate: Toluene-d8	*4.02*			*"*	*4.00*		*100 %*	*80-120*			
Surrogate: 4-BFB	*4.07*			*"*	*4.00*		*102 %*	*80-120*			
LCS (5G08052-BS1)											
Methyl tert-butyl ether	3.96	0.0170	0.500	ug/l	4.00		99.0	80-120			
Benzene	3.92	0.0520	0.500	"	4.00		98.0	80-120			
Bromobenzene	3.94	0.0530	0.500	"	4.00		98.5	80-120			
Bromochloromethane	3.92	0.0680	0.500	"	4.00		98.0	80-120			
Bromodichloromethane	4.08	0.0450	0.500	"	4.00		102	80-120			
Bromoform	4.21	0.0560	0.500	"	4.00		105	80-120			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS (5G08052-BS1)											
Bromomethane	4.46	0.0700	0.500	ug/l	4.00		112	80-120			
n-Butylbenzene	4.00	0.0560	0.500	"	4.00		100	80-120			
sec-Butylbenzene	3.95	0.0180	0.500	"	4.00		98.8	80-120			
tert-Butylbenzene	3.96	0.0470	0.500	"	4.00		99.0	80-120			
Carbon tetrachloride	4.11	0.0580	0.500	"	4.00		103	80-120			
Chlorobenzene	4.02	0.0640	0.500	"	4.00		100	80-120			
Chloroethane	3.85	0.0870	0.500	"	4.00		96.2	80-120			
Chloroform	3.93	0.0610	0.500	"	4.00		98.2	80-120			
Chloromethane	3.75	0.140	0.500	"	4.00		93.8	80-120			
2-Chlorotoluene	4.00	0.0830	0.500	"	4.00		100	80-120			
4-Chlorotoluene	4.16	0.0720	0.500	"	4.00		104	80-120			
Dibromochloromethane	4.25	0.0210	0.500	"	4.00		106	80-120			
1,2-Dibromo-3-chloropropane	4.31	0.176	0.500	"	4.00		108	80-120			
1,2-Dibromoethane	4.15	0.0640	0.500	"	4.00		104	80-120			
Dibromomethane	4.05	0.0270	0.500	"	4.00		101	80-120			
1,2-Dichlorobenzene	3.96	0.0410	0.500	"	4.00		99.0	80-120			
1,3-Dichlorobenzene	3.97	0.0440	0.500	"	4.00		99.2	80-120			
1,4-Dichlorobenzene	3.93	0.0230	0.500	"	4.00		98.2	80-120			
Dichlorodifluoromethane	4.07	0.0880	0.500	"	4.00		102	80-120			
1,1-Dichloroethane	3.97	0.0470	0.500	"	4.00		99.2	80-120			
1,2-Dichloroethane	4.01	0.0680	0.500	"	4.00		100	80-120			
1,1-Dichloroethene	3.91	0.0530	0.500	"	4.00		97.8	80-120			
cis-1,2-Dichloroethene	3.93	0.0700	0.500	"	4.00		98.2	80-120			
trans-1,2-Dichloroethene	3.93	0.0500	0.500	"	4.00		98.2	80-120			
1,2-Dichloropropane	4.04	0.0280	0.500	"	4.00		101	80-120			
1,3-Dichloropropane	4.00	0.0410	0.500	"	4.00		100	80-120			
2,2-Dichloropropane	3.55	0.0970	0.500	"	4.00		88.8	80-120			
1,1-Dichloropropene	3.98	0.0430	0.500	"	4.00		99.5	80-120			
cis-1,3-Dichloropropene	4.05	0.0430	0.500	"	4.00		101	80-120			
trans-1,3-Dichloropropene	4.13	0.0600	0.500	"	4.00		103	80-120			
Ethylbenzene	4.06	0.0570	0.500	"	4.00		102	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS (5G08052-BS1)											
Hexachlorobutadiene	3.96	0.0700	0.500	ug/l	4.00		99.0	80-120			
Isopropylbenzene	4.10	0.0210	0.500	"	4.00		102	80-120			
p-Isopropyltoluene	4.13	0.0440	0.500	"	4.00		103	80-120			
Methylene chloride	3.91	0.0270	0.500	"	4.00		97.8	80-120			
Naphthalene	3.95	0.0580	0.500	"	4.00		98.8	80-120			
n-Propylbenzene	4.00	0.0480	0.500	"	4.00		100	80-120			
Styrene	4.29	0.0160	0.500	"	4.00		107	80-120			
1,1,1,2-Tetrachloroethane	4.15	0.0550	0.500	"	4.00		104	80-120			
1,1,2,2-Tetrachloroethane	3.84	0.0560	0.500	"	4.00		96.0	80-120			
Tetrachloroethene	4.01	0.0710	0.500	"	4.00		100	80-120			
Toluene	4.02	0.0500	0.500	"	4.00		100	80-120			
1,2,3-Trichlorobenzene	3.91	0.0700	0.500	"	4.00		97.8	80-120			
1,2,4-Trichlorobenzene	4.00	0.0500	0.500	"	4.00		100	80-120			
1,1,1-Trichloroethane	3.96	0.0890	0.500	"	4.00		99.0	80-120			
1,1,2-Trichloroethane	4.11	0.0550	0.500	"	4.00		103	80-120			
Trichloroethene	4.03	0.0400	0.500	"	4.00		101	80-120			
Trichlorofluoromethane	3.97	0.0630	0.500	"	4.00		99.2	80-120			
1,2,3-Trichloropropane	3.66	0.114	0.500	"	4.00		91.5	80-120			
1,2,4-Trimethylbenzene	4.06	0.0460	0.500	"	4.00		102	80-120			
1,3,5-Trimethylbenzene	4.13	0.0120	0.500	"	4.00		103	80-120			
Vinyl chloride	3.86	0.0710	0.500	"	4.00		96.5	80-120			
m,p-Xylene	8.06	0.0800	0.500	"	8.00		101	80-120			
o-Xylene	4.15	0.00900	0.500	"	4.00		104	80-120			
Surrogate: 1,2-DCA-d4	*3.99*			*"*	*4.00*		*99.8 %*	*80-120*			
Surrogate: Toluene-d8	*4.10*			*"*	*4.00*		*102 %*	*80-120*			
Surrogate: 4-BFB	*4.01*			*"*	*4.00*		*100 %*	*80-120*			
LCS Dup (5G08052-BSD1)											
Methyl tert-butyl ether	4.06	0.0170	0.500	ug/l	4.00		102	80-120	2.49	20	
Benzene	3.85	0.0520	0.500	"	4.00		96.2	80-120	1.80	20	
Bromobenzene	3.85	0.0530	0.500	"	4.00		96.2	80-120	2.31	20	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08052-BSD1)											
Bromochloromethane	3.99	0.0680	0.500	ug/l	4.00		99.8	80-120	1.77	20	
Bromodichloromethane	3.95	0.0450	0.500	"	4.00		98.8	80-120	3.24	20	
Bromoform	4.07	0.0560	0.500	"	4.00		102	80-120	3.38	20	
Bromomethane	4.37	0.0700	0.500	"	4.00		109	80-120	2.04	20	
n-Butylbenzene	4.04	0.0560	0.500	"	4.00		101	80-120	0.995	20	
sec-Butylbenzene	3.97	0.0180	0.500	"	4.00		99.2	80-120	0.505	20	
tert-Butylbenzene	3.99	0.0470	0.500	"	4.00		99.8	80-120	0.755	20	
Carbon tetrachloride	3.93	0.0580	0.500	"	4.00		98.2	80-120	4.48	20	
Chlorobenzene	3.91	0.0640	0.500	"	4.00		97.8	80-120	2.77	20	
Chloroethane	3.89	0.0870	0.500	"	4.00		97.2	80-120	1.03	20	
Chloroform	3.89	0.0610	0.500	"	4.00		97.2	80-120	1.02	20	
Chloromethane	3.73	0.140	0.500	"	4.00		93.2	80-120	0.535	20	
2-Chlorotoluene	3.99	0.0830	0.500	"	4.00		99.8	80-120	0.250	20	
4-Chlorotoluene	3.95	0.0720	0.500	"	4.00		98.8	80-120	5.18	20	
Dibromochloromethane	4.13	0.0210	0.500	"	4.00		103	80-120	2.86	20	
1,2-Dibromo-3-chloropropane	4.02	0.176	0.500	"	4.00		100	80-120	6.96	20	
1,2-Dibromoethane	4.03	0.0640	0.500	"	4.00		101	80-120	2.93	20	
Dibromomethane	3.95	0.0270	0.500	"	4.00		98.8	80-120	2.50	20	
1,2-Dichlorobenzene	3.91	0.0410	0.500	"	4.00		97.8	80-120	1.27	20	
1,3-Dichlorobenzene	3.97	0.0440	0.500	"	4.00		99.2	80-120	0.00	20	
1,4-Dichlorobenzene	3.93	0.0230	0.500	"	4.00		98.2	80-120	0.00	20	
Dichlorodifluoromethane	4.10	0.0880	0.500	"	4.00		102	80-120	0.734	20	
1,1-Dichloroethane	3.96	0.0470	0.500	"	4.00		99.0	80-120	0.252	20	
1,2-Dichloroethane	3.95	0.0680	0.500	"	4.00		98.8	80-120	1.51	20	
1,1-Dichloroethene	3.98	0.0530	0.500	"	4.00		99.5	80-120	1.77	20	
cis-1,2-Dichloroethene	3.94	0.0700	0.500	"	4.00		98.5	80-120	0.254	20	
trans-1,2-Dichloroethene	3.91	0.0500	0.500	"	4.00		97.8	80-120	0.510	20	
1,2-Dichloropropane	3.83	0.0280	0.500	"	4.00		95.8	80-120	5.34	20	
1,3-Dichloropropane	3.92	0.0410	0.500	"	4.00		98.0	80-120	2.02	20	
2,2-Dichloropropane	3.51	0.0970	0.500	"	4.00		87.8	80-120	1.13	20	
1,1-Dichloropropene	3.92	0.0430	0.500	"	4.00		98.0	80-120	1.52	20	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08052-BSD1)											
cis-1,3-Dichloropropene	3.90	0.0430	0.500	ug/l	4.00		97.5	80-120	3.77	20	
trans-1,3-Dichloropropene	4.04	0.0600	0.500	"	4.00		101	80-120	2.20	20	
Ethylbenzene	3.94	0.0570	0.500	"	4.00		98.5	80-120	3.00	20	
Hexachlorobutadiene	3.92	0.0700	0.500	"	4.00		98.0	80-120	1.02	20	
Isopropylbenzene	4.06	0.0210	0.500	"	4.00		102	80-120	0.980	20	
p-Isopropyltoluene	4.04	0.0440	0.500	"	4.00		101	80-120	2.20	20	
Methylene chloride	3.94	0.0270	0.500	"	4.00		98.5	80-120	0.764	20	
Naphthalene	4.11	0.0580	0.500	"	4.00		103	80-120	3.97	20	
n-Propylbenzene	4.03	0.0480	0.500	"	4.00		101	80-120	0.747	20	
Styrene	4.16	0.0160	0.500	"	4.00		104	80-120	3.08	20	
1,1,1,2-Tetrachloroethane	4.06	0.0550	0.500	"	4.00		102	80-120	2.19	20	
1,1,2,2-Tetrachloroethane	3.97	0.0560	0.500	"	4.00		99.2	80-120	3.33	20	
Tetrachloroethene	3.84	0.0710	0.500	"	4.00		96.0	80-120	4.33	20	
Toluene	3.86	0.0500	0.500	"	4.00		96.5	80-120	4.06	20	
1,2,3-Trichlorobenzene	4.01	0.0700	0.500	"	4.00		100	80-120	2.53	20	
1,2,4-Trichlorobenzene	3.99	0.0500	0.500	"	4.00		99.8	80-120	0.250	20	
1,1,1-Trichloroethane	3.95	0.0890	0.500	"	4.00		98.8	80-120	0.253	20	
1,1,2-Trichloroethane	4.02	0.0550	0.500	"	4.00		100	80-120	2.21	20	
Trichloroethene	3.80	0.0400	0.500	"	4.00		95.0	80-120	5.87	20	
Trichlorofluoromethane	3.92	0.0630	0.500	"	4.00		98.0	80-120	1.27	20	
1,2,3-Trichloropropane	3.88	0.114	0.500	"	4.00		97.0	80-120	5.84	20	
1,2,4-Trimethylbenzene	4.00	0.0460	0.500	"	4.00		100	80-120	1.49	20	
1,3,5-Trimethylbenzene	3.97	0.0120	0.500	"	4.00		99.2	80-120	3.95	20	
Vinyl chloride	3.89	0.0710	0.500	"	4.00		97.2	80-120	0.774	20	
m,p-Xylene	7.93	0.0800	0.500	"	8.00		99.1	80-120	1.63	20	
o-Xylene	4.01	0.00900	0.500	"	4.00		100	80-120	3.43	20	
Surrogate: 1,2-DCA-d4	*4.01*			"	*4.00*		*100 %*	*80-120*			
Surrogate: Toluene-d8	*4.09*			"	*4.00*		*102 %*	*80-120*			
Surrogate: 4-BFB	*3.97*			"	*4.00*		*99.2 %*	*80-120*			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F28084: Prepared 06/28/05 Using EPA 5030B											
Blank (5F28084-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l							
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Benzene	ND	0.226	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	0.500	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	0.500	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F28084: Prepared 06/28/05 Using EPA 5030B											
Blank (5F28084-BLK1)											
cis-1,3-Dichloropropene	ND	0.205	0.500	ug/l							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	0.500	"							
n-Hexane	ND	0.129	0.500	"							
2-Hexanone	ND	1.17	5.00	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	ND	0.271	1.00	"							
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*20.2*			"	*20.0*		*101 %*	*70-130*			
Surrogate: Toluene-d8	*19.5*			"	*20.0*		*97.5 %*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104 %*	*70-130*			
LCS (5F28084-BS1)											
Benzene	18.1	0.226	0.500	ug/l	20.0		90.5	80-120			
Chlorobenzene	18.6	0.236	0.500	"	20.0		93.0	77-120			
1,1-Dichloroethene	18.9	0.287	0.500	"	20.0		94.5	80-120			
Methyl tert-butyl ether	20.1	0.258	0.500	"	20.0		100	80-120			
Toluene	18.2	0.202	0.500	"	20.0		91.0	80-120			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F28084: Prepared 06/28/05 Using EPA 5030B											
LCS (5F28084-BS1)											
Trichloroethene	18.1	0.223	0.500	ug/l	20.0		90.5	80-120			
Surrogate: 1,2-DCA-d4	*20.9*			"	*20.0*		*104 %*	*70-130*			
Surrogate: Toluene-d8	*19.8*			"	*20.0*		*99.0 %*	*70-130*			
Surrogate: 4-BFB	*20.2*			"	*20.0*		*101 %*	*70-130*			
LCS Dup (5F28084-BSD1)											
Benzene	19.8	0.226	0.500	ug/l	20.0		99.0	80-120	8.97	20	
Chlorobenzene	20.1	0.236	0.500	"	20.0		100	77-120	7.75	20	
1,1-Dichloroethene	19.5	0.287	0.500	"	20.0		97.5	80-120	3.13	20	
Methyl tert-butyl ether	19.0	0.258	0.500	"	20.0		95.0	80-120	5.63	20	
Toluene	19.9	0.202	0.500	"	20.0		99.5	80-120	8.92	20	
Trichloroethene	19.6	0.223	0.500	"	20.0		98.0	80-120	7.96	20	
Surrogate: 1,2-DCA-d4	*20.2*			"	*20.0*		*101 %*	*70-130*			
Surrogate: Toluene-d8	*19.7*			"	*20.0*		*98.5 %*	*70-130*			
Surrogate: 4-BFB	*20.1*			"	*20.0*		*100 %*	*70-130*			
Batch 5F29078: Prepared 06/29/05 Using EPA 5030B											
Blank (5F29078-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l							
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Benzene	ND	0.226	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	0.500	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F29078: Prepared 06/29/05 Using EPA 5030B											
Blank (5F29078-BLK1)											
2-Chlorotoluene	ND	0.225	0.500	ug/l							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							
cis-1,3-Dichloropropene	ND	0.205	0.500	"							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	0.500	"							
n-Hexane	ND	0.129	0.500	"							
2-Hexanone	ND	1.17	5.00	"							
Methylene chloride	ND	0.252	2.50	"							
Naphthalene	ND	0.271	1.00	"							
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F29078: Prepared 06/29/05 Using EPA 5030B											
Blank (5F29078-BLK1)											
1,1,1-Trichloroethane	ND	0.266	0.500	ug/l							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*21.6*			"	*20.0*		*108 %*	*70-130*			
Surrogate: Toluene-d8	*19.5*			"	*20.0*		*97.5 %*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104 %*	*70-130*			
LCS (5F29078-BS1)											
Benzene	17.8	0.226	0.500	ug/l	20.0		89.0	80-120			
Chlorobenzene	18.6	0.236	0.500	"	20.0		93.0	77-120			
1,1-Dichloroethene	18.8	0.287	0.500	"	20.0		94.0	80-120			
Methyl tert-butyl ether	19.9	0.258	0.500	"	20.0		99.5	80-120			
Toluene	18.4	0.202	0.500	"	20.0		92.0	80-120			
Trichloroethene	17.8	0.223	0.500	"	20.0		89.0	80-120			
Surrogate: 1,2-DCA-d4	*20.4*			"	*20.0*		*102 %*	*70-130*			
Surrogate: Toluene-d8	*20.5*			"	*20.0*		*102 %*	*70-130*			
Surrogate: 4-BFB	*20.1*			"	*20.0*		*100 %*	*70-130*			
LCS Dup (5F29078-BSD1)											
Benzene	19.0	0.226	0.500	ug/l	20.0		95.0	80-120	6.52	20	
Chlorobenzene	19.7	0.236	0.500	"	20.0		98.5	77-120	5.74	20	
1,1-Dichloroethene	19.6	0.287	0.500	"	20.0		98.0	80-120	4.17	20	
Methyl tert-butyl ether	19.3	0.258	0.500	"	20.0		96.5	80-120	3.06	20	
Toluene	19.7	0.202	0.500	"	20.0		98.5	80-120	6.82	20	
Trichloroethene	19.0	0.223	0.500	"	20.0		95.0	80-120	6.52	20	
Surrogate: 1,2-DCA-d4	*20.5*			"	*20.0*		*102 %*	*70-130*			

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F29078: Prepared 06/29/05 Using EPA 5030B											
LCS Dup (5F29078-BSD1)											
Surrogate: Toluene-d8	*20.0*			*ug/l*	*20.0*		*100 %*	*70-130*			
Surrogate: 4-BFB	*19.9*			*"*	*20.0*		*99.5 %*	*70-130*			
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
Blank (5F30061-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l							
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Benzene	ND	0.226	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	0.500	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	0.500	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
Blank (5F30061-BLK1)											
trans-1,2-Dichloroethene	ND	0.302	0.500	ug/l							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							
cis-1,3-Dichloropropene	ND	0.205	0.500	"							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	0.500	"							
n-Hexane	ND	0.129	0.500	"							
2-Hexanone	ND	1.17	5.00	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	0.480	0.271	1.00	"							J
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*19.9*			"	*20.0*		*99.5 %*	*70-130*			
Surrogate: Toluene-d8	*19.9*			"	*20.0*		*99.5 %*	*70-130*			
Surrogate: 4-BFB	*20.5*			"	*20.0*		*102 %*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
LCS (5F30061-BS1)											
Benzene	18.7	0.226	0.500	ug/l	20.0		93.5	80-120			
Chlorobenzene	19.1	0.236	0.500	"	20.0		95.5	77-120			
1,1-Dichloroethene	18.9	0.287	0.500	"	20.0		94.5	80-120			
Methyl tert-butyl ether	18.9	0.258	0.500	"	20.0		94.5	80-120			
Toluene	18.9	0.202	0.500	"	20.0		94.5	80-120			
Trichloroethene	18.5	0.223	0.500	"	20.0		92.5	80-120			
Surrogate: 1,2-DCA-d4	*19.8*			"	*20.0*		*99.0 %*	*70-130*			
Surrogate: Toluene-d8	*20.0*			"	*20.0*		*100 %*	*70-130*			
Surrogate: 4-BFB	*20.2*			"	*20.0*		*101 %*	*70-130*			
Matrix Spike (5F30061-MS1)						**Source: B5F0663-09**					
Benzene	18.5	0.226	0.500	ug/l	20.0	ND	92.5	63-148			
Chlorobenzene	17.9	0.236	0.500	"	20.0	ND	89.5	80-128			
1,1-Dichloroethene	19.0	0.287	0.500	"	20.0	ND	95.0	59-158			
Methyl tert-butyl ether	18.0	0.258	0.500	"	20.0	ND	90.0	60-140			
Toluene	18.1	0.202	0.500	"	20.0	ND	90.5	72-127			
Trichloroethene	20.0	0.223	0.500	"	20.0	1.58	92.1	80-126			
Surrogate: 1,2-DCA-d4	*19.3*			"	*20.0*		*96.5 %*	*70-130*			
Surrogate: Toluene-d8	*19.8*			"	*20.0*		*99.0 %*	*70-130*			
Surrogate: 4-BFB	*19.7*			"	*20.0*		*98.5 %*	*70-130*			
Matrix Spike Dup (5F30061-MSD1)						**Source: B5F0663-09**					**A-01**
Benzene	17.4	0.226	0.500	ug/l	20.0	ND	87.0	63-148	6.13	20	
Chlorobenzene	17.7	0.236	0.500	"	20.0	ND	88.5	80-128	1.12	20	
1,1-Dichloroethene	18.7	0.287	0.500	"	20.0	ND	93.5	59-158	1.59	30	
Methyl tert-butyl ether	17.4	0.258	0.500	"	20.0	ND	87.0	60-140	3.39	30	
Toluene	17.8	0.202	0.500	"	20.0	ND	89.0	72-127	1.67	20	
Trichloroethene	19.0	0.223	0.500	"	20.0	1.58	87.1	80-126	5.13	20	
Surrogate: 1,2-DCA-d4	*19.2*			"	*20.0*		*96.0 %*	*70-130*			
Surrogate: Toluene-d8	*20.5*			"	*20.0*		*102 %*	*70-130*			
Surrogate: 4-BFB	*19.8*			"	*20.0*		*99.0 %*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
Acetone	ND	0.674	10.0	ug/l							
Benzene	ND	0.0870	0.200	"							
Bromobenzene	ND	0.0440	0.500	"							
Bromochloromethane	ND	0.0730	0.200	"							
Bromodichloromethane	ND	0.0580	0.200	"							
Bromoform	ND	0.0800	0.200	"							
Bromomethane	ND	0.117	2.00	"							
2-Butanone	ND	0.582	2.00	"							
n-Butylbenzene	ND	0.0470	0.200	"							
sec-Butylbenzene	ND	0.0400	0.200	"							
tert-Butylbenzene	ND	0.0520	0.500	"							
Carbon disulfide	ND	0.0420	0.500	"							
Carbon tetrachloride	ND	0.0570	0.200	"							
Chlorobenzene	ND	0.0460	0.200	"							
Chloroethane	ND	0.0620	1.00	"							
Chloroform	ND	0.0490	0.200	"							
Chloromethane	ND	0.102	1.00	"							
2-Chlorotoluene	ND	0.0440	0.500	"							
4-Chlorotoluene	ND	0.102	0.500	"							
Dibromochloromethane	ND	0.0550	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.165	0.500	"							
1,2-Dibromoethane	ND	0.0590	0.200	"							
Dibromomethane	ND	0.0720	0.200	"							
1,2-Dichlorobenzene	ND	0.0200	0.200	"							
1,3-Dichlorobenzene	ND	0.0350	0.200	"							
1,4-Dichlorobenzene	ND	0.0350	0.200	"							
Dichlorodifluoromethane	ND	0.0330	0.500	"							
1,1-Dichloroethane	ND	0.0550	0.200	"							
1,2-Dichloroethane	ND	0.0650	0.200	"							
1,1-Dichloroethene	ND	0.0770	0.200	"							
cis-1,2-Dichloroethene	ND	0.0670	0.200	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
trans-1,2-Dichloroethene	ND	0.0480	0.200	ug/l							
1,2-Dichloropropane	ND	0.0650	0.200	"							
1,3-Dichloropropane	ND	0.0470	0.200	"							
2,2-Dichloropropane	ND	0.0460	0.500	"							
1,1-Dichloropropene	ND	0.0770	0.200	"							
cis-1,3-Dichloropropene	ND	0.0590	0.200	"							
trans-1,3-Dichloropropene	ND	0.0350	0.200	"							
Ethylbenzene	ND	0.0410	0.200	"							
Hexachlorobutadiene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0340	1.00	"							
n-Hexane	ND	0.115	1.00	"							
2-Hexanone	ND	0.377	2.00	"							
Isopropylbenzene	ND	0.0330	0.500	"							
p-Isopropyltoluene	ND	0.0420	0.200	"							
4-Methyl-2-pentanone	ND	0.354	2.00	"							
Methylene chloride	ND	0.281	5.00	"							
Naphthalene	ND	0.0270	0.500	"							
n-Propylbenzene	ND	0.0410	0.500	"							
Styrene	ND	0.0400	0.500	"							
1,2,3-Trichlorobenzene	ND	0.0260	0.200	"							
1,2,4-Trichlorobenzene	ND	0.0190	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.0440	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.0400	0.200	"							
Toluene	ND	0.0390	0.200	"							
1,1,1-Trichloroethane	ND	0.0370	0.200	"							
1,1,2-Trichloroethane	ND	0.0530	0.200	"							
Trichloroethene	ND	0.0490	0.200	"							
Trichlorofluoromethane	ND	0.0500	0.500	"							
1,2,3-Trichloropropane	ND	0.172	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0400	0.200	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
1,3,5-Trimethylbenzene	ND	0.0390	0.500	ug/l							
Vinyl chloride	ND	0.0610	0.200	"							
o-Xylene	ND	0.0380	0.250	"							
m,p-Xylene	ND	0.0730	0.500	"							
Surrogate: 1,2-DCA-d4	*16.0*			"	*20.0*		*80.0 %*	*70-130*			
Surrogate: Toluene-d8	*20.2*			"	*20.0*		*101 %*	*70-130*			
Surrogate: 4-BFB	*21.8*			"	*20.0*		*109 %*	*70-130*			
LCS (5G08059-BS1)											
Benzene	43.4	0.0870	0.200	ug/l	40.0		108	80-120			
Chlorobenzene	43.2	0.0460	0.200	"	40.0		108	77-120			
Chloroform	42.9	0.0490	0.200	"	40.0		107	80-120			
Chloromethane	44.6	0.102	1.00	"	40.0		112	75-125			
1,1-Dichloroethene	44.4	0.0770	0.200	"	40.0		111	80-120			
Methyl tert-butyl ether	40.3	0.0340	1.00	"	40.0		101	80-120			
Methylene chloride	44.1	0.281	5.00	"	40.0		110	75-125			
Toluene	44.2	0.0390	0.200	"	40.0		110	80-120			
Trichloroethene	45.2	0.0490	0.200	"	40.0		113	80-120			
Surrogate: 1,2-DCA-d4	*15.3*			"	*20.0*		*76.5 %*	*70-130*			
Surrogate: Toluene-d8	*19.9*			"	*20.0*		*99.5 %*	*70-130*			
Surrogate: 4-BFB	*22.1*			"	*20.0*		*110 %*	*70-130*			
LCS Dup (5G08059-BSD1)											
Benzene	43.8	0.0870	0.200	ug/l	40.0		110	80-120	0.917	20	
Chlorobenzene	44.6	0.0460	0.200	"	40.0		112	77-120	3.19	20	
Chloroform	42.8	0.0490	0.200	"	40.0		107	80-120	0.233	20	
Chloromethane	44.5	0.102	1.00	"	40.0		111	75-125	0.224	20	
1,1-Dichloroethene	45.1	0.0770	0.200	"	40.0		113	80-120	1.56	20	
Methyl tert-butyl ether	41.0	0.0340	1.00	"	40.0		102	80-120	1.72	20	
Methylene chloride	44.3	0.281	5.00	"	40.0		111	75-125	0.452	20	
Toluene	45.6	0.0390	0.200	"	40.0		114	80-120	3.12	20	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08059-BSD1)											
Trichloroethene	46.0	0.0490	0.200	ug/l	40.0		115	80-120	1.75	20	
Surrogate: 1,2-DCA-d4	*15.4*			"	*20.0*		*77.0 %*	*70-130*			
Surrogate: Toluene-d8	*20.2*			"	*20.0*		*101 %*	*70-130*			
Surrogate: 4-BFB	*22.4*			"	*20.0*		*112 %*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G18029: Prepared 07/16/05 Using General Preparation											
Blank (5G18029-BLK1)											
Dissolved Organic Carbon	ND		2.00	mg/l							
LCS (5G18029-BS1)											
Dissolved Organic Carbon	105		2.00	mg/l	111		94.6	80-120			
LCS Dup (5G18029-BSD1)											
Dissolved Organic Carbon	111		2.00	mg/l	111		100	80-120	5.56	20	
Duplicate (5G18029-DUP1)						**Source: B5F0663-14**					
Dissolved Organic Carbon	11.5		2.00	mg/l		18.9			48.7	20	Q-07
Matrix Spike (5G18029-MS1)						**Source: B5F0663-14**					
Dissolved Organic Carbon	109		2.00	mg/l	100	18.9	90.1	80-120			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Hydrocarbons by GC/FID Headspace - Quality Control

North Creek Analytical - Bend

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0507002: Prepared 07/08/05 Using GC Headspace											
Blank (0507002-BLK1)											
Methane	ND		1.20	ug/l							
Ethane	ND		10.0	"							
Ethene	ND		10.0	"							
LCS (0507002-BS1)											
Methane	47.1		1.20	ug/l	56.3		83.7	70-130			
Ethane	104		10.0	"	110		94.5	70-130			
Ethene	126		10.0	"	135		93.3	70-130			
LCS Dup (0507002-BSD1)											
Methane	46.9		1.20	ug/l	56.3		83.3	70-130	0.426	25	
Ethane	103		10.0	"	110		93.6	70-130	0.966	25	
Ethene	125		10.0	"	135		92.6	70-130	0.797	25	
Duplicate (0507002-DUP1)						**Source: B5F0663-13**					
Methane	719		1.20	ug/l		699			2.82	35	
Ethane	ND		10.0	"		ND			NA	35	
Ethene	0.979		10.0	"		0.907			7.64	35	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Blank (5070139-BLK1)											
Benzene	ND	0.110	0.500	ug/l							
Bromobenzene	ND	0.120	0.500	"							
Bromochloromethane	ND	0.0900	0.500	"							
Bromodichloromethane	ND	0.0600	0.500	"							
Bromoform	ND	0.0700	0.500	"							
Bromomethane	ND	0.0900	0.500	"							
n-Butylbenzene	ND	0.100	0.500	"							
sec-Butylbenzene	ND	0.0700	0.500	"							
tert-Butylbenzene	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0800	0.500	"							
Chlorobenzene	ND	0.0800	0.500	"							
Chloroethane	ND	0.0800	0.500	"							
Chloroform	ND	0.0500	0.500	"							
Chloromethane	ND	0.100	0.500	"							
2-Chlorotoluene	ND	0.0700	0.500	"							
4-Chlorotoluene	ND	0.120	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"							
Dibromochloromethane	ND	0.0700	0.500	"							
1,2-Dibromoethane	ND	0.100	0.500	"							
Dibromomethane	ND	0.110	0.500	"							
1,2-Dichlorobenzene	ND	0.0800	0.500	"							
1,3-Dichlorobenzene	ND	0.0800	0.500	"							
1,4-Dichlorobenzene	ND	0.110	0.500	"							
Dichlorodifluoromethane	ND	0.100	0.500	"							
1,1-Dichloroethane	ND	0.0900	0.500	"							
1,2-Dichloroethane	ND	0.0900	0.500	"							
1,1-Dichloroethene	ND	0.140	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.120	0.500	"							
1,2-Dichloropropane	ND	0.0700	0.500	"							
1,3-Dichloropropane	ND	0.0900	0.500	"							

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Blank (5070139-BLK1)											
2,2-Dichloropropane	ND	0.0800	0.500	ug/l							
1,1-Dichloropropene	ND	0.0800	0.500	"							
cis-1,3-Dichloropropene	ND	0.0900	0.500	"							
trans-1,3-Dichloropropene	ND	0.0400	0.500	"							
Ethylbenzene	ND	0.0900	0.500	"							
Hexachlorobutadiene	ND	0.260	0.500	"							
Isopropylbenzene	ND	0.0600	0.500	"							
p-Isopropyltoluene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0600	0.500	"							
Methylene chloride	ND	0.0700	0.500	"							
Naphthalene	ND	0.120	0.500	"							
n-Propylbenzene	ND	0.0600	0.500	"							
Styrene	ND	0.0500	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"							
Tetrachloroethene	ND	0.120	0.500	"							
Toluene	ND	0.0600	0.500	"							
1,2,3-Trichlorobenzene	ND	0.170	0.500	"							
1,2,4-Trichlorobenzene	ND	0.140	0.500	"							
1,1,1-Trichloroethane	ND	0.0900	0.500	"							
1,1,2-Trichloroethane	ND	0.0900	0.500	"							
Trichloroethene	ND	0.100	0.500	"							
Trichlorofluoromethane	ND	0.110	0.500	"							
1,2,3-Trichloropropane	ND	0.130	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"							
Vinyl chloride	ND	0.0700	0.500	"							
Xylenes (total)	ND	0.180	1.00	"							
Surrogate: Dibromofluoromethane	*4.95*			"	*5.00*		*99.0 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.94*			"	*5.00*		*98.8 %*	*70-130*			
Surrogate: Toluene-d8	*4.91*			"	*5.00*		*98.2 %*	*70-130*			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Blank (5070139-BLK1)											
Surrogate: 4-BFB	*4.84*			*"*	*5.00*		*96.8 %*	*70-130*			
LCS (5070139-BS1)											
Benzene	5.59	0.110	0.500	ug/l	5.00		112	70-130			
Bromobenzene	5.24	0.120	0.500	"	5.00		105	70-130			
Bromochloromethane	5.52	0.0900	0.500	"	5.00		110	70-130			
Bromodichloromethane	5.28	0.0600	0.500	"	5.00		106	70-130			
Bromoform	4.03	0.0700	0.500	"	5.00		80.6	70-130			
Bromomethane	4.34	0.0900	0.500	"	5.00		86.8	70-130			
n-Butylbenzene	4.95	0.100	0.500	"	5.00		99.0	70-130			
sec-Butylbenzene	5.16	0.0700	0.500	"	5.00		103	70-130			
tert-Butylbenzene	5.17	0.0700	0.500	"	5.00		103	70-130			
Carbon tetrachloride	4.55	0.0800	0.500	"	5.00		91.0	70-130			
Chlorobenzene	5.27	0.0800	0.500	"	5.00		105	70-130			
Chloroethane	5.99	0.0800	0.500	"	5.00		120	70-130			
Chloroform	5.40	0.0500	0.500	"	5.00		108	70-130			
Chloromethane	6.17	0.100	0.500	"	5.00		123	70-130			
2-Chlorotoluene	5.15	0.0700	0.500	"	5.00		103	70-130			
4-Chlorotoluene	5.22	0.120	0.500	"	5.00		104	70-130			
1,2-Dibromo-3-chloropropane	4.11	0.180	0.500	"	5.00		82.2	70-130			
Dibromochloromethane	4.36	0.0700	0.500	"	5.00		87.2	70-130			
1,2-Dibromoethane	4.96	0.100	0.500	"	5.00		99.2	70-130			
Dibromomethane	5.40	0.110	0.500	"	5.00		108	70-130			
1,2-Dichlorobenzene	5.12	0.0800	0.500	"	5.00		102	70-130			
1,3-Dichlorobenzene	5.16	0.0800	0.500	"	5.00		103	70-130			
1,4-Dichlorobenzene	4.76	0.110	0.500	"	5.00		95.2	70-130			
Dichlorodifluoromethane	4.34	0.100	0.500	"	5.00		86.8	70-130			
1,1-Dichloroethane	5.55	0.0900	0.500	"	5.00		111	70-130			
1,2-Dichloroethane	5.30	0.0900	0.500	"	5.00		106	70-130			
1,1-Dichloroethene	4.98	0.140	0.500	"	5.00		99.6	70-130			
cis-1,2-Dichloroethene	5.77	0.0700	0.500	"	5.00		115	70-130			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
LCS (5070139-BS1)											
trans-1,2-Dichloroethene	5.68	0.120	0.500	ug/l	5.00		114	70-130			
1,2-Dichloropropane	5.56	0.0700	0.500	"	5.00		111	70-130			
1,3-Dichloropropane	5.43	0.0900	0.500	"	5.00		109	70-130			
2,2-Dichloropropane	3.62	0.0800	0.500	"	5.00		72.4	70-130			
1,1-Dichloropropene	5.54	0.0800	0.500	"	5.00		111	70-130			
cis-1,3-Dichloropropene	4.24	0.0900	0.500	"	5.00		84.8	70-130			
trans-1,3-Dichloropropene	3.68	0.0400	0.500	"	5.00		73.6	70-130			
Ethylbenzene	5.26	0.0900	0.500	"	5.00		105	70-130			
Hexachlorobutadiene	4.53	0.260	0.500	"	5.00		90.6	70-130			
Isopropylbenzene	5.33	0.0600	0.500	"	5.00		107	70-130			
p-Isopropyltoluene	5.03	0.0700	0.500	"	5.00		101	70-130			
Methyl tert-butyl ether	5.14	0.0600	0.500	"	5.00		103	70-130			
Methylene chloride	5.29	0.0700	0.500	"	5.00		106	70-130			
Naphthalene	4.45	0.120	0.500	"	5.00		89.0	70-130			
n-Propylbenzene	5.15	0.0600	0.500	"	5.00		103	70-130			
Styrene	4.53	0.0500	0.500	"	5.00		90.6	70-130			
1,1,1,2-Tetrachloroethane	4.50	0.0700	0.500	"	5.00		90.0	70-130			
1,1,2,2-Tetrachloroethane	4.94	0.100	0.500	"	5.00		98.8	70-130			
Tetrachloroethene	5.43	0.120	0.500	"	5.00		109	70-130			
Toluene	5.36	0.0600	0.500	"	5.00		107	70-130			
1,2,3-Trichlorobenzene	4.68	0.170	0.500	"	5.00		93.6	70-130			
1,2,4-Trichlorobenzene	4.59	0.140	0.500	"	5.00		91.8	70-130			
1,1,1-Trichloroethane	4.97	0.0900	0.500	"	5.00		99.4	70-130			
1,1,2-Trichloroethane	5.25	0.0900	0.500	"	5.00		105	70-130			
Trichloroethene	5.47	0.100	0.500	"	5.00		109	70-130			
Trichlorofluoromethane	5.71	0.110	0.500	"	5.00		114	70-130			
1,2,3-Trichloropropane	4.94	0.130	0.500	"	5.00		98.8	70-130			
1,2,4-Trimethylbenzene	5.09	0.0700	0.500	"	5.00		102	70-130			
1,3,5-Trimethylbenzene	5.16	0.0700	0.500	"	5.00		103	70-130			
Vinyl chloride	6.03	0.0700	0.500	"	5.00		121	70-130			
Surrogate: Dibromofluoromethane	*5.02*			"	*5.00*		*100 %*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
LCS (5070139-BS1)											
Surrogate: 1,2-DCA-d4	*4.97*			*ug/l*	*5.00*		*99.4 %*	*70-130*			
Surrogate: Toluene-d8	*4.90*			*"*	*5.00*		*98.0 %*	*70-130*			
Surrogate: 4-BFB	*5.09*			*"*	*5.00*		*102 %*	*70-130*			
Matrix Spike (5070139-MS1)						**Source: B5F0663-01**					
Benzene	27.4	0.110	0.500	ug/l	25.0	ND	110	70-130			
Bromobenzene	25.3	0.120	0.500	"	25.0	ND	101	70-130			
Bromochloromethane	27.3	0.0900	0.500	"	25.0	ND	109	70-130			
Bromodichloromethane	26.7	0.0600	0.500	"	25.0	ND	107	70-130			
Bromoform	20.8	0.0700	0.500	"	25.0	ND	83.2	70-130			
Bromomethane	20.1	0.0900	0.500	"	25.0	ND	80.4	70-130			
n-Butylbenzene	23.9	0.100	0.500	"	25.0	ND	95.6	70-130			
sec-Butylbenzene	23.9	0.0700	0.500	"	25.0	ND	95.6	70-130			
tert-Butylbenzene	24.4	0.0700	0.500	"	25.0	ND	97.6	70-130			
Carbon tetrachloride	24.0	0.0800	0.500	"	25.0	ND	96.0	70-130			
Chlorobenzene	25.5	0.0800	0.500	"	25.0	ND	102	70-130			
Chloroethane	28.0	0.0800	0.500	"	25.0	ND	112	70-130			
Chloroform	26.1	0.0500	0.500	"	25.0	ND	104	70-130			
Chloromethane	27.8	0.100	0.500	"	25.0	ND	111	70-130			
2-Chlorotoluene	24.3	0.0700	0.500	"	25.0	ND	97.2	70-130			
4-Chlorotoluene	25.5	0.120	0.500	"	25.0	ND	102	70-130			
1,2-Dibromo-3-chloropropane	23.2	0.180	0.500	"	25.0	ND	92.8	70-130			
Dibromochloromethane	22.0	0.0700	0.500	"	25.0	ND	88.0	70-130			
1,2-Dibromoethane	25.7	0.100	0.500	"	25.0	ND	103	70-130			
Dibromomethane	26.0	0.110	0.500	"	25.0	ND	104	70-130			
1,2-Dichlorobenzene	24.0	0.0800	0.500	"	25.0	ND	96.0	70-130			
1,3-Dichlorobenzene	24.3	0.0800	0.500	"	25.0	ND	97.2	70-130			
1,4-Dichlorobenzene	23.2	0.110	0.500	"	25.0	ND	92.8	70-130			
Dichlorodifluoromethane	20.4	0.100	0.500	"	25.0	ND	81.6	70-130			
1,1-Dichloroethane	28.0	0.0900	0.500	"	25.0	ND	112	70-130			
1,2-Dichloroethane	25.8	0.0900	0.500	"	25.0	ND	103	70-130			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Matrix Spike (5070139-MS1)						**Source: B5F0663-01**					
1,1-Dichloroethene	24.5	0.140	0.500	ug/l	25.0	ND	98.0	70-130			
cis-1,2-Dichloroethene	28.2	0.0700	0.500	"	25.0	ND	113	70-130			
trans-1,2-Dichloroethene	26.9	0.120	0.500	"	25.0	ND	108	70-130			
1,2-Dichloropropane	27.4	0.0700	0.500	"	25.0	ND	110	70-130			
1,3-Dichloropropane	26.1	0.0900	0.500	"	25.0	ND	104	70-130			
2,2-Dichloropropane	20.3	0.0800	0.500	"	25.0	ND	81.2	70-130			
1,1-Dichloropropene	28.2	0.0800	0.500	"	25.0	ND	113	70-130			
cis-1,3-Dichloropropene	23.1	0.0900	0.500	"	25.0	ND	92.4	70-130			
trans-1,3-Dichloropropene	21.3	0.0400	0.500	"	25.0	ND	85.2	70-130			
Ethylbenzene	26.5	0.0900	0.500	"	25.0	ND	106	70-130			
Hexachlorobutadiene	20.5	0.260	0.500	"	25.0	ND	82.0	70-130			
Isopropylbenzene	25.7	0.0600	0.500	"	25.0	ND	103	70-130			
p-Isopropyltoluene	24.4	0.0700	0.500	"	25.0	ND	97.6	70-130			
Methyl tert-butyl ether	26.2	0.0600	0.500	"	25.0	ND	105	70-130			
Methylene chloride	25.1	0.0700	0.500	"	25.0	ND	100	70-130			
Naphthalene	22.8	0.120	0.500	"	25.0	ND	91.2	70-130			
n-Propylbenzene	25.7	0.0600	0.500	"	25.0	ND	103	70-130			
Styrene	22.1	0.0500	0.500	"	25.0	ND	88.4	70-130			
1,1,1,2-Tetrachloroethane	24.9	0.0700	0.500	"	25.0	ND	99.6	70-130			
1,1,2,2-Tetrachloroethane	25.1	0.100	0.500	"	25.0	ND	100	70-130			
Tetrachloroethene	28.0	0.120	0.500	"	25.0	1.04	108	70-130			
Toluene	26.7	0.0600	0.500	"	25.0	ND	107	70-130			
1,2,3-Trichlorobenzene	21.2	0.170	0.500	"	25.0	ND	84.8	70-130			
1,2,4-Trichlorobenzene	22.0	0.140	0.500	"	25.0	ND	88.0	70-130			
1,1,1-Trichloroethane	25.1	0.0900	0.500	"	25.0	ND	100	70-130			
1,1,2-Trichloroethane	25.6	0.0900	0.500	"	25.0	ND	102	70-130			
Trichloroethene	26.0	0.100	0.500	"	25.0	ND	104	70-130			
Trichlorofluoromethane	27.2	0.110	0.500	"	25.0	ND	109	70-130			
1,2,3-Trichloropropane	24.3	0.130	0.500	"	25.0	ND	97.2	70-130			
1,2,4-Trimethylbenzene	24.4	0.0700	0.500	"	25.0	ND	97.6	70-130			
1,3,5-Trimethylbenzene	25.1	0.0700	0.500	"	25.0	ND	100	70-130			

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Matrix Spike (5070139-MS1)						**Source: B5F0663-01**					
Vinyl chloride	28.3	0.0700	0.500	ug/l	25.0	ND	113	70-130			
Surrogate: Dibromofluoromethane	*5.00*			"	*5.00*		*100 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.87*			"	*5.00*		*97.4 %*	*70-130*			
Surrogate: Toluene-d8	*5.06*			"	*5.00*		*101 %*	*70-130*			
Surrogate: 4-BFB	*5.01*			"	*5.00*		*100 %*	*70-130*			
Matrix Spike Dup (5070139-MSD1)						**Source: B5F0663-01**					
Benzene	26.6	0.110	0.500	ug/l	25.0	ND	106	70-130	2.96	30	
Bromobenzene	24.6	0.120	0.500	"	25.0	ND	98.4	70-130	2.81	30	
Bromochloromethane	26.4	0.0900	0.500	"	25.0	ND	106	70-130	3.35	30	
Bromodichloromethane	26.6	0.0600	0.500	"	25.0	ND	106	70-130	0.375	30	
Bromoform	21.0	0.0700	0.500	"	25.0	ND	84.0	70-130	0.957	30	
Bromomethane	23.4	0.0900	0.500	"	25.0	ND	93.6	70-130	15.2	30	
n-Butylbenzene	23.6	0.100	0.500	"	25.0	ND	94.4	70-130	1.26	30	
sec-Butylbenzene	23.5	0.0700	0.500	"	25.0	ND	94.0	70-130	1.69	30	
tert-Butylbenzene	24.2	0.0700	0.500	"	25.0	ND	96.8	70-130	0.823	30	
Carbon tetrachloride	24.7	0.0800	0.500	"	25.0	ND	98.8	70-130	2.87	30	
Chlorobenzene	25.0	0.0800	0.500	"	25.0	ND	100	70-130	1.98	30	
Chloroethane	27.3	0.0800	0.500	"	25.0	ND	109	70-130	2.53	30	
Chloroform	25.7	0.0500	0.500	"	25.0	ND	103	70-130	1.54	30	
Chloromethane	27.0	0.100	0.500	"	25.0	ND	108	70-130	2.92	30	
2-Chlorotoluene	23.9	0.0700	0.500	"	25.0	ND	95.6	70-130	1.66	30	
4-Chlorotoluene	25.2	0.120	0.500	"	25.0	ND	101	70-130	1.18	30	
1,2-Dibromo-3-chloropropane	23.7	0.180	0.500	"	25.0	ND	94.8	70-130	2.13	30	
Dibromochloromethane	21.7	0.0700	0.500	"	25.0	ND	86.8	70-130	1.37	30	
1,2-Dibromoethane	25.2	0.100	0.500	"	25.0	ND	101	70-130	1.96	30	
Dibromomethane	25.3	0.110	0.500	"	25.0	ND	101	70-130	2.73	30	
1,2-Dichlorobenzene	23.6	0.0800	0.500	"	25.0	ND	94.4	70-130	1.68	30	
1,3-Dichlorobenzene	23.9	0.0800	0.500	"	25.0	ND	95.6	70-130	1.66	30	
1,4-Dichlorobenzene	22.6	0.110	0.500	"	25.0	ND	90.4	70-130	2.62	30	
Dichlorodifluoromethane	19.3	0.100	0.500	"	25.0	ND	77.2	70-130	5.54	30	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Reported:**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Matrix Spike Dup (5070139-MSD1)						**Source: B5F0663-01**					
1,1-Dichloroethane	27.2	0.0900	0.500	ug/l	25.0	ND	109	70-130	2.90	30	
1,2-Dichloroethane	25.2	0.0900	0.500	"	25.0	ND	101	70-130	2.35	30	
1,1-Dichloroethene	23.7	0.140	0.500	"	25.0	ND	94.8	70-130	3.32	30	
cis-1,2-Dichloroethene	27.6	0.0700	0.500	"	25.0	ND	110	70-130	2.15	30	
trans-1,2-Dichloroethene	26.7	0.120	0.500	"	25.0	ND	107	70-130	0.746	30	
1,2-Dichloropropane	26.5	0.0700	0.500	"	25.0	ND	106	70-130	3.34	30	
1,3-Dichloropropane	25.6	0.0900	0.500	"	25.0	ND	102	70-130	1.93	30	
2,2-Dichloropropane	22.4	0.0800	0.500	"	25.0	ND	89.6	70-130	9.84	30	
1,1-Dichloropropene	27.4	0.0800	0.500	"	25.0	ND	110	70-130	2.88	30	
cis-1,3-Dichloropropene	23.5	0.0900	0.500	"	25.0	ND	94.0	70-130	1.72	30	
trans-1,3-Dichloropropene	21.8	0.0400	0.500	"	25.0	ND	87.2	70-130	2.32	30	
Ethylbenzene	25.8	0.0900	0.500	"	25.0	ND	103	70-130	2.68	30	
Hexachlorobutadiene	21.3	0.260	0.500	"	25.0	ND	85.2	70-130	3.83	30	
Isopropylbenzene	25.1	0.0600	0.500	"	25.0	ND	100	70-130	2.36	30	
p-Isopropyltoluene	23.9	0.0700	0.500	"	25.0	ND	95.6	70-130	2.07	30	
Methyl tert-butyl ether	26.5	0.0600	0.500	"	25.0	ND	106	70-130	1.14	30	
Methylene chloride	24.8	0.0700	0.500	"	25.0	ND	99.2	70-130	1.20	30	
Naphthalene	22.9	0.120	0.500	"	25.0	ND	91.6	70-130	0.438	30	
n-Propylbenzene	25.3	0.0600	0.500	"	25.0	ND	101	70-130	1.57	30	
Styrene	21.4	0.0500	0.500	"	25.0	ND	85.6	70-130	3.22	30	
1,1,1,2-Tetrachloroethane	25.4	0.0700	0.500	"	25.0	ND	102	70-130	1.99	30	
1,1,2,2-Tetrachloroethane	24.7	0.100	0.500	"	25.0	ND	98.8	70-130	1.61	30	
Tetrachloroethene	27.1	0.120	0.500	"	25.0	1.04	104	70-130	3.27	30	
Toluene	26.0	0.0600	0.500	"	25.0	ND	104	70-130	2.66	30	
1,2,3-Trichlorobenzene	21.4	0.170	0.500	"	25.0	ND	85.6	70-130	0.939	30	
1,2,4-Trichlorobenzene	21.7	0.140	0.500	"	25.0	ND	86.8	70-130	1.37	30	
1,1,1-Trichloroethane	25.5	0.0900	0.500	"	25.0	ND	102	70-130	1.58	30	
1,1,2-Trichloroethane	25.3	0.0900	0.500	"	25.0	ND	101	70-130	1.18	30	
Trichloroethene	25.1	0.100	0.500	"	25.0	ND	100	70-130	3.52	30	
Trichlorofluoromethane	26.3	0.110	0.500	"	25.0	ND	105	70-130	3.36	30	
1,2,3-Trichloropropane	24.1	0.130	0.500	"	25.0	ND	96.4	70-130	0.826	30	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5070139: Prepared 07/06/05 Using EPA 5030B											
Matrix Spike Dup (5070139-MSD1)						**Source: B5F0663-01**					
1,2,4-Trimethylbenzene	23.8	0.0700	0.500	ug/l	25.0	ND	95.2	70-130	2.49	30	
1,3,5-Trimethylbenzene	24.3	0.0700	0.500	"	25.0	ND	97.2	70-130	3.24	30	
Vinyl chloride	27.3	0.0700	0.500	"	25.0	ND	109	70-130	3.60	30	
Surrogate: Dibromofluoromethane	*5.06*			*"*	*5.00*		*101 %*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.83*			*"*	*5.00*		*96.6 %*	*70-130*			
Surrogate: Toluene-d8	*5.07*			*"*	*5.00*		*101 %*	*70-130*			
Surrogate: 4-BFB	*5.02*			*"*	*5.00*		*100 %*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Reported:** 07/22/05 10:20

Notes and Definitions

A-01	MSD was analyzed 20 minutes outside of 12hr QC window.
E	Estimated value. The reported value exceeds the calibration range of the analysis.
J	Estimated value.
Q-07	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
X	See case narrative.
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

Revised Chain of Custody

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CHAIN OF CUSTODY REPORT

Work Order #: B5F0663

NCA CLIENT: BNSF Kennedy/Jenks

REPORT TO:
ADDRESS: John Lee
KJ Federal Way
PHONE: (253) 874-0555 FAX:

INVOICE TO: Julie Reid
KJ Portland

P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES: VOC 524.2 | VOC 8260B | VOC 8260B MS/MSD

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260B	VOC 8260B MS/MSD	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	94-1	6/24/05 1615	X			W	3		-01
2	94-2	6/25/05 0930	X				3		-02
3	92-2	1030		X			3		-03
4	89-2	1120	X				3		-04
5	L-88-10	1210		X			3		-05
6	Rainbow	1250	X				3		-06
7	3	1510	X				3		-07
8	6	1600	X				3		-08
9	L-88-13	6/26/05 1040	X		X		6		-09
10	Trip blank								-10

RELEASED BY: [signature] DATE: 6/27/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1530

RECEIVED BY: Colette Weaver DATE: 06/28/05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 2.9°C W/CS

PAGE 1 OF 2

COC REV 09/04

nca

Revised Chain of Custody

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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: B5F0668

NCA CLIENT: BNSF - Kennedy Jenks

REPORT TO: John Lee

ADDRESS: KJ Federal Way

PHONE: 253 874-0555 FAX:

INVOICE TO: Julie Reid KJ Portland

P.O. NUMBER:

PROJECT NAME: BNSF Livingston

PROJECT NUMBER: 0596021.16

SAMPLED BY: Matt Gibson

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 1 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	gases RSK175	DOC 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-dup	6/26/05 0800		X			W	3		-11
2	89-6	1315	X					3		-12
3	L-87-2	1430	X	~~X~~	X	X		7		-13
4	89-4	1545		X	X	X		7		-14
5										
6										
7										
8										
9										
10										

X: Analysis changed to 524.2 As per Sara Krata - Kennedy / Jenks

RELEASED BY: [signature] DATE: 6/27/05

PRINT NAME: Matt Gibson FIRM: KJ TIME: 1530

RECEIVED BY: Colette Weaver DATE: 06/28/05

PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:

PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 2.9C

COC REV 09/04

nca

Revised Chain of Custody

11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: B5F0663

NCA CLIENT: BNSF Kennedy Jenks
REPORT TO: John Lee
ADDRESS: KJ Federal Way
PHONE: FAX:

INVOICE TO: Julie Reed / KJ Portland
P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	gases RSK175	DOC 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-87-3	6/26/05 1640		X	X	X	W	7		-15
2	L-87-3 P	↓ 1700		X	~~X~~	~~X~~ no		3		-16
3	92-1	↓ 1800		X	X	X		7		-17
4	90-3	6/27/05 0920		X	X	X		7		-18
5	LS-11	1020		X	X	X		7		-19
6	89-9	1130		X	X	X		7		-20
7	~~89-8~~	~~1250~~	~~X~~		~~X~~	~~X~~		7		
8	~~89-3~~	~~1350~~		~~X~~	~~X~~	~~X~~		7		
9	trip									-21
10										

RELEASED BY: [signature] DATE: 6/27/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1530

RECEIVED BY: Colette Weaver DATE: 06/28/05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

Samples were not @2-6c upon receipt!

TEMP: 1.9°C w/cs

COC REV 09/04

PAGE OF

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CHAIN OF CUSTODY REPORT

Work Order #: B5F0663

NCA CLIENT: BNSF Kennedy/Jenks

REPORT TO: John Lee
ADDRESS: KJ Federal Way
PHONE: (253) 874-0555 FAX:

INVOICE TO: Julie Reid
KJ Portland
P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES: VOC 524.2 | VOC 8260 | VOC 8260 MS/MSD

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	VOC 8260 MS/MSD	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	94-1	6/24/05 1615	X			W	3		-01
2	94-2	6/25/05 0930	X				3		-02
3	92-2	1030		X			3		-03
4	89-2	1120	X				3		-04
5	L-88-10	1210		X			3		-05
6	Rainbow	1250	X				3		-06
7	3	1510	X				3		-07
8	6	1600	X				3		-08
9	L-88-13	6/26/05 1040	X		X		6		-09
10	Trip blank								-10

RELEASED BY: [signature] DATE: 6/27/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1530
RECEIVED BY: Colette Weaver DATE: 06/28/05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:
RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 2.9°C

COC REV 09/04

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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: B5F0660

NCA CLIENT: BNSF - Kennedy Jenks

REPORT TO: John Lee
ADDRESS: KJ Federal Way
PHONE: 253 874-0555 FAX:

INVOICE TO: Julie Reid KJ Portland

P.O. NUMBER:

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Ordson

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	Gases RSK175	DOC 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
PRESERVATIVE			X	X	X					
1	L-dup	6/26/05 0800		X			W	3		-11
2	89-6	1315	X					3		-12
3	L87-2	1430		X	X	X		7		-13
4	89-4	1545		X	X	X		7		-14
5										
6										
7										
8										
9										
10										

RELEASED BY: [signature] DATE: 6/27/05
PRINT NAME: Matt Ordson FIRM: KJ TIME: 1530

RECEIVED BY: Colette Weaver DATE: 06/28/05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 2.9°C

PAGE 2 OF 2

COC REV 09/04

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CHAIN OF CUSTODY REPORT

Work Order #: B5F0663

NCA CLIENT: BNSF Kennedy Jenks
REPORT TO: John Lee
ADDRESS: KJ Federal Way
PHONE: FAX:

INVOICE TO: Julie Reed / KJ Portland
P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	gases RSK175	DOC 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-87-3	6/26/05 1640		X	X	X	W	7		-15
2	L-87-3 P	↓ 1700		X	~~X~~	~~X~~ no		3		-16
3	92-1	↓ 1800		X	X	X		7		-17
4	90-3	6/27/05 0920		X	X	X		7		-18
5	LS-11	1020		X	X	X		7		-19
6	89-9	1130		X	X	X		7		-20
7	~~89-8~~	~~1230~~	~~X~~		~~X~~	~~X~~		7		
8	~~89-3~~	~~1350~~		~~X~~	~~X~~	~~X~~		7		
9	trip									-21
10										

RELEASED BY: [signature] DATE: 6/27/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1530

RECEIVED BY: Colette Weaver DATE: 06/28/05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0920

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

Samples were not @2-6c upon receipt!

TEMP: 1.9°C W/CS

COC REV 09/04

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CASE NARRATIVE for B5F0740 (Amended)

Client: Sarah Kraja
Project Manager: Kennedy/Jenks Consultants
Project Name: BNSF – Livingston, MT
Project Number: 0596021.16

1.0 DESCRIPTION OF CASE

Six water samples and one trip blank were received for analysis of the following: Purgeable Organic Compounds by EPA Method 524.2, Volatile Organic Compounds by EPA Method 8260B, Conventional Chemistry Parameters by APHA/EPA Methods, and Hydrocarbons by GC/FID Headspace.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received on June 29, 2005 and logged in on June 30, 2005. Sample temperature at time of receipt was 2.4 ° C. The analysis for RSK 175 was subcontracted to NCA – Bend. As per clients request, all results for both the Purgeable Organic Compounds and Volatile Organic Compounds are reported down to the MDL. All results between the MDL and the established laboratory reporting limits are qualified as estimated (J-flag).

3.0 PREPARATIONS AND ANALYSIS

Purgeable Organic Compounds by EPA Method 524.2

Due to laboratory error, the compound 1,1,2-trichloro-1,2,2-Trifluoroethane was not analyzed as requested for the project. As per clients request, the compound 1,1,2-trichloro-1,2,2-Trifluoroethane was reported as a Tentatively Identified Compound (TIC).

The result for Tetrachloroethene for laboratory sample B5F0740-04 in analytical batch 5G08052 was reported as an estimated value since the reported value exceeded the calibration range for the instrument. The sample was re-analyzed but was analyzed and reported under the Volatile Organic Compounds by EPA Method 8260B test code.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Organic Compounds by EPA Method 8260B

Due to instrument limitations the following compounds could not be reported at 0.5 ug/l as requested by the client: 2-Chloroethylvinylether, 1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Hexanone, Methylene Chloride, Naphthalene, and m,p-Xylene. The MDL for these compounds were below the o.5 ug/l reporting requested except for the following compounds: 2-Chloroethylvinylether, 1,1,2-Trichloro-1,2,2-trifluoroethane, and 2-Hexanone.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Conventional Chemistry Parameters by APHA/EPA Methods

All criteria for acceptable QC measurements were met with the following exceptions:

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K/J No/File
Route
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The continuing calibration failed slightly high for all laboratory samples in analytical batch 5G18029 for the Dissolved Organic Carbon analysis. The laboratory samples were filtered upon receipt at the laboratory; each sample was analyzed twice, once at a low range and then at a high range, due to the level of dissolved organic compound in the sample. Insufficient sample remained of the filtered sample for any further re-analysis. The QC samples were all in control.

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Hydrocarbons by GC/FID Headspace

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Robert Greer
Project Manager
North Creek Analytical

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04 August 2005

Sarah Kraja
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are **amended** results of analyses for samples received by the laboratory on 06/29/05 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robert Greer
Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
89-8	B5F0740-01	Water	06/27/05 12:50	06/29/05 13:00
89-3	B5F0740-02	Water	06/27/05 13:50	06/29/05 13:00
92-4	B5F0740-03	Water	06/27/05 16:15	06/29/05 13:00
L-87-5	B5F0740-04	Water	06/27/05 17:15	06/29/05 13:00
89-10	B5F0740-05	Water	06/27/05 19:15	06/29/05 13:00
Filter Water	B5F0740-06	Water	06/28/05 10:00	06/29/05 13:00
Trip	B5F0740-07	Water	06/27/05 12:00	06/29/05 13:00

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5F0740-01) Water Sampled: 06/27/05 12:50 Received: 06/29/05 13:00										
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Benzene	ND	0.0520	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.0530	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0680	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0450	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0560	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0580	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0640	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0870	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0610	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.140	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0830	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0720	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0210	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0640	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.0270	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0410	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0440	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0230	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0880	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0470	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0680	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0530	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0500	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0280	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0410	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0970	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0600	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0570	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0270	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.0580	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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.

Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5F0740-01) Water Sampled: 06/27/05 12:50 Received: 06/29/05 13:00										
Styrene	ND	0.0160	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0710	0.500	"	"	"	"	"	"	
Toluene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0890	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.0400	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0630	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.114	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0710	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.0800	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.00900	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*131 %*		*80-120*			"	"	"	"	*S-04*
Surrogate: Toluene-d8	*93.8 %*		*80-120*			"	"	"	"	
Surrogate: 4-BFB	*103 %*		*80-120*			"	"	"	"	
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Benzene	ND	0.0520	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.0530	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0680	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0450	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0560	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0580	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0640	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0870	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0610	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.140	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0830	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0720	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0210	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0640	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.0270	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0410	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0440	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
1,4-Dichlorobenzene	ND	0.0230	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
Dichlorodifluoromethane	ND	0.0880	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0470	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0680	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0530	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.00**	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0500	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0280	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0410	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0970	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0600	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0570	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0270	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.0580	0.500	"	"	"	"	"	"	
Styrene	ND	0.0160	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"	"	"	"	"	"	
Tetrachloroethene	**15.4**	0.0710	0.500	"	"	"	"	"	"	E
Toluene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0890	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
Trichloroethene	**1.13**	0.0400	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0630	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.114	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0710	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.0800	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.00900	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*128 %*		*80-120*			"	"	"	"	*S-04*
Surrogate: Toluene-d8	*95.8 %*		*80-120*			"	"	"	"	
Surrogate: 4-BFB	*99.0 %*		*80-120*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Filter Water (B5F0740-06) Water Sampled: 06/28/05 10:00 Received: 06/29/05 13:00										
1,1,2-trichloro-1,2,2-Trifluoroethane	ND		TIC	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	N
Methyl tert-butyl ether	ND	0.0170	0.500	"	"	"	"	"	"	
Benzene	ND	0.0520	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.0530	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0680	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0450	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0560	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0580	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0640	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0870	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0610	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.140	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0830	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.0720	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0210	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0640	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.0270	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0410	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0440	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0230	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0880	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0470	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0680	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0530	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0500	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0280	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0410	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0970	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0430	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0600	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0570	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.0270	0.500	"	"	"	"	"	"	
Naphthalene	ND	0.0580	0.500	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Filter Water (B5F0740-06) Water	**Sampled: 06/28/05 10:00**		**Received: 06/29/05 13:00**							
Styrene	ND	0.0160	0.500	ug/l	1	5G08052	07/08/05	07/08/05	EPA 524.2	
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.0710	0.500	"	"	"	"	"	"	
Toluene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0890	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0550	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.0400	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0630	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.114	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0710	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.0800	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.00900	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*132 %*		*80-120*			"	"	"	"	*S-04*
Surrogate: Toluene-d8	*93.2 %*		*80-120*			"	"	"	"	
Surrogate: 4-BFB	*100 %*		*80-120*			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5F0740-02) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.41**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5F0740-02) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
Methylene chloride	ND	0.252	5.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**190**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**5.69**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*95.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*70-130*			"	"	"	"	
89-3 (B5F0740-02RE1) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
2-Chloroethylvinyl ether	ND	3.92	25.0	ug/l	5	5F30061	07/05/05	07/06/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.47	10.0	"	"	"	"	"	"	
Benzene	ND	1.13	2.50	"	"	"	"	"	"	
Bromobenzene	ND	1.16	2.50	"	"	"	"	"	"	
Bromochloromethane	ND	1.60	2.50	"	"	"	"	"	"	
Bromodichloromethane	ND	1.08	2.50	"	"	"	"	"	"	
Bromoform	ND	1.00	2.50	"	"	"	"	"	"	
Bromomethane	ND	1.46	2.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.32	2.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.18	2.50	"	"	"	"	"	"	
Chloroethane	ND	1.52	2.50	"	"	"	"	"	"	
Chloroform	ND	1.30	2.50	"	"	"	"	"	"	
Chloromethane	ND	1.73	2.50	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.12	2.50	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.43	2.50	"	"	"	"	"	"	
Dibromochloromethane	ND	1.29	2.50	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5F0740-02RE1) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
1,2-Dibromoethane	ND	1.34	2.50	ug/l	5	5F30061	07/05/05	07/06/05	EPA 8260B	
Dibromomethane	ND	1.09	2.50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.37	2.50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.17	2.50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.24	2.50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.16	2.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.42	2.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.62	2.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.44	2.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.50	2.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.51	2.50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.930	2.50	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.31	2.50	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.910	2.50	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.54	2.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.02	2.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.905	2.50	"	"	"	"	"	"	
Ethylbenzene	ND	1.20	2.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.29	2.50	"	"	"	"	"	"	
2-Hexanone	ND	5.85	25.0	"	"	"	"	"	"	
Methylene chloride	ND	1.26	25.0	"	"	"	"	"	"	
Naphthalene	ND	1.36	5.00	"	"	"	"	"	"	
Styrene	ND	1.10	2.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.12	2.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.28	2.50	"	"	"	"	"	"	
Tetrachloroethene	**203**	1.25	2.50	"	"	"	"	"	"	
Toluene	ND	1.01	2.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.33	2.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.26	2.50	"	"	"	"	"	"	
Trichloroethene	**5.25**	1.12	2.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.905	2.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.47	2.50	"	"	"	"	"	"	
Vinyl chloride	ND	2.45	2.50	"	"	"	"	"	"	
o-Xylene	ND	1.12	2.50	"	"	"	"	"	"	
m,p-Xylene	ND	2.30	5.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*100 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.5 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5F0740-02RE1) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
Surrogate: 4-BFB	*103 %*		*70-130*			*5F30061*	*07/05/05*	*07/06/05*	*EPA 8260B*	
92-4 (B5F0740-03) Water Sampled: 06/27/05 16:15 Received: 06/29/05 13:00										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-4 (B5F0740-03) Water Sampled: 06/27/05 16:15 Received: 06/29/05 13:00										
Methyl tert-butyl ether	ND	0.258	0.500	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**6.52**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**0.650**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*96.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
Benzene	ND	0.0870	0.200	ug/l	1	5G08059	07/08/05	07/08/05	EPA 8260B	
Bromobenzene	ND	0.0440	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0730	0.200	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0580	0.200	"	"	"	"	"	"	
Bromoform	ND	0.0800	0.200	"	"	"	"	"	"	
Bromomethane	ND	0.117	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0570	0.200	"	"	"	"	"	"	
Chlorobenzene	ND	0.0460	0.200	"	"	"	"	"	"	
Chloroethane	ND	0.0620	1.00	"	"	"	"	"	"	
Chloroform	ND	0.0490	0.200	"	"	"	"	"	"	
Chloromethane	ND	0.102	1.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0440	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.102	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0550	0.200	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.0590	0.200	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
Dibromomethane	ND	0.0720	0.200	ug/l	1	5G08059	07/08/05	07/08/05	EPA 8260B	
1,2-Dichlorobenzene	ND	0.0200	0.200	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0350	0.200	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0350	0.200	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.0330	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0550	0.200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0650	0.200	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0770	0.200	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.17**	0.0670	0.200	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0480	0.200	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0650	0.200	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0470	0.200	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0460	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0770	0.200	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0590	0.200	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0350	0.200	"	"	"	"	"	"	
Ethylbenzene	ND	0.0410	0.200	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0340	1.00	"	"	"	"	"	"	
2-Hexanone	ND	0.377	2.00	"	"	"	"	"	"	
Methylene chloride	ND	0.281	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.0270	0.500	"	"	"	"	"	"	
Styrene	ND	0.0400	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0440	0.200	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"	"	"	"	"	"	
Tetrachloroethene	**16.8**	0.0400	0.200	"	"	"	"	"	"	
Toluene	ND	0.0390	0.200	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0370	0.200	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0530	0.200	"	"	"	"	"	"	
Trichloroethene	**1.29**	0.0490	0.200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.0500	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.172	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0610	0.200	"	"	"	"	"	"	
o-Xylene	ND	0.0380	0.250	"	"	"	"	"	"	
m,p-Xylene	ND	0.0730	0.500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*99.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*98.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*108 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-10 (B5F0740-05) Water Sampled: 06/27/05 19:15 Received: 06/29/05 13:00										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**2.17**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-10 (B5F0740-05) Water Sampled: 06/27/05 19:15 Received: 06/29/05 13:00										
Methylene chloride	ND	0.252	5.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**27.0**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**2.38**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*97.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*70-130*			"	"	"	"	
Trip (B5F0740-07) Water Sampled: 06/27/05 12:00 Received: 06/29/05 13:00										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip (B5F0740-07) Water Sampled: 06/27/05 12:00 Received: 06/29/05 13:00										
1,2-Dibromoethane	ND	0.268	0.500	ug/l	1	5F30061	07/05/05	07/06/05	EPA 8260B	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	0.500	"	"	"	"	"	"	
2-Hexanone	ND	1.17	5.00	"	"	"	"	"	"	
Methylene chloride	**0.260**	0.252	5.00	"	"	"	"	"	"	J
Naphthalene	ND	0.271	1.00	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*93.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.5 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip (B5F0740-07) Water Sampled: 06/27/05 12:00 Received: 06/29/05 13:00										
Surrogate: 4-BFB	*102 %*		*70-130*			*5F30061*	*07/05/05*	*07/06/05*	*EPA 8260B*	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5F0740-01) Water Sampled: 06/27/05 12:50 Received: 06/29/05 13:00										
Dissolved Organic Carbon	**18.8**		2.00	mg/l	1	5G18029	06/29/05	07/16/05	EPA 415.1	X
89-3 (B5F0740-02) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
Dissolved Organic Carbon	**17.0**		2.00	mg/l	1	5G18029	06/29/05	07/16/05	EPA 415.1	X
92-4 (B5F0740-03) Water Sampled: 06/27/05 16:15 Received: 06/29/05 13:00										
Dissolved Organic Carbon	**19.4**		2.00	mg/l	1	5G18029	06/29/05	07/16/05	EPA 415.1	X
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
Dissolved Organic Carbon	**19.3**		2.00	mg/l	1	5G18029	06/29/05	07/16/05	EPA 415.1	X
89-10 (B5F0740-05) Water Sampled: 06/27/05 19:15 Received: 06/29/05 13:00										
Dissolved Organic Carbon	**27.4**		2.00	mg/l	1	5G18029	06/29/05	07/16/05	EPA 415.1	X

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Hydrocarbons by GC/FID Headspace
North Creek Analytical - Bend

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5F0740-01) Water Sampled: 06/27/05 12:50 Received: 06/29/05 13:00										
Methane	ND		1.20	ug/l	1	0507003	07/11/05	07/11/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
89-3 (B5F0740-02) Water Sampled: 06/27/05 13:50 Received: 06/29/05 13:00										
Methane	ND		1.20	ug/l	1	0507003	07/11/05	07/11/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
92-4 (B5F0740-03) Water Sampled: 06/27/05 16:15 Received: 06/29/05 13:00										
Methane	ND		1.20	ug/l	1	0507003	07/11/05	07/11/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
L-87-5 (B5F0740-04) Water Sampled: 06/27/05 17:15 Received: 06/29/05 13:00										
Methane	ND		1.20	ug/l	1	0507003	07/11/05	07/11/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	
89-10 (B5F0740-05) Water Sampled: 06/27/05 19:15 Received: 06/29/05 13:00										
Methane	ND		1.20	ug/l	1	0507003	07/11/05	07/11/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK1)											
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l							
Benzene	ND	0.0520	0.500	"							
Bromobenzene	ND	0.0530	0.500	"							
Bromochloromethane	ND	0.0680	0.500	"							
Bromodichloromethane	ND	0.0450	0.500	"							
Bromoform	ND	0.0560	0.500	"							
Bromomethane	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0580	0.500	"							
Chlorobenzene	ND	0.0640	0.500	"							
Chloroethane	ND	0.0870	0.500	"							
Chloroform	ND	0.0610	0.500	"							
Chloromethane	ND	0.140	0.500	"							
2-Chlorotoluene	ND	0.0830	0.500	"							
4-Chlorotoluene	ND	0.0720	0.500	"							
Dibromochloromethane	ND	0.0210	0.500	"							
1,2-Dibromoethane	ND	0.0640	0.500	"							
Dibromomethane	ND	0.0270	0.500	"							
1,2-Dichlorobenzene	ND	0.0410	0.500	"							
1,3-Dichlorobenzene	ND	0.0440	0.500	"							
1,4-Dichlorobenzene	ND	0.0230	0.500	"							
Dichlorodifluoromethane	ND	0.0880	0.500	"							
1,1-Dichloroethane	ND	0.0470	0.500	"							
1,2-Dichloroethane	ND	0.0680	0.500	"							
1,1-Dichloroethene	ND	0.0530	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.0500	0.500	"							
1,2-Dichloropropane	ND	0.0280	0.500	"							
1,3-Dichloropropane	ND	0.0410	0.500	"							
2,2-Dichloropropane	ND	0.0970	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK1)											
1,1-Dichloropropene	ND	0.0430	0.500	ug/l							
cis-1,3-Dichloropropene	ND	0.0430	0.500	"							
trans-1,3-Dichloropropene	ND	0.0600	0.500	"							
Ethylbenzene	ND	0.0570	0.500	"							
Methylene chloride	ND	0.0270	0.500	"							
Naphthalene	ND	0.0580	0.500	"							
Styrene	ND	0.0160	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0550	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0560	0.500	"							
Tetrachloroethene	ND	0.0710	0.500	"							
Toluene	ND	0.0500	0.500	"							
1,1,1-Trichloroethane	ND	0.0890	0.500	"							
1,1,2-Trichloroethane	ND	0.0550	0.500	"							
Trichloroethene	ND	0.0400	0.500	"							
Trichlorofluoromethane	ND	0.0630	0.500	"							
1,2,3-Trichloropropane	ND	0.114	0.500	"							
Vinyl chloride	ND	0.0710	0.500	"							
m,p-Xylene	ND	0.0800	0.500	"							
o-Xylene	ND	0.00900	0.500	"							
Surrogate: 1,2-DCA-d4	*4.12*			"	*4.00*		*103*	*80-120*			
Surrogate: Toluene-d8	*4.07*			"	*4.00*		*102*	*80-120*			
Surrogate: 4-BFB	*4.07*			"	*4.00*		*102*	*80-120*			
Blank (5G08052-BLK2)											
Methyl tert-butyl ether	ND	0.0170	0.500	ug/l							
Benzene	ND	0.0170	0.500	"							
Bromobenzene	ND	0.0320	0.500	"							
Bromochloromethane	ND	0.0550	0.500	"							
Bromodichloromethane	ND	0.0230	0.500	"							
Bromoform	ND	0.0290	0.500	"							
Bromomethane	ND	0.140	0.500	"							

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK2)											
n-Butylbenzene	ND	0.0200	0.500	ug/l							
sec-Butylbenzene	ND	0.0150	0.500	"							
tert-Butylbenzene	ND	0.0150	0.500	"							
Carbon tetrachloride	ND	0.0250	0.500	"							
Chlorobenzene	ND	0.0170	0.500	"							
Chloroethane	ND	0.0390	0.500	"							
Chloroform	ND	0.0150	0.500	"							
Chloromethane	ND	0.0590	0.500	"							
2-Chlorotoluene	ND	0.0320	0.500	"							
4-Chlorotoluene	ND	0.0270	0.500	"							
Dibromochloromethane	ND	0.0230	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.118	0.500	"							
1,2-Dibromoethane	ND	0.0400	0.500	"							
Dibromomethane	ND	0.0230	0.500	"							
1,2-Dichlorobenzene	ND	0.0210	0.500	"							
1,3-Dichlorobenzene	ND	0.0150	0.500	"							
1,4-Dichlorobenzene	ND	0.0250	0.500	"							
Dichlorodifluoromethane	ND	0.0440	0.500	"							
1,1-Dichloroethane	ND	0.0200	0.500	"							
1,2-Dichloroethane	ND	0.0430	0.500	"							
1,1-Dichloroethene	ND	0.0210	0.500	"							
cis-1,2-Dichloroethene	ND	0.0290	0.500	"							
trans-1,2-Dichloroethene	ND	0.0240	0.500	"							
1,2-Dichloropropane	ND	0.0190	0.500	"							
1,3-Dichloropropane	ND	0.0240	0.500	"							
2,2-Dichloropropane	ND	0.0350	0.500	"							
1,1-Dichloropropene	ND	0.0350	0.500	"							
cis-1,3-Dichloropropene	ND	0.0210	0.500	"							
trans-1,3-Dichloropropene	ND	0.0250	0.500	"							
Ethylbenzene	ND	0.0200	0.500	"							
Hexachlorobutadiene	ND	0.0480	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08052-BLK2)											
Isopropylbenzene	ND	0.0210	0.500	ug/l							
p-Isopropyltoluene	ND	0.0150	0.500	"							
Methylene chloride	ND	0.0420	0.500	"							
Naphthalene	ND	0.0290	0.500	"							
n-Propylbenzene	ND	0.0150	0.500	"							
Styrene	ND	0.0200	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0330	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0400	0.500	"							
Tetrachloroethene	ND	0.0260	0.500	"							
Toluene	ND	0.0240	0.500	"							
1,2,3-Trichlorobenzene	ND	0.0200	0.500	"							
1,2,4-Trichlorobenzene	ND	0.0260	0.500	"							
1,1,1-Trichloroethane	ND	0.0240	0.500	"							
1,1,2-Trichloroethane	ND	0.0400	0.500	"							
Trichloroethene	ND	0.0380	0.500	"							
Trichlorofluoromethane	ND	0.0410	0.500	"							
1,2,3-Trichloropropane	ND	0.0790	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0100	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0130	0.500	"							
Vinyl chloride	ND	0.0610	0.500	"							
m,p-Xylene	ND	0.0280	0.500	"							
o-Xylene	ND	0.0250	0.500	"							
Surrogate: 1,2-DCA-d4	*3.74*			"	*4.00*		*93.5*	*80-120*			
Surrogate: Toluene-d8	*4.02*			"	*4.00*		*100*	*80-120*			
Surrogate: 4-BFB	*4.07*			"	*4.00*		*102*	*80-120*			
LCS (5G08052-BS1)											
Methyl tert-butyl ether	3.96	0.0170	0.500	ug/l	4.00		99.0	80-120			
Benzene	3.92	0.0520	0.500	"	4.00		98.0	80-120			
Bromobenzene	3.94	0.0530	0.500	"	4.00		98.5	80-120			
Bromochloromethane	3.92	0.0680	0.500	"	4.00		98.0	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS (5G08052-BS1)											
Bromodichloromethane	4.08	0.0450	0.500	ug/l	4.00		102	80-120			
Bromoform	4.21	0.0560	0.500	"	4.00		105	80-120			
Bromomethane	4.46	0.0700	0.500	"	4.00		112	80-120			
n-Butylbenzene	4.00	0.0560	0.500	"	4.00		100	80-120			
sec-Butylbenzene	3.95	0.0180	0.500	"	4.00		98.8	80-120			
tert-Butylbenzene	3.96	0.0470	0.500	"	4.00		99.0	80-120			
Carbon tetrachloride	4.11	0.0580	0.500	"	4.00		103	80-120			
Chlorobenzene	4.02	0.0640	0.500	"	4.00		100	80-120			
Chloroethane	3.85	0.0870	0.500	"	4.00		96.2	80-120			
Chloroform	3.93	0.0610	0.500	"	4.00		98.2	80-120			
Chloromethane	3.75	0.140	0.500	"	4.00		93.8	80-120			
2-Chlorotoluene	4.00	0.0830	0.500	"	4.00		100	80-120			
4-Chlorotoluene	4.16	0.0720	0.500	"	4.00		104	80-120			
Dibromochloromethane	4.25	0.0210	0.500	"	4.00		106	80-120			
1,2-Dibromo-3-chloropropane	4.31	0.176	0.500	"	4.00		108	80-120			
1,2-Dibromoethane	4.15	0.0640	0.500	"	4.00		104	80-120			
Dibromomethane	4.05	0.0270	0.500	"	4.00		101	80-120			
1,2-Dichlorobenzene	3.96	0.0410	0.500	"	4.00		99.0	80-120			
1,3-Dichlorobenzene	3.97	0.0440	0.500	"	4.00		99.2	80-120			
1,4-Dichlorobenzene	3.93	0.0230	0.500	"	4.00		98.2	80-120			
Dichlorodifluoromethane	4.07	0.0880	0.500	"	4.00		102	80-120			
1,1-Dichloroethane	3.97	0.0470	0.500	"	4.00		99.2	80-120			
1,2-Dichloroethane	4.01	0.0680	0.500	"	4.00		100	80-120			
1,1-Dichloroethene	3.91	0.0530	0.500	"	4.00		97.8	80-120			
cis-1,2-Dichloroethene	3.93	0.0700	0.500	"	4.00		98.2	80-120			
trans-1,2-Dichloroethene	3.93	0.0500	0.500	"	4.00		98.2	80-120			
1,2-Dichloropropane	4.04	0.0280	0.500	"	4.00		101	80-120			
1,3-Dichloropropane	4.00	0.0410	0.500	"	4.00		100	80-120			
2,2-Dichloropropane	3.55	0.0970	0.500	"	4.00		88.8	80-120			
1,1-Dichloropropene	3.98	0.0430	0.500	"	4.00		99.5	80-120			
cis-1,3-Dichloropropene	4.05	0.0430	0.500	"	4.00		101	80-120			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS (5G08052-BS1)											
trans-1,3-Dichloropropene	4.13	0.0600	0.500	ug/l	4.00		103	80-120			
Ethylbenzene	4.06	0.0570	0.500	"	4.00		102	80-120			
Hexachlorobutadiene	3.96	0.0700	0.500	"	4.00		99.0	80-120			
Isopropylbenzene	4.10	0.0210	0.500	"	4.00		102	80-120			
p-Isopropyltoluene	4.13	0.0440	0.500	"	4.00		103	80-120			
Methylene chloride	3.91	0.0270	0.500	"	4.00		97.8	80-120			
Naphthalene	3.95	0.0580	0.500	"	4.00		98.8	80-120			
n-Propylbenzene	4.00	0.0480	0.500	"	4.00		100	80-120			
Styrene	4.29	0.0160	0.500	"	4.00		107	80-120			
1,1,1,2-Tetrachloroethane	4.15	0.0550	0.500	"	4.00		104	80-120			
1,1,2,2-Tetrachloroethane	3.84	0.0560	0.500	"	4.00		96.0	80-120			
Tetrachloroethene	4.01	0.0710	0.500	"	4.00		100	80-120			
Toluene	4.02	0.0500	0.500	"	4.00		100	80-120			
1,2,3-Trichlorobenzene	3.91	0.0700	0.500	"	4.00		97.8	80-120			
1,2,4-Trichlorobenzene	4.00	0.0500	0.500	"	4.00		100	80-120			
1,1,1-Trichloroethane	3.96	0.0890	0.500	"	4.00		99.0	80-120			
1,1,2-Trichloroethane	4.11	0.0550	0.500	"	4.00		103	80-120			
Trichloroethene	4.03	0.0400	0.500	"	4.00		101	80-120			
Trichlorofluoromethane	3.97	0.0630	0.500	"	4.00		99.2	80-120			
1,2,3-Trichloropropane	3.66	0.114	0.500	"	4.00		91.5	80-120			
1,2,4-Trimethylbenzene	4.06	0.0460	0.500	"	4.00		102	80-120			
1,3,5-Trimethylbenzene	4.13	0.0120	0.500	"	4.00		103	80-120			
Vinyl chloride	3.86	0.0710	0.500	"	4.00		96.5	80-120			
m,p-Xylene	8.06	0.0800	0.500	"	8.00		101	80-120			
o-Xylene	4.15	0.00900	0.500	"	4.00		104	80-120			
Surrogate: 1,2-DCA-d4	*3.99*			"	*4.00*		*99.8*	*80-120*			
Surrogate: Toluene-d8	*4.10*			"	*4.00*		*102*	*80-120*			
Surrogate: 4-BFB	*4.01*			"	*4.00*		*100*	*80-120*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08052-BSD1)											
Methyl tert-butyl ether	4.06	0.0170	0.500	ug/l	4.00		102	80-120	2.49	20	
Benzene	3.85	0.0520	0.500	"	4.00		96.2	80-120	1.80	20	
Bromobenzene	3.85	0.0530	0.500	"	4.00		96.2	80-120	2.31	20	
Bromochloromethane	3.99	0.0680	0.500	"	4.00		99.8	80-120	1.77	20	
Bromodichloromethane	3.95	0.0450	0.500	"	4.00		98.8	80-120	3.24	20	
Bromoform	4.07	0.0560	0.500	"	4.00		102	80-120	3.38	20	
Bromomethane	4.37	0.0700	0.500	"	4.00		109	80-120	2.04	20	
n-Butylbenzene	4.04	0.0560	0.500	"	4.00		101	80-120	0.995	20	
sec-Butylbenzene	3.97	0.0180	0.500	"	4.00		99.2	80-120	0.505	20	
tert-Butylbenzene	3.99	0.0470	0.500	"	4.00		99.8	80-120	0.755	20	
Carbon tetrachloride	3.93	0.0580	0.500	"	4.00		98.2	80-120	4.48	20	
Chlorobenzene	3.91	0.0640	0.500	"	4.00		97.8	80-120	2.77	20	
Chloroethane	3.89	0.0870	0.500	"	4.00		97.2	80-120	1.03	20	
Chloroform	3.89	0.0610	0.500	"	4.00		97.2	80-120	1.02	20	
Chloromethane	3.73	0.140	0.500	"	4.00		93.2	80-120	0.535	20	
2-Chlorotoluene	3.99	0.0830	0.500	"	4.00		99.8	80-120	0.250	20	
4-Chlorotoluene	3.95	0.0720	0.500	"	4.00		98.8	80-120	5.18	20	
Dibromochloromethane	4.13	0.0210	0.500	"	4.00		103	80-120	2.86	20	
1,2-Dibromo-3-chloropropane	4.02	0.176	0.500	"	4.00		100	80-120	6.96	20	
1,2-Dibromoethane	4.03	0.0640	0.500	"	4.00		101	80-120	2.93	20	
Dibromomethane	3.95	0.0270	0.500	"	4.00		98.8	80-120	2.50	20	
1,2-Dichlorobenzene	3.91	0.0410	0.500	"	4.00		97.8	80-120	1.27	20	
1,3-Dichlorobenzene	3.97	0.0440	0.500	"	4.00		99.2	80-120	0.00	20	
1,4-Dichlorobenzene	3.93	0.0230	0.500	"	4.00		98.2	80-120	0.00	20	
Dichlorodifluoromethane	4.10	0.0880	0.500	"	4.00		102	80-120	0.734	20	
1,1-Dichloroethane	3.96	0.0470	0.500	"	4.00		99.0	80-120	0.252	20	
1,2-Dichloroethane	3.95	0.0680	0.500	"	4.00		98.8	80-120	1.51	20	
1,1-Dichloroethene	3.98	0.0530	0.500	"	4.00		99.5	80-120	1.77	20	
cis-1,2-Dichloroethene	3.94	0.0700	0.500	"	4.00		98.5	80-120	0.254	20	
trans-1,2-Dichloroethene	3.91	0.0500	0.500	"	4.00		97.8	80-120	0.510	20	
1,2-Dichloropropane	3.83	0.0280	0.500	"	4.00		95.8	80-120	5.34	20	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08052-BSD1)											
1,3-Dichloropropane	3.92	0.0410	0.500	ug/l	4.00		98.0	80-120	2.02	20	
2,2-Dichloropropane	3.51	0.0970	0.500	"	4.00		87.8	80-120	1.13	20	
1,1-Dichloropropene	3.92	0.0430	0.500	"	4.00		98.0	80-120	1.52	20	
cis-1,3-Dichloropropene	3.90	0.0430	0.500	"	4.00		97.5	80-120	3.77	20	
trans-1,3-Dichloropropene	4.04	0.0600	0.500	"	4.00		101	80-120	2.20	20	
Ethylbenzene	3.94	0.0570	0.500	"	4.00		98.5	80-120	3.00	20	
Hexachlorobutadiene	3.92	0.0700	0.500	"	4.00		98.0	80-120	1.02	20	
Isopropylbenzene	4.06	0.0210	0.500	"	4.00		102	80-120	0.980	20	
p-Isopropyltoluene	4.04	0.0440	0.500	"	4.00		101	80-120	2.20	20	
Methylene chloride	3.94	0.0270	0.500	"	4.00		98.5	80-120	0.764	20	
Naphthalene	4.11	0.0580	0.500	"	4.00		103	80-120	3.97	20	
n-Propylbenzene	4.03	0.0480	0.500	"	4.00		101	80-120	0.747	20	
Styrene	4.16	0.0160	0.500	"	4.00		104	80-120	3.08	20	
1,1,1,2-Tetrachloroethane	4.06	0.0550	0.500	"	4.00		102	80-120	2.19	20	
1,1,2,2-Tetrachloroethane	3.97	0.0560	0.500	"	4.00		99.2	80-120	3.33	20	
Tetrachloroethene	3.84	0.0710	0.500	"	4.00		96.0	80-120	4.33	20	
Toluene	3.86	0.0500	0.500	"	4.00		96.5	80-120	4.06	20	
1,2,3-Trichlorobenzene	4.01	0.0700	0.500	"	4.00		100	80-120	2.53	20	
1,2,4-Trichlorobenzene	3.99	0.0500	0.500	"	4.00		99.8	80-120	0.250	20	
1,1,1-Trichloroethane	3.95	0.0890	0.500	"	4.00		98.8	80-120	0.253	20	
1,1,2-Trichloroethane	4.02	0.0550	0.500	"	4.00		100	80-120	2.21	20	
Trichloroethene	3.80	0.0400	0.500	"	4.00		95.0	80-120	5.87	20	
Trichlorofluoromethane	3.92	0.0630	0.500	"	4.00		98.0	80-120	1.27	20	
1,2,3-Trichloropropane	3.88	0.114	0.500	"	4.00		97.0	80-120	5.84	20	
1,2,4-Trimethylbenzene	4.00	0.0460	0.500	"	4.00		100	80-120	1.49	20	
1,3,5-Trimethylbenzene	3.97	0.0120	0.500	"	4.00		99.2	80-120	3.95	20	
Vinyl chloride	3.89	0.0710	0.500	"	4.00		97.2	80-120	0.774	20	
m,p-Xylene	7.93	0.0800	0.500	"	8.00		99.1	80-120	1.63	20	
o-Xylene	4.01	0.00900	0.500	"	4.00		100	80-120	3.43	20	
Surrogate: 1,2-DCA-d4	*4.01*			"	*4.00*		*100*	*80-120*			
Surrogate: Toluene-d8	*4.09*			"	*4.00*		*102*	*80-120*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Purgeable Organic Compounds by EPA Method 524.2 - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08052: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08052-BSD1)											
Surrogate: 4-BFB	*3.97*			*"*	*4.00*		*99.2*	*80-120*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
Blank (5F30061-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.894	2.00	ug/l							
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Benzene	ND	0.226	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	0.500	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	0.500	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
Blank (5F30061-BLK1)											
cis-1,3-Dichloropropene	ND	0.205	0.500	ug/l							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	0.500	"							
n-Hexane	ND	0.129	0.500	"							
2-Hexanone	ND	1.17	5.00	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	0.480	0.271	1.00	"							J
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*19.9*			"	*20.0*		*99.5*	*70-130*			
Surrogate: Toluene-d8	*19.9*			"	*20.0*		*99.5*	*70-130*			
Surrogate: 4-BFB	*20.5*			"	*20.0*		*102*	*70-130*			
LCS (5F30061-BS1)											
Benzene	18.7	0.226	0.500	ug/l	20.0		93.5	80-120			
Chlorobenzene	19.1	0.236	0.500	"	20.0		95.5	77-120			
1,1-Dichloroethene	18.9	0.287	0.500	"	20.0		94.5	80-120			
Methyl tert-butyl ether	18.9	0.258	0.500	"	20.0		94.5	80-120			
Toluene	18.9	0.202	0.500	"	20.0		94.5	80-120			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5F30061: Prepared 07/01/05 Using EPA 5030B											
LCS (5F30061-BS1)											
Trichloroethene	18.5	0.223	0.500	ug/l	20.0		92.5	80-120			
Surrogate: 1,2-DCA-d4	*19.8*			"	*20.0*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*20.0*			"	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*20.2*			"	*20.0*		*101*	*70-130*			
Matrix Spike (5F30061-MS1)						**Source: B5F0663-09**					
Benzene	18.5	0.226	0.500	ug/l	20.0	ND	92.5	63-148			
Chlorobenzene	17.9	0.236	0.500	"	20.0	ND	89.5	80-128			
1,1-Dichloroethene	19.0	0.287	0.500	"	20.0	ND	95.0	59-158			
Methyl tert-butyl ether	18.0	0.258	0.500	"	20.0	ND	90.0	60-140			
Toluene	18.1	0.202	0.500	"	20.0	ND	90.5	72-127			
Trichloroethene	20.0	0.223	0.500	"	20.0	1.58	92.1	80-126			
Surrogate: 1,2-DCA-d4	*19.3*			"	*20.0*		*96.5*	*70-130*			
Surrogate: Toluene-d8	*19.8*			"	*20.0*		*99.0*	*70-130*			
Surrogate: 4-BFB	*19.7*			"	*20.0*		*98.5*	*70-130*			
Matrix Spike Dup (5F30061-MSD1)						**Source: B5F0663-09**					**A-01**
Benzene	17.4	0.226	0.500	ug/l	20.0	ND	87.0	63-148	6.13	20	
Chlorobenzene	17.7	0.236	0.500	"	20.0	ND	88.5	80-128	1.12	20	
1,1-Dichloroethene	18.7	0.287	0.500	"	20.0	ND	93.5	59-158	1.59	30	
Methyl tert-butyl ether	17.4	0.258	0.500	"	20.0	ND	87.0	60-140	3.39	30	
Toluene	17.8	0.202	0.500	"	20.0	ND	89.0	72-127	1.67	20	
Trichloroethene	19.0	0.223	0.500	"	20.0	1.58	87.1	80-126	5.13	20	
Surrogate: 1,2-DCA-d4	*19.2*			"	*20.0*		*96.0*	*70-130*			
Surrogate: Toluene-d8	*20.5*			"	*20.0*		*102*	*70-130*			
Surrogate: 4-BFB	*19.8*			"	*20.0*		*99.0*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
Acetone	ND	0.674	10.0	ug/l							
Benzene	ND	0.0870	0.200	"							
Bromobenzene	ND	0.0440	0.500	"							
Bromochloromethane	ND	0.0730	0.200	"							
Bromodichloromethane	ND	0.0580	0.200	"							
Bromoform	ND	0.0800	0.200	"							
Bromomethane	ND	0.117	2.00	"							
2-Butanone	ND	0.582	2.00	"							
n-Butylbenzene	ND	0.0470	0.200	"							
sec-Butylbenzene	ND	0.0400	0.200	"							
tert-Butylbenzene	ND	0.0520	0.500	"							
Carbon disulfide	ND	0.0420	0.500	"							
Carbon tetrachloride	ND	0.0570	0.200	"							
Chlorobenzene	ND	0.0460	0.200	"							
Chloroethane	ND	0.0620	1.00	"							
Chloroform	ND	0.0490	0.200	"							
Chloromethane	ND	0.102	1.00	"							
2-Chlorotoluene	ND	0.0440	0.500	"							
4-Chlorotoluene	ND	0.102	0.500	"							
Dibromochloromethane	ND	0.0550	0.200	"							
1,2-Dibromo-3-chloropropane	ND	0.165	0.500	"							
1,2-Dibromoethane	ND	0.0590	0.200	"							
Dibromomethane	ND	0.0720	0.200	"							
1,2-Dichlorobenzene	ND	0.0200	0.200	"							
1,3-Dichlorobenzene	ND	0.0350	0.200	"							
1,4-Dichlorobenzene	ND	0.0350	0.200	"							
Dichlorodifluoromethane	ND	0.0330	0.500	"							
1,1-Dichloroethane	ND	0.0550	0.200	"							
1,2-Dichloroethane	ND	0.0650	0.200	"							
1,1-Dichloroethene	ND	0.0770	0.200	"							
cis-1,2-Dichloroethene	ND	0.0670	0.200	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: Sarah Kraja	Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
trans-1,2-Dichloroethene	ND	0.0480	0.200	ug/l							
1,2-Dichloropropane	ND	0.0650	0.200	"							
1,3-Dichloropropane	ND	0.0470	0.200	"							
2,2-Dichloropropane	ND	0.0460	0.500	"							
1,1-Dichloropropene	ND	0.0770	0.200	"							
cis-1,3-Dichloropropene	ND	0.0590	0.200	"							
trans-1,3-Dichloropropene	ND	0.0350	0.200	"							
Ethylbenzene	ND	0.0410	0.200	"							
Hexachlorobutadiene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0340	1.00	"							
n-Hexane	ND	0.115	1.00	"							
2-Hexanone	ND	0.377	2.00	"							
Isopropylbenzene	ND	0.0330	0.500	"							
p-Isopropyltoluene	ND	0.0420	0.200	"							
4-Methyl-2-pentanone	ND	0.354	2.00	"							
Methylene chloride	ND	0.281	5.00	"							
Naphthalene	ND	0.0270	0.500	"							
n-Propylbenzene	ND	0.0410	0.500	"							
Styrene	ND	0.0400	0.500	"							
1,2,3-Trichlorobenzene	ND	0.0260	0.200	"							
1,2,4-Trichlorobenzene	ND	0.0190	0.200	"							
1,1,1,2-Tetrachloroethane	ND	0.0440	0.200	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.0400	0.200	"							
Toluene	ND	0.0390	0.200	"							
1,1,1-Trichloroethane	ND	0.0370	0.200	"							
1,1,2-Trichloroethane	ND	0.0530	0.200	"							
Trichloroethene	ND	0.0490	0.200	"							
Trichlorofluoromethane	ND	0.0500	0.500	"							
1,2,3-Trichloropropane	ND	0.172	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0400	0.200	"							

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Kennedy/Jenks Consultants
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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
Blank (5G08059-BLK1)											
1,3,5-Trimethylbenzene	ND	0.0390	0.500	ug/l							
Vinyl chloride	ND	0.0610	0.200	"							
o-Xylene	ND	0.0380	0.250	"							
m,p-Xylene	ND	0.0730	0.500	"							
Surrogate: 1,2-DCA-d4	*16.0*			"	*20.0*		*80.0*	*70-130*			
Surrogate: Toluene-d8	*20.2*			"	*20.0*		*101*	*70-130*			
Surrogate: 4-BFB	*21.8*			"	*20.0*		*109*	*70-130*			
LCS (5G08059-BS1)											
Benzene	43.4	0.0870	0.200	ug/l	40.0		108	80-120			
Chlorobenzene	43.2	0.0460	0.200	"	40.0		108	77-120			
Chloroform	42.9	0.0490	0.200	"	40.0		107	80-120			
Chloromethane	44.6	0.102	1.00	"	40.0		112	75-125			
1,1-Dichloroethene	44.4	0.0770	0.200	"	40.0		111	80-120			
Methyl tert-butyl ether	40.3	0.0340	1.00	"	40.0		101	80-120			
Methylene chloride	44.1	0.281	5.00	"	40.0		110	75-125			
Toluene	44.2	0.0390	0.200	"	40.0		110	80-120			
Trichloroethene	45.2	0.0490	0.200	"	40.0		113	80-120			
Surrogate: 1,2-DCA-d4	*15.3*			"	*20.0*		*76.5*	*70-130*			
Surrogate: Toluene-d8	*19.9*			"	*20.0*		*99.5*	*70-130*			
Surrogate: 4-BFB	*22.1*			"	*20.0*		*110*	*70-130*			
LCS Dup (5G08059-BSD1)											
Benzene	43.8	0.0870	0.200	ug/l	40.0		110	80-120	0.917	20	
Chlorobenzene	44.6	0.0460	0.200	"	40.0		112	77-120	3.19	20	
Chloroform	42.8	0.0490	0.200	"	40.0		107	80-120	0.233	20	
Chloromethane	44.5	0.102	1.00	"	40.0		111	75-125	0.224	20	
1,1-Dichloroethene	45.1	0.0770	0.200	"	40.0		113	80-120	1.56	20	
Methyl tert-butyl ether	41.0	0.0340	1.00	"	40.0		102	80-120	1.72	20	
Methylene chloride	44.3	0.281	5.00	"	40.0		111	75-125	0.452	20	
Toluene	45.6	0.0390	0.200	"	40.0		114	80-120	3.12	20	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Amended Report** Issued: 08/02/05 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G08059: Prepared 07/08/05 Using EPA 5030B											
LCS Dup (5G08059-BSD1)											
Trichloroethene	46.0	0.0490	0.200	ug/l	40.0		115	80-120	1.75	20	
Surrogate: 1,2-DCA-d4	*15.4*			"	*20.0*		*77.0*	*70-130*			
Surrogate: Toluene-d8	*20.2*			"	*20.0*		*101*	*70-130*			
Surrogate: 4-BFB	*22.4*			"	*20.0*		*112*	*70-130*			

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5G18029: Prepared 07/16/05 Using General Preparation											
Blank (5G18029-BLK1)											
Dissolved Organic Carbon	ND		2.00	mg/l							
LCS (5G18029-BS1)											
Dissolved Organic Carbon	105		2.00	mg/l	111		94.6	80-120			
LCS Dup (5G18029-BSD1)											
Dissolved Organic Carbon	111		2.00	mg/l	111		100	80-120	5.56	20	
Duplicate (5G18029-DUP1)						**Source: B5F0663-14**					
Dissolved Organic Carbon	11.5		2.00	mg/l		18.9			48.7	20	Q-07
Matrix Spike (5G18029-MS1)						**Source: B5F0663-14**					
Dissolved Organic Carbon	109		2.00	mg/l	100	18.9	90.1	80-120			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: Sarah Kraja

Amended Report
Issued: 08/02/05 10:51

Hydrocarbons by GC/FID Headspace - Quality Control

North Creek Analytical - Bend

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0507003: Prepared 07/11/05 Using GC Headspace											
Blank (0507003-BLK1)											
Methane	ND		1.20	ug/l							
Ethane	ND		10.0	"							
Ethene	ND		10.0	"							
LCS (0507003-BS1)											
Methane	55.1		1.20	ug/l	56.3		97.9	70-130			
Ethane	122		10.0	"	110		111	70-130			
Ethene	148		10.0	"	135		110	70-130			
LCS Dup (0507003-BSD1)											
Methane	50.4		1.20	ug/l	56.3		89.5	70-130	8.91	25	
Ethane	112		10.0	"	110		102	70-130	8.55	25	
Ethene	135		10.0	"	135		100	70-130	9.19	25	
Duplicate (0507003-DUP1)						**Source: B5F0740-01**					
Methane	ND		1.20	ug/l		ND			NA	35	
Ethane	ND		10.0	"		ND			NA	35	
Ethene	ND		10.0	"		ND			NA	35	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: Sarah Kraja	**Amended Report** Issued: 08/02/05 10:51

Notes and Definitions

A-01	MSD was analyzed 20 minutes outside of 12hr QC window.
E	Estimated value. The reported value exceeds the calibration range of the analysis.
J	Estimated value.
N	Tentatively Identified Compound
Q-07	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
X	See case narrative.
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

Revised Chain of Custody

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CHAIN OF CUSTODY REPORT

Work Order #: B5F0740

NCA CLIENT: BNSF Kennedy Jenks

REPORT TO: John Lee
ADDRESS: KJ Federal Way

PHONE: FAX:

INVOICE TO: Julie Read
KJ Portland

P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST
in Business Days *
Organic & Inorganic Analyses: 10 (STD) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

PRESERVATIVE: X X X

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	GASES RSK175	DOC 415.1									MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	89-8	6/27/05 1250	X		X	X									W	7		01
2	89-3	1350		X	X	X										7		02
3	92-4	1615		X	X	X										7		03
4	L-87-5	1715	X		X	X										7		04
5	89-10	1915		X	X	X										7		05
6	Filter Water	6/28/05 1000	X	~~X~~					X	Analysis changed to 524.2 as per Sara Krata - Kennedy Jenks					X	3		06
7	Trip.																	
8																		
9																		
10																		

RELEASED BY: [signature] DATE: 6/28/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1500

RECEIVED BY: [signature] DATE: 6/29/05
PRINT NAME: Robert Gaeke FIRM: NCA TIME: 1:00pm

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 24

COC REV 09/04

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CHAIN OF CUSTODY REPORT

Work Order #: B5F0740

NCA CLIENT: BNSF Kennedy Jenks

REPORT TO: John Lee
ADDRESS: KJ Federal Way

PHONE: FAX:

INVOICE TO: Julie Read
KJ Portland

P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF Livingston
PROJECT NUMBER: 0596021.16
SAMPLED BY: Matt Gibson

TURNAROUND REQUEST in Business Days *
Organic & Inorganic Analyses: 10 (STD.) 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 5 (STD.) 4 3 2 1 <1
OTHER Specify:
* Turnaround Requests less than standard may incur Rush Charges.

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	Gases RSK175	DOC 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
PRESERVATIVE			X	X	X					
1	89-8	6/27/05 1250	X		X	X	W	7		01
2	89-3	1350		X	X	X		7		02
3	92-4	1615		X	X	X		7		03
4	L-87-5	1715	X		X	X		7		04
5	89-10	1915		X	X	X		7		05
6	Filter Water	6/28/05 1000		X				3		06
7	Trip.									
8										
9										
10										

RELEASED BY: [signature] DATE: 6/28/05
PRINT NAME: Matt Gibson FIRM: KJ TIME: 1500

RECEIVED BY: [signature] DATE: 6/29/05
PRINT NAME: Robert Gaerk FIRM: NCA TIME: 1:00pm

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TEMP: 24

COC REV 09/04

November 2005 Monitoring Event

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AMENDED CASE NARRATIVE for B5K0360

Client: Kennedy/Jenks Consultants
Project Manager: John Lee
Project Name: BNSF – Livingston, MT
Project Number: 0596021.16

Amendments from the original report include:

For the Volatile Organic Compounds by EPA Method 8260B analysis, 1,1,2-Trichloro-1,2,2-trifluoroethane has been included in the list of analytes for the samples included in the report per the client's request. 1,1,2-Trichloro-1,2,2-trifluoroethane was reported out as a tentatively identified compound as the instrument was not calibrated for this specific compound on the day the samples were analyzed. Additionally, the reporting limits (RLs) for the majority of the analytes have been lowered to 0.500 ug/L where possible per the client's request. The lower RLs are supported by the laboratory method detection limits.

For the Volatile Organic Compounds in Drinking Water per EPA 524.2 analysis, Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane) has been included in the list of analytes for the samples included in the report per the client's request.

1.0 DESCRIPTION OF CASE

Four water samples and one trip blank were received for analysis of the following: Volatile Organic Compounds by EPA Method 8260B and Volatile Organic Compounds in Drinking Water per EPA 524.2.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received on November 17, 2005 by North Creek Analytical Bothell. The temperature of the samples at the time of receipt was 2.3° C. The analysis for Volatile Organic Compounds in Drinking Water per EPA 524.2 was subcontracted to NCA – Beaverton. Volatile organic analysis was added per the client's request to the trip blank submitted on the chain of custody.

3.0 PREPARATIONS AND ANALYSIS

Volatile Organic Compounds by EPA Method 8260B

No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Volatile Organic Compounds in Drinking Water per EPA 524.2

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Kate Haney

Kate Haney
Project Manager
North Creek Analytical

RECEIVED
DEC 30 2005
K/J Federal Way

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28 December 2005

John Lee
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are **amended** results of analyses for samples received by the laboratory on 11/17/05 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kate Haney
Project Manager

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Kennedy/Jenks Consultants
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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
94-2	B5K0360-01	Water	11/16/05 10:00	11/17/05 09:30
92-2	B5K0360-02	Water	11/16/05 11:15	11/17/05 09:30
L-88-10	B5K0360-03	Water	11/16/05 12:50	11/17/05 09:30
89-4	B5K0360-04	Water	11/16/05 14:40	11/17/05 09:30
trip blank	B5K0360-05	Water	11/16/05 12:00	11/17/05 09:30

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-2 (B5K0360-02) Water Sampled: 11/16/05 11:15 Received: 11/17/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.420**	0.299	0.500	"	"	"	"	"	"	J
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-2 (B5K0360-02) Water Sampled: 11/16/05 11:15 Received: 11/17/05 09:30										
Methyl tert-butyl ether	ND	0.258	2.00	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	Q-40
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**14.4**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**0.950**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*91.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*106 %*		*70-130*			"	"	"	"	
L-88-10 (B5K0360-03) Water Sampled: 11/16/05 12:50 Received: 11/17/05 09:30										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	"	"	"	"	"	"	N
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	**4.03**	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	**1.80**	0.225	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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.

Kate Haney, Project Manager

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-10 (B5K0360-03) Water Sampled: 11/16/05 12:50 Received: 11/17/05 09:30										
4-Chlorotoluene	ND	0.286	0.500	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	**0.430**	0.274	0.500	"	"	"	"	"	"	J
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	**1.02**	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**9.13**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	Q-40
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**24.9**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**5.36**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants
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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-88-10 (B5K0360-03) Water Sampled: 11/16/05 12:50 Received: 11/17/05 09:30										
Surrogate: 1,2-DCA-d4	*90.5 %*		*70-130*			*5K18054*	*11/18/05*	*11/18/05*	*EPA 8260B*	
Surrogate: Toluene-d8	*96.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	
89-4 (B5K0360-04) Water Sampled: 11/16/05 14:40 Received: 11/17/05 09:30										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	"	"	"	"	"	"	N
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**5.50**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-4 (B5K0360-04) Water Sampled: 11/16/05 14:40 Received: 11/17/05 09:30										
cis-1,3-Dichloropropene	ND	0.205	0.500	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	Q-40
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**78.9**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.38**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*92.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*106 %*		*70-130*			"	"	"	"	
89-4 (B5K0360-04RE1) Water Sampled: 11/16/05 14:40 Received: 11/17/05 09:30										
Tetrachloroethene	**72.1**	1.00	2.00	ug/l	4	5K21037	11/21/05	11/21/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	*97.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (B5K0360-05) Water Sampled: 11/16/05 12:00 Received: 11/17/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (B5K0360-05) Water	**Sampled: 11/16/05 12:00**		**Received: 11/17/05 09:30**							
Methylene chloride	ND	0.252	5.00	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	Q-40
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	**0.270**	0.223	0.500	"	"	"	"	"	"	J
m,p-Xylene	**0.490**	0.460	1.00	"	"	"	"	"	"	J
Surrogate: 1,2-DCA-d4	*89.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*95.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-2 (B5K0360-01) Water Sampled: 11/16/05 10:00 Received: 11/17/05 09:30										
Freon 113	ND	0.500	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Benzene	ND	0.110	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney

Kate Haney, Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
94-2 (B5K0360-01) Water Sampled: 11/16/05 10:00 Received: 11/17/05 09:30										
Hexachlorobutadiene	ND	0.260	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Isopropylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	**0.170**	0.0700	0.500	"	"	"	"	"	"	J
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**0.160**	0.120	0.500	"	"	"	"	"	"	J
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*99.8 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*101 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.6 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*91.0 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l							N
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Acetone	ND	1.91	20.0	"							
Benzene	ND	0.136	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.182	0.500	"							
Bromodichloromethane	ND	0.177	0.500	"							
Bromoform	ND	0.168	0.500	"							
Bromomethane	ND	0.232	2.00	"							
2-Butanone	ND	0.990	10.0	"							
n-Butylbenzene	ND	0.191	0.500	"							
sec-Butylbenzene	ND	0.119	0.500	"							
tert-Butylbenzene	ND	0.0840	0.500	"							
Carbon disulfide	ND	0.308	0.500	"							
Carbon tetrachloride	ND	0.178	0.500	"							
Chlorobenzene	ND	0.0870	0.500	"							
Chloroethane	ND	0.165	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.0910	0.500	"							
Chloromethane	ND	0.196	5.00	"							
2-Chlorotoluene	ND	0.0930	0.500	"							
4-Chlorotoluene	ND	0.0790	0.500	"							
Dibromochloromethane	ND	0.149	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.214	5.00	"							
1,2-Dibromoethane	ND	0.0540	0.500	"							
Dibromomethane	ND	0.202	0.500	"							
1,2-Dichlorobenzene	ND	0.0610	0.500	"							
1,3-Dichlorobenzene	ND	0.0660	0.500	"							
1,4-Dichlorobenzene	ND	0.0520	0.500	"							

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
Dichlorodifluoromethane	ND	0.129	0.500	ug/l							
1,1-Dichloroethane	ND	0.173	0.500	"							
1,2-Dichloroethane	ND	0.143	0.500	"							
1,1-Dichloroethene	ND	0.236	0.500	"							
cis-1,2-Dichloroethene	ND	0.104	0.500	"							
trans-1,2-Dichloroethene	ND	0.214	0.500	"							
1,2-Dichloropropane	ND	0.145	0.500	"							
1,3-Dichloropropane	ND	0.192	0.500	"							
2,2-Dichloropropane	ND	0.138	0.500	"							
1,1-Dichloropropene	ND	0.157	0.500	"							
cis-1,3-Dichloropropene	ND	0.109	0.500	"							
trans-1,3-Dichloropropene	ND	0.155	0.500	"							
Ethylbenzene	ND	0.0990	0.500	"							
Hexachlorobutadiene	ND	0.419	0.500	"							
Methyl tert-butyl ether	ND	0.183	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	2.61	10.0	"							
Isopropylbenzene	ND	0.0610	0.500	"							
p-Isopropyltoluene	ND	0.115	0.500	"							
4-Methyl-2-pentanone	ND	0.960	10.0	"							
Methylene chloride	ND	0.583	5.00	"							Q-40
Naphthalene	ND	0.0570	0.500	"							
n-Propylbenzene	ND	0.0840	0.500	"							
Styrene	ND	0.0680	0.500	"							
1,2,3-Trichlorobenzene	ND	0.118	0.500	"							
1,2,4-Trichlorobenzene	ND	0.128	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.139	0.500	"							
Toluene	ND	0.0890	0.500	"							
1,1,1-Trichloroethane	ND	0.150	0.500	"							

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
1,1,2-Trichloroethane	ND	0.0580	0.500	ug/l							
Trichloroethene	ND	0.150	0.500	"							
Trichlorofluoromethane	ND	0.155	0.500	"							
1,2,3-Trichloropropane	ND	0.111	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0880	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0790	0.500	"							
Vinyl chloride	ND	0.264	0.500	"							
o-Xylene	ND	0.161	0.500	"							
m,p-Xylene	0.270	0.200	1.00	"							J
Surrogate: 1,2-DCA-d4	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*19.3*			"	*20.0*		*96.5*	*70-130*			
Surrogate: 4-BFB	*21.0*			"	*20.0*		*105*	*70-130*			
LCS (5K18054-BS1)											
Benzene	17.5	0.136	0.500	ug/l	20.0		87.5	80-120			
Chlorobenzene	19.0	0.0870	0.500	"	20.0		95.0	80-120			
1,1-Dichloroethene	16.2	0.236	0.500	"	20.0		81.0	80-120			
Methyl tert-butyl ether	16.8	0.183	2.00	"	20.0		84.0	80-120			
Toluene	18.4	0.0890	0.500	"	20.0		92.0	80-120			
Trichloroethene	18.3	0.150	0.500	"	20.0		91.5	80-120			
Surrogate: 1,2-DCA-d4	*18.6*			"	*20.0*		*93.0*	*70-130*			
Surrogate: Toluene-d8	*19.3*			"	*20.0*		*96.5*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104*	*70-130*			
LCS Dup (5K18054-BSD1)											
Benzene	18.9	0.136	0.500	ug/l	20.0		94.5	80-120	7.69	20	
Chlorobenzene	20.3	0.0870	0.500	"	20.0		102	80-120	6.62	20	
1,1-Dichloroethene	17.5	0.236	0.500	"	20.0		87.5	80-120	7.72	20	
Methyl tert-butyl ether	17.2	0.183	2.00	"	20.0		86.0	80-120	2.35	20	
Toluene	20.0	0.0890	0.500	"	20.0		100	80-120	8.33	20	
Trichloroethene	19.8	0.150	0.500	"	20.0		99.0	80-120	7.87	20	

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
LCS Dup (5K18054-BSD1)											
Surrogate: 1,2-DCA-d4	*18.2*			*ug/l*	*20.0*		*91.0*	*70-130*			
Surrogate: Toluene-d8	*19.4*			*"*	*20.0*		*97.0*	*70-130*			
Surrogate: 4-BFB	*20.7*			*"*	*20.0*		*104*	*70-130*			
Matrix Spike (5K18054-MS1)						**Source: B5K0360-02**					
Benzene	18.8	0.226	0.500	ug/l	20.0	ND	94.0	63-148			
Chlorobenzene	20.3	0.236	0.500	"	20.0	ND	102	80-128			
1,1-Dichloroethene	18.5	0.287	0.500	"	20.0	ND	92.5	59-158			
Methyl tert-butyl ether	17.4	0.258	2.00	"	20.0	ND	87.0	60-140			
Toluene	20.4	0.202	0.500	"	20.0	ND	102	72-127			
Trichloroethene	21.2	0.223	0.500	"	20.0	0.950	101	80-126			
Surrogate: 1,2-DCA-d4	*18.1*			*"*	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.5*			*"*	*20.0*		*97.5*	*70-130*			
Surrogate: 4-BFB	*21.0*			*"*	*20.0*		*105*	*70-130*			
Matrix Spike Dup (5K18054-MSD1)						**Source: B5K0360-02**					**A-01**
Benzene	18.4	0.226	0.500	ug/l	20.0	ND	92.0	63-148	2.15	20	
Chlorobenzene	19.7	0.236	0.500	"	20.0	ND	98.5	80-128	3.00	20	
1,1-Dichloroethene	17.4	0.287	0.500	"	20.0	ND	87.0	59-158	6.13	30	
Methyl tert-butyl ether	17.3	0.258	2.00	"	20.0	ND	86.5	60-140	0.576	30	
Toluene	19.5	0.202	0.500	"	20.0	ND	97.5	72-127	4.51	20	
Trichloroethene	20.4	0.223	0.500	"	20.0	0.950	97.2	80-126	3.85	20	
Surrogate: 1,2-DCA-d4	*18.2*			*"*	*20.0*		*91.0*	*70-130*			
Surrogate: Toluene-d8	*19.2*			*"*	*20.0*		*96.0*	*70-130*			
Surrogate: 4-BFB	*20.9*			*"*	*20.0*		*104*	*70-130*			
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l							N
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Acetone	ND	1.91	20.0	"							

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
Benzene	ND	0.136	0.500	ug/l							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.182	0.500	"							
Bromodichloromethane	ND	0.177	0.500	"							
Bromoform	ND	0.168	0.500	"							
Bromomethane	ND	0.232	2.00	"							
2-Butanone	ND	0.990	10.0	"							
n-Butylbenzene	ND	0.191	0.500	"							
sec-Butylbenzene	ND	0.119	0.500	"							
tert-Butylbenzene	ND	0.0840	0.500	"							
Carbon disulfide	ND	0.308	0.500	"							
Carbon tetrachloride	ND	0.178	0.500	"							
Chlorobenzene	ND	0.0870	0.500	"							
Chloroethane	ND	0.165	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.0910	0.500	"							
Chloromethane	ND	0.196	5.00	"							
2-Chlorotoluene	ND	0.0930	0.500	"							
4-Chlorotoluene	ND	0.0790	0.500	"							
Dibromochloromethane	ND	0.149	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.214	5.00	"							
1,2-Dibromoethane	ND	0.0540	0.500	"							
Dibromomethane	ND	0.202	0.500	"							
1,2-Dichlorobenzene	ND	0.0610	0.500	"							
1,3-Dichlorobenzene	ND	0.0660	0.500	"							
1,4-Dichlorobenzene	ND	0.0520	0.500	"							
Dichlorodifluoromethane	ND	0.129	0.500	"							
1,1-Dichloroethane	ND	0.173	0.500	"							
1,2-Dichloroethane	ND	0.143	0.500	"							
1,1-Dichloroethene	ND	0.236	0.500	"							
cis-1,2-Dichloroethene	ND	0.104	0.500	"							

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
trans-1,2-Dichloroethene	ND	0.214	0.500	ug/l							
1,2-Dichloropropane	ND	0.145	0.500	"							
1,3-Dichloropropane	ND	0.192	0.500	"							
2,2-Dichloropropane	ND	0.138	0.500	"							
1,1-Dichloropropene	ND	0.157	0.500	"							
cis-1,3-Dichloropropene	ND	0.109	0.500	"							
trans-1,3-Dichloropropene	ND	0.155	0.500	"							
Ethylbenzene	ND	0.0990	0.500	"							
Hexachlorobutadiene	ND	0.419	0.500	"							
Methyl tert-butyl ether	ND	0.183	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	2.61	10.0	"							
Isopropylbenzene	ND	0.0610	0.500	"							
p-Isopropyltoluene	ND	0.115	0.500	"							
4-Methyl-2-pentanone	ND	0.960	10.0	"							
Methylene chloride	ND	0.583	5.00	"							
Naphthalene	ND	0.0570	0.500	"							
n-Propylbenzene	ND	0.0840	0.500	"							
Styrene	ND	0.0680	0.500	"							
1,2,3-Trichlorobenzene	ND	0.118	0.500	"							
1,2,4-Trichlorobenzene	ND	0.128	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.139	0.500	"							
Toluene	ND	0.0890	0.500	"							
1,1,1-Trichloroethane	ND	0.150	0.500	"							
1,1,2-Trichloroethane	ND	0.0580	0.500	"							
Trichloroethene	ND	0.150	0.500	"							
Trichlorofluoromethane	ND	0.155	0.500	"							
1,2,3-Trichloropropane	ND	0.111	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0880	0.500	"							

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
1,3,5-Trimethylbenzene	ND	0.0790	0.500	ug/l							
Vinyl chloride	ND	0.264	0.500	"							
o-Xylene	ND	0.161	0.500	"							
m,p-Xylene	ND	0.200	1.00	"							
Surrogate: 1,2-DCA-d4	*18.1*			"	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: 4-BFB	*21.3*			"	*20.0*		*106*	*70-130*			
LCS (5K21037-BS1)											
Benzene	19.6	0.226	0.500	ug/l	20.0		98.0	80-120			
Chlorobenzene	21.2	0.236	0.500	"	20.0		106	77-120			
1,2-Dibromoethane	21.6	0.0540	0.500	"	20.0		108	75-125			
1,2-Dichloroethane	19.8	0.143	0.500	"	20.0		99.0	75-125			
1,1-Dichloroethene	18.3	0.287	0.500	"	20.0		91.5	80-120			
Ethylbenzene	20.7	0.0990	0.500	"	20.0		104	75-125			
Methyl tert-butyl ether	19.0	0.258	2.00	"	20.0		95.0	80-120			
Toluene	20.6	0.202	0.500	"	20.0		103	80-120			
Trichloroethene	20.9	0.223	0.500	"	20.0		104	80-120			
o-Xylene	21.4	0.161	0.500	"	20.0		107	75-125			
m,p-Xylene	43.0	0.200	1.00	"	40.0		108	75-125			
Surrogate: 1,2-DCA-d4	*18.0*			"	*20.0*		*90.0*	*70-130*			
Surrogate: Toluene-d8	*19.2*			"	*20.0*		*96.0*	*70-130*			
Surrogate: 4-BFB	*20.8*			"	*20.0*		*104*	*70-130*			
LCS Dup (5K21037-BSD1)											
Benzene	18.1	0.226	0.500	ug/l	20.0		90.5	80-120	7.96	20	
Chlorobenzene	19.3	0.236	0.500	"	20.0		96.5	77-120	9.38	20	
1,2-Dibromoethane	19.1	0.0540	0.500	"	20.0		95.5	75-125	12.3	20	
1,2-Dichloroethane	18.8	0.143	0.500	"	20.0		94.0	75-125	5.18	20	
1,1-Dichloroethene	17.1	0.287	0.500	"	20.0		85.5	80-120	6.78	20	
Ethylbenzene	18.8	0.0990	0.500	"	20.0		94.0	75-125	9.62	20	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
LCS Dup (5K21037-BSD1)											
Methyl tert-butyl ether	17.0	0.258	2.00	ug/l	20.0		85.0	80-120	11.1	20	
Toluene	19.1	0.202	0.500	"	20.0		95.5	80-120	7.56	20	
Trichloroethene	19.5	0.223	0.500	"	20.0		97.5	80-120	6.93	20	
o-Xylene	19.6	0.161	0.500	"	20.0		98.0	75-125	8.78	20	
m,p-Xylene	39.4	0.200	1.00	"	40.0		98.5	75-125	8.74	20	
Surrogate: 1,2-DCA-d4	*18.1*			"	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.0*			"	*20.0*		*95.0*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104*	*70-130*			
Matrix Spike (5K21037-MS1)						**Source: B5K0383-01**					
Benzene	20.2	0.226	0.500	ug/l	20.0	ND	101	63-148			
Chlorobenzene	20.4	0.236	0.500	"	20.0	ND	102	80-128			
1,2-Dibromoethane	20.2	0.0540	0.500	"	20.0	ND	101	70-130			
1,2-Dichloroethane	20.0	0.143	0.500	"	20.0	ND	100	70-130			
1,1-Dichloroethene	19.8	0.287	0.500	"	20.0	ND	99.0	59-158			
Ethylbenzene	20.5	0.0990	0.500	"	20.0	ND	102	70-130			
Methyl tert-butyl ether	18.8	0.258	2.00	"	20.0	ND	94.0	60-140			
Toluene	20.7	0.202	0.500	"	20.0	ND	104	72-127			
Trichloroethene	22.4	0.223	0.500	"	20.0	1.58	104	80-126			
o-Xylene	20.8	0.161	0.500	"	20.0	ND	104	70-130			
m,p-Xylene	42.4	0.200	1.00	"	40.0	ND	106	70-130			
Surrogate: 1,2-DCA-d4	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*19.6*			"	*20.0*		*98.0*	*70-130*			
Surrogate: 4-BFB	*20.6*			"	*20.0*		*103*	*70-130*			
Matrix Spike Dup (5K21037-MSD1)						**Source: B5K0383-01**					
Benzene	19.6	0.226	0.500	ug/l	20.0	ND	98.0	63-148	3.02	20	
Chlorobenzene	19.8	0.236	0.500	"	20.0	ND	99.0	80-128	2.99	20	
1,2-Dibromoethane	20.0	0.0540	0.500	"	20.0	ND	100	70-130	0.995	20	
1,2-Dichloroethane	20.6	0.143	0.500	"	20.0	ND	103	70-130	2.96	20	
1,1-Dichloroethene	19.1	0.287	0.500	"	20.0	ND	95.5	59-158	3.60	30	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Matrix Spike Dup (5K21037-MSD1)						**Source: B5K0383-01**					
Ethylbenzene	20.1	0.0990	0.500	ug/l	20.0	ND	100	70-130	1.97	20	
Methyl tert-butyl ether	18.4	0.258	2.00	"	20.0	ND	92.0	60-140	2.15	30	
Toluene	20.1	0.202	0.500	"	20.0	ND	100	72-127	2.94	20	
Trichloroethene	21.8	0.223	0.500	"	20.0	1.58	101	80-126	2.71	20	
o-Xylene	20.3	0.161	0.500	"	20.0	ND	102	70-130	2.43	20	
m,p-Xylene	41.0	0.200	1.00	"	40.0	ND	102	70-130	3.36	20	
Surrogate: 1,2-DCA-d4	*19.0*			"	*20.0*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*19.4*			"	*20.0*		*97.0*	*70-130*			
Surrogate: 4-BFB	*20.7*			"	*20.0*		*104*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
Freon 113	ND	0.500	0.500	ug/l							
Benzene	ND	0.110	0.500	"							
Bromobenzene	ND	0.120	0.500	"							
Bromochloromethane	ND	0.0900	0.500	"							
Bromodichloromethane	ND	0.0600	0.500	"							
Bromoform	ND	0.0700	0.500	"							
Bromomethane	ND	0.0900	0.500	"							
n-Butylbenzene	ND	0.100	0.500	"							
sec-Butylbenzene	ND	0.0700	0.500	"							
tert-Butylbenzene	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0800	0.500	"							
Chlorobenzene	ND	0.0800	0.500	"							
Chloroethane	ND	0.0800	0.500	"							
Chloroform	ND	0.0500	0.500	"							
Chloromethane	ND	0.100	0.500	"							
2-Chlorotoluene	ND	0.0700	0.500	"							
4-Chlorotoluene	ND	0.120	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"							
Dibromochloromethane	ND	0.0700	0.500	"							
1,2-Dibromoethane	ND	0.100	0.500	"							
Dibromomethane	ND	0.110	0.500	"							
1,2-Dichlorobenzene	ND	0.0800	0.500	"							
1,3-Dichlorobenzene	ND	0.0800	0.500	"							
1,4-Dichlorobenzene	ND	0.110	0.500	"							
Dichlorodifluoromethane	ND	0.100	0.500	"							
1,1-Dichloroethane	ND	0.0900	0.500	"							
1,2-Dichloroethane	ND	0.0900	0.500	"							
1,1-Dichloroethene	ND	0.140	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.120	0.500	"							
1,2-Dichloropropane	ND	0.0700	0.500	"							

North Creek Analytical - Bothell

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Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
1,3-Dichloropropane	ND	0.0900	0.500	ug/l							
2,2-Dichloropropane	ND	0.0800	0.500	"							
1,1-Dichloropropene	ND	0.0800	0.500	"							
cis-1,3-Dichloropropene	ND	0.0900	0.500	"							
trans-1,3-Dichloropropene	ND	0.0400	0.500	"							
Ethylbenzene	ND	0.0900	0.500	"							
Hexachlorobutadiene	ND	0.260	0.500	"							
Isopropylbenzene	ND	0.0600	0.500	"							
p-Isopropyltoluene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0600	0.500	"							
Methylene chloride	0.160	0.0700	0.500	"							J
Naphthalene	ND	0.120	0.500	"							
n-Propylbenzene	ND	0.0600	0.500	"							
Styrene	ND	0.0500	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"							
Tetrachloroethene	ND	0.120	0.500	"							
Toluene	ND	0.0600	0.500	"							
1,2,3-Trichlorobenzene	ND	0.170	0.500	"							
1,2,4-Trichlorobenzene	ND	0.140	0.500	"							
1,1,1-Trichloroethane	ND	0.0900	0.500	"							
1,1,2-Trichloroethane	ND	0.0900	0.500	"							
Trichloroethene	ND	0.100	0.500	"							
Trichlorofluoromethane	ND	0.110	0.500	"							
1,2,3-Trichloropropane	ND	0.130	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"							
Vinyl chloride	ND	0.0700	0.500	"							
Xylenes (total)	ND	0.180	1.00	"							
Surrogate: Dibromofluoromethane	*4.97*			"	*5.00*		*99.4*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.12*			"	*5.00*		*102*	*70-130*			

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Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
Surrogate: Toluene-d8	*5.12*			*"*	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.81*			*"*	*5.00*		*96.2*	*70-130*			
LCS (5111274-BS1)											
Benzene	5.23	0.110	0.500	ug/l	5.00		105	70-130			
Bromobenzene	5.12	0.120	0.500	"	5.00		102	70-130			
Bromochloromethane	5.17	0.0900	0.500	"	5.00		103	70-130			
Bromodichloromethane	5.24	0.0600	0.500	"	5.00		105	70-130			
Bromoform	4.13	0.0700	0.500	"	5.00		82.6	70-130			
Bromomethane	4.98	0.0900	0.500	"	5.00		99.6	70-130			
n-Butylbenzene	4.97	0.100	0.500	"	5.00		99.4	70-130			
sec-Butylbenzene	4.74	0.0700	0.500	"	5.00		94.8	70-130			
tert-Butylbenzene	4.88	0.0700	0.500	"	5.00		97.6	70-130			
Carbon tetrachloride	5.06	0.0800	0.500	"	5.00		101	70-130			
Chlorobenzene	5.18	0.0800	0.500	"	5.00		104	70-130			
Chloroethane	5.26	0.0800	0.500	"	5.00		105	70-130			
Chloroform	5.26	0.0500	0.500	"	5.00		105	70-130			
Chloromethane	4.96	0.100	0.500	"	5.00		99.2	70-130			
2-Chlorotoluene	5.11	0.0700	0.500	"	5.00		102	70-130			
4-Chlorotoluene	5.06	0.120	0.500	"	5.00		101	70-130			
1,2-Dibromo-3-chloropropane	4.36	0.180	0.500	"	5.00		87.2	70-130			
Dibromochloromethane	5.04	0.0700	0.500	"	5.00		101	70-130			
1,2-Dibromoethane	5.27	0.100	0.500	"	5.00		105	70-130			
Dibromomethane	5.25	0.110	0.500	"	5.00		105	70-130			
1,2-Dichlorobenzene	5.03	0.0800	0.500	"	5.00		101	70-130			
1,3-Dichlorobenzene	4.88	0.0800	0.500	"	5.00		97.6	70-130			
1,4-Dichlorobenzene	4.69	0.110	0.500	"	5.00		93.8	70-130			
Dichlorodifluoromethane	4.88	0.100	0.500	"	5.00		97.6	70-130			
1,1-Dichloroethane	5.11	0.0900	0.500	"	5.00		102	70-130			
1,2-Dichloroethane	5.21	0.0900	0.500	"	5.00		104	70-130			
1,1-Dichloroethene	5.34	0.140	0.500	"	5.00		107	70-130			

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
LCS (5111274-BS1)											
cis-1,2-Dichloroethene	5.10	0.0700	0.500	ug/l	5.00		102	70-130			
trans-1,2-Dichloroethene	5.37	0.120	0.500	"	5.00		107	70-130			
1,2-Dichloropropane	5.01	0.0700	0.500	"	5.00		100	70-130			
1,3-Dichloropropane	5.20	0.0900	0.500	"	5.00		104	70-130			
2,2-Dichloropropane	5.06	0.0800	0.500	"	5.00		101	70-130			
1,1-Dichloropropene	5.35	0.0800	0.500	"	5.00		107	70-130			
cis-1,3-Dichloropropene	5.04	0.0900	0.500	"	5.00		101	70-130			
trans-1,3-Dichloropropene	4.76	0.0400	0.500	"	5.00		95.2	70-130			
Ethylbenzene	5.19	0.0900	0.500	"	5.00		104	70-130			
Hexachlorobutadiene	4.85	0.260	0.500	"	5.00		97.0	70-130			
Isopropylbenzene	5.29	0.0600	0.500	"	5.00		106	70-130			
p-Isopropyltoluene	4.92	0.0700	0.500	"	5.00		98.4	70-130			
Methyl tert-butyl ether	5.30	0.0600	0.500	"	5.00		106	70-130			
Methylene chloride	4.90	0.0700	0.500	"	5.00		98.0	70-130			
Naphthalene	4.77	0.120	0.500	"	5.00		95.4	70-130			
n-Propylbenzene	5.19	0.0600	0.500	"	5.00		104	70-130			
Styrene	4.59	0.0500	0.500	"	5.00		91.8	70-130			
1,1,1,2-Tetrachloroethane	5.07	0.0700	0.500	"	5.00		101	70-130			
1,1,2,2-Tetrachloroethane	4.88	0.100	0.500	"	5.00		97.6	70-130			
Tetrachloroethene	5.04	0.120	0.500	"	5.00		101	70-130			
Toluene	5.18	0.0600	0.500	"	5.00		104	70-130			
1,2,3-Trichlorobenzene	4.72	0.170	0.500	"	5.00		94.4	70-130			
1,2,4-Trichlorobenzene	4.85	0.140	0.500	"	5.00		97.0	70-130			
1,1,1-Trichloroethane	5.15	0.0900	0.500	"	5.00		103	70-130			
1,1,2-Trichloroethane	5.07	0.0900	0.500	"	5.00		101	70-130			
Trichloroethene	4.82	0.100	0.500	"	5.00		96.4	70-130			
Trichlorofluoromethane	5.20	0.110	0.500	"	5.00		104	70-130			
1,2,3-Trichloropropane	5.03	0.130	0.500	"	5.00		101	70-130			
1,2,4-Trimethylbenzene	4.95	0.0700	0.500	"	5.00		99.0	70-130			
1,3,5-Trimethylbenzene	5.05	0.0700	0.500	"	5.00		101	70-130			
Vinyl chloride	5.08	0.0700	0.500	"	5.00		102	70-130			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
LCS (5111274-BS1)											
Surrogate: Dibromofluoromethane	*5.16*			*ug/l*	*5.00*		*103*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.03*			*"*	*5.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*5.03*			*"*	*5.00*		*101*	*70-130*			
Surrogate: 4-BFB	*5.03*			*"*	*5.00*		*101*	*70-130*			
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
Benzene	25.8	0.110	0.500	ug/l	25.0	ND	103	70-130			
Bromobenzene	25.3	0.120	0.500	"	25.0	ND	101	70-130			
Bromochloromethane	26.1	0.0900	0.500	"	25.0	ND	104	70-130			
Bromodichloromethane	24.7	0.0600	0.500	"	25.0	ND	98.8	70-130			
Bromoform	18.7	0.0700	0.500	"	25.0	ND	74.8	70-130			
Bromomethane	27.9	0.0900	0.500	"	25.0	ND	112	70-130			
n-Butylbenzene	24.8	0.100	0.500	"	25.0	ND	99.2	70-130			
sec-Butylbenzene	24.6	0.0700	0.500	"	25.0	ND	98.4	70-130			
tert-Butylbenzene	24.4	0.0700	0.500	"	25.0	ND	97.6	70-130			
Carbon tetrachloride	25.2	0.0800	0.500	"	25.0	ND	101	70-130			
Chlorobenzene	25.0	0.0800	0.500	"	25.0	ND	100	70-130			
Chloroethane	25.3	0.0800	0.500	"	25.0	ND	101	70-130			
Chloroform	25.2	0.0500	0.500	"	25.0	ND	101	70-130			
Chloromethane	25.8	0.100	0.500	"	25.0	ND	103	70-130			
2-Chlorotoluene	24.2	0.0700	0.500	"	25.0	ND	96.8	70-130			
4-Chlorotoluene	24.8	0.120	0.500	"	25.0	ND	99.2	70-130			
1,2-Dibromo-3-chloropropane	21.7	0.180	0.500	"	25.0	ND	86.8	70-130			
Dibromochloromethane	24.2	0.0700	0.500	"	25.0	ND	96.8	70-130			
1,2-Dibromoethane	25.1	0.100	0.500	"	25.0	ND	100	70-130			
Dibromomethane	25.8	0.110	0.500	"	25.0	ND	103	70-130			
1,2-Dichlorobenzene	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130			
1,3-Dichlorobenzene	24.5	0.0800	0.500	"	25.0	ND	98.0	70-130			
1,4-Dichlorobenzene	24.0	0.110	0.500	"	25.0	ND	96.0	70-130			
Dichlorodifluoromethane	26.4	0.100	0.500	"	25.0	ND	106	70-130			
1,1-Dichloroethane	25.0	0.0900	0.500	"	25.0	ND	100	70-130			

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
1,2-Dichloroethane	25.4	0.0900	0.500	ug/l	25.0	ND	102	70-130			
1,1-Dichloroethene	25.4	0.140	0.500	"	25.0	ND	102	70-130			
cis-1,2-Dichloroethene	25.2	0.0700	0.500	"	25.0	ND	101	70-130			
trans-1,2-Dichloroethene	25.2	0.120	0.500	"	25.0	ND	101	70-130			
1,2-Dichloropropane	25.9	0.0700	0.500	"	25.0	ND	104	70-130			
1,3-Dichloropropane	25.6	0.0900	0.500	"	25.0	ND	102	70-130			
2,2-Dichloropropane	24.4	0.0800	0.500	"	25.0	ND	97.6	70-130			
1,1-Dichloropropene	25.9	0.0800	0.500	"	25.0	ND	104	70-130			
cis-1,3-Dichloropropene	26.2	0.0900	0.500	"	25.0	ND	105	70-130			
trans-1,3-Dichloropropene	22.8	0.0400	0.500	"	25.0	ND	91.2	70-130			
Ethylbenzene	25.2	0.0900	0.500	"	25.0	ND	101	70-130			
Hexachlorobutadiene	23.8	0.260	0.500	"	25.0	ND	95.2	70-130			
Isopropylbenzene	25.0	0.0600	0.500	"	25.0	ND	100	70-130			
p-Isopropyltoluene	24.8	0.0700	0.500	"	25.0	ND	99.2	70-130			
Methyl tert-butyl ether	24.8	0.0600	0.500	"	25.0	ND	99.2	70-130			
Methylene chloride	23.3	0.0700	0.500	"	25.0	0.280	92.1	70-130			
Naphthalene	23.6	0.120	0.500	"	25.0	ND	94.4	70-130			
n-Propylbenzene	25.4	0.0600	0.500	"	25.0	ND	102	70-130			
Styrene	23.8	0.0500	0.500	"	25.0	ND	95.2	70-130			
1,1,1,2-Tetrachloroethane	26.0	0.0700	0.500	"	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	25.1	0.100	0.500	"	25.0	ND	100	70-130			
Tetrachloroethene	24.4	0.120	0.500	"	25.0	ND	97.6	70-130			
Toluene	25.1	0.0600	0.500	"	25.0	ND	100	70-130			
1,2,3-Trichlorobenzene	23.1	0.170	0.500	"	25.0	ND	92.4	70-130			
1,2,4-Trichlorobenzene	23.4	0.140	0.500	"	25.0	ND	93.6	70-130			
1,1,1-Trichloroethane	25.7	0.0900	0.500	"	25.0	ND	103	70-130			
1,1,2-Trichloroethane	25.0	0.0900	0.500	"	25.0	ND	100	70-130			
Trichloroethene	24.3	0.100	0.500	"	25.0	ND	97.2	70-130			
Trichlorofluoromethane	25.1	0.110	0.500	"	25.0	ND	100	70-130			
1,2,3-Trichloropropane	23.6	0.130	0.500	"	25.0	ND	94.4	70-130			
1,2,4-Trimethylbenzene	25.7	0.0700	0.500	"	25.0	ND	103	70-130			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
1,3,5-Trimethylbenzene	25.5	0.0700	0.500	ug/l	25.0	ND	102	70-130			
Vinyl chloride	25.4	0.0700	0.500	"	25.0	ND	102	70-130			
Surrogate: Dibromofluoromethane	*5.09*			"	*5.00*		*102*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.94*			"	*5.00*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*5.09*			"	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.89*			"	*5.00*		*97.8*	*70-130*			
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
Benzene	26.3	0.110	0.500	ug/l	25.0	ND	105	70-130	1.92	30	
Bromobenzene	25.6	0.120	0.500	"	25.0	ND	102	70-130	1.18	30	
Bromochloromethane	26.7	0.0900	0.500	"	25.0	ND	107	70-130	2.27	30	
Bromodichloromethane	25.7	0.0600	0.500	"	25.0	ND	103	70-130	3.97	30	
Bromoform	19.2	0.0700	0.500	"	25.0	ND	76.8	70-130	2.64	30	
Bromomethane	29.9	0.0900	0.500	"	25.0	ND	120	70-130	6.92	30	
n-Butylbenzene	26.0	0.100	0.500	"	25.0	ND	104	70-130	4.72	30	
sec-Butylbenzene	25.2	0.0700	0.500	"	25.0	ND	101	70-130	2.41	30	
tert-Butylbenzene	24.7	0.0700	0.500	"	25.0	ND	98.8	70-130	1.22	30	
Carbon tetrachloride	26.2	0.0800	0.500	"	25.0	ND	105	70-130	3.89	30	
Chlorobenzene	25.7	0.0800	0.500	"	25.0	ND	103	70-130	2.76	30	
Chloroethane	26.2	0.0800	0.500	"	25.0	ND	105	70-130	3.50	30	
Chloroform	26.2	0.0500	0.500	"	25.0	ND	105	70-130	3.89	30	
Chloromethane	26.8	0.100	0.500	"	25.0	ND	107	70-130	3.80	30	
2-Chlorotoluene	24.6	0.0700	0.500	"	25.0	ND	98.4	70-130	1.64	30	
4-Chlorotoluene	25.1	0.120	0.500	"	25.0	ND	100	70-130	1.20	30	
1,2-Dibromo-3-chloropropane	24.7	0.180	0.500	"	25.0	ND	98.8	70-130	12.9	30	
Dibromochloromethane	24.9	0.0700	0.500	"	25.0	ND	99.6	70-130	2.85	30	
1,2-Dibromoethane	25.5	0.100	0.500	"	25.0	ND	102	70-130	1.58	30	
Dibromomethane	26.2	0.110	0.500	"	25.0	ND	105	70-130	1.54	30	
1,2-Dichlorobenzene	26.2	0.0800	0.500	"	25.0	ND	105	70-130	5.49	30	
1,3-Dichlorobenzene	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130	1.22	30	
1,4-Dichlorobenzene	24.5	0.110	0.500	"	25.0	ND	98.0	70-130	2.06	30	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
Dichlorodifluoromethane	26.9	0.100	0.500	ug/l	25.0	ND	108	70-130	1.88	30	
1,1-Dichloroethane	26.3	0.0900	0.500	"	25.0	ND	105	70-130	5.07	30	
1,2-Dichloroethane	26.1	0.0900	0.500	"	25.0	ND	104	70-130	2.72	30	
1,1-Dichloroethene	26.4	0.140	0.500	"	25.0	ND	106	70-130	3.86	30	
cis-1,2-Dichloroethene	25.9	0.0700	0.500	"	25.0	ND	104	70-130	2.74	30	
trans-1,2-Dichloroethene	26.2	0.120	0.500	"	25.0	ND	105	70-130	3.89	30	
1,2-Dichloropropane	26.6	0.0700	0.500	"	25.0	ND	106	70-130	2.67	30	
1,3-Dichloropropane	26.3	0.0900	0.500	"	25.0	ND	105	70-130	2.70	30	
2,2-Dichloropropane	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130	1.63	30	
1,1-Dichloropropene	26.4	0.0800	0.500	"	25.0	ND	106	70-130	1.91	30	
cis-1,3-Dichloropropene	27.1	0.0900	0.500	"	25.0	ND	108	70-130	3.38	30	
trans-1,3-Dichloropropene	24.0	0.0400	0.500	"	25.0	ND	96.0	70-130	5.13	30	
Ethylbenzene	25.5	0.0900	0.500	"	25.0	ND	102	70-130	1.18	30	
Hexachlorobutadiene	26.2	0.260	0.500	"	25.0	ND	105	70-130	9.60	30	
Isopropylbenzene	25.6	0.0600	0.500	"	25.0	ND	102	70-130	2.37	30	
p-Isopropyltoluene	25.2	0.0700	0.500	"	25.0	ND	101	70-130	1.60	30	
Methyl tert-butyl ether	25.6	0.0600	0.500	"	25.0	ND	102	70-130	3.17	30	
Methylene chloride	24.1	0.0700	0.500	"	25.0	0.280	95.3	70-130	3.38	30	
Naphthalene	25.6	0.120	0.500	"	25.0	ND	102	70-130	8.13	30	
n-Propylbenzene	25.6	0.0600	0.500	"	25.0	ND	102	70-130	0.784	30	
Styrene	24.4	0.0500	0.500	"	25.0	ND	97.6	70-130	2.49	30	
1,1,1,2-Tetrachloroethane	27.0	0.0700	0.500	"	25.0	ND	108	70-130	3.77	30	
1,1,2,2-Tetrachloroethane	25.2	0.100	0.500	"	25.0	ND	101	70-130	0.398	30	
Tetrachloroethene	25.0	0.120	0.500	"	25.0	ND	100	70-130	2.43	30	
Toluene	25.8	0.0600	0.500	"	25.0	ND	103	70-130	2.75	30	
1,2,3-Trichlorobenzene	25.6	0.170	0.500	"	25.0	ND	102	70-130	10.3	30	
1,2,4-Trichlorobenzene	25.3	0.140	0.500	"	25.0	ND	101	70-130	7.80	30	
1,1,1-Trichloroethane	26.8	0.0900	0.500	"	25.0	ND	107	70-130	4.19	30	
1,1,2-Trichloroethane	25.6	0.0900	0.500	"	25.0	ND	102	70-130	2.37	30	
Trichloroethene	25.0	0.100	0.500	"	25.0	ND	100	70-130	2.84	30	
Trichlorofluoromethane	25.9	0.110	0.500	"	25.0	ND	104	70-130	3.14	30	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
1,2,3-Trichloropropane	24.6	0.130	0.500	ug/l	25.0	ND	98.4	70-130	4.15	30	
1,2,4-Trimethylbenzene	26.0	0.0700	0.500	"	25.0	ND	104	70-130	1.16	30	
1,3,5-Trimethylbenzene	26.0	0.0700	0.500	"	25.0	ND	104	70-130	1.94	30	
Vinyl chloride	26.1	0.0700	0.500	"	25.0	ND	104	70-130	2.72	30	
Surrogate: Dibromofluoromethane	*5.19*			"	*5.00*		*104*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.02*			"	*5.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*5.08*			"	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.90*			"	*5.00*		*98.0*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 12:08

Notes and Definitions

A-01	MSD was run 22 minutes outside of 12hr QC window.
E	Estimated value. The reported value exceeds the calibration range of the analysis.
J	Estimated value.
N	Tentatively Identified Compound
Q-40	This analyte had a low bias in the associated calibration verification standard.
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

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CHAIN OF CUSTODY REPORT

Work Order #: BJK0360

NCA CLIENT: BNSF - K/J
REPORT TO: JOHN LEE - K/J FED. WAY
ADDRESS:
PHONE: 253-874-0555 FAX: 253-952-3435
PROJECT NAME: BNSF - LIVINGSTON
PROJECT NUMBER: 0596021.16
SAMPLED BY: RGH/MLG

INVOICE TO: JULIE REID - K/J PORTLAND
P.O. NUMBER:

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: 10 7 5 4 3 2 1 <1
Petroleum Hydrocarbon Analyses: 8 4 3 2 1 <1
OTHER Specify:

PRESERVATIVE: HCl HCl HCl

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 524.2	VOC 8260	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	94-2	11/16/05 1000	X		W	3		01
2	92-2	11/16/05 1115		X	W	3		02
3	L-88-10	11/16/05 1250		X	W	3		03
4	89-4	11/16/05 1440		X	W	3		04
5	TRIP BLANK				W	1		05
6	TEMP *							
7								
8								
9								
10								

RELEASED BY: Robert Huebner DATE: 11/16/05
PRINT NAME: ROBERT HUEBNER FIRM: K/J FED. WAY TIME: 1600

RECEIVED BY: Colette Weaver DATE: 11.17.05
PRINT NAME: Colette Weaver FIRM: NCA TIME: 0930

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS: MEASURE TEMP. BLANK WITH CONVENTIONAL THERMOMETER PLEASE!

TEMP: 2.3°C W/CS

COC REV 09/04

PAGE OF

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AMENDED CASE NARRATIVE for B5K0383

Client: Kennedy/Jenks Consultants
Project Manager: John Lee
Project Name: BNSF – Livingston, MT
Project Number: 0596021.16

Amendments from the original report include:

For the Volatile Organic Compounds by EPA Method 8260B analysis, 1,1,2-Trichloro-1,2,2-trifluoroethane has been included in the list of analytes for the samples included in the report per the client's request. 1,1,2-Trichloro-1,2,2-trifluoroethane was reported out as a tentatively identified compound as the instrument was not calibrated for this specific compound on the day the samples were analyzed. Additionally, the reporting limits (RLs) for the majority of the analytes have been lowered to 0.500 ug/L where possible per the client's request. The lower RLs are supported by the laboratory method detection limits.

1.0 DESCRIPTION OF CASE

Five water samples and one trip blank were received for analysis of the following: Volatile Organic Compounds by EPA Method 8260B, Conventional Chemistry Parameters by APHA/EPA Methods, and Hydrocarbons by GC/FID Headspace.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received on November 18, 2005 by North Creek Analytical Bothell. The temperature of the samples at time of receipt was 2.1° C. The analysis for RSK 175 was subcontracted to NCA – Anchorage. Volatile organic analysis was added per the client's request to the trip blank submitted on the chain of custody.

3.0 PREPARATIONS AND ANALYSIS

Volatile Organic Compounds by EPA Method 8260B
No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

Conventional Chemistry Parameters by APHA/EPA Methods
No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

RECEIVED
DEC 30 2005
K/J Federal Way

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Hydrocarbons by GC/FID Headspace

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Kate Haney
Project Manager
North Creek Analytical

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28 December 2005

John Lee
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are **amended** results of analyses for samples received by the laboratory on 11/18/05 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kate Haney
Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
L-87-5	B5K0383-01	Water	11/17/05 09:45	11/18/05 09:30
90-3	B5K0383-02	Water	11/17/05 10:45	11/18/05 09:30
L-87-2	B5K0383-03	Water	11/17/05 11:45	11/18/05 09:30
89-8	B5K0383-04	Water	11/17/05 13:45	11/18/05 09:30
89-9	B5K0383-05	Water	11/17/05 14:30	11/18/05 09:30
TRIP BLANK	B5K0383-06	Water	11/17/05 12:00	11/18/05 09:30

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-5 (B5K0383-01) Water Sampled: 11/17/05 09:45 Received: 11/18/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.700**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-5 (B5K0383-01) Water Sampled: 11/17/05 09:45 Received: 11/18/05 09:30										
Methyl tert-butyl ether	ND	0.258	2.00	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**30.8**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.58**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*95.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	
90-3 (B5K0383-02) Water Sampled: 11/17/05 10:45 Received: 11/18/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
90-3 (B5K0383-02) Water Sampled: 11/17/05 10:45 Received: 11/18/05 09:30										
4-Chlorotoluene	ND	0.286	0.500	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	Q-40
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**18.4**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**0.740**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
90-3 (B5K0383-02) Water Sampled: 11/17/05 10:45 Received: 11/18/05 09:30										
Surrogate: 1,2-DCA-d4	*91.5 %*		*70-130*			*5K18054*	*11/18/05*	*11/18/05*	*EPA 8260B*	
Surrogate: Toluene-d8	*95.0 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*105 %*		*70-130*			"	"	"	"	
L-87-2 (B5K0383-03) Water Sampled: 11/17/05 11:45 Received: 11/18/05 09:30										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	"	"	"	"	"	"	N
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	**25.0**	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	**81.0**	0.225	0.500	"	"	"	"	"	"	E
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	**1.94**	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	**0.780**	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	**5.42**	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**4.83**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants
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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
L-87-2 (B5K0383-03) Water Sampled: 11/17/05 11:45 Received: 11/18/05 09:30										
cis-1,3-Dichloropropene	ND	0.205	0.500	ug/l	1	5K18054	11/18/05	11/18/05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	Q-40
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	**0.350**	0.202	0.500	"	"	"	"	"	"	J
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.07**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	**1.38**	0.490	0.500	"	"	"	"	"	"	
o-Xylene	**2.10**	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*91.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*103 %*		*70-130*			"	"	"	"	
L-87-2 (B5K0383-03RE1) Water Sampled: 11/17/05 11:45 Received: 11/18/05 09:30										
2-Chlorotoluene	**78.0**	0.900	2.00	ug/l	4	5K21037	11/21/05	11/21/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	*97.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-9 (B5K0383-05) Water Sampled: 11/17/05 14:30 Received: 11/18/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**0.590**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-9 (B5K0383-05) Water Sampled: 11/17/05 14:30 Received: 11/18/05 09:30										
Methylene chloride	ND	0.252	5.00	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**35.4**	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.49**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*96.0 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*96.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*106 %*		*70-130*			"	"	"	"	
TRIP BLANK (B5K0383-06) Water Sampled: 11/17/05 12:00 Received: 11/18/05 09:30										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B5K0383-06) Water Sampled: 11/17/05 12:00 Received: 11/18/05 09:30										
1,2-Dibromoethane	ND	0.268	0.500	ug/l	1	5K21037	11/21/05	11/21/05	EPA 8260B	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	
Methylene chloride	ND	0.252	5.00	"	"	"	"	"	"	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*92.5 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*95.5 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP BLANK (B5K0383-06) Water	**Sampled: 11/17/05 12:00**		**Received: 11/18/05 09:30**							
Surrogate: 4-BFB	*106 %*		*70-130*			*5K21037*	*11/21/05*	*11/21/05*	*EPA 8260B*	

North Creek Analytical - Bothell

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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5K0383-04) Water Sampled: 11/17/05 13:45 Received: 11/18/05 09:30										
Dissolved Organic Carbon	**8.00**		2.00	mg/l	1	5K22062	11/22/05	11/22/05	EPA 415.1	

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Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

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Hydrocarbons by GC/FID Headspace
North Creek Analytical - Alaska

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-8 (B5K0383-04) Water Sampled: 11/17/05 13:45 Received: 11/18/05 09:30										
Methane	ND		1.20	ug/l	1	5110071	11/23/05	11/23/05	RSK 175	
Ethane	ND		10.0	"	"	"	"	"	"	
Ethene	ND		10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Project Number: 0596021.16
Project Manager: John Lee

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l							N
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Acetone	ND	1.91	20.0	"							
Benzene	ND	0.136	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.182	0.500	"							
Bromodichloromethane	ND	0.177	0.500	"							
Bromoform	ND	0.168	0.500	"							
Bromomethane	ND	0.232	2.00	"							
2-Butanone	ND	0.990	10.0	"							
n-Butylbenzene	ND	0.191	0.500	"							
sec-Butylbenzene	ND	0.119	0.500	"							
tert-Butylbenzene	ND	0.0840	0.500	"							
Carbon disulfide	ND	0.308	0.500	"							
Carbon tetrachloride	ND	0.178	0.500	"							
Chlorobenzene	ND	0.0870	0.500	"							
Chloroethane	ND	0.165	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.0910	0.500	"							
Chloromethane	ND	0.196	5.00	"							
2-Chlorotoluene	ND	0.0930	0.500	"							
4-Chlorotoluene	ND	0.0790	0.500	"							
Dibromochloromethane	ND	0.149	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.214	5.00	"							
1,2-Dibromoethane	ND	0.0540	0.500	"							
Dibromomethane	ND	0.202	0.500	"							
1,2-Dichlorobenzene	ND	0.0610	0.500	"							
1,3-Dichlorobenzene	ND	0.0660	0.500	"							
1,4-Dichlorobenzene	ND	0.0520	0.500	"							

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
Dichlorodifluoromethane	ND	0.129	0.500	ug/l							
1,1-Dichloroethane	ND	0.173	0.500	"							
1,2-Dichloroethane	ND	0.143	0.500	"							
1,1-Dichloroethene	ND	0.236	0.500	"							
cis-1,2-Dichloroethene	ND	0.104	0.500	"							
trans-1,2-Dichloroethene	ND	0.214	0.500	"							
1,2-Dichloropropane	ND	0.145	0.500	"							
1,3-Dichloropropane	ND	0.192	0.500	"							
2,2-Dichloropropane	ND	0.138	0.500	"							
1,1-Dichloropropene	ND	0.157	0.500	"							
cis-1,3-Dichloropropene	ND	0.109	0.500	"							
trans-1,3-Dichloropropene	ND	0.155	0.500	"							
Ethylbenzene	ND	0.0990	0.500	"							
Hexachlorobutadiene	ND	0.419	0.500	"							
Methyl tert-butyl ether	ND	0.183	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	2.61	10.0	"							
Isopropylbenzene	ND	0.0610	0.500	"							
p-Isopropyltoluene	ND	0.115	0.500	"							
4-Methyl-2-pentanone	ND	0.960	10.0	"							
Methylene chloride	ND	0.583	5.00	"							Q-40
Naphthalene	ND	0.0570	0.500	"							
n-Propylbenzene	ND	0.0840	0.500	"							
Styrene	ND	0.0680	0.500	"							
1,2,3-Trichlorobenzene	ND	0.118	0.500	"							
1,2,4-Trichlorobenzene	ND	0.128	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.139	0.500	"							
Toluene	ND	0.0890	0.500	"							
1,1,1-Trichloroethane	ND	0.150	0.500	"							

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32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
Blank (5K18054-BLK1)											
1,1,2-Trichloroethane	ND	0.0580	0.500	ug/l							
Trichloroethene	ND	0.150	0.500	"							
Trichlorofluoromethane	ND	0.155	0.500	"							
1,2,3-Trichloropropane	ND	0.111	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0880	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0790	0.500	"							
Vinyl chloride	ND	0.264	0.500	"							
o-Xylene	ND	0.161	0.500	"							
m,p-Xylene	0.270	0.200	1.00	"							J
Surrogate: 1,2-DCA-d4	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*19.3*			"	*20.0*		*96.5*	*70-130*			
Surrogate: 4-BFB	*21.0*			"	*20.0*		*105*	*70-130*			
LCS (5K18054-BS1)											
Benzene	17.5	0.136	0.500	ug/l	20.0		87.5	80-120			
Chlorobenzene	19.0	0.0870	0.500	"	20.0		95.0	80-120			
1,1-Dichloroethene	16.2	0.236	0.500	"	20.0		81.0	80-120			
Methyl tert-butyl ether	16.8	0.183	2.00	"	20.0		84.0	80-120			
Toluene	18.4	0.0890	0.500	"	20.0		92.0	80-120			
Trichloroethene	18.3	0.150	0.500	"	20.0		91.5	80-120			
Surrogate: 1,2-DCA-d4	*18.6*			"	*20.0*		*93.0*	*70-130*			
Surrogate: Toluene-d8	*19.3*			"	*20.0*		*96.5*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104*	*70-130*			
LCS Dup (5K18054-BSD1)											
Benzene	18.9	0.136	0.500	ug/l	20.0		94.5	80-120	7.69	20	
Chlorobenzene	20.3	0.0870	0.500	"	20.0		102	80-120	6.62	20	
1,1-Dichloroethene	17.5	0.236	0.500	"	20.0		87.5	80-120	7.72	20	
Methyl tert-butyl ether	17.2	0.183	2.00	"	20.0		86.0	80-120	2.35	20	
Toluene	20.0	0.0890	0.500	"	20.0		100	80-120	8.33	20	
Trichloroethene	19.8	0.150	0.500	"	20.0		99.0	80-120	7.87	20	

North Creek Analytical - Bothell

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K18054: Prepared 11/18/05 Using EPA 5030B											
LCS Dup (5K18054-BSD1)											
Surrogate: 1,2-DCA-d4	*18.2*			*ug/l*	*20.0*		*91.0*	*70-130*			
Surrogate: Toluene-d8	*19.4*			*"*	*20.0*		*97.0*	*70-130*			
Surrogate: 4-BFB	*20.7*			*"*	*20.0*		*104*	*70-130*			
Matrix Spike (5K18054-MS1)						**Source: B5K0360-02**					
Benzene	18.8	0.226	0.500	ug/l	20.0	ND	94.0	63-148			
Chlorobenzene	20.3	0.236	0.500	"	20.0	ND	102	80-128			
1,1-Dichloroethene	18.5	0.287	0.500	"	20.0	ND	92.5	59-158			
Methyl tert-butyl ether	17.4	0.258	2.00	"	20.0	ND	87.0	60-140			
Toluene	20.4	0.202	0.500	"	20.0	ND	102	72-127			
Trichloroethene	21.2	0.223	0.500	"	20.0	0.950	101	80-126			
Surrogate: 1,2-DCA-d4	*18.1*			*"*	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.5*			*"*	*20.0*		*97.5*	*70-130*			
Surrogate: 4-BFB	*21.0*			*"*	*20.0*		*105*	*70-130*			
Matrix Spike Dup (5K18054-MSD1)						**Source: B5K0360-02**					**A-01**
Benzene	18.4	0.226	0.500	ug/l	20.0	ND	92.0	63-148	2.15	20	
Chlorobenzene	19.7	0.236	0.500	"	20.0	ND	98.5	80-128	3.00	20	
1,1-Dichloroethene	17.4	0.287	0.500	"	20.0	ND	87.0	59-158	6.13	30	
Methyl tert-butyl ether	17.3	0.258	2.00	"	20.0	ND	86.5	60-140	0.576	30	
Toluene	19.5	0.202	0.500	"	20.0	ND	97.5	72-127	4.51	20	
Trichloroethene	20.4	0.223	0.500	"	20.0	0.950	97.2	80-126	3.85	20	
Surrogate: 1,2-DCA-d4	*18.2*			*"*	*20.0*		*91.0*	*70-130*			
Surrogate: Toluene-d8	*19.2*			*"*	*20.0*		*96.0*	*70-130*			
Surrogate: 4-BFB	*20.9*			*"*	*20.0*		*104*	*70-130*			
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l							N
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Acetone	ND	1.91	20.0	"							

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32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
Benzene	ND	0.136	0.500	ug/l							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.182	0.500	"							
Bromodichloromethane	ND	0.177	0.500	"							
Bromoform	ND	0.168	0.500	"							
Bromomethane	ND	0.232	2.00	"							
2-Butanone	ND	0.990	10.0	"							
n-Butylbenzene	ND	0.191	0.500	"							
sec-Butylbenzene	ND	0.119	0.500	"							
tert-Butylbenzene	ND	0.0840	0.500	"							
Carbon disulfide	ND	0.308	0.500	"							
Carbon tetrachloride	ND	0.178	0.500	"							
Chlorobenzene	ND	0.0870	0.500	"							
Chloroethane	ND	0.165	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.0910	0.500	"							
Chloromethane	ND	0.196	5.00	"							
2-Chlorotoluene	ND	0.0930	0.500	"							
4-Chlorotoluene	ND	0.0790	0.500	"							
Dibromochloromethane	ND	0.149	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.214	5.00	"							
1,2-Dibromoethane	ND	0.0540	0.500	"							
Dibromomethane	ND	0.202	0.500	"							
1,2-Dichlorobenzene	ND	0.0610	0.500	"							
1,3-Dichlorobenzene	ND	0.0660	0.500	"							
1,4-Dichlorobenzene	ND	0.0520	0.500	"							
Dichlorodifluoromethane	ND	0.129	0.500	"							
1,1-Dichloroethane	ND	0.173	0.500	"							
1,2-Dichloroethane	ND	0.143	0.500	"							
1,1-Dichloroethene	ND	0.236	0.500	"							
cis-1,2-Dichloroethene	ND	0.104	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
trans-1,2-Dichloroethene	ND	0.214	0.500	ug/l							
1,2-Dichloropropane	ND	0.145	0.500	"							
1,3-Dichloropropane	ND	0.192	0.500	"							
2,2-Dichloropropane	ND	0.138	0.500	"							
1,1-Dichloropropene	ND	0.157	0.500	"							
cis-1,3-Dichloropropene	ND	0.109	0.500	"							
trans-1,3-Dichloropropene	ND	0.155	0.500	"							
Ethylbenzene	ND	0.0990	0.500	"							
Hexachlorobutadiene	ND	0.419	0.500	"							
Methyl tert-butyl ether	ND	0.183	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	2.61	10.0	"							
Isopropylbenzene	ND	0.0610	0.500	"							
p-Isopropyltoluene	ND	0.115	0.500	"							
4-Methyl-2-pentanone	ND	0.960	10.0	"							
Methylene chloride	ND	0.583	5.00	"							
Naphthalene	ND	0.0570	0.500	"							
n-Propylbenzene	ND	0.0840	0.500	"							
Styrene	ND	0.0680	0.500	"							
1,2,3-Trichlorobenzene	ND	0.118	0.500	"							
1,2,4-Trichlorobenzene	ND	0.128	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.0600	0.500	"							
Tetrachloroethene	ND	0.139	0.500	"							
Toluene	ND	0.0890	0.500	"							
1,1,1-Trichloroethane	ND	0.150	0.500	"							
1,1,2-Trichloroethane	ND	0.0580	0.500	"							
Trichloroethene	ND	0.150	0.500	"							
Trichlorofluoromethane	ND	0.155	0.500	"							
1,2,3-Trichloropropane	ND	0.111	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0880	0.500	"							

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.

Kate Haney, Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Blank (5K21037-BLK1)											
1,3,5-Trimethylbenzene	ND	0.0790	0.500	ug/l							
Vinyl chloride	ND	0.264	0.500	"							
o-Xylene	ND	0.161	0.500	"							
m,p-Xylene	ND	0.200	1.00	"							
Surrogate: 1,2-DCA-d4	*18.1*			"	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: 4-BFB	*21.3*			"	*20.0*		*106*	*70-130*			
LCS (5K21037-BS1)											
Benzene	19.6	0.226	0.500	ug/l	20.0		98.0	80-120			
Chlorobenzene	21.2	0.236	0.500	"	20.0		106	77-120			
1,2-Dibromoethane	21.6	0.0540	0.500	"	20.0		108	75-125			
1,2-Dichloroethane	19.8	0.143	0.500	"	20.0		99.0	75-125			
1,1-Dichloroethene	18.3	0.287	0.500	"	20.0		91.5	80-120			
Ethylbenzene	20.7	0.0990	0.500	"	20.0		104	75-125			
Methyl tert-butyl ether	19.0	0.258	2.00	"	20.0		95.0	80-120			
Toluene	20.6	0.202	0.500	"	20.0		103	80-120			
Trichloroethene	20.9	0.223	0.500	"	20.0		104	80-120			
o-Xylene	21.4	0.161	0.500	"	20.0		107	75-125			
m,p-Xylene	43.0	0.200	1.00	"	40.0		108	75-125			
Surrogate: 1,2-DCA-d4	*18.0*			"	*20.0*		*90.0*	*70-130*			
Surrogate: Toluene-d8	*19.2*			"	*20.0*		*96.0*	*70-130*			
Surrogate: 4-BFB	*20.8*			"	*20.0*		*104*	*70-130*			
LCS Dup (5K21037-BSD1)											
Benzene	18.1	0.226	0.500	ug/l	20.0		90.5	80-120	7.96	20	
Chlorobenzene	19.3	0.236	0.500	"	20.0		96.5	77-120	9.38	20	
1,2-Dibromoethane	19.1	0.0540	0.500	"	20.0		95.5	75-125	12.3	20	
1,2-Dichloroethane	18.8	0.143	0.500	"	20.0		94.0	75-125	5.18	20	
1,1-Dichloroethene	17.1	0.287	0.500	"	20.0		85.5	80-120	6.78	20	
Ethylbenzene	18.8	0.0990	0.500	"	20.0		94.0	75-125	9.62	20	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
LCS Dup (5K21037-BSD1)											
Methyl tert-butyl ether	17.0	0.258	2.00	ug/l	20.0		85.0	80-120	11.1	20	
Toluene	19.1	0.202	0.500	"	20.0		95.5	80-120	7.56	20	
Trichloroethene	19.5	0.223	0.500	"	20.0		97.5	80-120	6.93	20	
o-Xylene	19.6	0.161	0.500	"	20.0		98.0	75-125	8.78	20	
m,p-Xylene	39.4	0.200	1.00	"	40.0		98.5	75-125	8.74	20	
Surrogate: 1,2-DCA-d4	*18.1*			"	*20.0*		*90.5*	*70-130*			
Surrogate: Toluene-d8	*19.0*			"	*20.0*		*95.0*	*70-130*			
Surrogate: 4-BFB	*20.9*			"	*20.0*		*104*	*70-130*			
Matrix Spike (5K21037-MS1)						**Source: B5K0383-01**					
Benzene	20.2	0.226	0.500	ug/l	20.0	ND	101	63-148			
Chlorobenzene	20.4	0.236	0.500	"	20.0	ND	102	80-128			
1,2-Dibromoethane	20.2	0.0540	0.500	"	20.0	ND	101	70-130			
1,2-Dichloroethane	20.0	0.143	0.500	"	20.0	ND	100	70-130			
1,1-Dichloroethene	19.8	0.287	0.500	"	20.0	ND	99.0	59-158			
Ethylbenzene	20.5	0.0990	0.500	"	20.0	ND	102	70-130			
Methyl tert-butyl ether	18.8	0.258	2.00	"	20.0	ND	94.0	60-140			
Toluene	20.7	0.202	0.500	"	20.0	ND	104	72-127			
Trichloroethene	22.4	0.223	0.500	"	20.0	1.58	104	80-126			
o-Xylene	20.8	0.161	0.500	"	20.0	ND	104	70-130			
m,p-Xylene	42.4	0.200	1.00	"	40.0	ND	106	70-130			
Surrogate: 1,2-DCA-d4	*19.1*			"	*20.0*		*95.5*	*70-130*			
Surrogate: Toluene-d8	*19.6*			"	*20.0*		*98.0*	*70-130*			
Surrogate: 4-BFB	*20.6*			"	*20.0*		*103*	*70-130*			
Matrix Spike Dup (5K21037-MSD1)						**Source: B5K0383-01**					
Benzene	19.6	0.226	0.500	ug/l	20.0	ND	98.0	63-148	3.02	20	
Chlorobenzene	19.8	0.236	0.500	"	20.0	ND	99.0	80-128	2.99	20	
1,2-Dibromoethane	20.0	0.0540	0.500	"	20.0	ND	100	70-130	0.995	20	
1,2-Dichloroethane	20.6	0.143	0.500	"	20.0	ND	103	70-130	2.96	20	
1,1-Dichloroethene	19.1	0.287	0.500	"	20.0	ND	95.5	59-158	3.60	30	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21037: Prepared 11/21/05 Using EPA 5030B											
Matrix Spike Dup (5K21037-MSD1)						**Source: B5K0383-01**					
Ethylbenzene	20.1	0.0990	0.500	ug/l	20.0	ND	100	70-130	1.97	20	
Methyl tert-butyl ether	18.4	0.258	2.00	"	20.0	ND	92.0	60-140	2.15	30	
Toluene	20.1	0.202	0.500	"	20.0	ND	100	72-127	2.94	20	
Trichloroethene	21.8	0.223	0.500	"	20.0	1.58	101	80-126	2.71	20	
o-Xylene	20.3	0.161	0.500	"	20.0	ND	102	70-130	2.43	20	
m,p-Xylene	41.0	0.200	1.00	"	40.0	ND	102	70-130	3.36	20	
Surrogate: 1,2-DCA-d4	*19.0*			*"*	*20.0*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*19.4*			*"*	*20.0*		*97.0*	*70-130*			
Surrogate: 4-BFB	*20.7*			*"*	*20.0*		*104*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K22062: Prepared 11/22/05 Using General Preparation											
Blank (5K22062-BLK1)											
Dissolved Organic Carbon	ND		2.00	mg/l							
LCS (5K22062-BS1)											
Dissolved Organic Carbon	26.1		2.00	mg/l	25.0		104	80-120			
LCS Dup (5K22062-BSD1)											
Dissolved Organic Carbon	26.5		2.00	mg/l	25.0		106	80-120	1.52	20	
Duplicate (5K22062-DUP1)						**Source: B5K0383-04**					
Dissolved Organic Carbon	7.10		2.00	mg/l		8.00			11.9	20	
Matrix Spike (5K22062-MS1)						**Source: B5K0186-01**					
Dissolved Organic Carbon	33.2		2.00	mg/l	25.0	8.90	97.2	80-120			
Matrix Spike (5K22062-MS2)						**Source: B5K0383-04**					
Dissolved Organic Carbon	32.3		2.00	mg/l	25.0	8.00	97.2	80-120			
Matrix Spike Dup (5K22062-MSD1)						**Source: B5K0186-01**					
Dissolved Organic Carbon	35.3		2.00	mg/l	25.0	8.90	106	80-120	6.13	20	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Hydrocarbons by GC/FID Headspace - Quality Control

North Creek Analytical - Alaska

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110071: Prepared 11/23/05 Using RSK											
Blank (5110071-BLK1)											
Methane	ND		1.20	ug/l							
Ethane	ND		10.0	"							
Ethene	ND		10.0	"							
LCS (5110071-BS1)											
Methane	47.5		1.20	ug/l	57.0		83.3	70-130			
Ethane	120		10.0	"	114		105	70-130			
Ethene	137		10.0	"	137		100	70-130			
LCS Dup (5110071-BSD1)											
Methane	46.7		1.20	ug/l	57.0		81.9	70-130	1.70	25	
Ethane	117		10.0	"	114		103	70-130	2.53	25	
Ethene	135		10.0	"	137		98.5	70-130	1.47	25	
Duplicate (5110071-DUP1)						**Source: B5K0383-04**					
Methane	ND		1.20	ug/l		ND			NA	35	
Ethane	ND		10.0	"		ND			NA	35	
Ethene	ND		10.0	"		ND			NA	35	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:15

Notes and Definitions

A-01	MSD was run 22 minutes outside of 12hr QC window.
E	Estimated value. The reported value exceeds the calibration range of the analysis.
J	Estimated value.
N	Tentatively Identified Compound
Q-40	This analyte had a low bias in the associated calibration verification standard.
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

nca

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CHAIN OF CUSTODY REPORT

Work Order #: B5K0383

NCA CLIENT: BNSF - KENNEDY / JENKS

REPORT TO: JOHN LEE - K/J FED. WAY

ADDRESS:

PHONE: 253-874-0555 FAX: 253-952-3435

INVOICE TO: JULIE REID - K/J PORTLAND

P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF-LIVINGSTON

PROJECT NUMBER: 0596021.16

SAMPLED BY: RGH / MLG

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses: 10 (STD) 7 8 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 (STD) 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests for this standard may incur Rush Charges

PRESERVATIVE: HCl HCl

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 8260	METHANE ETHANE ETHENE BSK175	DOC - EPA 415.1	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	L-87-5	11/17/05 0945	X			W	3		-01
2	90-3	11/17/05 1045	X			W	3		-02
3	L-87-2	11/17/05 1145	X			W	3		-03
4	89-8	11/17/05 1345		X	X	W	5	24 HOUR HOLD TIME	-04
5	89-9	11/17/05 1430	X			W	3		-05
6	TRIP BLANK					W	1		-06
7									
8									
9									
10									

RELEASED BY: Robt Huebner DATE: 11/17/05
PRINT NAME: ROBERT HUEBNER FIRM: K/J FED. WAY TIME: 1600

RECEIVED BY: Cathy Gamble DATE: 11/18/05
PRINT NAME: Cathy Gamble FIRM: NCA TIME: 9:30

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS: MEASURE TEMP BLANK WITH CONVENTIONAL THERMOMETER PLEASE

TEMP: 2.1° w/CS

COC REV 09/04

PAGE OF

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AMENDED CASE NARRATIVE for B5K0411

Client: Kennedy/Jenks Consultants
Project Manager: John Lee
Project Name: BNSF – Livingston, MT
Project Number: 0596021.16

Amendments from the original report include:

For the Volatile Organic Compounds by EPA Method 8260B analysis, 1,1,2-Trichloro-1,2,2-trifluoroethane has been included in the list of analytes for the samples included in the report per the client's request. 1,1,2-Trichloro-1,2,2-trifluoroethane was reported out as a tentatively identified compound as the instrument was not calibrated for this specific compound on the day the samples were analyzed. Additionally, the reporting limits (RLs) for the majority of the analytes have been lowered to 0.500 ug/L where possible per the client's request. The lower RLs are supported by the laboratory method detection limits.

For the Volatile Organic Compounds in Drinking Water per EPA 524.2 analysis, Freon 113 (1,1,2-Trichloro-1,2,2-trifluoroethane) has been included in the list of analytes for the samples included in the report per the client's request.

1.0 DESCRIPTION OF CASE

Five water samples and one trip blank were received for analysis of the following: Extractable Petroleum Hydrocarbons by Montana EPH (Screen), Volatile Organic Compounds by EPA Method 8260B and Volatile Organic Compounds in Drinking Water per EPA 524.2.

2.0 COMMENTS ON SAMPLE RECEIPT

Samples were received on November 19, 2005 by North Creek Analytical Bothell. The temperature of the samples at the time of receipt was 4.3° C. The analysis for Volatile Organic Compounds in Drinking Water per EPA 524.2 was subcontracted to NCA – Beaverton. For sample Purge-1, the VOC analysis request was changed from 8260 to 524.2 11/18/05 and the MT-VPH analysis was cancelled 11/21/05 per the client's request. Volatile organic analysis was added per the client's request to the trip blank submitted on the chain of custody.

3.0 PREPARATIONS AND ANALYSIS

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)
No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Volatile Organic Compounds by EPA Method 8260B
No additional anomalies, discrepancies, or issues were associated with sample preparation, analysis and quality control other than those already qualified in the data and described in the Notes and Definitions page at the end of this report.

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DEC 30 2005
K/J Federal Way

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Volatile Organic Compounds in Drinking Water per EPA 524.2

No anomalies were associated with the sample preparation and analysis. All criteria for acceptable QC measurements were met.

Kate Haney
Project Manager
North Creek Analytical

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28 December 2005

John Lee
Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001
RE: BNSF-Livingston, MT

Enclosed are **amended** results of analyses for samples received by the laboratory on 11/19/05 13:26. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kate Haney
Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

ANALYTICAL REPORT FOR SAMPLES - Amended

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
89-3	B5K0411-01	Water	11/17/05 16:45	11/19/05 13:26
MW-100	B5K0411-02	Water	11/17/05 08:00	11/19/05 13:26
92-1	B5K0411-03	Water	11/18/05 09:15	11/19/05 13:26
12RO3	B5K0411-04	Water	11/18/05 10:30	11/19/05 13:26
Purge-1	B5K0411-05	Water	11/18/05 11:45	11/19/05 13:26
Trip Blank	B5K0411-06	Water	11/17/05 00:00	11/19/05 13:26

North Creek Analytical - Bothell

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.

Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Extractable Petroleum Hydrocarbons by Montana EPH (Screen)
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purge-1 (B5K0411-05) Water Sampled: 11/18/05 11:45 Received: 11/19/05 13:26										
TEH (Total Ext. Petroleum Hydrocarbons)	ND		286	ug/l	1	5K21004	11/21/05	11/22/05	MDEP-EPH-9	
Surrogate: 1-Chlorooctadecane	*92.9 %*		*50-150*			"	"	"	"	
Surrogate: o-Terphenyl	*82.8 %*		*50-150*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5K0411-01) Water Sampled: 11/17/05 16:45 Received: 11/19/05 13:26										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	Q-41
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
89-3 (B5K0411-01) Water Sampled: 11/17/05 16:45 Received: 11/19/05 13:26										
Methylene chloride	ND	0.252	5.00	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**120**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**1.97**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*114 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*98.8 %*		*70-130*			"	"	"	"	
89-3 (B5K0411-01RE1) Water Sampled: 11/17/05 16:45 Received: 11/19/05 13:26										
Tetrachloroethene	**113**	1.00	2.00	ug/l	4	5K22035	11/22/05	11/22/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	*106 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*101 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*101 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-100 (B5K0411-02) Water Sampled: 11/17/05 08:00 Received: 11/19/05 13:26										
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	.	TIC	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	Q-41
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-100 (B5K0411-02) Water Sampled: 11/17/05 08:00 Received: 11/19/05 13:26										
Methylene chloride	ND	0.252	5.00	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**119**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	**2.08**	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*112 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.5 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*98.5 %*		*70-130*			"	"	"	"	
MW-100 (B5K0411-02RE1) Water Sampled: 11/17/05 08:00 Received: 11/19/05 13:26										
Tetrachloroethene	**118**	1.00	2.00	ug/l	4	5K29039	11/23/05	11/24/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	*91.2 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*104 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5K0411-03) Water Sampled: 11/18/05 09:15 Received: 11/19/05 13:26										
2-Chloroethylvinyl ether	ND	0.785	5.00	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	"	"	"	"	"	"	N
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.03**	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	Q-41
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
92-1 (B5K0411-03) Water Sampled: 11/18/05 09:15 Received: 11/19/05 13:26										
Methylene chloride	ND	0.252	5.00	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	**110**	0.250	0.500	"	"	"	"	"	"	E
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*97.8 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*100 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*104 %*		*70-130*			"	"	"	"	
92-1 (B5K0411-03RE1) Water Sampled: 11/18/05 09:15 Received: 11/19/05 13:26										**Q-34**
Tetrachloroethene	**80.0**	1.00	2.00	ug/l	4	5L02045	12/01/05	12/01/05	EPA 8260B	
Surrogate: 1,2-DCA-d4	*108 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*104 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*102 %*		*70-130*			"	"	"	"	

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (B5K0411-06) Water	**Sampled: 11/17/05 00:00**		**Received: 11/19/05 13:26**							
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	N
2-Chloroethylvinyl ether	ND	0.785	5.00	"	"	"	"	"	"	
Benzene	ND	0.226	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.232	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.319	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.215	0.500	"	"	"	"	"	"	
Bromoform	ND	0.200	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.291	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.264	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.236	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.305	0.500	"	"	"	"	"	"	
Chloroform	ND	0.260	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.346	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.225	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.286	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.258	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.268	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.218	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.274	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.234	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.249	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.233	0.500	"	"	"	"	"	"	Q-40
1,1-Dichloroethane	ND	0.285	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.324	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.287	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.299	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.302	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.186	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.262	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.182	0.500	"	"	"	"	"	"	Q-41
1,1-Dichloropropene	ND	0.309	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.205	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.181	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.241	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.258	2.00	"	"	"	"	"	"	
2-Hexanone	ND	1.17	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (B5K0411-06) Water	**Sampled: 11/17/05 00:00**		**Received: 11/19/05 13:26**							
Methylene chloride	ND	0.252	5.00	ug/l	1	5K22035	11/22/05	11/22/05	EPA 8260B	
Naphthalene	ND	0.271	0.500	"	"	"	"	"	"	
Styrene	ND	0.219	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"	"	"	"	"	"	
Tetrachloroethene	ND	0.250	0.500	"	"	"	"	"	"	
Toluene	ND	0.202	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.266	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.253	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.223	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.181	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.294	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.490	0.500	"	"	"	"	"	"	
o-Xylene	ND	0.223	0.500	"	"	"	"	"	"	
m,p-Xylene	ND	0.460	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	*117 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.8 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*98.8 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12RO3 (B5K0411-04) Water Sampled: 11/18/05 10:30 Received: 11/19/05 13:26										
Freon 113	ND	0.500	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Benzene	ND	0.110	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.37**	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12RO3 (B5K0411-04) Water Sampled: 11/18/05 10:30 Received: 11/19/05 13:26										
Hexachlorobutadiene	ND	0.260	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Isopropylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	**0.120**	0.0700	0.500	"	"	"	"	"	"	J
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**38.2**	0.120	0.500	"	"	"	"	"	"	
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	**1.53**	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*101 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*103 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*99.2 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*91.0 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purge-1 (B5K0411-05) Water Sampled: 11/18/05 11:45 Received: 11/19/05 13:26										
Freon 113	ND	0.500	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Benzene	ND	0.110	0.500	"	"	"	"	"	"	
Bromobenzene	ND	0.120	0.500	"	"	"	"	"	"	
Bromochloromethane	ND	0.0900	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.0600	0.500	"	"	"	"	"	"	
Bromoform	ND	0.0700	0.500	"	"	"	"	"	"	
Bromomethane	ND	0.0900	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.100	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.0800	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.0800	0.500	"	"	"	"	"	"	
Chloroform	ND	0.0500	0.500	"	"	"	"	"	"	
Chloromethane	ND	0.100	0.500	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.0700	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.100	0.500	"	"	"	"	"	"	
Dibromomethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0800	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.110	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.100	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.140	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0700	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.120	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0700	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0900	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0800	0.500	"	"	"	"	"	"	
1,1-Dichloropropene	ND	0.0800	0.500	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0900	0.500	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0400	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.0900	0.500	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Kate Haney

Kate Haney, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Purge-1 (B5K0411-05) Water Sampled: 11/18/05 11:45 Received: 11/19/05 13:26										
Hexachlorobutadiene	ND	0.260	0.500	ug/l	1	5111274	11/29/05	11/29/05	EPA 524.2	
Isopropylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.0700	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0600	0.500	"	"	"	"	"	"	
Methylene chloride	**0.180**	0.0700	0.500	"	"	"	"	"	"	J
Naphthalene	ND	0.120	0.500	"	"	"	"	"	"	
n-Propylbenzene	ND	0.0600	0.500	"	"	"	"	"	"	
Styrene	ND	0.0500	0.500	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"	"	"	"	"	"	
Tetrachloroethene	**0.340**	0.120	0.500	"	"	"	"	"	"	J
Toluene	ND	0.0600	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.170	0.500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.140	0.500	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0900	0.500	"	"	"	"	"	"	
Trichloroethene	ND	0.100	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.110	0.500	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.130	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"	"	"	"	"	"	
Vinyl chloride	ND	0.0700	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.180	1.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*102 %*		*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4	*101 %*		*70-130*			"	"	"	"	
Surrogate: Toluene-d8	*97.8 %*		*70-130*			"	"	"	"	
Surrogate: 4-BFB	*93.0 %*		*70-130*			"	"	"	"	

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Extractable Petroleum Hydrocarbons by Montana EPH (Screen) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K21004: Prepared 11/21/05 Using EPA 3520C											
Blank (5K21004-BLK1)											
TEH (Total Ext. Petroleum Hydrocarbons)	ND		300	ug/l							
Surrogate: 1-Chlorooctadecane	*483*			"	*500*		*96.6*	*50-150*			
Surrogate: o-Terphenyl	*460*			"	*500*		*92.0*	*50-150*			
LCS (5K21004-BS1)											
TEH (Total Ext. Petroleum Hydrocarbons)	2770		300	ug/l	3200		86.6	50-150			
Surrogate: 1-Chlorooctadecane	*495*			"	*500*		*99.0*	*50-150*			
Surrogate: o-Terphenyl	*457*			"	*500*		*91.4*	*50-150*			
LCS Dup (5K21004-BSD1)											
TEH (Total Ext. Petroleum Hydrocarbons)	2760		300	ug/l	3200		86.2	50-150	0.362	40	
Surrogate: 1-Chlorooctadecane	*489*			"	*500*		*97.8*	*50-150*			
Surrogate: o-Terphenyl	*448*			"	*500*		*89.6*	*50-150*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K22035: Prepared 11/22/05 Using EPA 5030B											
Blank (5K22035-BLK1)											
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		TIC	ug/l							N
2-Chloroethylvinyl ether	ND	0.785	5.00	"							
Benzene	ND	0.226	1.00	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	2.00	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	5.00	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							Q-40
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							Q-41

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K22035: Prepared 11/22/05 Using EPA 5030B											
Blank (5K22035-BLK1)											
1,1-Dichloropropene	ND	0.309	0.500	ug/l							
cis-1,3-Dichloropropene	ND	0.205	0.500	"							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	1.17	10.0	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	ND	0.271	0.500	"							
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*50.8*			"	*40.0*		*127*	*70-130*			
Surrogate: Toluene-d8	*39.1*			"	*40.0*		*97.8*	*70-130*			
Surrogate: 4-BFB	*39.2*			"	*40.0*		*98.0*	*70-130*			
LCS (5K22035-BS1)											
Benzene	40.9	0.226	1.00	ug/l	40.0		102	80-120			
Chlorobenzene	40.2	0.236	0.500	"	40.0		100	77-120			
1,1-Dichloroethene	36.9	0.287	0.500	"	40.0		92.2	80-120			
Methyl tert-butyl ether	36.8	0.258	2.00	"	40.0		92.0	80-120			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K22035: Prepared 11/22/05 Using EPA 5030B											
LCS (5K22035-BS1)											
Toluene	39.0	0.202	0.500	ug/l	40.0		97.5	80-120			
Trichloroethene	36.0	0.223	0.500	"	40.0		90.0	80-120			
Surrogate: 1,2-DCA-d4	*42.3*			"	*40.0*		*106*	*70-130*			
Surrogate: Toluene-d8	*39.4*			"	*40.0*		*98.5*	*70-130*			
Surrogate: 4-BFB	*40.0*			"	*40.0*		*100*	*70-130*			
LCS Dup (5K22035-BSD1)											
Benzene	41.5	0.226	1.00	ug/l	40.0		104	80-120	1.46	20	
Chlorobenzene	40.5	0.236	0.500	"	40.0		101	77-120	0.743	20	
1,1-Dichloroethene	38.7	0.287	0.500	"	40.0		96.8	80-120	4.76	20	
Methyl tert-butyl ether	35.4	0.258	2.00	"	40.0		88.5	80-120	3.88	20	
Toluene	39.4	0.202	0.500	"	40.0		98.5	80-120	1.02	20	
Trichloroethene	36.3	0.223	0.500	"	40.0		90.8	80-120	0.830	20	
Surrogate: 1,2-DCA-d4	*45.2*			"	*40.0*		*113*	*70-130*			
Surrogate: Toluene-d8	*40.8*			"	*40.0*		*102*	*70-130*			
Surrogate: 4-BFB	*39.2*			"	*40.0*		*98.0*	*70-130*			
Matrix Spike (5K22035-MS1)						**Source: B5K0411-01RE1**					
Benzene	164	0.904	4.00	ug/l	160	ND	102	63-148			
Chlorobenzene	166	0.944	2.00	"	160	ND	104	80-128			
1,1-Dichloroethene	186	1.15	2.00	"	160	ND	116	59-158			
Methyl tert-butyl ether	113	1.03	8.00	"	160	ND	70.6	60-140			
Toluene	164	0.808	2.00	"	160	ND	102	72-127			
Trichloroethene	143	0.892	2.00	"	160	4.84	86.4	80-126			
Surrogate: 1,2-DCA-d4	*40.8*			"	*40.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*40.2*			"	*40.0*		*100*	*70-130*			
Surrogate: 4-BFB	*40.0*			"	*40.0*		*100*	*70-130*			

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Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K22035: Prepared 11/22/05 Using EPA 5030B											
Matrix Spike Dup (5K22035-MSD1)						**Source: B5K0411-01RE1**					
Benzene	156	0.904	4.00	ug/l	160	ND	97.5	63-148	5.00	20	
Chlorobenzene	156	0.944	2.00	"	160	ND	97.5	80-128	6.21	20	
1,1-Dichloroethene	179	1.15	2.00	"	160	ND	112	59-158	3.84	30	
Methyl tert-butyl ether	123	1.03	8.00	"	160	ND	76.9	60-140	8.47	30	
Toluene	154	0.808	2.00	"	160	ND	96.2	72-127	6.29	20	
Trichloroethene	138	0.892	2.00	"	160	4.84	83.2	80-126	3.56	20	
Surrogate: 1,2-DCA-d4	*38.6*			"	*40.0*		*96.5*	*70-130*			
Surrogate: Toluene-d8	*39.8*			"	*40.0*		*99.5*	*70-130*			
Surrogate: 4-BFB	*40.0*			"	*40.0*		*100*	*70-130*			
Batch 5K29039: Prepared 11/23/05 Using EPA 5030B											
Blank (5K29039-BLK1)											
Total Xylenes	ND	0.360	1.00	ug/l							
Benzene	ND	0.226	0.500	"							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	2.00	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	5.00	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

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North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K29039: Prepared 11/23/05 Using EPA 5030B											
Blank (5K29039-BLK1)											
1,3-Dichlorobenzene	ND	0.234	0.500	ug/l							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							
1,2-Dichloroethane	ND	0.324	0.500	"							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							
cis-1,3-Dichloropropene	ND	0.205	0.500	"							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	1.17	10.0	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	ND	0.271	0.500	"							
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							

North Creek Analytical - Bothell

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Project Number: 0596021.16
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K29039: Prepared 11/23/05 Using EPA 5030B											
Blank (5K29039-BLK1)											
o-Xylene	ND	0.223	0.500	ug/l							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*35.6*			"	*40.0*		*89.0*	*70-130*			
Surrogate: Toluene-d8	*40.4*			"	*40.0*		*101*	*70-130*			
Surrogate: 4-BFB	*41.2*			"	*40.0*		*103*	*70-130*			
LCS (5K29039-BS1)											
Total Xylenes	135	0.360	1.00	ug/l	120		112	75-125			J
Benzene	44.1	0.226	0.500	"	40.0		110	80-120			
Chlorobenzene	44.6	0.236	0.500	"	40.0		112	77-120			
1,2-Dichloroethane	39.6	0.324	0.500	"	40.0		99.0	75-125			
1,1-Dichloroethene	40.2	0.287	0.500	"	40.0		100	80-120			
Ethylbenzene	44.0	0.241	0.500	"	40.0		110	75-125			
Methyl tert-butyl ether	37.4	0.258	2.00	"	40.0		93.5	80-120			
Toluene	47.5	0.202	0.500	"	40.0		119	80-120			
Trichloroethene	46.2	0.223	0.500	"	40.0		116	80-120			
o-Xylene	47.6	0.223	0.500	"	40.0		119	75-125			
m,p-Xylene	87.5	0.460	1.00	"	80.0		109	75-125			
Surrogate: 1,2-DCA-d4	*34.3*			"	*40.0*		*85.8*	*70-130*			
Surrogate: Toluene-d8	*42.5*			"	*40.0*		*106*	*70-130*			
Surrogate: 4-BFB	*41.2*			"	*40.0*		*103*	*70-130*			
LCS Dup (5K29039-BSD1)											
Total Xylenes	127	0.360	1.00	ug/l	120		106	75-125	6.11	20	J
Benzene	42.2	0.226	0.500	"	40.0		106	80-120	4.40	20	
Chlorobenzene	40.8	0.236	0.500	"	40.0		102	77-120	8.90	20	
1,2-Dichloroethane	37.3	0.324	0.500	"	40.0		93.2	75-125	5.98	20	
1,1-Dichloroethene	37.0	0.287	0.500	"	40.0		92.5	80-120	8.29	20	
Ethylbenzene	40.8	0.241	0.500	"	40.0		102	75-125	7.55	20	
Methyl tert-butyl ether	33.3	0.258	2.00	"	40.0		83.2	80-120	11.6	20	
Toluene	43.6	0.202	0.500	"	40.0		109	80-120	8.56	20	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K29039: Prepared 11/23/05 Using EPA 5030B											
LCS Dup (5K29039-BSD1)											
Trichloroethene	44.7	0.223	0.500	ug/l	40.0		112	80-120	3.30	20	
o-Xylene	43.8	0.223	0.500	"	40.0		110	75-125	8.32	20	
m,p-Xylene	82.7	0.460	1.00	"	80.0		103	75-125	5.64	20	
Surrogate: 1,2-DCA-d4	*34.2*			"	*40.0*		*85.5*	*70-130*			
Surrogate: Toluene-d8	*40.3*			"	*40.0*		*101*	*70-130*			
Surrogate: 4-BFB	*40.4*			"	*40.0*		*101*	*70-130*			
Batch 5L02045: Prepared 12/01/05 Using EPA 5030B											
Blank (5L02045-BLK1)											
Benzene	ND	0.226	0.500	ug/l							
Bromobenzene	ND	0.232	0.500	"							
Bromochloromethane	ND	0.319	0.500	"							
Bromodichloromethane	ND	0.215	0.500	"							
Bromoform	ND	0.200	0.500	"							
Bromomethane	ND	0.291	2.00	"							
Carbon tetrachloride	ND	0.264	0.500	"							
Chlorobenzene	ND	0.236	0.500	"							
Chloroethane	ND	0.305	0.500	"							
1-Chlorohexane	ND	0.360	0.500	"							
Chloroform	ND	0.260	0.500	"							
Chloromethane	ND	0.346	5.00	"							
2-Chlorotoluene	ND	0.225	0.500	"							
4-Chlorotoluene	ND	0.286	0.500	"							
Dibromochloromethane	ND	0.258	0.500	"							
1,2-Dibromoethane	ND	0.268	0.500	"							
Dibromomethane	ND	0.218	0.500	"							
1,2-Dichlorobenzene	ND	0.274	0.500	"							
1,3-Dichlorobenzene	ND	0.234	0.500	"							
1,4-Dichlorobenzene	ND	0.249	0.500	"							
Dichlorodifluoromethane	ND	0.233	0.500	"							
1,1-Dichloroethane	ND	0.285	0.500	"							

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Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L02045: Prepared 12/01/05 Using EPA 5030B											
Blank (5L02045-BLK1)											
1,2-Dichloroethane	ND	0.324	0.500	ug/l							
1,1-Dichloroethene	ND	0.287	0.500	"							
cis-1,2-Dichloroethene	ND	0.299	0.500	"							
trans-1,2-Dichloroethene	ND	0.302	0.500	"							
1,2-Dichloropropane	ND	0.186	0.500	"							
1,3-Dichloropropane	ND	0.262	0.500	"							
2,2-Dichloropropane	ND	0.182	0.500	"							
1,1-Dichloropropene	ND	0.309	0.500	"							
cis-1,3-Dichloropropene	ND	0.205	0.500	"							
trans-1,3-Dichloropropene	ND	0.181	0.500	"							
Ethylbenzene	ND	0.241	0.500	"							
Methyl tert-butyl ether	ND	0.258	2.00	"							
n-Hexane	ND	0.129	2.00	"							
2-Hexanone	ND	1.17	10.0	"							
Methylene chloride	ND	0.252	5.00	"							
Naphthalene	ND	0.271	0.500	"							
Styrene	ND	0.219	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.224	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.255	0.500	"							
Tetrachloroethene	ND	0.250	0.500	"							
Toluene	ND	0.202	0.500	"							
1,1,1-Trichloroethane	ND	0.266	0.500	"							
1,1,2-Trichloroethane	ND	0.253	0.500	"							
Trichloroethene	ND	0.223	0.500	"							
Trichlorofluoromethane	ND	0.181	0.500	"							
1,2,3-Trichloropropane	ND	0.294	0.500	"							
Vinyl chloride	ND	0.490	0.500	"							
o-Xylene	ND	0.223	0.500	"							
m,p-Xylene	ND	0.460	1.00	"							
Surrogate: 1,2-DCA-d4	*24.4*			"	*20.0*		*122*	*70-130*			
Surrogate: Toluene-d8	*20.5*			"	*20.0*		*102*	*70-130*			

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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North Creek Analytical - Bothell

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L02045: Prepared 12/01/05 Using EPA 5030B											
Blank (5L02045-BLK1)											
Surrogate: 4-BFB	*20.9*			*"*	*20.0*		*104*	*70-130*			
LCS (5L02045-BS1)											
Benzene	20.7	0.226	0.500	ug/l	20.0		104	80-120			
Chlorobenzene	20.5	0.236	0.500	"	20.0		102	77-120			
1,1-Dichloroethene	22.1	0.287	0.500	"	20.0		110	80-120			
Methyl tert-butyl ether	20.9	0.258	2.00	"	20.0		104	80-120			
Toluene	20.8	0.202	0.500	"	20.0		104	80-120			
Trichloroethene	20.7	0.223	0.500	"	20.0		104	80-120			
Surrogate: 1,2-DCA-d4	*21.4*			*"*	*20.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*20.0*			*"*	*20.0*		*100*	*70-130*			
Surrogate: 4-BFB	*20.2*			*"*	*20.0*		*101*	*70-130*			
LCS Dup (5L02045-BSD1)											
Benzene	19.2	0.226	0.500	ug/l	20.0		96.0	80-120	7.52	20	
Chlorobenzene	19.1	0.236	0.500	"	20.0		95.5	77-120	7.07	20	
1,1-Dichloroethene	19.6	0.287	0.500	"	20.0		98.0	80-120	12.0	20	
Methyl tert-butyl ether	20.0	0.258	2.00	"	20.0		100	80-120	4.40	20	
Toluene	19.8	0.202	0.500	"	20.0		99.0	80-120	4.93	20	
Trichloroethene	19.1	0.223	0.500	"	20.0		95.5	80-120	8.04	20	
Surrogate: 1,2-DCA-d4	*21.2*			*"*	*20.0*		*106*	*70-130*			
Surrogate: Toluene-d8	*20.7*			*"*	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*20.4*			*"*	*20.0*		*102*	*70-130*			
Matrix Spike (5L02045-MS1)						**Source: B5K0544-04**					
Benzene	22.2	0.226	0.500	ug/l	20.0	ND	111	63-148			
Chlorobenzene	21.6	0.236	0.500	"	20.0	ND	108	80-128			
1,1-Dichloroethene	24.5	0.287	0.500	"	20.0	ND	122	59-158			
Methyl tert-butyl ether	22.2	0.258	2.00	"	20.0	ND	111	60-140			
Toluene	22.8	0.202	0.500	"	20.0	ND	114	72-127			
Trichloroethene	22.0	0.223	0.500	"	20.0	ND	110	80-126			
Surrogate: 1,2-DCA-d4	*21.6*			*"*	*20.0*		*108*	*70-130*			

North Creek Analytical - Bothell

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Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L02045: Prepared 12/01/05 Using EPA 5030B											
Matrix Spike (5L02045-MS1)						**Source: B5K0544-04**					
Surrogate: Toluene-d8	*20.7*			*ug/l*	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*20.0*			*"*	*20.0*		*100*	*70-130*			
Matrix Spike Dup (5L02045-MSD1)						**Source: B5K0544-04**					
Benzene	21.0	0.226	0.500	ug/l	20.0	ND	105	63-148	5.56	20	
Chlorobenzene	20.6	0.236	0.500	"	20.0	ND	103	80-128	4.74	20	
1,1-Dichloroethene	22.4	0.287	0.500	"	20.0	ND	112	59-158	8.96	30	
Methyl tert-butyl ether	22.0	0.258	2.00	"	20.0	ND	110	60-140	0.905	30	
Toluene	21.9	0.202	0.500	"	20.0	ND	110	72-127	4.03	20	
Trichloroethene	20.9	0.223	0.500	"	20.0	ND	104	80-126	5.13	20	
Surrogate: 1,2-DCA-d4	*21.7*			*"*	*20.0*		*108*	*70-130*			
Surrogate: Toluene-d8	*20.9*			*"*	*20.0*		*104*	*70-130*			
Surrogate: 4-BFB	*19.7*			*"*	*20.0*		*98.5*	*70-130*			

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
Freon 113	ND	0.500	0.500	ug/l							
Benzene	ND	0.110	0.500	"							
Bromobenzene	ND	0.120	0.500	"							
Bromochloromethane	ND	0.0900	0.500	"							
Bromodichloromethane	ND	0.0600	0.500	"							
Bromoform	ND	0.0700	0.500	"							
Bromomethane	ND	0.0900	0.500	"							
n-Butylbenzene	ND	0.100	0.500	"							
sec-Butylbenzene	ND	0.0700	0.500	"							
tert-Butylbenzene	ND	0.0700	0.500	"							
Carbon tetrachloride	ND	0.0800	0.500	"							
Chlorobenzene	ND	0.0800	0.500	"							
Chloroethane	ND	0.0800	0.500	"							
Chloroform	ND	0.0500	0.500	"							
Chloromethane	ND	0.100	0.500	"							
2-Chlorotoluene	ND	0.0700	0.500	"							
4-Chlorotoluene	ND	0.120	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.180	0.500	"							
Dibromochloromethane	ND	0.0700	0.500	"							
1,2-Dibromoethane	ND	0.100	0.500	"							
Dibromomethane	ND	0.110	0.500	"							
1,2-Dichlorobenzene	ND	0.0800	0.500	"							
1,3-Dichlorobenzene	ND	0.0800	0.500	"							
1,4-Dichlorobenzene	ND	0.110	0.500	"							
Dichlorodifluoromethane	ND	0.100	0.500	"							
1,1-Dichloroethane	ND	0.0900	0.500	"							
1,2-Dichloroethane	ND	0.0900	0.500	"							
1,1-Dichloroethene	ND	0.140	0.500	"							
cis-1,2-Dichloroethene	ND	0.0700	0.500	"							
trans-1,2-Dichloroethene	ND	0.120	0.500	"							
1,2-Dichloropropane	ND	0.0700	0.500	"							

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
1,3-Dichloropropane	ND	0.0900	0.500	ug/l							
2,2-Dichloropropane	ND	0.0800	0.500	"							
1,1-Dichloropropene	ND	0.0800	0.500	"							
cis-1,3-Dichloropropene	ND	0.0900	0.500	"							
trans-1,3-Dichloropropene	ND	0.0400	0.500	"							
Ethylbenzene	ND	0.0900	0.500	"							
Hexachlorobutadiene	ND	0.260	0.500	"							
Isopropylbenzene	ND	0.0600	0.500	"							
p-Isopropyltoluene	ND	0.0700	0.500	"							
Methyl tert-butyl ether	ND	0.0600	0.500	"							
Methylene chloride	0.160	0.0700	0.500	"							J
Naphthalene	ND	0.120	0.500	"							
n-Propylbenzene	ND	0.0600	0.500	"							
Styrene	ND	0.0500	0.500	"							
1,1,1,2-Tetrachloroethane	ND	0.0700	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.100	0.500	"							
Tetrachloroethene	ND	0.120	0.500	"							
Toluene	ND	0.0600	0.500	"							
1,2,3-Trichlorobenzene	ND	0.170	0.500	"							
1,2,4-Trichlorobenzene	ND	0.140	0.500	"							
1,1,1-Trichloroethane	ND	0.0900	0.500	"							
1,1,2-Trichloroethane	ND	0.0900	0.500	"							
Trichloroethene	ND	0.100	0.500	"							
Trichlorofluoromethane	ND	0.110	0.500	"							
1,2,3-Trichloropropane	ND	0.130	0.500	"							
1,2,4-Trimethylbenzene	ND	0.0700	0.500	"							
1,3,5-Trimethylbenzene	ND	0.0700	0.500	"							
Vinyl chloride	ND	0.0700	0.500	"							
Xylenes (total)	ND	0.180	1.00	"							
Surrogate: Dibromofluoromethane	*4.97*			"	*5.00*		*99.4*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.12*			"	*5.00*		*102*	*70-130*			

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control
North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Blank (5111274-BLK1)											
Surrogate: Toluene-d8	*5.12*			*"*	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.81*			*"*	*5.00*		*96.2*	*70-130*			
LCS (5111274-BS1)											
Benzene	5.23	0.110	0.500	ug/l	5.00		105	70-130			
Bromobenzene	5.12	0.120	0.500	"	5.00		102	70-130			
Bromochloromethane	5.17	0.0900	0.500	"	5.00		103	70-130			
Bromodichloromethane	5.24	0.0600	0.500	"	5.00		105	70-130			
Bromoform	4.13	0.0700	0.500	"	5.00		82.6	70-130			
Bromomethane	4.98	0.0900	0.500	"	5.00		99.6	70-130			
n-Butylbenzene	4.97	0.100	0.500	"	5.00		99.4	70-130			
sec-Butylbenzene	4.74	0.0700	0.500	"	5.00		94.8	70-130			
tert-Butylbenzene	4.88	0.0700	0.500	"	5.00		97.6	70-130			
Carbon tetrachloride	5.06	0.0800	0.500	"	5.00		101	70-130			
Chlorobenzene	5.18	0.0800	0.500	"	5.00		104	70-130			
Chloroethane	5.26	0.0800	0.500	"	5.00		105	70-130			
Chloroform	5.26	0.0500	0.500	"	5.00		105	70-130			
Chloromethane	4.96	0.100	0.500	"	5.00		99.2	70-130			
2-Chlorotoluene	5.11	0.0700	0.500	"	5.00		102	70-130			
4-Chlorotoluene	5.06	0.120	0.500	"	5.00		101	70-130			
1,2-Dibromo-3-chloropropane	4.36	0.180	0.500	"	5.00		87.2	70-130			
Dibromochloromethane	5.04	0.0700	0.500	"	5.00		101	70-130			
1,2-Dibromoethane	5.27	0.100	0.500	"	5.00		105	70-130			
Dibromomethane	5.25	0.110	0.500	"	5.00		105	70-130			
1,2-Dichlorobenzene	5.03	0.0800	0.500	"	5.00		101	70-130			
1,3-Dichlorobenzene	4.88	0.0800	0.500	"	5.00		97.6	70-130			
1,4-Dichlorobenzene	4.69	0.110	0.500	"	5.00		93.8	70-130			
Dichlorodifluoromethane	4.88	0.100	0.500	"	5.00		97.6	70-130			
1,1-Dichloroethane	5.11	0.0900	0.500	"	5.00		102	70-130			
1,2-Dichloroethane	5.21	0.0900	0.500	"	5.00		104	70-130			
1,1-Dichloroethene	5.34	0.140	0.500	"	5.00		107	70-130			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
LCS (5111274-BS1)											
cis-1,2-Dichloroethene	5.10	0.0700	0.500	ug/l	5.00		102	70-130			
trans-1,2-Dichloroethene	5.37	0.120	0.500	"	5.00		107	70-130			
1,2-Dichloropropane	5.01	0.0700	0.500	"	5.00		100	70-130			
1,3-Dichloropropane	5.20	0.0900	0.500	"	5.00		104	70-130			
2,2-Dichloropropane	5.06	0.0800	0.500	"	5.00		101	70-130			
1,1-Dichloropropene	5.35	0.0800	0.500	"	5.00		107	70-130			
cis-1,3-Dichloropropene	5.04	0.0900	0.500	"	5.00		101	70-130			
trans-1,3-Dichloropropene	4.76	0.0400	0.500	"	5.00		95.2	70-130			
Ethylbenzene	5.19	0.0900	0.500	"	5.00		104	70-130			
Hexachlorobutadiene	4.85	0.260	0.500	"	5.00		97.0	70-130			
Isopropylbenzene	5.29	0.0600	0.500	"	5.00		106	70-130			
p-Isopropyltoluene	4.92	0.0700	0.500	"	5.00		98.4	70-130			
Methyl tert-butyl ether	5.30	0.0600	0.500	"	5.00		106	70-130			
Methylene chloride	4.90	0.0700	0.500	"	5.00		98.0	70-130			
Naphthalene	4.77	0.120	0.500	"	5.00		95.4	70-130			
n-Propylbenzene	5.19	0.0600	0.500	"	5.00		104	70-130			
Styrene	4.59	0.0500	0.500	"	5.00		91.8	70-130			
1,1,1,2-Tetrachloroethane	5.07	0.0700	0.500	"	5.00		101	70-130			
1,1,2,2-Tetrachloroethane	4.88	0.100	0.500	"	5.00		97.6	70-130			
Tetrachloroethene	5.04	0.120	0.500	"	5.00		101	70-130			
Toluene	5.18	0.0600	0.500	"	5.00		104	70-130			
1,2,3-Trichlorobenzene	4.72	0.170	0.500	"	5.00		94.4	70-130			
1,2,4-Trichlorobenzene	4.85	0.140	0.500	"	5.00		97.0	70-130			
1,1,1-Trichloroethane	5.15	0.0900	0.500	"	5.00		103	70-130			
1,1,2-Trichloroethane	5.07	0.0900	0.500	"	5.00		101	70-130			
Trichloroethene	4.82	0.100	0.500	"	5.00		96.4	70-130			
Trichlorofluoromethane	5.20	0.110	0.500	"	5.00		104	70-130			
1,2,3-Trichloropropane	5.03	0.130	0.500	"	5.00		101	70-130			
1,2,4-Trimethylbenzene	4.95	0.0700	0.500	"	5.00		99.0	70-130			
1,3,5-Trimethylbenzene	5.05	0.0700	0.500	"	5.00		101	70-130			
Vinyl chloride	5.08	0.0700	0.500	"	5.00		102	70-130			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
LCS (5111274-BS1)											
Surrogate: Dibromofluoromethane	*5.16*			*ug/l*	*5.00*		*103*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.03*			*"*	*5.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*5.03*			*"*	*5.00*		*101*	*70-130*			
Surrogate: 4-BFB	*5.03*			*"*	*5.00*		*101*	*70-130*			
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
Benzene	25.8	0.110	0.500	ug/l	25.0	ND	103	70-130			
Bromobenzene	25.3	0.120	0.500	"	25.0	ND	101	70-130			
Bromochloromethane	26.1	0.0900	0.500	"	25.0	ND	104	70-130			
Bromodichloromethane	24.7	0.0600	0.500	"	25.0	ND	98.8	70-130			
Bromoform	18.7	0.0700	0.500	"	25.0	ND	74.8	70-130			
Bromomethane	27.9	0.0900	0.500	"	25.0	ND	112	70-130			
n-Butylbenzene	24.8	0.100	0.500	"	25.0	ND	99.2	70-130			
sec-Butylbenzene	24.6	0.0700	0.500	"	25.0	ND	98.4	70-130			
tert-Butylbenzene	24.4	0.0700	0.500	"	25.0	ND	97.6	70-130			
Carbon tetrachloride	25.2	0.0800	0.500	"	25.0	ND	101	70-130			
Chlorobenzene	25.0	0.0800	0.500	"	25.0	ND	100	70-130			
Chloroethane	25.3	0.0800	0.500	"	25.0	ND	101	70-130			
Chloroform	25.2	0.0500	0.500	"	25.0	ND	101	70-130			
Chloromethane	25.8	0.100	0.500	"	25.0	ND	103	70-130			
2-Chlorotoluene	24.2	0.0700	0.500	"	25.0	ND	96.8	70-130			
4-Chlorotoluene	24.8	0.120	0.500	"	25.0	ND	99.2	70-130			
1,2-Dibromo-3-chloropropane	21.7	0.180	0.500	"	25.0	ND	86.8	70-130			
Dibromochloromethane	24.2	0.0700	0.500	"	25.0	ND	96.8	70-130			
1,2-Dibromoethane	25.1	0.100	0.500	"	25.0	ND	100	70-130			
Dibromomethane	25.8	0.110	0.500	"	25.0	ND	103	70-130			
1,2-Dichlorobenzene	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130			
1,3-Dichlorobenzene	24.5	0.0800	0.500	"	25.0	ND	98.0	70-130			
1,4-Dichlorobenzene	24.0	0.110	0.500	"	25.0	ND	96.0	70-130			
Dichlorodifluoromethane	26.4	0.100	0.500	"	25.0	ND	106	70-130			
1,1-Dichloroethane	25.0	0.0900	0.500	"	25.0	ND	100	70-130			

North Creek Analytical - Bothell

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Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
1,2-Dichloroethane	25.4	0.0900	0.500	ug/l	25.0	ND	102	70-130			
1,1-Dichloroethene	25.4	0.140	0.500	"	25.0	ND	102	70-130			
cis-1,2-Dichloroethene	25.2	0.0700	0.500	"	25.0	ND	101	70-130			
trans-1,2-Dichloroethene	25.2	0.120	0.500	"	25.0	ND	101	70-130			
1,2-Dichloropropane	25.9	0.0700	0.500	"	25.0	ND	104	70-130			
1,3-Dichloropropane	25.6	0.0900	0.500	"	25.0	ND	102	70-130			
2,2-Dichloropropane	24.4	0.0800	0.500	"	25.0	ND	97.6	70-130			
1,1-Dichloropropene	25.9	0.0800	0.500	"	25.0	ND	104	70-130			
cis-1,3-Dichloropropene	26.2	0.0900	0.500	"	25.0	ND	105	70-130			
trans-1,3-Dichloropropene	22.8	0.0400	0.500	"	25.0	ND	91.2	70-130			
Ethylbenzene	25.2	0.0900	0.500	"	25.0	ND	101	70-130			
Hexachlorobutadiene	23.8	0.260	0.500	"	25.0	ND	95.2	70-130			
Isopropylbenzene	25.0	0.0600	0.500	"	25.0	ND	100	70-130			
p-Isopropyltoluene	24.8	0.0700	0.500	"	25.0	ND	99.2	70-130			
Methyl tert-butyl ether	24.8	0.0600	0.500	"	25.0	ND	99.2	70-130			
Methylene chloride	23.3	0.0700	0.500	"	25.0	0.280	92.1	70-130			
Naphthalene	23.6	0.120	0.500	"	25.0	ND	94.4	70-130			
n-Propylbenzene	25.4	0.0600	0.500	"	25.0	ND	102	70-130			
Styrene	23.8	0.0500	0.500	"	25.0	ND	95.2	70-130			
1,1,1,2-Tetrachloroethane	26.0	0.0700	0.500	"	25.0	ND	104	70-130			
1,1,2,2-Tetrachloroethane	25.1	0.100	0.500	"	25.0	ND	100	70-130			
Tetrachloroethene	24.4	0.120	0.500	"	25.0	ND	97.6	70-130			
Toluene	25.1	0.0600	0.500	"	25.0	ND	100	70-130			
1,2,3-Trichlorobenzene	23.1	0.170	0.500	"	25.0	ND	92.4	70-130			
1,2,4-Trichlorobenzene	23.4	0.140	0.500	"	25.0	ND	93.6	70-130			
1,1,1-Trichloroethane	25.7	0.0900	0.500	"	25.0	ND	103	70-130			
1,1,2-Trichloroethane	25.0	0.0900	0.500	"	25.0	ND	100	70-130			
Trichloroethene	24.3	0.100	0.500	"	25.0	ND	97.2	70-130			
Trichlorofluoromethane	25.1	0.110	0.500	"	25.0	ND	100	70-130			
1,2,3-Trichloropropane	23.6	0.130	0.500	"	25.0	ND	94.4	70-130			
1,2,4-Trimethylbenzene	25.7	0.0700	0.500	"	25.0	ND	103	70-130			

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants
32001 32nd Ave S Ste 100
Federal Way, WA/USA 98001

Project: BNSF-Livingston, MT
Project Number: 0596021.16
Project Manager: John Lee

Amended Report
Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike (5111274-MS1)						**Source: P5K0753-01**					
1,3,5-Trimethylbenzene	25.5	0.0700	0.500	ug/l	25.0	ND	102	70-130			
Vinyl chloride	25.4	0.0700	0.500	"	25.0	ND	102	70-130			
Surrogate: Dibromofluoromethane	*5.09*			"	*5.00*		*102*	*70-130*			
Surrogate: 1,2-DCA-d4	*4.94*			"	*5.00*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*5.09*			"	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.89*			"	*5.00*		*97.8*	*70-130*			
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
Benzene	26.3	0.110	0.500	ug/l	25.0	ND	105	70-130	1.92	30	
Bromobenzene	25.6	0.120	0.500	"	25.0	ND	102	70-130	1.18	30	
Bromochloromethane	26.7	0.0900	0.500	"	25.0	ND	107	70-130	2.27	30	
Bromodichloromethane	25.7	0.0600	0.500	"	25.0	ND	103	70-130	3.97	30	
Bromoform	19.2	0.0700	0.500	"	25.0	ND	76.8	70-130	2.64	30	
Bromomethane	29.9	0.0900	0.500	"	25.0	ND	120	70-130	6.92	30	
n-Butylbenzene	26.0	0.100	0.500	"	25.0	ND	104	70-130	4.72	30	
sec-Butylbenzene	25.2	0.0700	0.500	"	25.0	ND	101	70-130	2.41	30	
tert-Butylbenzene	24.7	0.0700	0.500	"	25.0	ND	98.8	70-130	1.22	30	
Carbon tetrachloride	26.2	0.0800	0.500	"	25.0	ND	105	70-130	3.89	30	
Chlorobenzene	25.7	0.0800	0.500	"	25.0	ND	103	70-130	2.76	30	
Chloroethane	26.2	0.0800	0.500	"	25.0	ND	105	70-130	3.50	30	
Chloroform	26.2	0.0500	0.500	"	25.0	ND	105	70-130	3.89	30	
Chloromethane	26.8	0.100	0.500	"	25.0	ND	107	70-130	3.80	30	
2-Chlorotoluene	24.6	0.0700	0.500	"	25.0	ND	98.4	70-130	1.64	30	
4-Chlorotoluene	25.1	0.120	0.500	"	25.0	ND	100	70-130	1.20	30	
1,2-Dibromo-3-chloropropane	24.7	0.180	0.500	"	25.0	ND	98.8	70-130	12.9	30	
Dibromochloromethane	24.9	0.0700	0.500	"	25.0	ND	99.6	70-130	2.85	30	
1,2-Dibromoethane	25.5	0.100	0.500	"	25.0	ND	102	70-130	1.58	30	
Dibromomethane	26.2	0.110	0.500	"	25.0	ND	105	70-130	1.54	30	
1,2-Dichlorobenzene	26.2	0.0800	0.500	"	25.0	ND	105	70-130	5.49	30	
1,3-Dichlorobenzene	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130	1.22	30	
1,4-Dichlorobenzene	24.5	0.110	0.500	"	25.0	ND	98.0	70-130	2.06	30	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants	Project: BNSF-Livingston, MT	
32001 32nd Ave S Ste 100	Project Number: 0596021.16	**Amended Report**
Federal Way, WA/USA 98001	Project Manager: John Lee	Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
Dichlorodifluoromethane	26.9	0.100	0.500	ug/l	25.0	ND	108	70-130	1.88	30	
1,1-Dichloroethane	26.3	0.0900	0.500	"	25.0	ND	105	70-130	5.07	30	
1,2-Dichloroethane	26.1	0.0900	0.500	"	25.0	ND	104	70-130	2.72	30	
1,1-Dichloroethene	26.4	0.140	0.500	"	25.0	ND	106	70-130	3.86	30	
cis-1,2-Dichloroethene	25.9	0.0700	0.500	"	25.0	ND	104	70-130	2.74	30	
trans-1,2-Dichloroethene	26.2	0.120	0.500	"	25.0	ND	105	70-130	3.89	30	
1,2-Dichloropropane	26.6	0.0700	0.500	"	25.0	ND	106	70-130	2.67	30	
1,3-Dichloropropane	26.3	0.0900	0.500	"	25.0	ND	105	70-130	2.70	30	
2,2-Dichloropropane	24.8	0.0800	0.500	"	25.0	ND	99.2	70-130	1.63	30	
1,1-Dichloropropene	26.4	0.0800	0.500	"	25.0	ND	106	70-130	1.91	30	
cis-1,3-Dichloropropene	27.1	0.0900	0.500	"	25.0	ND	108	70-130	3.38	30	
trans-1,3-Dichloropropene	24.0	0.0400	0.500	"	25.0	ND	96.0	70-130	5.13	30	
Ethylbenzene	25.5	0.0900	0.500	"	25.0	ND	102	70-130	1.18	30	
Hexachlorobutadiene	26.2	0.260	0.500	"	25.0	ND	105	70-130	9.60	30	
Isopropylbenzene	25.6	0.0600	0.500	"	25.0	ND	102	70-130	2.37	30	
p-Isopropyltoluene	25.2	0.0700	0.500	"	25.0	ND	101	70-130	1.60	30	
Methyl tert-butyl ether	25.6	0.0600	0.500	"	25.0	ND	102	70-130	3.17	30	
Methylene chloride	24.1	0.0700	0.500	"	25.0	0.280	95.3	70-130	3.38	30	
Naphthalene	25.6	0.120	0.500	"	25.0	ND	102	70-130	8.13	30	
n-Propylbenzene	25.6	0.0600	0.500	"	25.0	ND	102	70-130	0.784	30	
Styrene	24.4	0.0500	0.500	"	25.0	ND	97.6	70-130	2.49	30	
1,1,1,2-Tetrachloroethane	27.0	0.0700	0.500	"	25.0	ND	108	70-130	3.77	30	
1,1,2,2-Tetrachloroethane	25.2	0.100	0.500	"	25.0	ND	101	70-130	0.398	30	
Tetrachloroethene	25.0	0.120	0.500	"	25.0	ND	100	70-130	2.43	30	
Toluene	25.8	0.0600	0.500	"	25.0	ND	103	70-130	2.75	30	
1,2,3-Trichlorobenzene	25.6	0.170	0.500	"	25.0	ND	102	70-130	10.3	30	
1,2,4-Trichlorobenzene	25.3	0.140	0.500	"	25.0	ND	101	70-130	7.80	30	
1,1,1-Trichloroethane	26.8	0.0900	0.500	"	25.0	ND	107	70-130	4.19	30	
1,1,2-Trichloroethane	25.6	0.0900	0.500	"	25.0	ND	102	70-130	2.37	30	
Trichloroethene	25.0	0.100	0.500	"	25.0	ND	100	70-130	2.84	30	
Trichlorofluoromethane	25.9	0.110	0.500	"	25.0	ND	104	70-130	3.14	30	

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Volatile Organic Compounds in Drinking Water per EPA 524.2 - Quality Control

North Creek Analytical - Portland

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111274: Prepared 11/29/05 Using EPA 5030B											
Matrix Spike Dup (5111274-MSD1)						**Source: P5K0753-01**					
1,2,3-Trichloropropane	24.6	0.130	0.500	ug/l	25.0	ND	98.4	70-130	4.15	30	
1,2,4-Trimethylbenzene	26.0	0.0700	0.500	"	25.0	ND	104	70-130	1.16	30	
1,3,5-Trimethylbenzene	26.0	0.0700	0.500	"	25.0	ND	104	70-130	1.94	30	
Vinyl chloride	26.1	0.0700	0.500	"	25.0	ND	104	70-130	2.72	30	
Surrogate: Dibromofluoromethane	*5.19*			"	*5.00*		*104*	*70-130*			
Surrogate: 1,2-DCA-d4	*5.02*			"	*5.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*5.08*			"	*5.00*		*102*	*70-130*			
Surrogate: 4-BFB	*4.90*			"	*5.00*		*98.0*	*70-130*			

North Creek Analytical - Bothell

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Kennedy/Jenks Consultants 32001 32nd Ave S Ste 100 Federal Way, WA/USA 98001	Project: BNSF-Livingston, MT Project Number: 0596021.16 Project Manager: John Lee	**Amended Report** Issued: 12/28/05 13:26

Notes and Definitions

E	Estimated value. The reported value exceeds the calibration range of the analysis.
J	Estimated value.
N	Tentatively Identified Compound
Q-34	The sample container submitted for volatile analysis had either headspace or air bubbles greater than 1/4 inch in diameter.
Q-40	This analyte had a low bias in the associated calibration verification standard.
Q-41	This analyte had a high bias in the associated calibration verification standard.
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

North Creek Analytical - Bothell

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Kate Haney, Project Manager

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CHAIN OF CUSTODY REPORT

Work Order #: B5K0411

NCA CLIENT: BNSF - KENNEDY / JENKS
REPORT TO: JOHN LEE - K/J FED. WAY
ADDRESS:
PHONE: 253-874-0555 FAX: 253-952-3435
PROJECT NAME: BNSF - LIVINGSTON
PROJECT NUMBER: 0596021.16
SAMPLED BY: RGH/MLG

INVOICE TO: [redacted] REID - K/J PORTLAND
P.O. NUMBER: 0596021.16

TURNAROUND REQUEST
In Business Days *
Organic & Inorganic Analyses: 10 (NO) | 7 | 5 | 4 | 3 | 2 | 1 | <1
Petroleum Hydrocarbon Analyses: 5 (NO) | 4 | 3 | 2 | 1 | <1
OTHER Specify:
* Turnaround Requests for this standard may have Rush Charges

PRESERVATIVE: ✓ | ✓ | ✓ | ✓ | ✓

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 8260	VOC 8260 MS/MSD	VOC 524.2	EPH	VPH	PAH	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	89-3	11/17/05 1645	X	X					W	7		-01
2	MW-100	11/17/05 0800	X						W	3		-02
3	92-1	11/18/05 0915	X						W	3		-03
4	12R03	11/18/05 1030			X				W	3		-04
5	Purge-1	11/18/05 1145	X			X	X	X	W	9	IF >0.3 THEN FRACTIONATE	-05
6												
7	TRIP BLANK								W	1		-06
8												
9												
10												

RELEASED BY: [signature] DATE: 11/18/05
PRINT NAME: ROBERT HUEBNER FIRM: K/J FED. WAY TIME: 1600

RECEIVED BY: [signature] DATE: 11/19/05
PRINT NAME: BRANY TONTO FIRM: NCA TIME: 10:40

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

COC REV 09/04

TEMP: Wes 4.3

PAGE OF

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2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

nca

Revised Chain of Custody

CHAIN OF CUSTODY REPORT

Work Order #: BSK0411

NCA CLIENT: BNSF - KENNEDY/JENKS

REPORT TO: JOHN LEE - K/J FED. WAY

ADDRESS:

PHONE: 253-874-0655 FAX: 253-952-3435

INVOICE TO: [illegible] - K/J PORTLAND

P.O. NUMBER: 0596021.16

PROJECT NAME: BNSF - LIVINGSTON

PROJECT NUMBER: 0596021.16

SAMPLED BY: RGH/MLG

TURNAROUND REQUEST (In Business Days *)

Organic & Inorganic Analyses: 10 (RUSH) | 7 | 5 | 4 | 3 | 2 | 1 | <1

Petroleum Hydrocarbon Analyses: 7 (RUSH) | 4 | 3 | 2 | 1 | <1

OTHER Specify:

* Pre-scheduled Surcharges Are Surcharged and Lower Rush Charges

PRESERVATIVE: ✓ ✓ ✓ ✓ ✓

REQUESTED ANALYSES

	CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	VOC 8260	VOC 8260 MS/MSD	VOC 524.2	EPH	VPH	PAH	MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID
1	89-3	11/17/05 1645	X	X					W	7	-	01
2	MW-100	11/17/05 0800	X						W	3	-	02
3	92-1	11/18/05 0915	X						W	3	-	03
4	12R03	11/18/05 1030	(1)		X				W	3	-	04
5	Purge-1	11/18/05 1145	X		X	X	X	X	W	9	IF >0.3 THEN FRACTIONATE -	05
6			(1)									
7	TRIP BLANK		X						W	1	-	06
8												
9												
10												

RELEASED BY: [signature] DATE: 11/18/05
PRINT NAME: ROBERT HUEBNER FIRM: K/J FED. WAY TIME: 1600

RECEIVED BY: [signature] DATE: 11/19/05
PRINT NAME: BRANY TONTG FIRM: NCA TIME: 10:40

RELEASED BY: DATE:
PRINT NAME: FIRM: TIME:

RECEIVED BY: DATE:
PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

COC REV 09/04

Wles TEMP: 4.3 PAGE OF