

release 411259
TOSCO 6380
Bellingham
DATE: November 6, 2002

**CONOCOPHILLIPS CORPORATION
GROUNDWATER MONITORING REPORT**

Site No.: 6380 Address: 200 South 36th Street, Bellingham, Washington
ConocoPhillips Site Manager: Timothy D. Johnson
Consultant/Contact Person: Environmental Resolutions, Inc./James S. Matthiessen
Primary Agency/Regulatory ID No.: Washington State Department of Ecology

WORK PERFORMED THIS QUARTER(S) [Third - 2002]:

- Monitored, purged, and sampled 4 groundwater monitoring wells

WORK PROPOSED FOR NEXT QUARTER [Fourth - 2002]:

- Monitor, purge, and sample 4 groundwater monitoring wells

SUMMARY:

Frequency of Sampling Events:	Quarterly	(Quarterly, etc.)
Approximate Depth to Groundwater:	5 to 10 ft	(Measured Feet)
Groundwater Gradient:	Southerly and Westerly	(Direction)
	0.001 ft/ft	(Magnitude)
Maximum TPH-G/Benzene Concentrations:	197/1.82	(ppb)
Measurable Free Product Detected:	None	(Yes - ID well(s)/No)
Free Product Recovered This Quarter:	Unknown	(gallons)
Cumulative Free Product Recovered to Date:	Unknown	(gallons)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters w/in 2,000 ft:	Unknown	(Distance &
Radius and Respective Direction:	NA	Direction)
Current Remedial Action:	None	(SVE/AS/P&T etc.)
Permits for Discharge:	None	(NPDES, POTW, etc.)

DISCUSSION:

- MW1 contained hydrocarbon concentrations exceeding MTCA Method A Cleanup Levels.

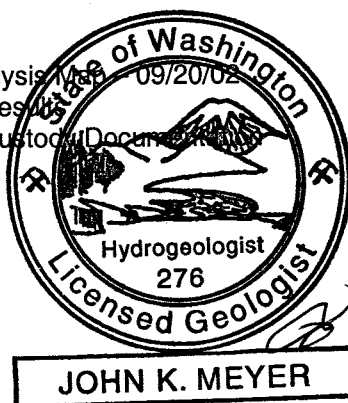
ATTACHMENTS:

Plate 1: Groundwater Sample Analysis
Table 1: Groundwater Analytical Results
Laboratory Reports and Chain of Custody Documents
Field Data Records

Prepared By:

Yukiko Noguchi

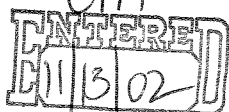
Yukiko Noguchi
Staff Scientist



Reviewed By:

John K. Meyer
John K. Meyer, R.G.
Branch Manager

cc: Washington State Department of Ecology, Northwest Regional Office
Keith Oil Corporation, Frank Diehl



RECEIVED
NOV 12 2002
DEPT OF ECOLOGY

31065.13.Q023

02/10/00	02/02/01	02/08/02	09/20/02
<50.0	<50.0	<50.0	<50.0
<250	<250	<250	<250
<750	<750	<500	<500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	<0.500
<1.00	<1.00	<1.00	<1.00
49.1	--	40.6	<1.00

BILL McDONALD PARKWAY

05/26/02
210
383
<500
<0.500
<0.500
3.04
40.6
--

Laboratory Results
in ug/L (ppb)

Sample Date
05/26/02

Total Petroleum Hydrocarbons as Gasoline
Total Petroleum Hydrocarbons as Diesel
Total Petroleum Hydrocarbons as Oil

Benzene
Toluene
Ethylbenzene
Total Xylenes
Total Lead

Numbers in Red Exceed
MTCA Method A Cleanup Levels

-- = Not Analyzed

< 1.00 = Less than the Stated Laboratory Reporting Limit

02/10/00	02/02/01	02/08/02	09/20/02
<50.0	<50.0	838	197
<250	588	1,600	1,320
<750	<750	<500	<588
<0.500	12.4	128	1.82
<0.500	1.02	2.15	<0.500
<0.500	1.10	85.4	33.0
<1.00	2.77	6.55	<1.00
1.75	--	7.70	<1.00

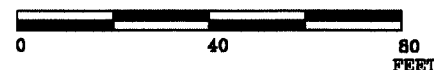
SAMISH WAY

02/10/00	02/02/01	02/08/02	09/20/02
<50.0	<50.0	<50.0	<50.0
<250	<250	<250	<250
<750	<750	<500	<500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	<0.500
<1.00	<1.00	<1.00	<1.00
23.6	--	3.30	<1.00

02/10/00	02/02/01	02/08/02	09/20/02
<50.0	63.0	91.5	129
<250	413	410	372
<750	<750	<500	<500
<0.500	<0.500	<0.500	<0.500
<0.500	<0.500	<0.500	<0.500
<0.500	0.503	<0.500	<0.500
<1.00	<1.00	<1.00	<1.00
17.6	--	22.3	<1.00



APPROXIMATE SCALE



SOURCE: Modified
from maps provided by
ConocoPhillips Corporation

FN 31065.13



GROUNDWATER SAMPLE ANALYSIS MAP - 09/20/02

TOSCO SITE NO. 6380
200 South 36th Street
Bellingham, Washington

EXPLANATION

 MW3 Groundwater Monitoring Well
92.65 Groundwater Elevation

PROJECT NO.

31065

PLATE

1

YN: 10/15/02

TABLE 1
GROUNDWATER ANALYTICAL RESULTS

Tosco Site No. 6380
200 South 36th Street
Bellingham, Washington

Page 1 of 1

Well Name	Sample Date	DTW	GW Elev.	TPH-G	TPH-D	TPH-O	B	T	E	X	Total Pb	Diss Pb
MW1 98.49	03/11/99	4.96	93.53	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	2.41	--
	05/25/99	5.33	93.16	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	6.66	91.83	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	6.10	92.39	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	6.18	--
	02/10/00	6.10	92.39	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	1.75	--
	02/02/01	5.17	93.32	<50.0	588	<750	12.4	1.02	1.10	2.77	--	<1.00
	02/08/02	5.77	92.72	838	1,600	<500	128	2.15	85.4	6.55	7.70	<1.00
	09/20/02	6.27	92.22	197	1,320	<588	1.82	<0.500	33.0	<1.00	<1.00	--
MW2 100.74	03/11/99	7.93	92.81	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	162	--
	05/25/99	8.18	92.56	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	8.94	91.80	<50.0	281	<750	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	8.04	92.70	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	17.0	--
	02/10/00	8.32	92.42	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	49.1	--
	02/02/01	6.40	94.34	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	<1.00
	02/08/02	7.77	92.97	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	40.6	<1.00
	09/20/02	9.23	91.51	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
MW3 97.84	03/11/99	4.93	92.91	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	6.35	--
	05/25/99	5.19	92.65	210	383	<750	<0.500	<0.500	3.04	3.93	--	--
	08/12/99	5.70	92.14	56.3	<250	<750	<0.500	<0.500	0.732	1.84	--	--
	12/07/99	5.03	92.81	94.7	<250	<750	<0.500	0.598	<0.500	<1.00	4.40	--
	02/10/00	4.92	92.92	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	17.6	--
	02/02/01	4.76	93.08	63.0	413	<750	<0.500	<0.500	0.503	<1.00	--	<1.00
	02/08/02	4.59	93.25	91.5	410	<500	<0.500	<0.500	<0.500	<1.00	22.3	<1.00
	09/20/02	5.88	91.96	129	372	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
MW4 99.44	03/11/99	6.39	93.05	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	29.0	--
	05/25/99	6.62	92.82	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	08/12/99	7.31	92.13	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--
	12/07/99	6.37	93.07	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	10.2	--
	02/10/00	6.48	92.96	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	23.6	--
	02/02/01	6.37	93.07	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	<1.00
	02/08/02	6.03	93.41	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	3.30	<1.00
	09/20/02	7.37	92.07	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	<1.00	--
MTCA Method A Cleanup Levels				1,000 ^a			5	40	30	20	5	5

EXPLANATION:

All concentrations are in ug/L (ppb).

Wellhead elevations were taken from prior consultants reports.

DTW = Depth to water in feet below top of casing

GW Elev. = Groundwater elevation relative to top of casing elevation

TPH-G = Total Petroleum Hydrocarbons as Gasoline by Ecology Method NWTPH-Gx

TPH-D and TPH-O = Total Petroleum Hydrocarbons as Diesel and Oil, respectively, by Ecology Method NWTPH-Dx

B = Benzene; T = Toluene; E = Ethylbenzene; X = Total Xylenes

BTEX = Aromatic compounds by EPA Method 8021B

Total Pb = Total lead by EPA Method 6020

Diss Pb = Dissolved lead by EPA Method 6020

-- = Not Analyzed or Sampled

< = Less than the stated laboratory reporting limit

Shaded values equal or exceed MTCA Method A Cleanup Levels.

^a Total Petroleum Hydrocarbons

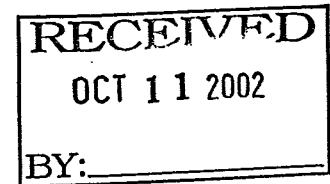
Data collected before 05/25/99 are taken from prior consultants.



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08 October 2002

John Meyer
ERI
815 Industry Dr
Tukwila, WA/USA 98188
RE: TOSCO #6380



Enclosed are the results of analyses for samples received by the laboratory on 09/20/02 18:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	B2I0438-01	Water	09/20/02 15:00	09/20/02 18:15
MW2	B2I0438-02	Water	09/20/02 15:15	09/20/02 18:15
MW3	B2I0438-03	Water	09/20/02 15:30	09/20/02 18:15
MW4	B2I0438-04	Water	09/20/02 15:55	09/20/02 18:15

North Creek Analytical - Bothell

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Amar Gill, Project Manager



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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B2I0438-01) Water Sampled: 09/20/02 15:00 Received: 09/20/02 18:15									
Gasoline Range Hydrocarbons	197	50.0	ug/l	1	2J02004	10/02/02	10/02/02	NWTPH-Gx/8021B	
Benzene	1.82	0.500	"	"	"	"	"	"	
Ethylbenzene	33.0	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	97.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	91.5 %	62-120			"	"	"	"	
MW1 (B2I0438-01RE1) Water Sampled: 09/20/02 15:00 Received: 09/20/02 18:15									
Toluene	ND	0.500	ug/l	1	2J03002	10/02/02	10/04/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	110 %	62-120			"	"	"	"	
MW2 (B2I0438-02) Water Sampled: 09/20/02 15:15 Received: 09/20/02 18:15									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2J02004	10/02/02	10/02/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.2 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.0 %	62-120			"	"	"	"	
MW2 (B2I0438-02RE1) Water Sampled: 09/20/02 15:15 Received: 09/20/02 18:15									
Toluene	ND	0.500	ug/l	1	2J03002	10/02/02	10/04/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	102 %	62-120			"	"	"	"	
MW3 (B2I0438-03) Water Sampled: 09/20/02 15:30 Received: 09/20/02 18:15									
Gasoline Range Hydrocarbons	129	50.0	ug/l	1	2J02004	10/02/02	10/02/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	107 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	95.8 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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Environmental Laboratory Network



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Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3 (B2I0438-03RE1) Water Sampled: 09/20/02 15:30 Received: 09/20/02 18:15									
Toluene	ND	0.500	ug/l	1	2J03002	10/02/02	10/04/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	108 %	62-120			"	"	"	"	
MW4 (B2I0438-04) Water Sampled: 09/20/02 15:55 Received: 09/20/02 18:15									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2J02004	10/02/02	10/02/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	85.6 %	62-120			"	"	"	"	
MW4 (B2I0438-04RE1) Water Sampled: 09/20/02 15:55 Received: 09/20/02 18:15									
Toluene	ND	0.500	ug/l	1	2J03002	10/02/02	10/04/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	104 %	62-120			"	"	"	"	

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Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B2I0438-01) Water Sampled: 09/20/02 15:00 Received: 09/20/02 18:15									
Diesel Range Hydrocarbons	1.32	0.294	mg/l	1	2I23005	09/23/02	09/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.588	"	"	"	"	"	"	
Surrogate: 2-FBP	75.3 %	52-126			"	"	"	"	
Surrogate: Octacosane	87.2 %	53-122			"	"	"	"	
MW2 (B2I0438-02) Water Sampled: 09/20/02 15:15 Received: 09/20/02 18:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2I23005	09/23/02	09/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	65.9 %	52-126			"	"	"	"	
Surrogate: Octacosane	82.7 %	53-122			"	"	"	"	
MW3 (B2I0438-03) Water Sampled: 09/20/02 15:30 Received: 09/20/02 18:15									
Diesel Range Hydrocarbons	0.372	0.250	mg/l	1	2I23005	09/23/02	09/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	74.5 %	52-126			"	"	"	"	
Surrogate: Octacosane	85.4 %	53-122			"	"	"	"	
MW4 (B2I0438-04) Water Sampled: 09/20/02 15:55 Received: 09/20/02 18:15									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2I23005	09/23/02	09/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	72.4 %	52-126			"	"	"	"	
Surrogate: Octacosane	84.8 %	53-122			"	"	"	"	

North Creek Analytical - Bothell

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Dissolved Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B2I0438-01) Water	Sampled: 09/20/02 15:00 Received: 09/20/02 18:15								Q-30
Lead	ND	0.00100	mg/l	1	2I23014	09/23/02	09/23/02	EPA 6020	
MW2 (B2I0438-02) Water	Sampled: 09/20/02 15:15 Received: 09/20/02 18:15								Q-30
Lead	ND	0.00100	mg/l	1	2I23014	09/23/02	09/23/02	EPA 6020	
MW3 (B2I0438-03) Water	Sampled: 09/20/02 15:30 Received: 09/20/02 18:15								Q-30
Lead	ND	0.00100	mg/l	1	2I23014	09/23/02	09/23/02	EPA 6020	
MW4 (B2I0438-04) Water	Sampled: 09/20/02 15:55 Received: 09/20/02 18:15								Q-30
Lead	ND	0.00100	mg/l	1	2I23014	09/23/02	09/23/02	EPA 6020	

North Creek Analytical - Bothell

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Amar Gill, Project Manager

North Creek Analytical, Inc.
Environmental Laboratory Network



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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2J02004: Prepared 10/02/02 Using EPA 5030B (P/T)

Blank (2J02004-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.1		"	48.0		89.8	57-125			
Surrogate: 4-BFB (PID)	42.2		"	48.0		87.9	62-120			

LCS (2J02004-BS1)

Gasoline Range Hydrocarbons	450	50.0	ug/l	502		89.6	80-120			
Benzene	6.51	0.500	"	6.20		105	80-120			
Ethylbenzene	8.30	0.500	"	8.94		92.8	80-120			
Xylenes (total)	39.8	1.00	"	44.0		90.5	80-120			
Surrogate: 4-BFB (FID)	45.5		"	48.0		94.8	57-125			
Surrogate: 4-BFB (PID)	41.3		"	48.0		86.0	62-120			

LCS Dup (2J02004-BSD1)

Gasoline Range Hydrocarbons	424	50.0	ug/l	502		84.5	80-120	5.95	25	
Benzene	6.24	0.500	"	6.20		101	80-120	4.24	40	
Ethylbenzene	8.01	0.500	"	8.94		89.6	80-120	3.56	40	
Xylenes (total)	38.4	1.00	"	44.0		87.3	80-120	3.58	40	
Surrogate: 4-BFB (FID)	45.0		"	48.0		93.8	57-125			
Surrogate: 4-BFB (PID)	41.7		"	48.0		86.9	62-120			

Matrix Spike (2J02004-MS1)

Source: B2I0405-04

Gasoline Range Hydrocarbons	447	50.0	ug/l	502	ND	89.0	70-130			
Benzene	6.22	0.500	"	6.20	ND	100	80-120			
Ethylbenzene	8.39	0.500	"	8.94	ND	93.8	80-120			
Xylenes (total)	40.2	1.00	"	44.0	ND	91.4	80-120			
Surrogate: 4-BFB (FID)	45.5		"	48.0		94.8	57-125			
Surrogate: 4-BFB (PID)	41.3		"	48.0		86.0	62-120			

North Creek Analytical - Bothell

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ERI
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Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2J02004: Prepared 10/02/02 Using EPA 5030B (P/T)										
Matrix Spike Dup (2J02004-MSD1) Source: B2I0405-04										
Gasoline Range Hydrocarbons	438	50.0	ug/l	502	ND	87.3	70-130	2.03	25	
Benzene	6.75	0.500	"	6.20	ND	109	80-120	8.17	40	
Ethylbenzene	8.46	0.500	"	8.94	ND	94.6	80-120	0.831	40	
Xylenes (total)	40.6	1.00	"	44.0	ND	92.3	80-120	0.990	40	
Surrogate: 4-BFB (FID)	44.9		"	48.0		93.5	57-125			
Surrogate: 4-BFB (PID)	41.4		"	48.0		86.2	62-120			
Batch 2J03002: Prepared 10/03/02 Using EPA 5030B (P/T)										
Blank (2J03002-BLK1)										
Toluene	ND	0.500	ug/l							
Surrogate: 4-BFB (PID)	49.1		"	48.0		102	62-120			
LCS (2J03002-BS1)										
Toluene	33.5	0.500	ug/l	37.3		89.8	80-120			
Surrogate: 4-BFB (PID)	47.7		"	48.0		99.4	62-120			
LCS Dup (2J03002-BSD1)										
Toluene	32.4	0.500	ug/l	37.3		86.9	80-120	3.34	40	
Surrogate: 4-BFB (PID)	47.4		"	48.0		98.8	62-120			
Matrix Spike (2J03002-MS1) Source: B2I0462-05RE1										
Toluene	31.6	0.500	ug/l	37.3	ND	83.6	68-114			
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	62-120			
Matrix Spike Dup (2J03002-MSD1) Source: B2I0462-05RE1										
Toluene	31.8	0.500	ug/l	37.3	ND	84.2	68-114	0.631	40	
Surrogate: 4-BFB (PID)	46.7		"	48.0		97.3	62-120			

North Creek Analytical - Bothell

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ERI
815 Industry Dr
Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2I23005: Prepared 09/23/02 Using EPA 3520C										
Blank (2I23005-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.230		"	0.320		71.9	52-126			
Surrogate: Octacosane	0.285		"	0.320		89.1	53-122			
LCS (2I23005-BS1)										
Diesel Range Hydrocarbons	1.69	0.250	mg/l	2.00		84.5	60-122			
Surrogate: 2-FBP	0.246		"	0.320		76.9	52-126			
LCS Dup (2I23005-BSD1)										
Diesel Range Hydrocarbons	1.68	0.250	mg/l	2.00		84.0	60-122	0.593	40	
Surrogate: 2-FBP	0.248		"	0.320		77.5	52-126			
Matrix Spike (2I23005-MS1) Source: B2I0401-04										
Diesel Range Hydrocarbons	1.89	0.250	mg/l	1.89	0.403	78.7	42-126			
Surrogate: 2-FBP	0.234		"	0.302		77.5	52-126			
Matrix Spike Dup (2I23005-MSD1) Source: B2I0401-04										
Diesel Range Hydrocarbons	1.84	0.250	mg/l	1.89	0.403	76.0	42-126	2.68	40	
Surrogate: 2-FBP	0.237		"	0.302		78.5	52-126			

North Creek Analytical - Bothell

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Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2I23014: Prepared 09/23/02 Using EPA 3005A									
Blank (2I23014-BLK1)									
Lead	ND	0.00100	mg/l						
LCS (2I23014-BS1)									
Lead	0.196	0.00100	mg/l	0.200		98.0	80-120		
LCS Dup (2I23014-BSD1)									
Lead	0.199	0.00100	mg/l	0.200		99.5	80-120	1.52	20
Matrix Spike (2I23014-MS1)									
					Source: B2I0438-01				
Lead	0.219	0.00100	mg/l	0.200	ND	110	75-125		
Matrix Spike Dup (2I23014-MSD1)									
					Source: B2I0438-01				
Lead	0.224	0.00100	mg/l	0.200	ND	112	75-125	2.26	20

North Creek Analytical - Bothell

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Tukwila WA/USA, 98188

Project: TOSCO #6380
Project Number: #31065
Project Manager: John Meyer

Reported:
10/08/02 11:18

Notes and Definitions

Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.

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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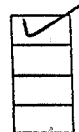
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(541) 383-9310 FAX 382-7588



TOSCO CHAIN OF CUSTODY REPORT

B210438

TOSCO INFORMATION

Facility Number:	6380
Site Address:	200 S 36 th ST
City, State, ZIP:	Bellingham, WA
Project/AWO Code	
Tosco Manager:	Tim Johnson
FACILITY TYPE: (check one)	☒ BP/☐ ☐ Terminal/Bulk Plant
☐ Brown Bear	☐ Former 76 Site ☐ Other _____

CONSULTANT INFORMATION

Firm:	ERT	Project#	1065
Address:	815 INDUSTRY DR TUCUWILA, WY 81880		
Phone:	(206) 575-6220	Fax:	56423
Project Manager:	JOHN MATHIASSEN	E-mail:	
Sample Collection by:	RAY MORSE		

Quality Assurance Data Level:

☒ A ☐ B

A: Standard Summary

B: Standard + Chromatograms

Laboratory Turnaround Days:

☒ 10 ☐ 5 ☐ 3 ☐ 2 ☐ 1

10 Day - Standard

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O)	# OF CON- TAINERS
1. MW 1	9/20/02 ^{2:00}	W	6
2. MW 2	1 3:15	1	6
3. MW 3	1 3:30	1	6
4. MW 4	1 9:55	1	6
5.			
6.			
7.			
8.			
9.			
10.			

	☐ OR	☐ WA	☐ AK	☐ NW Series	☐ ID
TPH-HCID					
TPH-Gas					
BTEX					
EPA 8021 Mod.					
TPH-Gas + BTEX					
TPH-Diesel					
TPH-Diesel Extended					
TPH-Diesel-Ext. w/SG Cleanup					
Halogen. Volatiles EPA 8021					
Pesticides/PCBs or PCBs Only					
GC/MS Volatiles EPA 8260					
GC/MS SemiVolts. EPA 8270					
PAH's: 8270 SIM or 8310					
Lead: Total or Dissolved TCLP or RCRA Metals (8)					

NCA SAMPLE NUMBER	
BR I0438	- 01
↓	- 02
	- 03
	- 04

	Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1.	Raymond M. Moore	ELI	9/20/02	[Signature]	NDA	9/20/02 18:55
2.						
3.						

Comments:Page 1 of 1

Rev. Tos3.3,2/99

Comments:

Distribution: White - Laboratory Yellow - Consultant Photocopy - Tosco

6-10

GROUNDWATER SAMPLING - FIELD LOG

Client Name: TOSCO 5028
Location: Bellinham, WA
Field Crew: ROY MOORE

ERI Job No. 1065 Date: 9/20/02
Field Cleaning Performed: _____
Analysis: _____ * - Case Volume

Date: 9/20/02 . Page 1 of 1

* - Case Volume = $(d_{\text{casing}} - d_{\text{water}})_{\text{in}} \times F$ where $F =$
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

[illegible]

Revised 4/20/92

ENVIRONMENTAL RESOLUTIONS, INC.