

December 7, 2004

Site No.: 255353 Site Address:	600 Westlake Avenue N., Seattle, Washington					
ConocoPhillips Site Manager:	Kipp Eckert					
Consultant/Contact Person: Delta Environmental Consultants, Inc. – Eric Larsen						
Primary Agency/Regulatory ID No.:	Washington DOE Northwest Region					

WORK PERFORMED THIS QUARTER [Third - 2004]

Monthly operation and maintenance (O&M) of the remediation system. The remediation system consists of an air sparge (AS) unit operating at 15 AS wells within a sparge trench, a deep air sparge (DAS) unit operating at four DAS wells, and a vapor extraction (VE) unit to extract combined vapors from five on-site VE wells and three off-site VE wells, and to capture sparge vapors from two sections of horizontal piping within the sparge trench (east and west VE trenches).

WORK PROPOSED FOR NEXT QUARTER [Fourth - 2004]

> Continue monthly O&M of the remediation system.

VE SUMMARY

Extraction Equipment:	Rotron EN6F5L VE blower	_
Offgas Treatment Equipment:	H2Oil 55-gallon moisture separator; Two 1,800-pound activated carbon units	-
Permits for Discharge:	PSCAA No. 8905 (air)	_(NPDES, POTW, etc.)
Start-up Date:	8/20/03	_
Reporting Period:	7/01/04 - 9/30/04	_
Days in Operation During Period:	92	_(days)
Total Days in Operation Since Start-Up:	380	_(days)
Percent Operating Time During Period:	100%	_(%)
System Alarms and Shutdowns:	None	_
VE Points Extracted During Period:	On-site VE wells, East VE trench,	
	and West VE trench	_
Average Influent Vacuum:	3.5	_(inches H2O)
Average Vapor Influent Flow Rate:	217 (estimated based on blower curve)	_(SCFM)
Maximum Vapor Influent Concentration for Period (PID):	14.7	_(ppmv)
Maximum Vapor Effluent Concentration for Period (PID):	1.8	_(ppmv)
Total Hydrocarbon Removal for Period:	83.3	_(lbs)
Cumulative Hydrocarbon Removal to Date:	749.9 (since 8/20/03 startup)	_(lbs)
Analytical Results of TPH Concentration in Offgas Emission Sample:	17.9 (July 22, 2004)	_(ppmv)



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AS SUMMARY

Sparging Equipment:	Sutortbilt air sparge blower	-
Start-up Date:	8/20/03	_
Reporting Period:	7/01/04 - 9/30/04	_
Days in Operation During Period:	92	_(days)
Total Days in Operation Since Start-Up:	380	_(days)
Percent Operating Time During Period:	100%	_(%)
Number of Wells On-line:	15 AS Wells (AS-1 through AS-15)	_
Average System Injection Pressure:	4.5	_(psig)
Average System Flow Rate:	9.1	_(SCFM)

DAS SUMMARY

Sparging Equipment:	Gast 6066 Compressor	
Start-up Date:	9/22/04	
Reporting Period:	7/01/04 - 9/30/04	
Days in Operation During Period:	8	(days)
Total Days in Operation Since Start-Up:	8	(days)
Percent Operating Time During Period:	8.7%	(%)
Number of Wells On-line:	4 DAS Wells (DAS-2 through DAS-5)	
Average System Injection Pressure:	10.5 (estimated)	(psig)
Average System Flow Rate:	9.5 (estimated)	(SCFM)



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Site No.: 255353 Site Address: ConocoPhillips Site Manager: Consultant/Contact Person:

600 Westlake Avenue N., Seattle, Washington **Kipp Eckert** Delta Environmental Consultants, Inc. - Eric Larsen Primary Agency/Regulatory ID No.: Washington DOE Northwest Region

DISCUSSION

System Operation and Maintenance

Delta conducted monthly site visits on July 22, August 16, and September 21, 2004 to perform operation and maintenance (O&M) of the remediation system during the third quarter of 2004. The air-sparge (AS) and vapor extraction (VE) units operated continuously over the reporting period. The deep air sparge (DAS) unit, which formerly consisted of four compressors, was shut down on March 30, 2004 due to mechanical failure of the compressors. Delta obtained a single compressor (Gast Model 6066) to replace the four DAS compressors. Installation and startup of the new deep sparge compressor occurred on September 22, 2004.

A summary of VE unit operation parameters is presented in Table 1. Operation summaries of the AS and DAS units are presented in Tables 2 and 3, respectively.

Hydrocarbon Removal and Vapor Emissions

During this reporting period, the VE unit effectively removed hydrocarbons from the site at an average rate of 0.9 pounds per day (83 pounds over the third quarter of 2004). An estimated total of 750 pounds of hydrocarbons have been removed from the subsurface by vapor extraction since startup of the current remediation system. Hydrocarbon concentrations in vapor emissions were below the limits of the PSCAA permit based on monthly field monitoring conducted during site visits. A summary of the estimated hydrocarbons removed by the VE unit is included in Table 1.



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LIMITATIONS

The services described in this report were performed in accordance with generally accepted professional consulting principles and practices. No other warranty, either express or implied, is made. These services were performed in accordance with terms established with our client. This report is solely for the use of our client and reliance on any part of this report by a third party is at such party's sole risk.

Delta appreciates the opportunity to provide environmental services for ConocoPhillips Company. Please call if you have any questions regarding the contents of this report.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

ena Seeds

Tena Seeds Project Engineer

Eric Larsen, L.H.G. Senior Geologist



ATTACHMENTS

- Table 1 VE Unit and Vapor Treatment Operation Summary
- Table 2 Air Sparge Unit Operational Summary
- Table 3 Deep Air Sparge Unit Operational Summary
- Figure 1 Remedial System Site Map

Laboratory Analytical Report and Chain of Custody Documentation

cc: LUST Coordinator, WA State Dept. of Ecology – Northwest Regional Office, Bellevue, WA 98008

TABLE 1 VE UNIT AND VAPOR TREATMENT OPERATION SUMMARY ConocoPhillips Site No. 255353

600 Westlake Avenue North Seattle, Washington

Date	Operational Time Since Last Event (days)	Power Reading (KWH)	Vapor Extraction Vacuum (inches H2O)	Average Flowrate ¹ (SCFM)	Influent Petroleum Hydrocarbon Concentration ²	Petroleum Hydrocarbon Concentration Between Carbons ³	Emission Petroleum Hydrocarbon Concentration ⁴	Estimated Petroleum Hydrocarbons Removed During Operating Period ⁵ (pounds)
Dale			(Inches H2O)		(ppm)	(ppm)	(ppm)	(pounds)
01/29/04	45 ⁶	NM	3.0	218	1.2	0.0	0.0	4.7
02/28/04	30	32,432	3.0	218	1.2	0.0	0.0	3.1
03/30/04	31	35,592	3.0	218	2.7	0.2	0.0	7.3
04/28/04	29	38,516	3.5	217	0.1	0.1	0.1	0.3
05/27/04	29	41,465	3.5	217	9.8 ⁹	0.1	0.1	24.7
06/22/04	26	44,045	3.5	217	4.2 ⁹	0.1	0.1	9.5
07/22/04	30	47,097	3.5	217	17.9 ⁹	11.1	1.8	46.8
08/16/04	23	49,449	3.5	217	6.4	0.2	0.1	12.8
09/21/04	26	52,907	3.7	217	10.5	0.3	0.2	23.8
Total To Date	376 ⁷							749.9 ⁸
Total for 3rd Qtr 2004	79							83.3

Notes:

KWH = kilowatt-hours

SCFM = standard cubic feet per minute

ppm = parts per million

NM = not measured

¹ Flowrate based on blower vacuum/flow rate curve.

² Influent petroleum hydrocarbon concentrations based on field measurements using a photoionization detector (PID), unless otherwise indicated.

³ Concentrations between carbon units based on field measurements using a PID.

⁴ Effluent concentrations based on field measurements using a PID.

⁵ Hydrocarbons removed during each operating period estimated using influent concentration, average flowrate, and operational time period.

⁶ Operation and maintenance of the remedial system was performed on 12/15/03 by the previous consultant. Delta assumed operation and maintenance of the system during January 2004.

⁷ Total operational time to date includes 107.1 days operated by previous consultant, from system startup on 8/20/03 through 12/15/03.

⁸ Total estimated petroleum hydrocarbons removed to date includes 616.9 pounds reportedly removed by previous consultant, from system startup on 8/20/03 through 12/15/03.

⁹ Petroleum hydrocarbon concentration from laboratory analysis.

TABLE 2AIR SPARGE UNIT OPERATIONAL SUMMARYConocoPhillips Site No. 255353

600 Westlake Avenue North Seattle, Washington

	Header	Air Flowrates per Air Sparge Point (SCFM)														
Date	Pressure (psig)	AS-1	AS-2	AS-3	AS-4	AS-5	AS-6	AS-7	AS-8	AS-9	AS-10	AS-11	AS-12	AS-13	AS-14	AS-15
01/29/04	5	11	12	12	10	11	12	13	8	8	3	<3	5	11	12	8
02/28/04	4	11	12	14	11	11	12	13	8	8	3	4	<3	10	11	9
03/30/04	5	11	12	14	11	12	12	14	8	8	<3	<3	<3	10	12	8
04/28/04	NM	10.5	11.5	14	10.5	11	11.5	13.5	8	7.5	<3	<3	<3	9	10.5	7
05/27/04	4.5	10	11	14	9	10	11	12	7	7	<3	<3	<3	5.5	9	7.5
06/22/04	4.5	11	11	14	10	11	11	12	12.5	11	<3	<3	<3	<3	10	8
07/22/04	4	12	13	16	11	12	12	13	8	5.5	<3	<3	<3	<3	10.5	8
08/16/04	4.5	10	11.5	16	9.5	11	12	10.5	8	5.5	<3	<3	<3	<3	9.5	10.5
09/21/04	4.5	10	10	11.5	8.5	9	9.5	11	6	4.5	<3	<3	4	<3	9.5	7
Average:	4.5	10.7	11.6	13.9	10.1	10.9	11.4	12.4	8.2	7.2	3.0	4.0	5.0	9.1	10.4	8.1

Notes:

psig = pounds per square inch, gauge

SCFM = standard cubic feet per minute

TABLE 3 DEEP AIR SPARGE UNIT OPERATIONAL SUMMARY

ConocoPhillips Site No. 255353 600 Westlake Avenue North Seattle, Washington

	Header	Air Flowrates per Air Sparge Point (SCFM)						
Date	Pressure (psig)	DAS-1	DAS-2	DAS-3	DAS-4	DAS-5		
01/29/04	NIO	NIO	NIO	NIO	NIO	NIO		
02/28/04	12	NIO	3	5	3.5	<3		
03/30/04	NIO	NIO	NIO	NIO	NIO	NIO		
04/28/04	NIO	NIO	NIO	NIO	NIO	NIO		
05/27/04	NIO	NIO	NIO	NIO	NIO	NIO		
06/22/04	NIO	NIO	NIO	NIO	NIO	NIO		
07/22/04	NIO	NIO	NIO	NIO	NIO	NIO		
08/16/04	NIO	NIO	NIO	NIO	NIO	NIO		
09/21/04	NIO	NIO	NIO	NIO	NIO	NIO		
09/22/04 ¹	10.5*	NIO	5*	22*	4*	7*		

Notes:

psig = pounds per square inch, gauge

SCFM = standard cubic feet per minute

NIO = not in operation

* Estimated value

¹ The DAS system was modified and restarted on 9/22/04. DAS pressure and flowrates are estimated based on values recorded during fourth quarter monitoring in October 2004.





LEGEND

- **BIOSPARGE TRENCH AIR SPARGING WELL**
- DEEP AIR SPARGING WELL
- GROUNDWATER MONITORING WELL
- MULTIPURPOSE WELL (MONITORING OR REMEDIATION)
- ON-SITE VAPOR EXTRACTION WELL AND APPROXIMATE LOCATION OF VE CONVEYANCE PIPING
- TRENCHING FOR DEEP SPARGE CONVEYANCE PIPING
- BIOSPARGE TRENCHING
- BIOSPARGE TRENCH HORIZONTAL VAPOR EXTRACTION PIPING



APPROX. SCALE

FIGURE 1

REMEDIAL SYSTEM SITE MAP

CONOCO PHILLIPS SITE NO. 255353 600 WESTLAKE AVENUE NORTH SEATTLE. WASHINGTON

	•=,	
ROJECT NO. WA25-535-2	DRAWN BY TS 6/25/04	
E NO. WA25-535-2	PREPARED BY TS 11/30/04	Delta
VISION NO.	REVIEWED BY	Environmental Consultants, Inc.

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Remedial System Monitoring ConocoPhillips Site No. 255353



Seattle	11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 425.420.9200 fax 425.420.9210
Spokane	East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
	509.924.9200 fax 509.924.9290
Portland	9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
	503.906.9200 fax 503.906.9210
Bend	20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
	541.383.9310 fax 541.382.7588
Anchorage	2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119
	907.563.9200 fax 907.563.9210

26 July 2004

Eric Larsen Delta Environmental -KHM 17720 NE 65th St Ste 201 Redmond, WA/USA 98052 RE: 25535 Westlake

Enclosed are the results of analyses for samples received by the laboratory on 07/22/04 17:21. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Gottin

Jeanne Garthwaite Project Manager



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Delta Environmental -KHM 17720 NE 65th St Ste 201 Redmond, WA/USA 98052 Project: 25535 Westlake Project Number: WA25-353-2 Project Manager: Eric Larsen

Reported: 07/26/04 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pre-Carbon	B4G0581-01	Air	07/22/04 13:25	07/22/04 17:21

North Creek Analytical - Bothell

Jeanne Go

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.

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network



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 opject:
 25535 Westlake

Delta Environmental -KHM	Project: 25535 Westlake	
17720 NE 65th St Ste 201	Project Number: WA25-353-2	Reported:
Redmond, WA/USA 98052	Project Manager: Eric Larsen	07/26/04 17:15

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pre-Carbon (B4G0581-01) Air San	npled: 07/22/04	<u>13:</u> 25 Rece	ived: 07/22/	04 17:21					
Gasoline Range Hydrocarbons	75.8	10.0	mg/m³ Air	1	4G23007	07/23/04	07/23/04	NWTPH Modified	
Benzene	0.755	0.100	u	н	н	"	"		
Toluene	0.235	0.100	n	n	н	"	"		
Ethylbenzene	0.245	0.100		"	u			n	
Xylenes (total)	1.20	0.200	"	n		"	u	"	
Surrogate: 4-BFB (FID)	91.4 %	50-150	1 2 1		"	"	"	. 11	
Surrogate: 4-BFB (PID)	104 %	75-133			"	"	"	"	
Gasoline Range Hydrocarbons (v/v)	17.9	2.36	ppmv	п	n	**	н	**	
Benzene (v/v)	0.233	0.0308			11	н	р	u	
Toluene (v/v)	0.0614	0.0261	"	"	u		n	н	
Ethylbenzene (v/v)	0.0557	0.0227			н	н	**	н	
Xylenes, total (v/v)	0.273	0.0454	U	11	n	"	н -	n	

North Creek Analytical - Bothell

Jeanne G

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Jeanne Garthwaite, Project Manager

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 Project:
 25535 Westlake

Delta Environmental -KHMProject:25535 Westlake17720 NE 65th St Ste 201Project Number:WA25-353-2Redmond, WA/USA 98052Project Manager:Eric Larsen07/26/04 17:15

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

North Creek Analytical - Dotten											
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4G23007:	Prepared 07/23/04	Using H	EPA 5030E	B (MeOH)							
Blank (4G23007-BI											
Gasoline Range Hydrod	· · · · ·	ND	10.0	mg/m ³ Air							
Benzene		ND	0.100	- 11							
Toluene		ND	0.100	u							
Ethylbenzene		ND	0.100	u							
Xylenes (total)		ND	0.200	u							
Surrogate: 4-BFB (FID))	9.36		"	. 9.60		97.5	50-150			
Surrogate: 4-BFB (PID))	10.5		"	9.60		109	75-133			
Gasoline Range Hydrod	carbons (v/v)	ND	2.36	ppmv							
Benzene (v/v)		ND	0.0308	11							
Toluene (v/v)		ND	0.0261	"							
Ethylbenzene (v/v)		ND	0.0227	11							
Xylenes, total (v/v)		ND	0.0454	"							
LCS (4G23007-BS1)										
Gasoline Range Hydrod	carbons	54.4	10.0	mg/m³ Air	100		54.4	50-150			
Surrogate: 4-BFB (FID) /	9.01		"	9.60		<i>93.9</i>	50-150			
LCS (4G23007-BS2)										
Benzene		2.00	0.100	mg/m³ Air	2.00		100	50-150			
Toluene		1.89	0.100	"	2.00		94.5	50-150			
Ethylbenzene		1.84	0:100	"	2.00		92.0	50-150			
Xylenes (total)		5.60	0.200	0	5.98		93.6	50-150			
Surrogate: 4-BFB (FID))	8.71		"	9.60		90.7	50-150		· · · ·	
Surrogate: 4-BFB (PID)	10.7		"	9.60		111	75-133			
LCS Dup (4G23007	-BSD1)										
Gasoline Range Hydroc	carbons	61.3	10.0	mg/m ³ Air	100		61.3	50-150	11.9	50	
Surrogate: 4-BFB (FID))	8.84		"	9.60		92.1	50-150		• •	

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.

Jeanne Go

North Creek Analytical, Inc. Environmental Laboratory Network Page 3 of 5

Jeanne Garthwaite, Project Manager



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 Project:
 25535 Westlake

 Number:
 WA25-353-2
 Reported:

Delta Environmental -KHM 17720 NE 65th St Ste 201 Redmond, WA/USA 98052

Project: 25535 Westlal Project Number: WA25-353-2 Project Manager: Eric Larsen

07/26/04 17:15

Gasoline Hydrocarbons (Benzene to Napthalene) and BTEX in Air by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

	Reporting			Spike Source	Source	%REC			RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4G23007: Prepared 07/23/04	Using El	PA 5030B	(MeOH)							
LCS Dup (4G23007-BSD2)										
Benzene	2.07	0.100	mg/m³ Air	2.00		104	50-150	3.44	50	
Toluene	1.91	0.100	н	2.00		95.5	50-150	1.05	50	
Ethylbenzene	1.89	0.100	"	2.00		94.5	50-150	2.68	50	
Xylenes (total)	5.71	0.200	"	5.98		95.5	50-150	1.95	50	
Surrogate: 4-BFB (FID)	8.61		"	9.60		89.7	50-150			
Surrogate: 4-BFB (PID)	10.7		n	9.60		111	75-133			
Duplicate (4G23007-DUP1)				Source: B4G0581-01						
Gasoline Range Hydrocarbons	115	50.0	mg/m³ Air		75.8			41.1	30	Q-0
Surrogate: 4-BFB (FID)	9.56	•	"	9.60		99.6	50-150			

North Creek Analytical - Bothell

Jeanne Gost

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Jeanne Garthwaite, Project Manager

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 Project:
 25535 Westlake

 Project Number:
 WA25-353-2
 Reported:

07/26/04 17:15

Project Manager: Eric Larsen

Notes and Definitions

- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- DET Analyte DETECTED

Delta Environmental -KHM

17720 NE 65th St Ste 201

Redmond, WA/USA 98052

- 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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