GEOTECH
CONSULTANTS, INC.

13256 N.E. 20th St. (Northup Way), Suite 16
Bellevue, WA 98005
(206) 747-5618
FAX 747-8561

February 5, 1997

JN 94356E

The Boeing Company
P.O. Box 3707, MS 7E-EJ
Seattle, Washington 98124-207

Attention: Stephen D. Ryan, Environmental Affairs

Subject: **Groundwater Sampling - Third Round**
Garden Plaza and Fifth and Park Property
Renton, Washington.

Dear Mr. Ryan:

In accordance with Boeing Contract Number ENV-4-94 REN-046, Geotech Consultants, Inc. has completed the third episode of groundwater sampling at the subject property. As the contract specifies, we will complete bi-annual sampling through 1999.

Three monitoring wells at the property—MW-4, MW-12 (replaced MW-13 in August 1995) and MW-14—were sampled on January 20, 1996, and the groundwater samples were submitted to the project laboratory for analysis by the WTPH-Diesel extended range test. For this round of analysis, the laboratory reported the concentrations of diesel-range hydrocarbons and the oil-range hydrocarbons separately. This has resulted in the creation of a slightly different results summary table than has been used in the past groundwater sampling reports. The table below summarizes the sampling completed to date. Please note that the wells were not sampled in the Spring of 1996, and as such we will complete an additional sampling episode at the end of this project. At the completion of this project, ten sampling episodes will have been completed.

RESULTS OF LABORATORY ANALYSIS

WELL NUMBER	DATE	DEPTH TO WATER	WTPH-D ext.	
			Diesel - Range	Oil - Range
MW-4	2/22/95	8.23 feet	2.2 ppm[1]	NR[2]
	8/25/95	10.27 feet	9.9 ppm	NR
	10/1/96	9.68 feet	1.4 ppm	NR
	1/20/97	7.52 feet	<0.5 ppm	<1.0 ppm
MW-13	2/22/95	not completed[3]	--	--
	8/25/96	well destroyed	--	--
MW12[4]	8/25/96	9.83 feet	0.68 ppm	NR
	10/1/96	9.36 feet	<0.5 ppm	NR
	1/20/97	6.59 feet	<0.5 ppm	<1.0 ppm
MW-14	2/22/95	7.39 feet	<0.5 ppm	NR
	8/25/95	9.15 feet	0.53 ppm	NR
	10/1/96	8.75 feet	<0.5 ppm	NR
	1/22/97	6.72 feet	<0.5 ppm	<1.0 ppm
METHOD A CLEANUP STANDARD[5]			1.0 ppm	

Notes:

1. ppm denotes concentrations in parts per million.
2. NR denotes not reported. Concentrations of oil-range hydrocarbons are reported in most recent analysis.
3. Unable to complete due to damage to well from construction activities.
4. MW-12 replaces MW-13 for the remainder of the project.
5. Cleanup standards published in the Model Toxics Control Act, MTCA, Chapter 173-340 WAC.

Review of the summary table reveals that the concentrations of TPH in the sample from MW-4 decreased to below method detection levels for the first time. In the other two wells, the concentrations of TPH remained below method detection levels.

We appreciate the opportunity to be of continuing service on this project. If you have any questions or if we may be of additional service, please do not hesitate to contact us.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

Timothy A. Johnson
Environmental Geologist

Marc R. McGinnis, P.E.
Associate

TAJ/MRM:ant

Attachments

cc: Mike Mastro

OnSite
Environmental Inc.
Analytical Testing and Mobile Laboratory Services

January 29, 1997

Tim Johnson
GeoTech Consultants
13256 NE 20th Street, Suite 16
Bellevue, WA 98005

Re: Analytical Data for Project 93299E
Laboratory Reference No. 9701-074

Dear Tim:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on January 23, 1997.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

Karl P. Hornyik
Project Chemist

Enclosures

Date of Report: January 29, 1997
Samples Submitted: January 23, 1997
Lab Traveler: 01-074
Project: 93299E

WTPH-D

Date Extracted: 1-24-97
Date Analyzed: 1-24-97

Matrix: Water
Units: mg/L (ppm)

Client ID	Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	Surrogate Recovery*	Diesel PQL	Oil PQL	Flags
MW 12	01-074-1	0.02	ND	ND	76%	0.5	1.0	
MW 4	01-074-2	0.02	ND	ND	82%	0.5	1.0	
MW 14	01-074-3	0.02	ND	ND	84%	0.5	1.0	

* o-Terphenyl

Date of Report: January 29, 1997
Samples Submitted: January 23, 1997
Lab Traveler: 01-074
Project: 93299E

WTPH-D
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-24-97
Date Analyzed: 1-24-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	Surrogate Recovery*	Diesel PQL	Oil PQL
MB0124W1	0.02	ND	ND	74%	0.5	1.0

* o-Terphenyl

Date of Report: January 29, 1997
Samples Submitted: January 23, 1997
Lab Traveler: 01-074
Project: 93299E

WTPH-D
DUPLICATE QUALITY CONTROL

Date Extracted: 1-22-97
Date Analyzed: 1-22-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Diesel MRL
01-068-1	0.02	ND	88%	0.50
01-068-1 DUP	0.02	ND	89%	0.50
RPD		NA		

* o-Terphenyl

Date of Report: January 29, 1997
Samples Submitted: January 23, 1997
Lab Traveler: 01-074
Project: 93299E

WTPH-D
SB/SBD QUALITY CONTROL

Date Extracted: 1-22-97
Date Analyzed: 1-23-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	Spike Level ppm	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery*	Diesel PQL
SB0122W1	0.02	2.0	2.08	104%	97%	0.5
SB0122W1 DUP	0.02	2.0	2.73	137%	107%	0.5
RPD			27%			

* o-Terphenyl

OnSite
Environmental Inc.
Analytical Testing and Mobile Laboratory Services

January 21, 1997

RECEIVED
JAN 22 1997
GEOTECH
CONSULTANTS

Tim Johnson
GeoTech Consultants
13256 NE 20th Street, Suite 16
Bellevue, WA 98005

Re: Analytical Data for Project 961491C-2X
Laboratory Reference No. 9701-037

Dear Tim:

Enclosed are the results of the analyses, and associated quality control data, of samples submitted on January 15, 1997.

The standard policy of OnSite Environmental Inc., is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

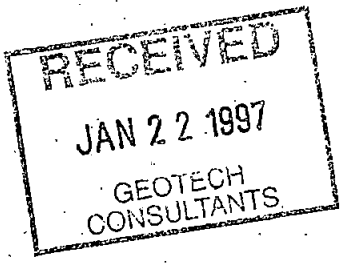
Sincerely,

Karl P. Hornyik
Project Chemist

Enclosures

Date of Report: January 21, 1997
Samples Submitted: January 15, 1997
Lab Traveler: 01-037
Project: 961491C-2X

WTPH-D



Date Extracted: 1-17-97
Date Analyzed: 1-17-97

Matrix: Water
Units: mg/L (ppm)

Client ID	Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	Surrogate Recovery*	Diesel MRL	Oil MRL	Flags
MW-1	01-037-1	0.02	ND	ND	81%	0.5	1.0	
MW-2	01-037-2	0.02	ND	ND	87%	0.5	1.0	
MW-3	01-037-3	0.02	ND	ND	90%	0.5	1.0	

* o-Terphenyl

Date of Report: January 21, 1997
Samples Submitted: January 15, 1997
Lab Traveler: 01-037
Project: 961491C-2X

WTPH-D
METHOD BLANK QUALITY CONTROL

RECEIVED
JAN 22 1997
GEOTECH CONSULTANTS

Date Extracted: 1-17-97
Date Analyzed: 1-17-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	TPH-Diesel C12-C24	TPH-Oil C24-C34	Surrogate Recovery*	Diesel MRL	Oil MRL
MB0117W2	0.02	ND	ND	89%	0.5	1.0

* o-Terphenyl

Date of Report: January 21, 1997
Samples Submitted: January 15, 1997
Lab Traveler: 01-037
Project: 961491C-2X

WTPH-D
DUPLICATE QUALITY CONTROL

RECEIVED
JAN 22 1997
GEOTECH CONSULTANTS

Date Extracted: 1-17-97
Date Analyzed: 1-17-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	Total Petroleum Hydrocarbons	Surrogate Recovery*	Diesel MRL
01-037-1	0.02	ND	81%	0.5
01-037-1 DUP	0.02	ND	70%	0.5
RPD		NA		

* o-Terphenyl

Date of Report: January 21, 1997
Samples Submitted: January 15, 1997
Lab Traveler: 01-037
Project: 961491C-2X

WTPH-D
SB/SBD QUALITY CONTROL

RECEIVED
JAN 22 1997
GEOTECH CONSULTANTS

Date Extracted: 1-17-97
Date Analyzed: 1-17-97

Matrix: Water
Units: mg/L (ppm)

Lab ID	Dilution Factor	Spike Level	Total Petroleum Hydrocarbons	Percent Recovery	Surrogate Recovery*	Diesel MRL
SB0117W1	0.02	2.0	1.68	84%	96%	0.5
SB0117W1 DUP	0.02	2.0	2.15	108%	120%	0.5
RPD			25%			

* o-Terphenyl