June 25, 1991

Files To:

Tom Todd M From:

subject:

Sampling at Lincoln Square Apartments, Port Angeles, Clallam County

Today, April 25, 1991, I sampled the manhole underneath (in the sub-basement) the Lincoln Apartments in Port Angeles. I collected 4 VOA vials. I had requested that they be analysed for WTPH-G and BTEX by 8020. The manhole was covered with three layers of black plactic upon my arrival. I uncovered the manhole and then removed the wooden lid. I observed a slight sheen on the water surface. Also in the water was a layer of sediment at the bottom of the manhole. The amount of non-cloudy water was only a couple of inches thick. The sediment looked as if it might be an anaerobic bacterial colony. It was rust colored and of a loose consistency. There was an odor of pesticide throughout the garage floor and in the lower level (sub-basement).

The samples remained in my custody until they were secured in the SWRO Cooler. I placed the sample bottles on ice while they were in transit.

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State of Washington Department of Ecology Manchester Environmental Laboratory 7411 Beach Dr. East Port Orchard WA. 98366

Data Review June 15, 1991

Project: Lincoln Square Apts

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Sample: 177921

Laboratory: Pacific Northwest Environmental Laboratory Inc. 3114

By: Stuart Magoon

Case Summary

These analyses were reviewed for qualitative and quantitative accuracy, validity, and usefulness. Specific methods used and problems incurred during the analysis are detailed in the Case Narrative and will not be addressed here. Specific problems with the QC will be noted and referenced to the Case Narrative.

There is no need to assimilate the "dilution factor" or "sample wt/vol" into the final values reported; these calculations have already been figured into the reported values.

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- U The material was not detected at or above the associated level.
- J The associated numerical value is an estimated quantity.
- D The associated numerical value was from an analysis that was performed at a secondary dilution.
- E The compound exceeded the calibration range and the value is considered an estimate.

BETX

Sample	Date Collect	Date Extd	Date Anlz	#Days collect to ext	#Days Collect to anal
177921	4/25	NA	5/6	NA	11 of 14
177921D	4/25	NA	5/8	NA	13 of 14

This sample was analyzed within the SW-846 recommended holding time. The "D" suffix in an abbreviation for dilution.

Surrogates:

Surrogate recoveries for this sample, and the associated method blanks are reasonable, acceptable, and within QC limits.

Sample Data:

This data is acceptable for use. This sample was re-analyzed at a secondary dilution because the Benzene exceeded the calibration range. Use the value of 5400 ppb for Benzene, reported from the secondary dilution analysis, for the other three analytes (TEX) use the values reported from the first analysis on 5/6/91.

(Total Volatile Petroleum Hydrocarbons (TVPH) as gasoline

Sample	Date Collect	Date Extd	Date Anlz	#Days collect to ext	#Days Collect to anal
177921	4/25	NA	5/6	NA	11 of NE

This sample was analyzed within a reasonable period of time. Fourteen days is the SW-846 recommended holding time limit for volatile compounds.

NE = None Established

Surrogates:

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Surrogate recoveries for this sample, and the associated method blank are reasonable, acceptable, and within QC limits.

Sample Data:

This data is acceptable for use.

NATIONAL EXPRESS LABORATORIES, INC.



Pacific Northwest Environmental Laboratory, Inc. 3820 159th Avenue, N.E. Redmond, WA 98052 (206) 885-0083 FAX (206) 867-2214

June 6, 1991

Stuart Magoon Department of Ecology 7411 Beach Drive East Port Orchard WA 98366

NARRATIVE FOR PNELI 3114

Enclosed are data summary sheets and supporting documentation for the samples received on May 1, 1991 of the LSA project. The samples were received as follows:

_	FIELD ID	DOELATB CLIENT ID	PNELI ID	DATE COLLECTED
	MANHAL	177921	3114-01	05-01-91

Listed below are anomalies and narratives associated with the receipt and/or analysis of these samples.

Sample Receiving

n

There were no anomalies associated with the receipt of these samples.

by GC	Benzene, Toluene, Ethylbenzene, and Xylene by Method 8020, <u>Test</u> <u>Methods for Evaluating Solid Waste</u> , United States Environmental Protection Agency, SW-846, 3rd Ed., 1986.

Total Petroleum	Purge and Trap Method 5030 followed by Modified 8015 of Test Methods
Hydrocarbons as Gasoline by	for Evaluating Solid Waste, United States Environmental Protection
GC	Agency, SW-846, 3rd Ed., 1986.

There were no anomalies associated with the preparation and/or analysis of these samples.

Sample 3114-01 required dilution.

Stuart Magoon Department of Ecology June 6, 1991 Page 2

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Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designee, as verified by the following signature.

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Sincerely,

Rand G. Jenkina

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Enclosures

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NatEx Laboratories, Inc. Pacific Northwest Environmental Laboratory, Inc.

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PURGEABLE AROMATICS (BTEX) BY GC

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		from	
Client Sample ID	177921	fm 177921 D	
PNELI Sample ID	3114-01	3114-010	
Sample Matrix	Water	water	
Date Sample Received	05-01-91	5/1/01	
Date Sample Analyzed	05-06-91	5-8-91	
Units of Measure	µg/ℓ	mg/L	
dilution	1/100	Vions	
Compounds	£.		
Benzene C Toluene Z Ethylbenzene Total Xylene	600 ~5,400 -E 900 -2,600- Fr-V 480 4,600 V	5400 2600 1000 4 41600	
Surrogate		QC limits &	
% Fluorobenzene %-4-Brömefluorobenzene	106.97 F	97 72-111	

\BTEX

NatEx Laboratories, Inc.

Pacific Northwest Environmental Laboratory, Inc.

PURGEABLE AROMATICS (BTEX) BY GC

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Method Blank	Method Blank
3114-MB	3114-MB
Water	Water
05-01-91/4	05-01-91 MA
05-06-91	05-08-91
µg∕ℓ	µg/l
	3114-MB Water 05-01-91/4 05-06-91

Benzene	0.5	U	0.5	u
Toluene	0.5	Ū	0.5	Ū
Ethylbenzene	0.5	U	0.5	Ū
Total Xylene	1.0	U	1.0	Ū

Surrogate			Qc. limits	dr.	
% Fluorobenzene %4-Bromofluorobenzene	98	97	72-111	£.	

MA = NOT PAPPERMARKE S-

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NatEx Laboratories, Inc. Pacific Northwest Environmental Laboratory, Inc.

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TPH - GASOLINE RANGE PETROLEUM PRODUCTS BY GC

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Client Sample ID	177921
PNELI Sample ID	3114-01
Sample Matrix	Water
Date Sample Received	05-01-91
Date Sample Analyzed	05-06-91
Units of Measure	µg/ℓ

Compounds

TPH Quantitated as:

Gasoline

Surrogate		QC Limits	
% Fluorobenzene	101	78-113 2	
% 2-Chlorotoluene	90	70 - 126	

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* Quantitated against the full range of gasoline.

NatEx Laboratories, Inc.

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Pacific Northwest Environmental Laboratory, Inc.

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TPH - GASOLINE RANGE PETROLEUM PRODUCTS BY GC

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Client Sample ID	Method Blank
PNELI Sample ID	3114-MB
Sample Matrix	Water
Date Sample Received	05-01-91
Date Sample Analyzed	05-08-91
Units of Measure	µg/≀

Compounds		
TPH Quantitated as:		
Gasoline	20 U	
Surrogate		Qc Limits &
% Fluorobenzene	105	78-113
% 2-Chlorotoluene	103	70 - 126

* Quantitated against the full range of gasoline.

Peninsula

Neighbors

l Amy Baker, an eighth grader at Queen of Angels School, served as a legislative page the in Washington state House of Representatives pril Athrough

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was Baker sponsored by Rep. Jim Hargrove of Hoquian She is the daughter of Margaret and Larry Baker of Port

Angeles She plays the flute, is a member of the school basketball team and is participating in the school's version of Tom Sawyer.

Members of the SunLand-Sequim Camera Club can "take their best shot" when they attend the meeting at 7 p.m. Thursday in room 6 of the Sequim Bible Church. "By best shot, we mean the two st slides and/or prints you have best slides and/or prints taken," said cud president Scott best shot in the Wilson. He adda interpret this as past year. Howey time. limit.

Photographic Society of America Legion at the post home followed by

will be shown. Members will vote on the subjects to be featured at next year's meetings This is the last meeting before summer hiatus. Meetings will resume in September.

The Sequim American Legion Post will host the Royal Canadian Legion Malahat Branch during the Sequim Irrigation Festival. Department of Washington com-mander Gene Foley will participate as well as the Legion band from Olympia Post fre Sauer Kraut Band from Snearonish is to present rologram/after the parade. ing the parade, at 5 p.m. A program "Composition, the the post will hold a fellowship gave Key to Perception' by the passing ceremony with the Canadian



The hole thing

A large hole at the Jackpot store on Front Street in new tanks are installed, the old tanks will a Port Angeles was created to install new removed Canal Construction operates the shovel underground fuel storage tanks Tuesday. Once the

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			Turbidity				BOD/	5 day				Base/Neutral/Acids
			pН				COD					Acid/Neutrals Only
			Conductivity				TOC					Volatile Organics
			Total Alkalinity	1								Pesticides/PCBs
			Hardness				Nutri	ents (3)				PCBs Only
			Chloride				Am	nonia				Organophosphate Pest.
			Sulfate				Nitr	ate-Nitrite				Cl PhenoxyAcid Herb.
			Fluoride				Tot	al Phosphorous				Purgeable Halocarbons
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•							Fecal	Coli Bacteria			X	BTEX by 8022
											×	TPH by
												WTPH-G
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			TSS				PP M	etals				Phenolics (AAP)
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			% Solids									NPDES (% effluent)
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Comments: Gasoline dissolved

NOTE: Chain of Custody is recommended on all sampling events.

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Sample Bottles Required:

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Sample Disposition After Analysis: ECY 040-2-62 (Rev. 7/88)

DEPARTMENT OF ECOLOGY MANCHESTER ENVIRONMENTAL LABORATORY

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SAMPLE REQUIREMENTS

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ECY 040-2-62 (Rev 12 84) OX A 210

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MESSAGE CONFIRMATION

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85 Well Drill Water
98 Gravel Pack Material nnon Nr D Commercial Product Formulation ★ Source Codes and Descriptions ★ Description Code Unspecified Source Unknown Liquid Media (Drum/Fank) Unknown Liquid Media (Spill Area) Unknown Liquid Media (Waste Pond) Sediment (Ceneral) Bottom Sediment or Deposit Sludge (General) Sludge (Drum/Tank) Sludge (Drum/Tank) Soci (Ceneral) Effluent Wastewater (General) Municipal Effluent Municipal Effluent Sewage Runoffl.eachate Industrial Effluent Industrial Surface Runoffl/Pond Industrial Waste Pond Landfill RunofflPond/Leachate Water (General) Ambient Stream/River LatkerRestroit Estuary/Ocean Spring/Seepage Rain Surface Runoff/Penturn Flow Infigation Canal/Return Flow Soil (General) Soil (Spiil/Contaminated Area) Bore Hole Material Well (General) Well (Industrial/Agricultural) Well (Intiking Water Supply) Well (TestObservation) Drinking Water (At Tap) Drinking Water (At Tap) Water-Total Water-Dissolved Sediment/Soll Semi-Solid/Sludge Sediment for EP T Tissue Oli/Solvent Other Description Vatrix Codes 6298 5554555 52444588 22 Code **4**4 444 49 828828 8288888888 1 8 8 81 19 1 1 1 the states of th . . 1.09975 ------Maria di Anglia di Anglia Maria di Anglia di Anglia Maria di Anglia di Anglia

April 25, 1991

To: Files

From: Tom Todd

Subject: Sampling at Lincoln Square Apartments, Port Angeles, Clallam County

Today, April 25, 1991, I sampled the manhole underneath (in the sub-basement) the Lincoln Apartments in Port Angeles. I collected 4 VOA vials. I had requested that they be analysed for WTPH-G and BTEX by 8020. The manhole was covered with three layers of black plactic upon my arrival. I uncovered the manhole and then removed the wooden lid. I observed a slight sheen on the water surface. Also in the water was a layer of sediment at the bottom of the manhole. The amount of non-cloudy water was only a couple of inches thick. The sediment looked as if it might be an anaerobic bacterial colony. It was rust colored and of a loose consistency. There was an odor of pesticide throughout the garage floor and in the lower level (sub-basement).

The samples remained in my custody until they were secured in the SWRO Cooler. I placed the sample bottles on ice while they were in transit.