

RECEIVED

JAN 20 1999

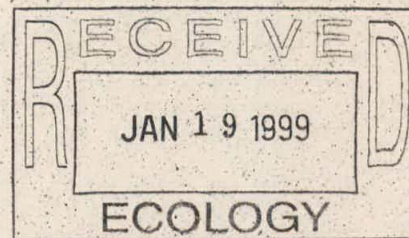
DEPT OF ECOLOGY

**REPORT  
UST REMOVAL**

**BLACK MOUNTAIN RANCH  
6417 MOUNT BAKER HIGHWAY  
DEMING, WASHINGTON**

For:

Ultra Tank Services  
P.O. Box 664  
Bellingham, WA 98227



By:

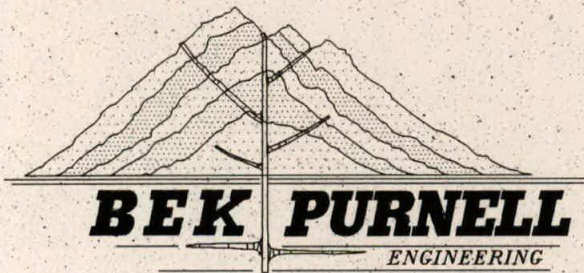
**BEK PURNELL ENGINEERING, INC.**  
*Consulting Engineers & Geologists*  
2138 Humboldt Street  
Bellingham, WA 98225  
(360) 676-9589

January 8, 1999

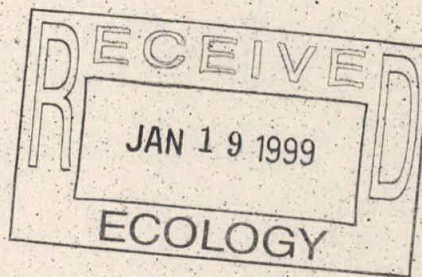
DEPARTMENT OF ECOLOGY NWRO/TCP TANKS UNIT	
INTERIM CLEANUP REPORT	<input checked="" type="checkbox"/>
SITE CHARACTERIZATION	<input type="checkbox"/>
FINAL CLEANUP REPORT	<input type="checkbox"/>
OTHER _____	<input type="checkbox"/>
AFFECTED MEDIA: SOIL	<input checked="" type="checkbox"/>
OTHER _____ GW *	<input type="checkbox"/>
INSPECTOR (INIT.) <i>JSK</i>	DATE <i>2-17-99</i>

\* possible low conc. - encountered but not tested *JSK*





UST Site # 481461



January 8, 1999

Ultra Tank Services  
P.O. Box 664  
Bellingham, WA 98227

Attn: George Willett

Re: **Report - Underground Storage Tank Removal**  
Black Mountain Ranch  
6417 Mount Baker Highway  
Deming, Washington

Dear Mr. Willett:

BEK Purnell Engineering is pleased to present the results of a site assessment completed during the removal of an underground storage tank (UST) at the above referenced property in Deming, Washington. This report was completed in general accordance with our proposal dated December 8, 1998 and with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks (1992)*.

### SCOPE OF SERVICES

The scope of services for this project included:

1. Observe the removal of the USTs and conduct a site assessment in general accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks (1992)*.
2. Collect three soil samples for petroleum hydrocarbon analysis using the WTPH-G with BTEX methodology. Soil samples were collected from the bottom of the UST pit below the location of the tank, and from stockpiled soil excavated from the pit.
3. Arranged for quantitative laboratory analyses of soil samples at an Ecology accredited laboratory.
4. Arranged for the transportation of samples to the laboratory using proper chain-of-custody procedures.
5. Completed this report and the UST Closure Form.

### INTRODUCTION

The Black Mountain Ranch is a commercial campground. One underground storage tank (UST) was removed from a single UST pit on December 11, 1998 by Ultra Tank Services, Inc of Bellingham, Washington. The tank had been used to store gasoline for use on the premises for maintenance vehicles (i.e. trucks and backhoes). The tank is not listed on Ecology's UST List. It is the understanding of Mr. Gary Mitchell, the manager of the Black Mountain Ranch, that the UST had been in the ground since prior to 1971, when Black Mountain Ranch purchased the property. Prior to that time, the property had been used as a dairy farm.

GEOLOGY

ENGINEERING

ENVIRONMENTAL



January 8, 1999

**Report – UST Removal (Black Mountain Ranch, Deming)**

## **SITE VICINITY CHARACTERISTICS**

The subject property is located at 6417 Mount Baker Highway, approximately eight miles northeast of the Town of Deming (Figure 1). The former tank location was approximately 3,000 feet north of the Nooksack River, and 750 feet east of Kendall Creek. The property lies at an elevation of approximately 440 feet MSL. The vicinity of the subject property is characterized by very low density residential housing, agricultural land, and undeveloped land.

The geologic conditions in the vicinity of the subject property are described in the *Geologic Map and Interpreted geologic History of the Kendall and Deming 7.5 Minute Quadrangles, Western Whatcom County, Washington* (Dragovich, et al., 1997, Washington Division of Geology and Earth Resources, OFR 97-2). According to that map, the subject property lies in the Sumas Outwash, which generally consists of sandy gravel and sand with rare silt and clay.

## **UST SYSTEM DATA**

The tank was located immediately south of a building used for a clubhouse (Figure 2). The distribution lines and pump were located directly above the tank. The UST pit was backfilled with native fine grained sand.

## **FIELD OBSERVATIONS**

BEK Purnell Engineering personnel completed the site assessment on December 11, 1998. Upon removal the tank was observed to be 500 gallons in size. The tank was in good condition, and no visual evidence for corrosion, pitting, or holes were observed. It is our understanding that the tank was disposed by Ultra Tank Services. Soil in the UST pit consisted of fine grained sand with some silt.

A hydrocarbon odor was noted in the UST pit following removal of the tank. Additional investigation revealed that gasoline contaminated soil emanated from beneath the former location of the fuel pump. The source of contamination is therefore likely to have been a leaking pipe fitting in the distribution line near the fuel pump, possibly combined with overfilling of vehicles. The excavation was extended through contaminated soil to a depth of approximately eight feet, where shallow ground water was encountered. Gasoline contaminated soil was in contact with shallow ground water.

Approximately ten yards of contaminated soil was excavated from the pit, and subsequently stockpiled on plastic sheeting and covered with plastic sheeting on the subject property.

Discreet soil samples (Figure 2) were collected at a depth of five feet on the south sidewall of the UST pit (below the former fuel pump), and at a depth of eight feet at the bottom of the pit (at the top of the water table). A composite soil sample was collected from the stockpiled soil. A fraction of each sample was placed in a ziplock bag. The headspace was subsequently analyzed with MicroTip photo-ionization detector calibrated with 106 ppm isobutylene, and a sheen test was also completed for each sample. These field screening results and the laboratory analytical results are tabulated in Table 1.

The UST pit was backfilled with clean fill soils pending additional cleanup efforts.



January 8, 1999

**Report – UST Removal (Black Mountain Ranch, Deming)**

**ANALYTICAL RESULTS**

All samples were analyzed for gasoline and BTEX (Benzene, Toluene, Ethyl Benzene, and Xylenes) by CCI Analytical Laboratories, Inc. (Everett, Washington), using the WTPH-G and EPA 8021 methods, respectively. The complete laboratory report is included in Appendix II and the results are summarized in Table 1.

**TABLE 1**  
Analytical Results  
Samples Collected 12-11-98

Sample Number	Sample Location	Sample Depth (feet)	Field Screening Results		Pb (mg/kg)	Gasoline (mg/kg)	Volatile Aromatic Hydrocarbons (mg/kg)			
			Headspace Vapors (ppm)	Sheen			B	T	E	X
121198-1	Pit Floor	8	1,800	HS	12	9600	16	400	130	1100
121198-2	South Wall	5	2,000	HS	22	12000	ND<10	410	170	1500
121198-3	Stockpiled Soil	NA	1,200	HS	26	5200	ND<2	65	52	510
MTCA Method A Cleanup Standard					250	200	0.5	40	20	20

ND - not detected at indicated concentration; mg/kg = parts-per-million.

Sheen: NS – No Sheen  
LS – Light Sheen  
MS – Moderate Sheen  
HS – Heavy Sheen

Cleanup standards in the State of Washington are regulated under the *Model Toxics Control Act Cleanup Regulation* (MTCA, Chapter 173-340 WAC). Method A recommended cleanup standards as defined in the MTCA are generally applied to hydrocarbon products. Gasoline range hydrocarbons, toluene, ethyl benzene, and total xylenes were detected above the MTCA Method A standards in all three samples. Benzene was detected above the cleanup standard in sample 121198-1, but was not detected in the other two samples. However, the laboratory detection limit for benzene is elevated due to the high concentration of other hydrocarbons in samples 121198-2 and 121198-3, and benzene may actually be present above the cleanup standard in these two samples. Lead was detected at concentrations well below the cleanup standard, and are likely representative of background conditions.

**CONCLUSIONS**

A 500 gallon gasoline underground storage tank was removed on December 11, 1998. Soil in the vicinity of the removed tank contains gasoline and BTEX at concentrations above the MTCA Method A cleanup standards. The contaminated soil extends to the top of the shallow water table, indicating that ground water may have also been impacted by the release. The source of the contamination appears to have been a leaking pipe fitting, possibly combined with vehicle overfills. The release was reported to Ecology on December 11, 1998 by Ultra Tank Services.

The MTCA requires that the owner submit to Ecology a Site Characterization report within 90 days. The purpose of this report is to describe the nature and extent of the contamination. It is our understanding that the property owner intends to remove and remediate gasoline contaminated soil above the water table, and to institute a ground water investigation under Ecology's Voluntary Cleanup Program.



January 8, 1999

**Report – UST Removal (Black Mountain Ranch, Deming)**

A copy of this report, including all appendices, must be mailed to the following address to complete the UST closure process:

Toxic Cleanup Program  
Department of Ecology  
P.O. Box 47655  
Olympia, WA 98504-7655

The signature of the tank closure contractor and the tank owner is required on the Closure and Site Assessment Notice (Appendix III). We have tagged that part of the Notice. Please be sure that signatures are attained prior to forwarding this report to Ecology.

**INDEMNIFICATION AND LIMITATIONS**

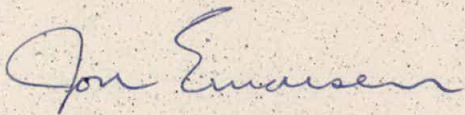
The analytical results, conclusions and recommendations within this report are based on the soil samples collected from the indicated locations at the time this report was prepared, and should not be construed as a warranty of the subsurface conditions throughout the site. No environmental investigation can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. An environmental investigation is intended to reduce, but not eliminate, uncertainty regarding the existence of recognized environmental conditions.

Within the limitations of scope, schedule and budget for our work, we warrant that our work has been done in accordance with our proposal and generally accepted environmental assessment practices followed in this area at the time the report was prepared. No other warranty, express or implied, is made.

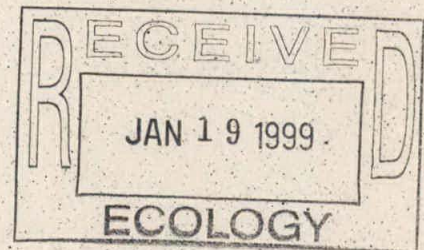
We appreciate the opportunity to be of service to you. Should you have any questions concerning this report or require further information, please contact our office at (360)-676-9589 or (800)-859-5597.

Sincerely,

**BEK PURNELL ENGINEERING, INC.**



Jon M. Einarsen, Ph.D., Principal  
Geologist  
Washington UST Assessment License #32-US-000684





Attach: **APPENDIX I**

FIGURE 1 – SITE VICINITY MAP

FIGURE 2 – GENERALIZED SITE PLAN & SAMPLE LOCATIONS

FIGURE 3 – PHOTOGRAPHS

**APPENDIX II**

LABORATORY REPORT

**APPENDIX III**

CLOSURE AND SITE ASSESSMENT NOTICE



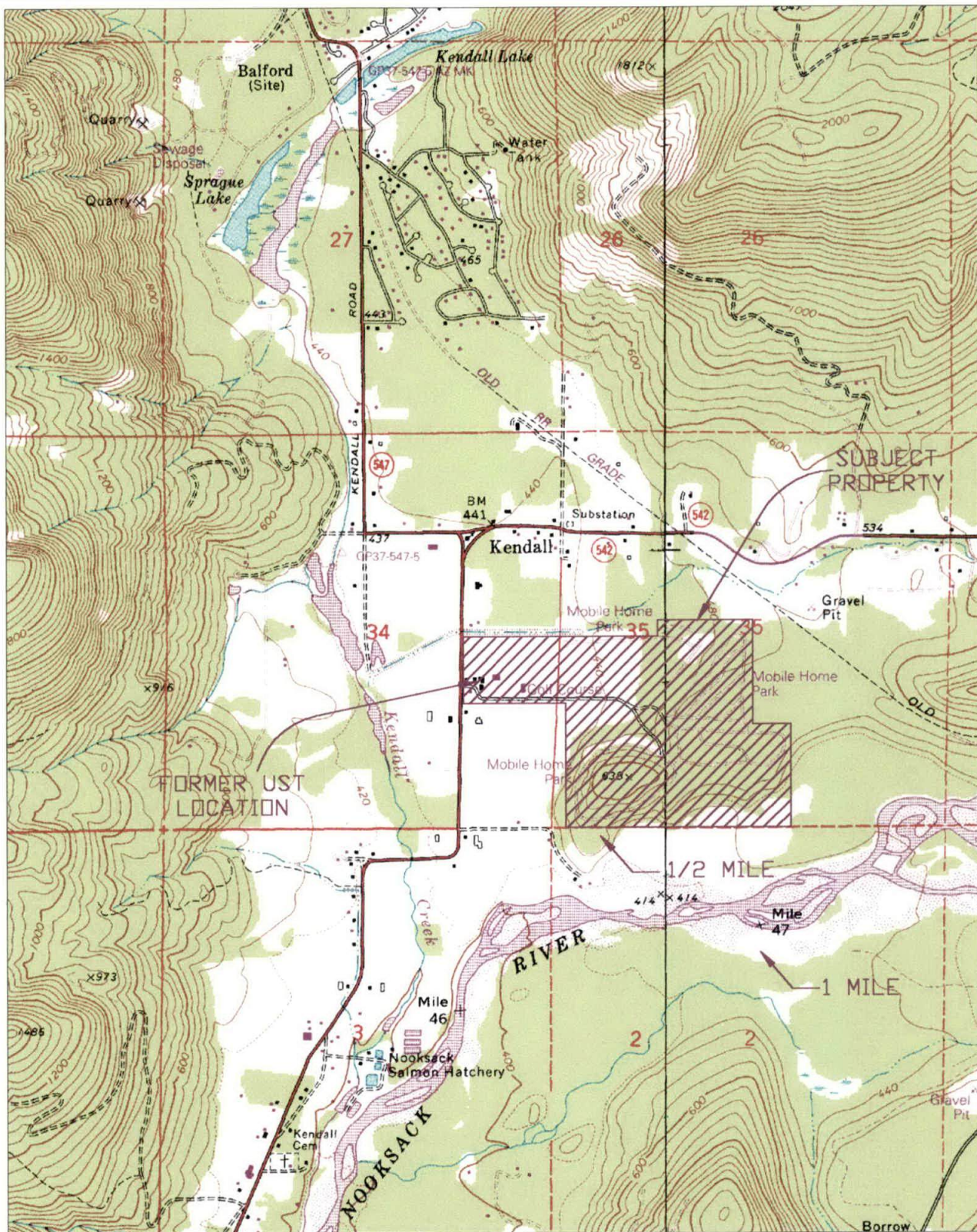
## **APPENDIX I**

**FIGURE 1 – SITE VICINITY MAP**

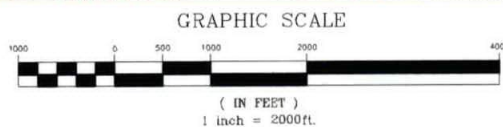
**FIGURE 2 – GENERALIZED SITE PLAN & SAMPLE LOCATIONS**

**FIGURE 3 – PHOTOGRAPHS**





REFERENCE: KENDALL QUADRANGLE (U.S. GEOLOGICAL SURVEY, 1972, REVISED 1993)  
 MAPLE FALLS QUADRANGLE (U.S. GEOLOGICAL SURVEY, 1972, REVISED 1994)



JOB NO.: 98225  
 DESIGNED BY: JME  
 DRAWN BY: JME  
 CHECKED BY: TEB



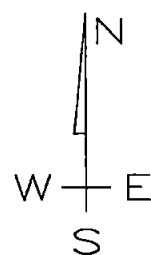
CONSULTING ENGINEERS  
 Geology • Civil • Geotechnical • Environmental  
 2138 Humboldt Street  
 P.O. Box 5346  
 Bellingham, WA 98227  
 Ph: (360) 876-9589  
 Ph: (800) 859-5597  
 Fax: (360) 876-4825

FIGURE 1  
 SITE VICINITY MAP  
 BLACK MOUNTAIN RANCH

DATE: 12/98 SCALE: H: 1:24,000 V: NA



MOUNT BAKER HIGHWAY



RESIDENTIAL HOME

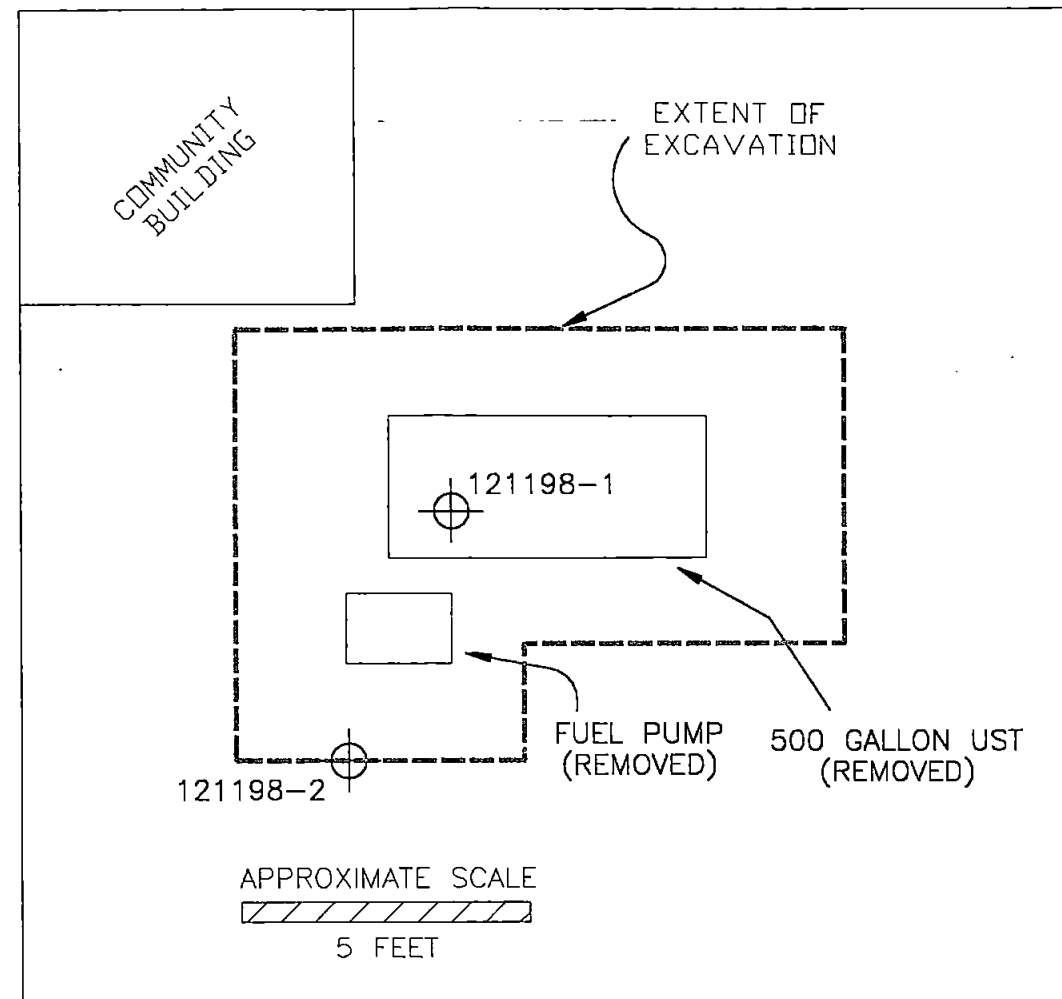
GATE HOUSE

COMMUNITY BUILDING

FORMER UST LOCATION

OFFICE

COMMUNITY BUILDING



UST PIT DETAIL



CONSULTING ENGINEERS  
Geology • Civil • Geotechnical • Environmental  
2198 Humboldt Street  
P.O. Box 5348  
Bellingham, WA 98227  
Ph: (360) 678-9589  
Ph: (800) 858-5587  
Fax: (360) 678-4825

FIGURE 2  
SITE PLAN AND PIT DETAIL  
BLACK MOUNTAIN RANCH

DATE: 12/98 SCALE: H: AS SHOWN V: N/A

JOB NO.: 98225  
DESIGNED BY: JME  
DRAWN BY: JME  
CHECKED BY: TEB





Figure 3. Tank photographs

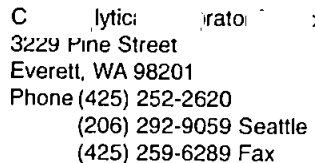




## **APPENDIX II**

### **LABORATORY REPORT**





**Laboratory Analysis Request**

CC (atom only)

Date 4/22/98 Page 1 Of 1  
16

PROJECT ID: 78225  
REPORT TO COMPANY: BEK  
PROJECT MANAGER: E INARSEN  
ADDRESS: 2138 Humboldt St  
Bellingham wa 98225  
PHONE: 360-676-4625 FAX: 360-676-4625  
INVOICE TO COMPANY:  
ATTENTION: SAME  
ADDRESS:  
P.O. NUMBER: CCI QUOTE:

[illegible]

→ All samples > 500 ppm gas ←

SIGNATURES (Name, ~~Company~~, Date, and Time):

1. Relinquished By: [Signature] / BEK / 12-11-98 / 0900

Received By:

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days\*

OTHER:

Specify: \_\_\_\_\_

Organic, Metals &amp; Inorganic Analysis

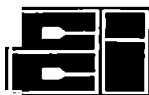
10	<del>8</del>	3	2	1	Same Day
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## Fuels & Hydrocarbon Analysis

~~5~~ 3 1 Sam  
Day

\* Turnaround Requests less than standard may incur Rush Charges.





CERTIFICATE OF ANALYSIS

CLIENT: BEK PURNELL ENGINEERING  
2138 HUMBOLDT ST.  
BELLINGHAM, WA 98225

DATE: 12/23/98  
CCIL JOB #: 812071  
CCIL SAMPLE #: 1  
DATE RECEIVED: 12/16/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID: 98225  
CLIENT SAMPLE ID: 121198-1 12/11/98 12:00

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	9600	MG/KG	100MG/KG	12/22/98	AMR
BENZENE	EPA-8021	16	MG/KG	.5MG/KG	12/22/98	AMR
TOLUENE	EPA-8021	400	MG/KG	40MG/KG	12/22/98	AMR
ETHYLBENZENE	EPA-8021	130	MG/KG	20MG/KG	12/22/98	AMR
XYLENES	EPA-8021	1100	MG/KG	20MG/KG	12/22/98	AMR
LEAD	EPA-7420	12	MG/KG		12/23/98	SJT

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

\*\* UNITS FOR ALL NON LIQUID SAMPLES ARE REPORTED ON A DRY WEIGHT BASIS

\*\*\* ACTIONS LEVELS ARE PROVIDED ONLY WHEN PARAMETER DATA IS USED FOR A GENERALLY  
CONSISTENT APPLICATION. WHEN PROVIDED, THEY SHOULD BE USED AS GUIDELINES ONLY.  
THE APPROPRIATE REGULATORY DOCUMENT SHOULD BE CONSULTED BEFORE MAKING ANY  
DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: C142



**CERTIFICATE OF ANALYSIS**

CLIENT: BEK PURNELL ENGINEERING  
2138 HUMBOLDT ST.  
BELLINGHAM, WA 98225

DATE: 12/23/98  
CCIL JOB #: 812071  
CCIL SAMPLE #: 2  
DATE RECEIVED: 12/16/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID: 98225  
CLIENT SAMPLE ID: 121198-2 12/11/98 12:15

**DATA RESULTS**

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	12000	MG/KG	100MG/KG	12/22/98	AMR
BENZENE	EPA-8021	ND(<10)	MG/KG	.5MG/KG	12/22/98	AMR
TOLUENE	EPA-8021	410	MG/KG	40MG/KG	12/22/98	AMR
ETHYLBENZENE	EPA-8021	170	MG/KG	20MG/KG	12/22/98	AMR
XYLENES	EPA-8021	1500	MG/KG	20MG/KG	12/22/98	AMR
LEAD	EPA-7420	22	MG/KG		12/23/98	SJT

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CPD





CERTIFICATE OF ANALYSIS

CLIENT: BEK PURNELL ENGINEERING  
2138 HUMBOLDT ST.  
BELLINGHAM, WA 98225

DATE: 12/23/98  
CCIL JOB #: 812071  
CCIL SAMPLE #: 3  
DATE RECEIVED: 12/16/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID: 98225  
CLIENT SAMPLE ID: 121198-3 12/11/98 12:30

DATA RESULTS

ANALYTE	METHOD	RESULTS*	UNITS**	ACTION LEVEL***	ANALYSIS DATE	ANALYSIS BY
TPH-GASOLINE	WTPH-G	5200	MG/KG	100MG/KG	12/22/98	AMR
BENZENE	EPA-8021	ND(<2)	MG/KG	.5MG/KG	12/22/98	AMR
TOLUENE	EPA-8021	65	MG/KG	40MG/KG	12/22/98	AMR
ETHYLBENZENE	EPA-8021	52	MG/KG	20MG/KG	12/22/98	AMR
XYLENES	EPA-8021	510	MG/KG	20MG/KG	12/22/98	AMR
LEAD	EPA-7420	26	MG/KG		12/23/98	SJT

\* "ND" INDICATES ANALYTE NOT DETECTED AT LEVEL ABOVE REPORTING LIMIT. REPORTING LIMIT IS GIVEN IN PARENTHESES

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DECISIONS BASED ON ANALYTICAL DATA

APPROVED BY: CCIL





CCI  
ANALYTICAL  
LABORATORIES, INC.

### CERTIFICATE OF ANALYSIS

CLIENT: BEK PURNELL ENGINEERING  
2138 HUMBOLDT ST.  
BELLINGHAM, WA 98225

DATE: 12/23/98  
CCIL JOB #: 812071

DATE RECEIVED: 12/16/98  
WDOE ACCREDITATION #: C142

CLIENT CONTACT: JON EINARSEN

CLIENT PROJECT ID: 98225

### QUALITY CONTROL RESULTS

#### SURROGATE RECOVERY

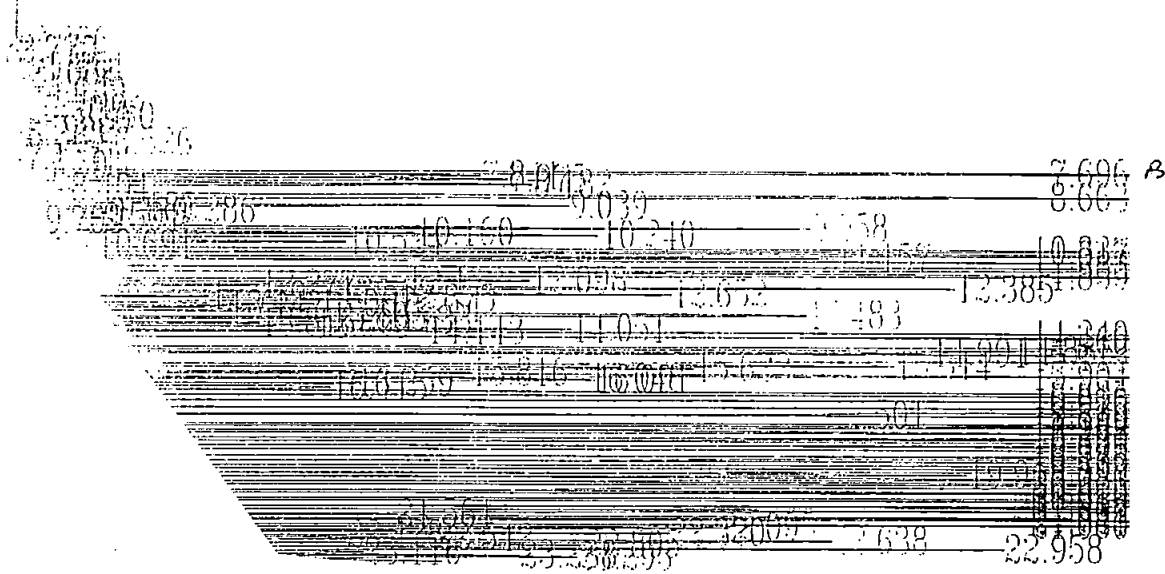
CCIL SAMPLE ID	ANALYTE	SUR ID	% RECV
812071-01	WTPH-G	TFT	*
812071-01	EPA-8021	TFT	*
812071-02	WTPH-G	TFT	*
812071-02	EPA-8021	TFT	*
812071-03	WTPH-G	TFT	*
812071-03	EPA-8021	TFT	*

\* SURROGATE DILUTED OUT OF CALIBRATION RANGE

APPROVED BY: C142



0.0000  
0.0000  
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0.0000



# External Standard Report

Data File Name : D:\HPCHEM\2\DATA\28122101\021R1101.D  
 Operator : amr  
 Instrument : GAS/BTEX  
 Sample Name : 812071-1 5  
 Run Time Bar Code:  
 Acquired on : 22 Dec 98 02:20 AM  
 Report Created on: 22 Dec 98 02:44 AM  
 Last Recalib on : 19 DEC 98 10:17 AM  
 Multiplier : 1

Page Number : 1  
 Vial Number : 21  
 Injection Number : 1  
 Sequence Line : 11  
 Instrument Method: TPHG1298.MTH  
 Analysis Method : BTEX1298.MTH  
 Sample Amount : 0  
 ISTD Amount :

Sig. 2 in D:\HPCHEM\2\DATA\28122101\021R1101.D

Ret Time	Area	Type	Width	Ref#	ug/l	Name
7.696	7.717	645409 VV	0.075	1	9.049	Benzene
9.286		45068 VV	0.068	1	1.174	TFT surrogate
11.383	1.19294E+007	VV	0.064	1	213.816	Toluene
14.143	73052	VV	0.050	1	0.618	Ethylbenzene
14.466	2.26173E+007	VV	0.067	1	386.835	M+P-Xylene
15.113	8221372	VV	0.063	1	156.241	O-Xylene

$$B = 9 \frac{\mu g}{L} \times \frac{5 ml}{100 ml} \times \frac{0.1 L}{5.5 kg} = 16 mg/kg$$

ANALYZED BY 12-23-98  
 CASE 122318



4.091  
5.0610  
5.480  
6.555  
7.538  
8.896  
9.306  
9.840  
10.191  
10.856

14.483

22221-788840  
22221-788840  
22221-788840

# External Standard Report

Data File Name : D:\HPCHEM\2\DATA\28122201\021F0301.D  
 Operator : amr Page Number : 1  
 Instrument : GAS/BTEX Vial Number : 21  
 Sample Name : 812071-1x100 100 Injection Number : 1  
 Run Time Bar Code: Sequence Line : 3  
 Acquired on : 22 Dec 98 12:52 PM Instrument Method: TPHG1298.MTH  
 Report Created on: 22 Dec 98 01:20 PM Analysis Method : TPHG1298.MTH  
 Last Recalib on : 15 DEC 98 08:58 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :

Sig. 1 in D:\HPCHEM\2\DATA\28122201\021F0301.D

Ret Time	Area	Type	Width	Ref#	ug/l	Name
9.306	8355	VV	0.070	1	0.739	TFT-surrogate - del
14.483	8887355	MM	0.465	1	1066.088	gasoline envelop

User Modified

$$\text{gas} = 1066 \frac{\mu\text{g}}{\text{L}} \times \frac{5\text{ml}}{.001\text{ml}} \times \frac{.01\text{L}}{5.56\text{g}} = 9600 \text{ mg/kg}$$

REVIEWED BY  
DATE 12-22-98

CAN 122288



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Time

## External Standard Report

Data File Name	: D:\HPCHEM\2\DATA\28122201\022R0301.D	
Operator	: amr	Page Number : 1
Instrument	: GAS/BTEX	Vial Number : 22
Sample Name	: 812071-2x100 100	Injection Number : 1
Run Time Bar Code:		Sequence Line : 3
Acquired on	: 22 Dec 98 01:23 PM	Instrument Method: TPHG1298.MTH
Report Created on:	: 22 Dec 98 02:32 PM	Analysis Method : BTEX1298.MTH
Last Recalib on	: 19 DEC 98 10:17 AM	Sample Amount : 0
Multiplier	: 1	ISTD Amount :

Sig. 2 in D:\HPCHEM\2\DATA\28122201\022R0301.D

Ret Time	Area	Type	Width	Ref#	ug/l	Name
7.709	34363	VV	0.075	1	0.229	Benzene
9.406	8278	VV	0.071	1	0.201	TFT surrogate ~ <i>diol</i>
11.396	2595393	VV	0.062	1	45.567	Toluene
14.265	940186	VV	0.057	1	18.985	Ethylbenzene
14.483	6894020	VV	0.064	1	114.957	M+P-Xylene
15.138	2464169	VV	0.061	1	45.962	O-Xylene

159

$$\text{Benzene} < 1 \frac{\mu\text{g}}{\text{L}} \times \frac{5 \text{ mP}}{.001 \text{ mP}} \times \frac{.01 \text{ L}}{5.47 \text{ g}} = < 10 \text{ mg/kg}$$

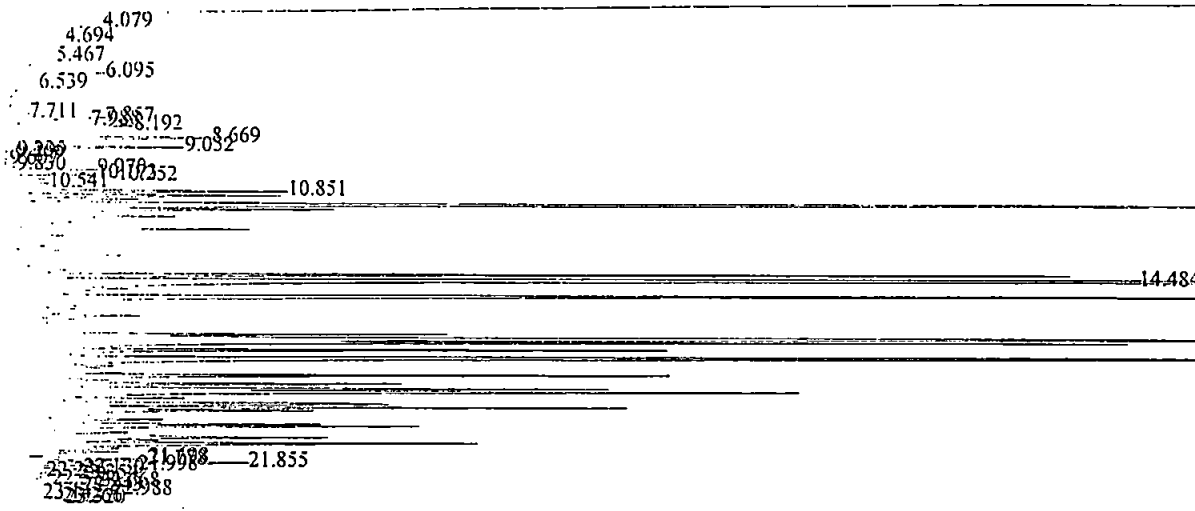
$T = 410 \text{ mg/kg}$      $E = \frac{460 \text{ mg/kg}}{170}$

$$x = \frac{2400}{1500} \text{ mg/kg}$$

MA. 122318

REVIEWED BY  
DATE 12-23-85





External Standard Report

Data File Name	: D:\HPCHEM\2\DATA\28122201\022F0301.D	Page Number	: 1
Operator	: amr	Vial Number	: 22
Instrument	: GAS/BTEX	Injection Number	: 1
Sample Name	: 812071-2x100 100	Sequence Line	: 3
Run Time Bar Code:		Instrument Method	: TPHG1298.MTH
Acquired on	: 22 Dec 98 01:23 PM	Analysis Method	: TPHG1298.MTH
Report Created on:	22 Dec 98 02:29 PM	Sample Amount	: 0
Last Recalib on	: 15 DEC 98 08:58 AM	ISTD Amount	:
Multiplier	: 1		

Sig. 1 in D:\HPCHEM\2\DATA\28122201\022F0301.D

Ret Time	Area	Type	Width	Ref#	ug/l	Name
9.299	4666	VV	0.068	1	0.413	TFT-surrogate
14.484	1.06919E+007	MM	0.411	1	1278.058	gasoline envelop

User Modified

$$\text{gas} = \frac{1278 \text{ ug} \times 5 \text{ ml}}{100 \text{ ml}} \times \frac{0.1 \text{ L}}{5.47 \text{ g}} = 1200 \text{ mg/kg}$$

BY 12-23-98

CAN 122388



[illegible]

Data File Name	: D:\HPCHEM\2\DATA\28122101\023R1101.D		
Operator	: amr	Page Number	: 1
Instrument	: GAS/BTEX	Vial Number	: 23
Sample Name	: 812071-3 5 ul 1.20	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 11
Acquired on	: 22 Dec 98 03:23 AM	Instrument Method:	TPHG1298.MTH
Report Created on:	22 Dec 98 03:46 AM	Analysis Method	: BTEX1298.MTH
Last Recalib on	: 19 DEC 98 10:17 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

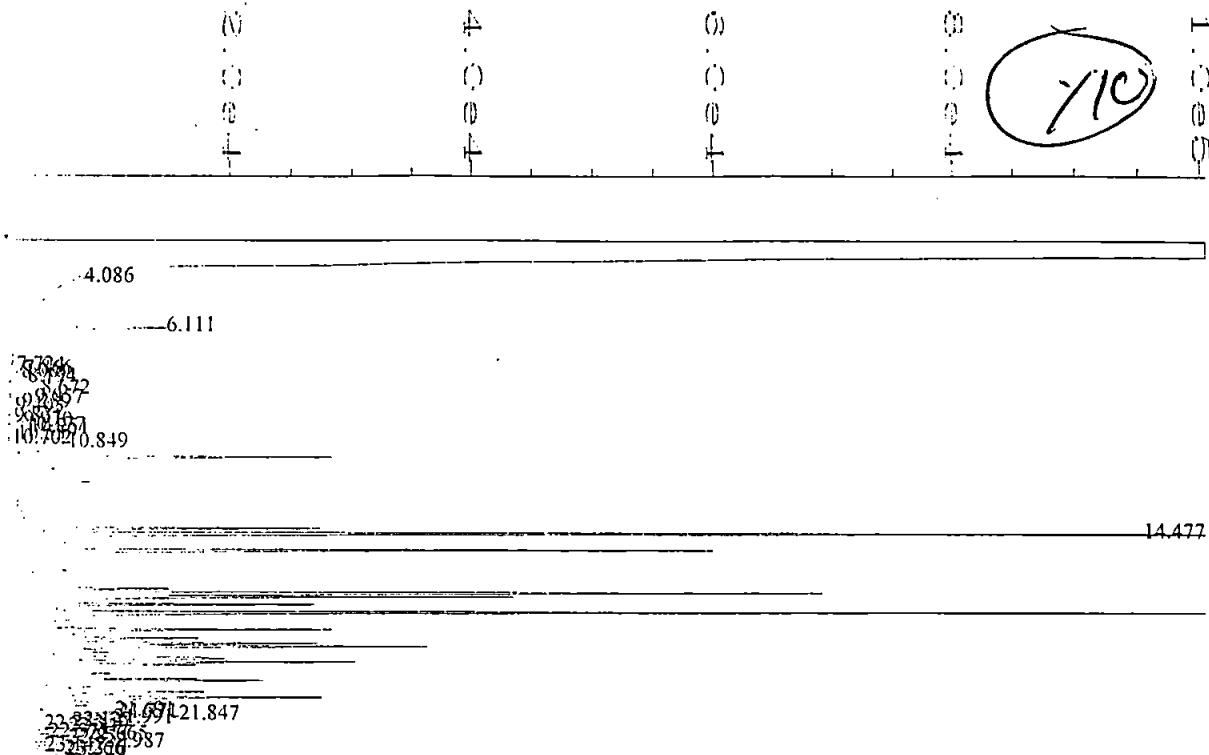
Ret Time	Area	Type	Width	Ref#	ug/l	Name
7.686	29714	VV	0.076	1	0.198	Benzene
9.275	6477	VV	0.056	1	0.157	TFT surrogate - dil
11.369	2080505	VV	0.064	1	36.286	Toluene
14.232	1428374	VV	0.060	1	29.666	Ethylbenzene
14.451	1.15334E+007	VV	0.066	1	195.178	M+P-Xylene
15.104	4479706	VV	0.063	1	84.570	O-Xylene

APPROVED BY \_\_\_\_\_  
DATE \_\_\_\_\_ 12-23-90

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$$\text{Benzene } \left( 1 \frac{\mu\text{g}}{\text{L}} \right) \times \frac{5 \text{ mL}}{0.005 \text{ mL}} \times \frac{0.1 \text{ L}}{5.5 \text{ g}} = 1.82 \text{ mg/kg}$$

$= 65 \text{ mg/kg}$   
 $= 52 \text{ mg/kg}$   
 $= 510 \text{ mg/kg}$



# External Standard Report

Data File Name : D:\HPCHEM\2\DATA\28122201\023F0301.D  
 Operator : amr Page Number : 1  
 Instrument : GAS/BTEX Vial Number : 23  
 Sample Name : 812071-3x100 100 Injection Number : 1  
 Run Time Bar Code: Sequence Line : 3  
 Acquired on : 22 Dec 98 01:58 PM Instrument Method: TPHG1298.MTH  
 Report Created on: 22 Dec 98 02:29 PM Analysis Method : TPHG1298.MTH  
 Last Recalib on : 15 DEC 98 08:58 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :

Sig. 1 in D:\HPCHEM\2\DATA\28122201\023F0301.D

Ret Time	Area	Type	Width	Ref#	ug/l	Name
9.403	2778	VV	0.065	1	0.246	TFT-surrogate - dil
14.477	4648034	MM	0.613	1	568.129	gasoline envelop

User Modified

$$\text{gas} = 568 \frac{\mu\text{g}}{\text{L}} \times \frac{5\text{ml}}{0.001\text{ml}} \times \frac{0.1\text{L}}{5.50\text{g}} = 5280\text{mg/kg}$$

REVIEWED BY 1223704  
 & DATE

CAN 1223704



**APPENDIX III**

**CLOSURE AND SITE ASSESSMENT NOTICE**





# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

See back of form for instructions

NW LS

FOR OFFICE USE ONLY		
Site ID #:		
Owner ID #:		

Please ☒ the appropriate box(es)  
☐ Temporary Tank Closure ☐ Change-In-Service ☒ Permanent Tank Closure ☐ Site Check/Site Assessment

## Site Information

## Owner Information

Site ID Number NOT REGISTERED (Available from Ecology if the tanks are registered) UST Owner/Operator SAME  
Site/Business Name BLACK MOUNTAIN RANCH Mailing Address \_\_\_\_\_  
Site Address 6417 MOUNT BAKER HIGHWAY Street \_\_\_\_\_  
City/State DEMING WA City/State \_\_\_\_\_  
Zip Code 98244 Telephone (360) 599-2758 Zip Code \_\_\_\_\_ Telephone (\_\_\_\_) \_\_\_\_\_  
Owner's Signature Joan Parrott Karm Pacheco

## Tank Closure/Charge-In-Service Company

Service Company ULTRA TANK SERVICES  
Certified Supervisor George Willet Decommissioning Certification No. 32003819  
Supervisor's Signature George Willet  
Address \_\_\_\_\_ P.O. Box 664 Telephone (360) 734-7611  
Street \_\_\_\_\_ P.O. Box \_\_\_\_\_  
Bellingham Wa. 98227-0664  
City State Zip Code

## Site Check/Site Assessor

Certified Site Assessor JON EINARSEN BEK PURNELL ENGINEERING  
Address 2138 HUMBOLDT ST Telephone (360) 676-9589  
Street \_\_\_\_\_ P.O. Box \_\_\_\_\_  
BELLINGHAM WA 98225  
City State Zip Code

## Tank Information

Tank ID #	Closure Date	Closure Method	Tank Capacity	Substance Stored
<u>#1</u>	<u>12/11/98</u>	<u>REMOVAL</u>	<u>500</u>	<u>GASOLINE</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

## Contamination Present at the Time of Closure

☒ Yes ☐ No ☐ Unknown  
Check unknown if no obvious contamination was observed and sample results have not yet been received from analytical lab.

☒ Yes ☐ No

If contamination is present, has the release been reported to the appropriate regional office?