Date: October 18, 2001

To: Norm Hepner

Department of Ecology 15 West Yakima Ave.

Suite 200

Yakima, WA 98942

Job No: SGB

Project: Mathias Texaco



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Sent By:

William J. Goggin PE

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## **UST CLOSURE SITE ASSESSMENT REPORT**

Mathias Texaco Site 601 Highway 12 Sunnyside, Washington

Prepared for:

Robert Mathias
471 West Woodin Road
Sunnyside, Washington 98944

October 23, 1997



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#### UST CLOSURE SITE ASSESSMENT REPORT

#### 1. SITE DATA

Ecology Site Number 9264 Mathias Texaco 601 Highway 12 Sunnyside, WA 98944

#### 2. SCOPE OF WORK

UST Closure by removal of the following:

- 8,000 gallon regular gasoline underground storage tank
- 4,000 gallon unleaded gasoline underground storage tank
- 4,000 gallon unleaded gasoline underground storage tank
- 4,000 gallon gasohol underground storage tank
- 4,000 gallon gasohol underground storage tank
- 550 gallon waste oil underground storage tank
- · Associated piping and 2 fuel dispenser islands

#### 3. UST DATA

Tank I.D. Numbers:

- (1) 8,000 gal. regular gasoline
- (2) 4,000 gal. unleaded gasoline
- (3) 4,000 gal. unleaded gasoline
- (4) 4,000 gal. gasohol
- (5) 4,000 gal. gasohol
- (6) 1550 gal. waste oil

Last use: Retail fuel sales (#1 through #5) and used engine oil (#6)

Age: Approximately 18 years

(NOTE: This UST system is a replacement for a previous UST system which existed on

the site prior to the present system.)

<sup>&</sup>lt;sup>1</sup> No Ecology ID Number has been assigned to this UST

A small heating oil UST exists on the north side of the building. This tank was not removed as part of this site assessment and it remains in place.

#### 4. PERSONNEL

TABLE I - PERSONNEL

TASK	RESPONSIBILITY	PERSONNEL
Prime Contractor	Client contact, physical site operations, UST transportation, direction of subcontractor operations	Darrell Downing & Crew Downing Construction
Site management prior to and during UST closure	Project documentation, scheduling & contractor coordination	William J. Goggin PE SGB Engineering & Environmental Services
UST Decommissioning	Operations management, UST disposal documentation	William J. Goggin PE SGB Engineering & Environmental Services
Site Assessment	Soil & water sampling & analyses, closure report	William J. Goggin PE SGB Engineering & Environmental Services
Air monitoring, UST purging, inerting, dismantling & disposal	UST safety during removal & disposal of all UST's	Paul Konen Kennedy Equipment Co. Inc.
Safety Management	Site safety officer, traffic control	Ed Douglas Safety Management
Observation of UST Decommissioning for PLP Group	Overview of operations, sample splits	Bill Adams Secor International Inc.
Ecology Toxics Cleanup Program Manager	Overview of operations	John Wietfeld Department of Ecology
Texaco representative	Overview of operations	Chris Jones Environmental Management Services

#### 5. PROJECT SUMMARY

On October 6 and 7, 1997 the UST fuel storage & delivery system as well as the waste oil UST were excavated and removed and a closure site assessment was performed. Soil samples were taken from the endwalls, sidewalls and bottom of each UST. A single excavation was performed to remove all of the UST's. All piping and both fuel islands were also removed. Soil was sampled beneath each fuel island. A groundwater sample was also taken from a test pit that was extended directly beneath the north fuel island. (Refer to Figure 1 Site Location Plan & Figure 2 Sampling Plan).

The entire UST system was removed from the ground, including both fuel dispenser islands, all fuel supply piping and all vent piping. The dispensers were not in place at the time of this UST closure and apparently they had been removed many years ago.

UST Number 3 was observed to have a leak in the seam at the bottom of the east end of the tank. The seam had rusted to the point where the metal outer wall of the tank separated from the end cap. Soil contamination was evident in the area of the leak. UST's 1,2,4,5 & 6 were in good shape with no apparent holes. The piping system, especially in the vicinity of each fuel island, revealed signs of leakage at some of the joints. Contaminated soil was evident in these locations.

Additional soil contamination was noted during the site assessment, primarily in the northern portion of the excavation. Heavy oil contamination was noted in the area of the waste oil tank. The waste oil UST and piping appeared to be in good shape. The contamination may have been the result of overfilling of the UST, with the excess waste oil escaping from the neck of the 3" access port into the soil surrounding the traffic flange and cover.

Upon removal of the UST system, the site was graded to stabilize the slopes but was not backfilled. Contaminated soil that was removed from the excavation has been temporarily stockpiled and is scheduled to be removed and disposed of at an approved disposal site.

This site is considered to be part of the "Manhole 34" site, a #1 WARM site that is currently in the Cleanup Action Plan (CAP) review stage.

#### 6. SOILS

The native soil material is classified as ML in the Unified Soil Classification System. It is a mixture of very fine sand and silt with narrow bands of volcanic ash. Seams of coarse black volcanic sand were noted near the bottom of some portions of the excavation.

#### 7. GROUNDWATER

Prior to beginning excavation on this site, three of the on site monitoring wells were checked for the presence of free petroleum product (a.k.a. LNAPL). The following was observed;

LOCATION	OBSERVATION
DMW-2	No free floating product, no petroleum odor, clear water sample
DMW-6	No free floating product, strong petroleum odor
DMW-5	Approximately 18" of dark, opaque petroleum product on top of the water in the monitoring well

No water was encountered in the UST excavation but the bottom of the excavation (at approximately 8 feet beneath the surface) was saturated and assumed to be very close to the static water level. A test pit was excavated beneath the north fuel island, near DMW-5, to a depth of 10.5 feet and water was observed in the pit at a depth of approximately 8 feet below the surface after the excavation was left open for approximately 45 minutes. No free petroleum product (a.k.a. LNAPL) was noted in the test pit. A slight sheen was observed on the surface of the water.

Water Sample No. 15097-124 was taken beneath the surface of the water in the test pit to quantify the level of petroleum contamination. The analytical results revealed gasoline, diesel fuel and oil contamination in the water exceeding the MTCA cleanup requirements. Refer to Table II for the analytical results.

#### 8. LAND USE

The site and surrounding land for approximately 1/2 mile or more in all directions is currently used for retail commercial sales of various products. Some residential use was noted as well as a motel site and restaurant sites. The site is located in a predominantly commercial area of Sunnyside.

The site is part of a larger identified contaminated area known as "Manhole 34", which is currently in the Cleanup Action Stage and awaiting approval from Ecology on the Cleanup Action Plan being prepared by SECOR International Inc. Historically, the area in the immediate vicinity of the subject site has been used for numerous petroleum storage, distribution and retail sales facilities. The Remedial Investigation / Feasibility Study (RI/FS) for Manhole 34 revealed a large area of petroleum contamination in the soil and groundwater to the north and east of the subject site.

#### 9. SAMPLING

The sample collection, storage and transportation procedures used for this project were performed in accordance with "Guldance for Site Checks and Site Assessments for Underground Storage Tanks" published by the Washington State Department of Ecology, February 1991, 90-52, Revised October 1992. Collected samples were analyzed for the following substances based on tank contents and historical contaminants found during studies performed by others;

- Gasoline range organic compounds (NTPH-G and BETX)
- Diesel range organic compounds (NWTPH-Dx)
- Petroleum compounds heavier than Diesel (WTPH-418.1)

#### 10. SAMPLE RESULTS

Sample Results are tabulated on the following Table II. Refer to Figure 1 Site Location Plan for a general layout of the site. Refer to Figure 2 Sampling Plan for detailed layout sketches of the UST system and sampling locations. For detailed analytical data, refer to enclosed laboratory analytical documentation from OnSite Environmental Inc. dated October 16, 1997 (Appendix D).

## TABLE II - LABORATORY ANALYTICAL DATA

SAMPLE NUMBER	SAMPLE LOCATION	MATRIX	LABORATORY ANALYTICAL RESULTS <sup>234</sup>				
To community the state of the s		The state of the s	NWTPH - (mg/	Kg	NWTPH mg/K	g	WTPH 418.1 mg/Kg
15097-101	Center of West Fuel Island. Depth = 2'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	450 0.3 3 2 17	(ppm Diesel Fuel (C12-C24) Oil (C24-34)	340	(ppm) NT
15097-102	W. end of UST#1 Depth = 8'± below ground surface. Composited with 15097-106	Soil	TPH Benzene Toluene E-Benzene Xylenes	(See sample 15097- 106)	Diesel Fuel (C12-C24) Oil (C24-34)	(See sample 15097- 106)	NT
15097-103	S. sidewall of UST#1. Depth = 8'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	16 0.2 ND <1	Diesel Fuel (C12-C24) Oil (C24-34)	ND ND	NT
15097-104	E. end of UST#1 Depth = 8'± below ground surface. Composited with 15097-107	Soil	TPH Benzene Toluene E-Benzene Xylenes	(See sample 15097- 107)	Diesel Fuel (C12-C24) Oil (C24-34)	(See sample 15097- 107)	NT
15097-105	Bottom center of UST#1. Depth = 10.5'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	57 <b>4</b> ND 1 5	Diesel Fuel (C12-C24) Oil (C24-34)	ND ND	NT

Bold typeface indicates concentrations exceeding MTCA Method A cleanup levels
 ND indicates No Detection of contaminants
 NT indicates No Test performed

SAMPLE	SAMPLE LOCATION	MATRIX	LABORATORY ANALYTICAL RESULTS <sup>234</sup>				
The state of the s			NWTPH - 0 mg/l (ppr	<b>√</b> g	NWTPH mg/K (ppm	g	WTPH 418.1 mg/Kg (ppm)
15097-106	W. end of UST#2 Depth = 8'± below ground surface. Composited with 15097-102	Soll	TPH Benzene Toluene E-Benzene Xylenes	2800 8 65 31 194	Diesel Fuel (C12-C24) Oil (C24-34)	160 ND	NT
15097-107	E. end of UST#2 Depth = 8'± below ground surface. Composited with 15097-104	Soil	TPH Benzene Toluene E-Benzene Xylenes	7 ND ND ND <1	Diesel Fuel (C12-C24) Oil (C24-34)	ND ND	NT
15097-108	Bottom center of UST#2, Depth = 10'± below ground surface,	Soil	TPH Benzene Toluene E-Benzene Xylenes	8 3 1 <1	Diesel Fuel (C12-C24) Oil (C24-34)	ND ND	NT
15097-109	W. end of UST#3 Depth = 8'± below ground surface. Composited with 15097-112	Soil	TPH Benzene Toluene E-Benzene Xylenes	(See sample 15097- 112)	Diesel Fuel (C12-C24) Oil (C24-34)	(See sample 15097- 112)	NT
15097-110	E. end of UST#3  Depth = 8'±  below ground  surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	14,000 27 160 100 710	Diesel Fuel (C12-C24) Oil (C24-34)	<b>310</b> 77	NT
15097-111	Bottom center of UST#3. Depth = 10'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	<b>620 3</b> 6 2 14	Diesel Fuel (C12-C24) Oil (C24-34)	ND 69	NT

SAMPLE NUMBER	SAMPLE LOCATION	MATRIX					
THE PARTY OF THE P				NWTPH - G / BETX		-Dx	WTPH 418.1
			mg/		mg/K (ppm	•	mg/Kg (ppm)
15097-112	W. end of UST#4 Depth = 8'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene	6,800 33 260	Diesel Fuel (C12-C24) Oil (C24-34)	<b>270</b>	NT
			Xylenes	94 480			
15097-113	E. end of UST#4 Depth = 8'± below ground	Soil	TPH Benzene Toluene	15,000 79	Diesel Fuel (C12-C24)	1,600	NT
	surface.		E-Benzene Xylenes	490 210 900	Oil (C24-34)	1,200	
15097-114	Bottom center of UST#4, Depth = 10'± below ground	Soil	TPH Benzene Toluene E-Benzene	19 ND <1 ND	Diesel Fuel (C12-C24) Oil (C24-34)	ND ND	NT
(5007 115	surface.		Xylenes	<1		140	
15097-115	W. end of UST#5 Depth = 8'± below ground	Soil	TPH Benzene Toluene	12,000 11	Diesel Fuel (C12-C24)	580	NT
	surface.		E-Benzene Xylenes	120 83 660	Oil (C24-34)	ND	
15097-116	E. end of UST#5 Depth = 8'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	3,500 10 100 5	Diesel Fuel (C12-C24) Oil (C24-34)	450 410	NT
15097-117	Bottom center of UST#5.	Sail	TPH Benzene	7,000	Diesel Fuel	490	NT
	Depth = 10'± below ground surface.		Toluene E-Benzene Xylenes	22 240 96 470	(C12-C24) Oil (C24-34)	140	Transport

SAMPLE NUMBER	SAMPLE LOCATION	MATRIX	LABORATORY ANALYTICAL RESULTS <sup>234</sup>				
A CONTRACTOR OF THE CONTRACTOR			NWTPH - G / BETX  mg/Kg (ppm)		NWTPH -Dx mg/Kg (ppm)		WTPH 418.1 mg/Kg (ppm)
15097-118	N. sidewall of UST#6. Depth = 5'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	2,000 10 2 30 114	Diesel Fuel (C12-C24) Oil (C24-34)	3,700 14,000	29,000
15097-119	Bottom center of UST#6. Depth = 7'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	170 1 1 2 9	Diesel Fuel (C12-C24) Oil (C24-34)	200 970	3,200
15097-120	Center of North Fuel Island, Depth = 2'± below ground surface.	Soil	TPH Benzene Toluene E-Benzene Xylenes	2,300 6 47 24 181	Diesel Fuel (C12-C24) Oil (C24-34)	31 ND	NT
15097-121	West end of Stockpile Depth = 2.5' below top center of the stockpile.	Soil	TPH Benzene Toluene E-Benzene Xylenes	61 ND <1 <1	Diesel Fuel (C12-C24) Oil (C24-34)	110	NT
15097-122	Center of Stockpile Depth = 2.5' below top center of the stockpile.	Soil	TPH Benzene Toluene E-Benzene Xylenes	380 0.48 <1 <1 9	Diesel Fuel (C12-C24) Oil (C24-34)	130 <b>280</b>	NT
15097-123	East end of Stockpile Depth = 2.5' below top center of the stockpile.	Soil	TPH Benzene Toluene E-Benzene Xylenes	520 0,2 <1 <1 18	Diesel Fuel (C12-C24) Oil (C24-34)	77 130	NT
15097-124	Test Pit in center of North Fuel Island. Water elev. = 8'± below ground surface.	Water	TPH Benzene Toluene E-Benzene Xylenes	580 15 23 10 54	Diesel Fuel (C12-C24) Oil (C24-34)	100 20	NT

#### 11. QUALITY CONTROL

#### 11.1. Laboratory QA/QC

All samples collected by SGB were transported to OnSite Environmental Inc., 14924 NE 31<sup>st</sup> Circle, Redmond Washington for analyses. OnSite Environmental Inc. is a Washington State Department of Ecology accredited laboratory that maintains a Quality Assurance Program in accordance with Chapter 173-50 WAC. Copies of their Quality Assurance Manual are available upon request.

#### 11.2. Field QA/QC

Sample collection, handling, shipping and analysis followed standard protocol and no factors were present that may have compromised the quality of the data or validity of the results.

#### 12. SUMMARY & RECOMMENDATIONS

The observed status of the UST system that has been removed is as follows:

#### TABLE III - UST STATUS

UST COMPONENT	OBSERVED CONDITION
UST Number 1, 8,000 Gallon Regular Gasoline	Tank was in good condition, little rust and no observed perforations
UST Number 2, 4,000 Gallon Unleaded Gasoline	Tank was in good condition, little rust and no observed perforations
UST Number 3, 4,000 Gallon Unleaded Gasoline	A seam leak was discovered at the bottom of the eastern end cap. Soil contamination was evident and analytical results of soil samples in the area confirm the presence of a leak
UST Number 4, 4,000 Gallon Gasohol	Tank was in good condition, little rust and no observed perforations
UST Number 5, 4,000 Gallon Gasohol	Tank was in good condition, little rust and no observed perforations
UST Number 6, 550 Gallon Waste Oil	The tank and piping appeared to be in good condition but it appears that overfilling of the tank caused waste oil to infiltrate into the soil surrounding the tank.

West Fuel Island	Soil contamination was evident beneath the fuel island and along the piping between the island and the UST's. Leaking joints in the single wall threaded steel piping are suspected to be the cause of the soil contamination.
North Fuel Island	Soil contamination was evident beneath the fuel island. Leaking joints in the single wall threaded steel piping are suspected to be the cause of the soil contamination. The piping between the north fuel island and the UST appeared to be intact with little evidence of contamination. A documented fuel spill occurred at this location as noted in numerous reports by Delta Environmental Consultants, Inc. starting in April 1989. The site was leased to R.H. Bowles, Inc. at the time.

In general, the excavation revealed that the soil in the southern end of the UST system site is not contaminated above the MTCA Method A action levels. Leaks in the fuel piping system appear to have contaminated the soil at the west and north fuel islands. A leak in UST Number 3 has contaminated the soil and potentially the groundwater in the east central area of the excavation.

The diesel fuel component that has been identified in many of the samples in the northern portion of the excavation and the groundwater sample, may be traveling with the groundwater from an offsite source. To the best of our knowledge, diesel fuel was never stored in any of the UST's on the subject site. The heavy oil component identified in many of the samples may also have traveled from an offsite source but sufficient evidence exists to suggest that some of the heavy oil contamination originated at the on site waste oil tank.

Characterization data from the Manhole 34 RI/FS indicates that this site is an integral part of the overall contamination area know as the Manhole 34 Site. The data generated by this UST closure reinforces the proposition that leaks and spills that have occurred on the subject site have combined and contributed to the overall Manhole 34 contamination problem. However, the extent and degree of the contamination, at least in the area of the recent excavation, is not as severe as previous data has reflected. No free petroleum product (LNAPL) was observed, a portion of the UST area is free of regulated contamination and the total volume of contaminated soil and groundwater on the subject site may be limited to 50% or less of the total site area.

Remediation of the soil and groundwater within the site boundaries is possible but may not be cost effective. Recontamination from offsite sources is probable, even if physical barriers are implemented. Remediation of the entire Manhole 34 contamination area would be the only definitive solution to the soil and groundwater contamination on the subject site.

Yakima Valley Highway

West Fuel Island

#3 #2 #4 #5 #1 #6

North Fuel Island

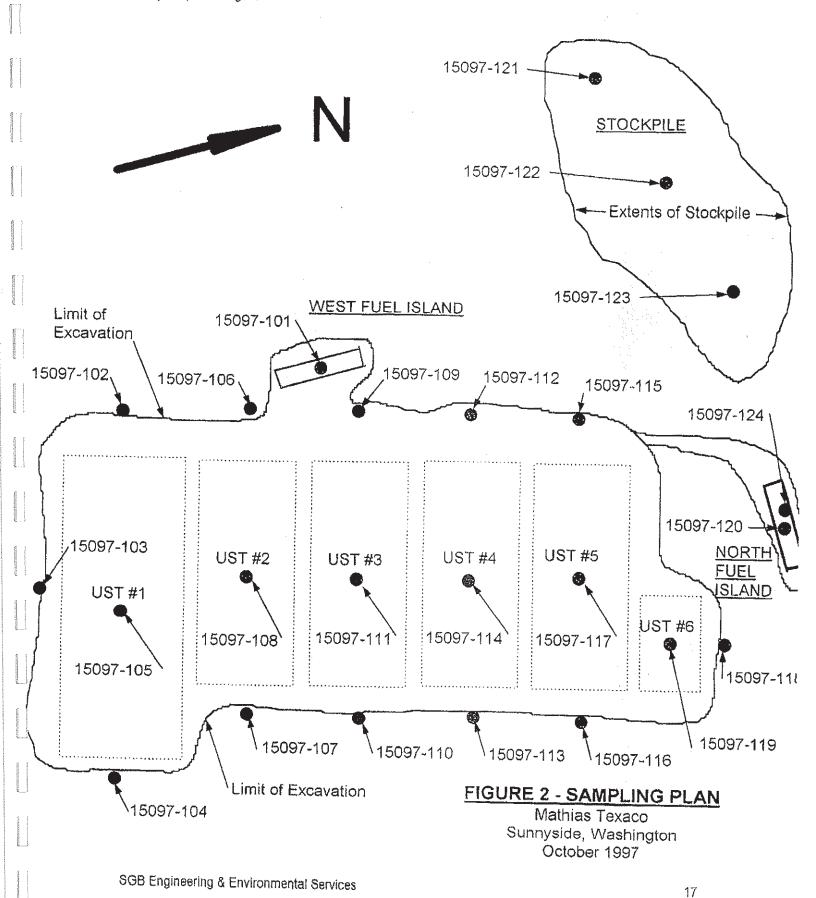
Building

Heating Oil UST

## FIGURE 1 - SITE LOCATION PLAN

Mathias Texaco Sunnyside, Washington October 1997

SGB Engineering & Environmental Services



# APPENDIX A:

30 Day Notice of Intent To Close / Decommission Tanks



# UNDERGE UND STORAGE TANK

# 30 Day Notice of Intent to Close/Decommission Tanks

The purpose of this form is to provide the Department of Ecology with notice of intent to close/decommission an UST. It must be received 30 days prior to the closure activities. It must be signed and dated by either the owner/operator of the UST to be closed or his/her authorized representative. (This could be the firm contracted to do the work.) Ecology will notify the identified person of the earliest date closure/decommissioning activities may commence.

For questions on completing this form please call (206) 459-6293.

Please type or use ink.

The completed checklist should be mailed to:

Underground Storage Tank Section
Department of Ecology
Mail Stop PV-11

	AND LOCATION	Marines Andrews The Control of the Control	The state of the seasons of the seas	Sec. 1
UST Owner/Operator:		1A TA A	Secure Control of the	
Owners Mailing Addre		WOODN ROX	₩)	
	SUNNYSIDE	(11)		F.O, 80x
Telephone:	(BOG) 830-0	728 State		98944 OP-Cour
Sile ID Number (on inv	voice or available from Ecology	difference of the second	9264	
Site/Business Name:	RER TIRES	A in renix is registered):	1264/600	1-085-854 001 00
Sile Address:	601 itiGitum	Y 17_		UA.
	SUNNY SUD C	· cuA		PATKINA County Quay 11
2. TANK PERMANE	•	Sielle		2)P Code
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ddress:	_ 170 MIDVALE	ROAD		
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elephone:	SUNNYSIDE (SQ) 837-04	WA Say		98944
elephone: TANK INFORMAT	(99) 837-84	WA Sint	Contact Name:	98944
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TANK INFORMAT	(99) 837-84	Tank Capacity (gallous)	Tank Age (years) /8	PERAL DARRICE DOWNING
TANK INFORMAT ank Identification	(Qq) B37-84	Tank Consolty (gallors) 8,000 4,000	Tank Age (years) 18	98994 ARRICE DOWNING
TANK INFORMAT ank Identification / 2	(Qq) B37-84	Tank Capacity (salicis) 8,000 4,000 4,000	Tank Age (years) /8	PERAL DOWNING  Last Substance Stored  REG. CAS
TANK INFORMAT  ank Identification  /  2  3 4	(99) 837-84 FION  Approx. Closure Date  8-18-97	Tank Capacity (galleris) 8,000 4,000 4,000 4,000	Tank Age (years) /8 /8 /8	PERAL DOWNING  Last Substance Stored  RGG CAS  UNL. GAS  UNL. GAS  GAS ONLO
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TANK INFORMAT ank Identification	(SQ) B37-84  FION  Approx. Closure Date  8-18-97  ANK OWNER/OPERATOR	Tank Capacity (galleris) 8,000 4,000 4,000 4,000	Tank Age (years) /8 /8 /8	PERAL DOWNING  Last Substance Stored  RGG CAS  UNL. GAS  UNL. GAS  GAS ONLO

# APPENDIX B:

UST Closure and Site Assessment Notice



ECY 020-94 (Rev. 4/95)

# UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

	• • • •	
FOR OFFICE USE ONLY		
<b>8 10 (1)</b> (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	- 1	
	· · ·	
Owner ID #:		

See back of form for instructions

		. Ć	Temporary Tank Closure	opriate box(es) Change-in- Service	Permanent Tank Closure	Site Check/
	Site inform	ation			er information	
Site ID Number	9264		USTO	_	OBGRIMA	•
(Available from Ecology it Site/Business Nam	10 MATHIAS	TGXA40 517		4	I W. WOODIA	
Site Address	aka, RER				Steal	
City/State SUA	WYSIDE,	orest	Clty/St	ate SUNNY	SIDE, WA	-,
Zlp Code 9894	14 Telephon	WA	<b>⊿</b> p ¢o	do <u>98944</u>	Telephone (507)	830-0728
	Т	ank Closure/		rvice Compa		
Service Company			<i>}</i>	•	MESOR	VICES.
Certified Superviso	, WILLIAM	(J. G0/6)	135) De∞m	missioning Certific	ation No. 1FC1	92869
Supervisor's Sign	ature		2			
Address 1300	STASSON	WAY	P.O. Box			
G/S,	MOVIEW	<u>w</u> A	- 1 98°	<b>&gt;</b> ~ _	elephone (59)	382-3000
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Certified Site Asse			2061N F	re, $q$	JA. P.E A	28128
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GRA	NOVIEW		989	7 .	Telephone (SO9) 9	982-3000
City		State	Zip Code			
	T	ank Informati	on			ition Present e of Closure
Tank ID /	Closure Date	Closure Method	Tank Capacity	Substance Store		
7_	10.601-41	REMOVAL	8,000 GAL	REG. GASOL		Unknown
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Ta page 100 of	1	44444				
To receive this docum	ent in an alternative f	ofmat, contact the TO	XICS CLEANUP PR	OGRAM at 1-800-826	-7716 (voke) OR (3 <mark>60</mark> )	407-6006 (TDD).

# APPENDIX C:

Field Notes

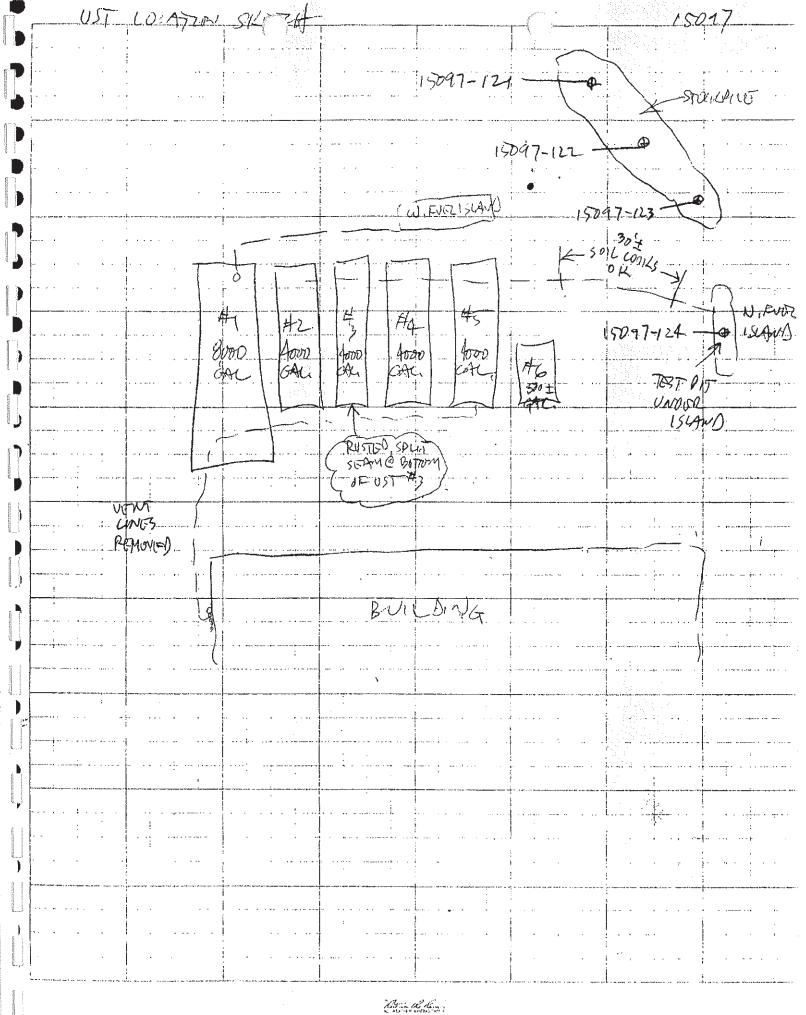
YAKINA VALLET HIGHWAY - DMW-5 STOULANGE 17047-127 15097-120 15097-124 15047-121 DMW-6 19097-12 15097-117 15017-109. 15017-106 15097-101 5847408 CONTIMI GREY SOIL @ PIPELING 15097-104 CHUSY JUL @4'-0" BRUKEN SENEZZ. DMW-Z OHERED WITH FOR PROPULT 5720PM 10-6-17 DYW-Z NOVIE -NO ODOR NOVE - PUTED OFUR IN WATER DM61-6 DMW-5 18"+ Oz SITURIK BOFFRE REMOVAL DRAGER CGI/OZ MISTOR 5 11.7 #1 11.4 6 MA 10.1 10,5 11.2 But a serie for a

COLATON MAP

15017 MATHUAS

Charles and the control of the contr	5 AMPLEX	LOCATOU	DOPA	MATRIX	ONDRES	1073
(Commence of the commence of t	15097-101	W, FUR 15 CAND	2 t	SOIL	463	GREY, OUT STREE
Francisco Control Cont	15097-102 11 - 103 11 - 104 11 - 105	W. WALC UST#1 S. 11 """ E "" """ BOTTOM UST#1	8'± 8'± 9'± 1012'	50)6	YES /	GALOY, OLD STILL
**************************************	15097-106 11 -107 11 -108	10. WALL UST.#2 E. " " " " BOTTOM UST#2	8't 8't 10 10 10 1	501L	YEZ	GUST, OLD SPICE
CONTRACTOR CONTRACTOR	15097-1 <b>09</b> 11 110 11 111	W, WALL UST #3 E, "1"" BOTTOM UST #3	8'± 8'± 10'	SOL		O CONTAM.
yah-wa-wa	113	W. WALL UST #4 EI " " " BUITOM UST #4	9'± 9'± 10'	SOIL	463	OCI) CONTIAN, OCD CONTIAN,
the comment was	11 116 6	J. WALL UST #5	の't の't 10'	GOIL	453	OLD CONDAM.
Anthropic Comments of the Comm	11 . 1151 B	1. WALL UST #6 0T 0ST #6	5'	SOIL	463	STRONG OLD GAS
Wayburt.	1947-120	N. FUELISCAND	2次七	SOIL	413	
	15097-121 15097-122 15097-123	STOCIEPLUE	3' 3'	501L 501L	453	W. GUO CONTENL G-GWD
WENNESS CONTRACTOR	15097-124	TEGT PIT#	<b>8</b> '土	WATER	Y 137	umbor N. FazzigiAnD

•	4 - F		
1. NO GROUNDWATER GOVED	UNTERED IN US	EXCAVATIONS	-NO SIGE Aladuar
2, OLD CONTAMINATION FO	UND UNDER WES	TFUEZ ISCANI	) ¿ ALON CO-
PIRING BALK TO 800	DOAL UST.		
3, WIGHT OF UST'S # 1,2	63 APPEAR TO BE	I constitution	BY WIFUEL
ISUAN LOTAIL (NOTE &			, a market of the second of th
4. B. OND OF UST #1,2	NOT SAD		
5. GIOVO DE UST # 7 -S	MING- GONTAM. O	DOR SPUTIN BO	TON OFUST
6. GREAT FOR TOP 2'+	ALL ANDAS A	LOUND UST # 4	-, 5, 6 CONDAMENTERS
-SMOUS LIKE CASOLIA	ITA BUT ROSSIBL	MIX	
7. N. FUR ISLAND CONTAM	MATTO - STRAM	16 GAFOLING (OL	1) anoze
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10. CIGIT'S ENCOURTED - AU	OK GREET	30 TON 5, 500 A	es#3
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# APPENDIX D:

Laboratory Analytical Documentation & Chain of Custody Documentation



October 16, 1997

Bill Goggin SGB Engineering & Environmental 1300 Stassen Way Grandview, WA 98930

Re:

Analytical Data for Project 15097 Laboratory Reference No. 9710-042

Dear Bill:

Enclosed are the analytical results and associated quality control data for samples submitted on October 9, 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,

David Baumeister Project Chemist

Enclosures

2

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-1

15097-101

10-042-2,3 COMP.

15097-102/106

Dilution Factor

250

Dilution Factor	250			1000			
	Result	Flags	PQL	Result	Flags	PQL	
Benzene	0.32		0.30	8.2		1.3	
Toluene	2.9		0.30	65		1.3	
Ethyl Benzene	2.1		0.30	31		1.3	
m,p-Xylene	12		0.30	140		1.3	
o-Xylene	4.5		0.30	54		1.3	
TPH-Gas	450		30	2800		130	
Surrogate Recovery: Fluorobenzene	~ · ·	S		ven	S		

3

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted: Date Analyzed:

10-09-97 10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-4

10597-103

10-042-5,6 COMP.

10597-104/107

Dilution Factor

50

	Result	Flags	PQL	Result	Flags	PQL	
Benzene	0.18		0.066	ND		0.063	
Toluene	ND		0,066	ND		0,063	
Ethyl Benzene	0.13		0.066	ND		0.063	
m,p-Xylene	0.50		0.066	0.096		0.063	
o-Xylene	0.26		0.066	ND		0.063	
TPH-Gas	16		6.6	6.8		6,3	
Surrogate Recovery: Fluorobenzene	103%			103%			

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID:

10-042-7 10597-105 10-042-8 10597-108

Dilution Factor

250

	Result	Flags	PQL	Result	Flags	PQL	
Benzene	4.1		0.31	3.1		0.067	
Toluene	ND	•	0.31	0.87		0.067	
Ethyl Benzene	0.94		0.31	0.24		0.067	
m,p-Xylene	3.3		0.31	0.93		0.067	
o-Xylene	1.5		0.31	0.41		0.067	
TPH-Gas	57		31	7.7		6.7	
Surrogate Recovery: Fluorobenzene	***	\$		88%			

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted:

10-09-97

Date Analyzed:

10-09&13-97

Matrix: Soil

Units; mg/Kg (ppm)

Lab ID: Client ID: 10-042-9,10 COMP.

10-042-11

15097-109/112

15097-110

Dilution Factor

1000

	, Min.					
	Result	Flags	PQL	Result	Flags	PQL
Benzene	33		1.2	27		1.3
Toluene	260	E	1.2	160	E	1.3
Ethyl Benzene	94		1.2	100		1.3
m,p-Xylene	350	E	1.2	490	E	1.3
o-Xylene	130		1.2	220	E	1.3
TPH-Gas	6800		120	14000	·	130
Surrogate Recovery: Fluorobenzene	•••	s		***	s	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted: Date Analyzed: 10-09-97 10-10-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-12

15097-111

10-042-13 15097-113

Dilution Factor

250

			,000			
	Result	Flags	PQL	Result	Flags	PQL
Benzene	3.3		0.32	79		1.2
Toluene	5.9		0.32	490	E	1,2
Ethyl Benzene	1.8		0.32	210	E	1.2
m,p-Xylene	9.7		0.32	610	E .	1.2
o-Xylene	4.6		0.32	290	E	1.2
TPH-Gas	620		32	15000		120
Surrogate Recovery: Fluorobenzene	to pt ay	S			s	

7

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted: Date Analyzed:

10-09-97 10-10-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID:

10-042-14 15097-114 10-042-15 15097-115

Dilution Factor

50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	ND		0.053	11		1.3
Toluene	0.12	,	0.053	120		1.3
Ethyl Benzene	ND		0.053	83		1.3
m.p-Xylene	0.23		0.053	460	E	1.3
o-Xylene	0.11		0.053	200	E	1.3
TPH-Gas	19		5.3	12000		130
Surrogate Recovery: Fluorobenzene	104%			***	s	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted: Date Analyzed:

10-09-97 10-10&13-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-16 15097-116 10-042-17 15097-117

Dilution Factor

1000

	Result	Flags	PQL	Result	Flags	PQL
Benzene	10		1.3	22		1.1
Toluene	100		1.3	240	E	1.1
Ethyl Benzene	4.8		1.3	96		1.1
m,p-Xylene	150	E	1.3	340	<b>E</b> * 1 * 4 *	1.1
o-Xylene	60		1.3	130		1.1
TPH-Gas	3500		130	7000		110
Surrogate Recovery: Fluorobenzene		S			S	

Date: 10/17/97 Time: 4:45:46 PM

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-G/BTEX

Date Extracted:

10-09-97

Date Analyzed:

10-10&13-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-18 15097-118

10-042-19 15097-119

Dilution Factor

250

	Result	Flags	PQL	Result	Flags	PQL
Benzene	10		0.32	0.70		0.062
Toluene	1,9		0.32	1.2		0.062
Ethyl Benzene	30		0.32	2.1		0.062
m,p-Xylene	99	D	1.3	6.8	D1.	0.31
o-Xylene	15		0.32	2.5		0.062
TPH-Gas	2000		32	170		6.2
Surrogate Recovery: Fluorobenzene	•••	S		104%		

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### **NWTPH-G/BTEX**

Date Extracted: Date Analyzed:

10-09-97 10-10&13-97

Matrix; Soil

Units: mg/Kg (ppm)

Lab ID: Client ID:

10-042-20 15097-120

10-042-21 15097-121

Dilution Factor

1000

	Result	Flags	PQL	Result	Flags	PQL
Benzene	6.4		1.3	ND		0.060
Toluene	47		1.3	0.10		0.060
Ethyl Benzene	24		1.3	0.079		0.060
m,p-Xylene	130		1.3	0.79		0.060
o-Xylene	51		1.3	0.52		0.060
TPH-Gas	2300		130	61		6.0
Surrogate Recovery: Fluorobenzene		S		104%		

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Trayeler: 10-042 Project: 15097

### NWTPH-G/BTEX

Date Extracted: Date Analyzed:

10-09-97 10-10&14-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: Client ID: 10-042-22 15097-122

10-024-23 15097-123

Dilution Factor

50

	Result	Flags	PQL	Result	Flags	PQL
Benzene	0.48		0.059	0.20		0.057
Toluene	0.28		0.059	0.32		0.057
Ethyl Benzene	0.65		0.059	0.48		0.057
m,p-Xylene	6.4		0.059	12	D1	0,28
o-Xylene	2.9		0.059	6.1		0,057
TPH-Gas	380		5.9	520		5,7
Surrogate Recovery: Fluorobenzene	99%			107%		

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

NWTPH-G/BTEX METHOD BLANK QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID:

MB1009S1

Dilution Factor

50

	Result	Flags	PQL
Benzene	ND		0.050
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	NO		5.0

Surrogate Recovery:

Fluorobenzene

106%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## NWTPH-G/BTEX METHOD BLANK QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID:

MB100982

Dilution Factor

50

	Result	Flags	PQL
Benzene	ND		0.050
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050
TPH-Gas	ND		5.0

Surrogate Recovery:

Fluorobenzene

120%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### **NWTPH-G/BTEX DUPLICATE QUALITY CONTROL**

Date Extracted: Date Analyzed:

10-09-97 10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID	10-042-14 Original	10-042-14 Duplicate	RPD
Dilution Factor	50	50	
Benzene	ND	ND	NA
Toluene	0.117	0.124	6.2
Ethyl Benzene	ND	ND	NA
m,p-Xylene	0.222	0.236	6.1
o-Xylene	0.0995	0.105	5.4
TPH-Gas	17.9	18,9	5.1
Surrogate Recovery: Fluorobenzene	104%	110%	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-G/BTEX **DUPLICATE QUALITY CONTROL**

Date Extracted: Date Analyzed:

10-09-97 10-10-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID	10-042-21 Original	10-042-21 Duplicate	RPD
Dilution Factor	50	50	
Benzene	ND	ND	NA
Toluene	0.0840	0.0845	0.59
Ethyl Benzene	0.0660	0.0695	5.2
m,p-Xylene	0.660	0.675	2.2
o-Xylene	0.433	0.443	2.2
TPH-Gas	51.0	53.1	3.9
Surrogate Recovery: Fluorobenzene	104%	106%	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX MS/MSD QUALITY CONTROL

Date Extracted: Date Analyzed:

10-09-97 10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID spiked @ 1 ppm	10-042-14 <b>MS</b>	Percent	10-042-14 <b>MSD</b>	Percent	
Dilution Factor	50	Recovery	50	Recovery	RPD
Benzene	0.905	91	0.910	91	0.55
Toluene	1.04	92	1.05	93	0.54
Ethyl Benzene	1.02	102	1.03	103	0.98
m,p-Xylene	1.14	92	1.16	93	1.6
o-Xylene	1.05	95	1.06	96	1.6

Surrogate Recovery:

Fluorobenzene 102%

102%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### NWTPH-G/BTEX

Date Extracted: 10-09-97 Date Analyzed: 10-09-97

Matrix: Water Units: ug/L (ppb)

Lab ID: 10-042-24 Client ID: 15097-124

Dilution Factor

1000

	Result	Flags	PQL
Benzene	15000		1000
Taluene	23000		1000
Ethyl Benzene	9700		1000
m,p-Xylene	38000		1000
o-Xylene	16000		1000
TPH-Gas	580000		100000

Surrogate Recovery:

Fluorobenzene

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## NWTPH-G/BTEX METHOD BLANK QUALITY CONTROL

Date Extracted: Date Analyzed:

10-09-97

Matrix: Water Units: ug/L (ppb)

Lab ID:

MB1009W1

10-09-97

Dilution Factor

Result	Flags	PQL
ND		1.0
ND		100
	ND ND ND ND	ND ND ND ND

Surrogate Recovery:

Fluorobenzene

Date: 10/17/97 Time: 4:59:50 PM

19

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-G/BTEX **DUPLICATE QUALITY CONTROL**

Date Extracted: Date Analyzed:

10-08-97 10-08-97

Matrix: Water Units: ug/L (ppb)

Lab ID:	10-037-1 <b>Ori</b> ginal	10-037-1 Duplicate	RPD
Dilution Factor	1	1	NI D
Benzene	ND	ND	ŅΑ
Toluene	ND	ND	NA
Ethyl Benzene	ND	ND	NA
m,p-Xylene	ND	ND	NA
o-Xylene	ND	ND	NA
TPH-Gas	ND	ND	NA
Surrogate Recovery: Fluorobenzene	96%	99%	

Date: 10/17/97 Time: 4:59:50 PM

20

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### **NWTPH-G/BTEX** MS/MSD QUALITY CONTROL

Date Extracted: Date Analyzed:

10-07-97 10-07-97

Matrix: Water Units: ug/L (ppb)

Lab ID	10-034-1		10-034-1		
spiked @ 50 ppb Dilution Factor	MS 1	Percent Recovery	MSD 1	Percent Recovery	RPD
Benzene	42.8	86	44.1	88	3.0
Toluene	45.5	91	47.2	94	3.7
Ethyl Benzene	46.5	93	48.4	97	4.0
m,p-Xylene	45.8	92	47.6	95	3.9
o-Xylene	45.2	90	46.9	94	3.7

Surrogate Recovery:

Fluorobenzene

98%

98%

21.

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-Dx

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

Client ID:	15097-101	15097-102,106	15097-10
Lab ID;	10-042-01	10-042-02,03 COMP	10-042-04
Dilution Factor:	1.0	1.0	1.0
Diesel Fuel C12-C24;	100	160	ND
PQL:	30	32	33
Oil C24-34:	340	ND	ND
PQL:	60	64	66
Surrogate Recovery:	135%	141%	83%
o-Terphenyl			
Flags	01	N1,O1	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

NWTPH-Dx

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

Flags

Client ID:	15097-104,107	15097-105	15097-108
Lab ID:	10-042-05,06 COMP	10-042-07	10-042-08
Dilution Factor:	1.0	1.0	1.0
Diesel Fuel C12-C24:	ND	ND	ND
PQL:	31	31	33
Oil C24-34:	ND	ND	ND
PQL:	63	62	67
Surrogate Recovery:	87%	93%	66%
o-Terphenyl			

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

NWTPH-Dx

Date Extracted: Date Analyzed:

10-09-97 10-10-97

Matrix:

Soil

Units:

Client ID:	15097-109,112	15097-110	15097-111
Lab ID:	10-042-09,10 COMP	10-042-11	10-042-12
Dilution Factor:	1.0	1.0	1,0
Diesel Fuel C12-C24:	270	310	ND
PQL:	29	32	32
Oil C24-34:	ND	77	69
PQL:	59	63	64
Surrogate Recovery:	93%	96%	79%
o-Terphenyl			
Flags	N1	N1	

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

# **NWTPH-Dx**

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Client ID;	15097-113	15097-114	15097-115
Lab ID:	10-042-13	10-042-14	10-042-15
Dilution Factor:	1.0	1.0	1.0
Diesel Fuel C12-C24:	1600	ND	580
PQL;		26	31
Oil C24-34:	1200	ND	ND
PQL:	62	53	63
Surrogate Recovery:		94%	76%
o-Terphenyl			

Flags

F,N1,O1

N1

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-Dx

Date Extracted: Date Analyzed:

10-09-97 10-10-97

Matrix:

Soil

Units:

Client ID:	15097-116	15097-117	15097-118
Lab ID:	10-042-16	10-042-17	10-042-18
Dilution Factor:	1.0	1.0	10
Diesel Fuel C12-C24:	450	490	3700
PQL:	31	28	320
Oil C24-34:	410	140	14000
PQL:	<b>63</b>	57	253
Surrogate Recovery:	97%	81%	
o-Terphenyl			
Flags	N1,01	N1,O1	S,01

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

NWTPH-Dx

Date Extracted: Date Analyzed:

10-09-97 10-10-97

Matrix:

Soil

Units:

Client ID:	15097-119	15097-120	15097-121
Lab ID:	10-042-19	10-042-20	10-042-21
Dilution Factor:	1.0	1.0	1.0
			· :
Diesel Fuel C12-C24:	200	31	41
PQL:	31	31	30
Oil C24-34:	970	ND	110
PQL:	62	63	60
Surrogate Recovery:	83%	57%	96%
o-Terphenyl			
Flags	01		01

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-Dx

Date Extracted: 10-09-97 Date Analyzed: 10-10-97

Matrix:

Soil

Units:

Client ID:	15097-122	15097-123
Lab ID:	10-042-22	10-042-23
Dilution Factor:	1.0	1.0
Diesel Fuel C12-C24:	130	77
PQL:	29	28
Oil G24-34:	280	130
PQL:	59	57
Surrogate Recovery:	90%	91%
o-Terphenyl		
Flags	<b>Q1</b>	01

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

**NWTPH-DX** METHOD BLANK QUALITY CONTROL

Date Extracted:

10-9-97

Date Analyzed:

10-9-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

MB1009S1

Dilution Factor:

1.0

Diesel Fuel C12-C24:

ND

PQL:

25

Surrogate Recovery:

143%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:

10-9-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

MB1009S2

Dilution Factor:

1.0

Diesel Fuel C12-C24:

ND

PQL:

25

Surrogate Recovery:

98%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## NWTPH-Dx **DUPLICATE QUALITY CONTROL**

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

10-042-01

10-042-01 DUP

Diesel Fuel C12-C24:

85.6

94.9

PQL:

25

25

RPD:

10

Surrogate Recovery:

135%

132%

31

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042

Project: 15097

### NWTPH-Dx **DUPLICATE QUALITY CONTROL**

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Lab ID:

10-042-13

10-042-13 DUP

Diesel Fuel C12-C24:

1290

1200

PQL:

25

25

RPD:

7.2

Surrogate Recovery:

o-Terphenyl

Flags:

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

# NWTPH-Dx SB/SBD QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Spike Level:

o-Terphenyl

100 ppm

Lab ID:	SB1009S1	SB1009S1 DUP
Diesel Fuel C12-C24:	72.2	90,5
PQL:	25	25
Percent Recovery:	72%	91%
RPD:	22.5	
Surrogate Recovery:	134%	150%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

#### **NWTPH-Dx** SB/SBD QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-10-97

Matrix:

Soil

Units:

mg/Kg (ppm)

Spike Level:

100 ppm

SB1009S2

SB1009S2 DUP

Diesel Fuel C12-C24:

86.4

84.3

PQL:

Lab ID:

25

25

Percent Recovery:

86%

84%

RPD:

2.5

Surrogate Recovery:

116%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## NWTPH-Dx

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix:

Water

Units:

mg/L (ppm)

Client ID:

15097-124

Lab ID:

10-042-24

Dilution Factor:

0.0201

Diesel Fuel C12-C24:

100

PQL:

0.50

Oil C24-C34:

20

PQL:

1.0

Surrogate Recovery:

o-Terphenyl

Flags

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

# NWTPH-Dx METHOD BLANK QUALITY CONTROL

Date Extracted:

10-9-97

Date Analyzed:

10-9-97

Matrix:

Water

Units:

mg/L (ppm)

Lab ID:

MB1009W1

Dilution Factor:

0.02

Diesel Fuel C12-C24:

ND

PQL:

0.5

Surrogate Recovery:

72%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## NWTPH-Dx **DUPLICATE QUALITY CONTROL**

Date Extracted: Date Analyzed:

10-09-97 10-09-97

Water

Matrix: Units:

mg/L (ppm)

10-042-24 Lab ID:

10-042-24 DUP

Diesel Fuel C12-C24;

104

75.4

PQL:

0.5

0.5

RPD:

32

Surrogate Recovery:

o-Terphenyl

Flags:

37

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

### NWTPH-Dx SB/SBD QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix:

Water

Units:

mg/L (ppm)

Spike Level:

2.0 ppm

Lab ID:	SB1009W1	SB1009W1 DUP
Diesel Fuel C12-C24:	1.62 0.5	1.84 0.5
Percent Recovery:	81%	92%
RPD:	13	
Surrogate Recovery:	103%	88%

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042

Project: 15097

WTPH 418.1

10-10-97 Date Extracted: 10-10-97 Date Analyzed:

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID Dilution Factor	Total Petroleum Hydrocarbons	Flags	PQL
10-042-18 100	29000		633
10-042-19 10	3200		62
	Factor 10-042-18 100	Factor Hydrocarbons 10-042-18 100 <b>29000</b>	Factor Hydrocarbons 10-042-18 100 29000

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

# WTPH 418.1 METHOD BLANK QUALITY CONTROL

10-10-97 Date Extracted: Date Analyzed: 10-10-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: MB1010S1

	Dilution Factor	Total Petroleum Hydrocarbons	Flags	PQL
Method Blank	5.0	ND		25

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

# WTPH 418.1 DUPLICATE QUALITY CONTROL

Date Extracted:

10-09-97

Date Analyzed:

10-09-97

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: 10-031-3

	Dilution Total Petroleum Factor Hydrocarbons	Flags	PQL
Sample Duplicate RPD	5.0 787 5.0 642 20		25 25

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

## WTPH 418.1 SB/SBD QUALITY CONTROL

Date Extracted: 10-09-97 10-09-97 Date Analyzed:

Matrix: Soil

Units: mg/Kg (ppm)

Lab ID: SB1009S1

Dilution Factor	Total Petroleum Hydrocarbons	Percent Recovery	Flags	PQL
Spike Blank @ 100 ppm 5.0 Spike Blank Duplicate 5.0 RPD	98.1 85.5 14	98 86		25 25

Date of Report: October 16, 1997 Samples Submitted: October 9, 1997 Lab Traveler: 10-042 Project: 15097

Date Analyzed: 10-9-97

## % MOISTURE

Client ID	Lab ID	% Moisture
15097-101	10-042-1	16
15097-102/106	10-042-2/3	22
15097-103	10-042-4	24
15097-104/107	10-042-5/6	20
15097-105	10-042-7	19
15097-108	10-042-8	25
15097-109/112	10-042-9/10	15
15097-110	10-042-11	21
15097-111	10-042-12	22
15097-113	10-042-13	19
15097-114	10-042-14	5.0
15097-115	10-042-15	20
15097-116	10-042-16	20
15097-117	10-042-17	12
15097-118	10-042-18	21
15097-119	10-042-19	19
15097-120	10-042-20	20
15097-121	10-042-21	16
15097-122	10-042-22	15
15097-123	10-042-23	12



#### **DATA QUALIFIERS AND ABBREVIATIONS**

- A Due to high sample concentration, amount spiked insufficient for meaningful MS/MSD data recovery.
- B The analyte indicated was also found in the blank sample.
- C The duplicate RPD outside control limits due to analyte concentration within five times the quantitation limit.
- D Data from 1:1000 dilution.
- D1 Data from 1:250 dilution,
- E Value reported exceeds the quantitation range. Value is an estimate.
- F Surrogate recovery data not available due to the high concentration in the sample.
- G Insufficient sample quantity for duplicate analysis.
- J The value reported was below the practical quantitation limit. The value is an estimate.
- K Sample duplicate RPD outside control limits due to sample inhomogeniety. Sample re-extracted and re-analyzed with similar results.
- L Quantitated from C7-C34 as diesel fuel #2.
- M Predominantly \_\_\_\_\_ range hydrocarbons present in the sample.
- N Hydrocarbons in the gasoline range (C7-toluene) present in the sample.
- N1 Hydrocarbons in the gasoline range (C7-toluene) present in the sample which are elevating the diesel result.
- O Hydrocarbons in the heavy oil range (>C24) present in the sample.
- O1 Hydrocarbons in the heavy oil range (>C24) present in the sample which are elevating the diesel result.
- R Hydrocarbons outside defined gasoline range present in the sample.
- S Surrogate recovery data not available due to the necessary dilution of the sample.
- T The sample chromatogram is not similar to a typical \_\_\_\_\_
- U Matrix Spike/Matrix Spike Duplicate RPD outside control limits due to matrix effects.
- V --Matrix Spike/Matrix Spike Duplicate recoveries outside control·limits due to matrix effects. ---
- Z Interferences were present which prevented the quantitation of the analyte below the detection limit reported.
- ND Not Detected
- MRL Method Reporting Limit
- PQL Practical Quantitation

Laboratory No.

Project Chemist:

# Chain of Custody

(Check One)

14924 NE 31st Circle • Redmond, WA 98052

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# Chain Of Custody

Project Chemist:

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14924 NE 318t Circle • Deditiona, WA 30032 Fax: (206) 885-4603 • Phone: (206) 883-3881	heumolia, WA 30032 hone: (206) 883-3881	(Check One)			h20/							
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# APPENDIX E:

Safety & Health Plan

# REVISED SAFETY AND HEALTH PLAN

# DOWNING CONSTRUCTION

ENGINEERING FIRM

SGB Engineering

JOB SITE

6th and Yakima Valley Highway

Sunnyside, Washington

DATE STARTED

August 15th, 1997

DURATION OF JOB

45 Days

SITE FOREMAN

Darrell Downing

NUMBER EMPLOYEES

SITE SECURITY

Install a 6 foot high chain link fence around the perimeter with Placards on all four sides, NO SMOKING with in 50 ft, HARDHAT AREA, AND CONSTRUCTION and gate to be locked during nonworking hours

SAFETY PROGRAM

A written Safety Program will be on Site at all times, and a site Safety Check List will be completed and on

site.

Written Safety Program

Available upon request

Site Safety check list

As follows: The following information is prepared to inform you of what is required on this job, any infractions will result in termination

according to Company Policy.

a. Hard Hats will be present on the job site at all times b. Hard Hats will be worn by all Employees engaged in

in the excavation work and where there is an over

head hazard.

c. At least short sleeve shirts and long pants will be worn during working hours and while at the job site.

d. All excavations will be protected by fencing

e. Excavation inspection will be conducted daily and

after every rain fall to ensure safe conditions. f.No Employee shall enter the excavation without approval of the Foreman. q.Adequate foot wear will also be worn.

# WORK SCHEDULE

- a. Install 6 ft fence around perimeter of site
- b. Remove canopy using scaffolding.
- c. Remove Concrete pad
- d. Remove tanks

## **TESTING**

All test will be done by SGB Engineering
Test will consist of monitoring for Oxygen
Deficiency, and for Flammable liquids
Records of the testing results will be available
at the job site (Ref 296-62-3070)

# PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment will be worn by all Employees exposed to Flammable liquids.

Respirators will be worn by all Employees exposed to the Flammable liquid fumes and these Employees will be monitored to ensure their Safety. The Backhoe operator will be wearing a half face canister type respirator and other exposed Employees will wear (Type 3M9920.) as spelled out in the Company Respirator Program.

Equipment for the face, hands, eyes, extremities will be available for use as required.

# **EXCAVATION**

This excavation will be under 20 feet in depth and no Engineering specifications are required. No Employees will be exposed to cave-ins as none will be required to enter the excavation except to connect the backhoe to the lifting devices on the tanks, which will be done by the use of a Wooden ladder(to prevent sparking)

# FIRST AID KITS AND CERTIFICATES

First Aid kits will be available at all times during construction and at least one(1) person holding a valid First Aid Certificate will be at the job site during working hours.

TANK REMOVAL

The following is required when the tanks are removed

1. The tanks must be inerted

2.All tanks must be cleaned

3.All sludge must be removed from the tanks

# LICENSE REQUIREMENTS

A certified IFEI commissoner is required on site (WAC173-360) during the above operations.

DOWNING CONSTRUCTION

SGB ENGINEERING

SAFETY CONSULTANT

The Dept of Ecology has reviewed this plan and is satisfactory

P/N 4594900

REV 4 **REVISION DATE 9/92** 



# MATERIAL SAFETY DATA SHEET:

Electrochemical Sensors containing Potassium Hydroxide Electrolyte

SECTION | Manufacturer: National Draeger, inc. 101 Technology Drive Pittsburgh, PA 15275 Address:

Chemirac Emergency Number: Telephone Number for Information: Fax Number:

(800) 424-9300 (412) 787-8389 (412) 787-2207

p. 2

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT:

Potassium Hydroxide

< 50%

CHEMICAL FORMULA:

KOH

CAS # 1310-58-3

EXPOSURE LIMITS: 2 mg/m³ OSHA Ceiling: 2 mg/m³ ACGIH Ceiling CERCLA RATINGS (SCALE 0-3): Health = 3 Fire = 0 Reactivity = 1 Persistence = 0

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:
MELTING POINT:
SPECIFIC GRAVITY (H,0 = 1):
PERCENT, VOLATILE BY VOLUME:
VAPOR PRESSURE:
VAPOR DENSITY:
SOLUBILITY IN WATER:
THERMAL DECOMPOSITION:
ADDEADANCE AND ODOR: -150°C < 40°°C ~1.5 >50%

Not Available Not Available infinitely soluble >400°C

APPEARANCE AND ODOR:

Coloriess, odorless, strong base liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Negligible fire hazard when exposed to heat or flame.

FLASH POINT:

Non-combustible

EXTINGUISHING MEDIA:

Use an extinguisher which is appropriate for surrounding fire.

SPECIAL FIRE

FIGHTING PROCEDURES:

Wear personal protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SECTION V - REACTIVITY DATA

Stable under ambient temperatures and pressure, exothermic reaction during dilution.

INCOMPATIBILIES:

Reacts with amphoteric metals such as aluminum and zinc to form flammable hydrogen gas. Reacts violently with strong acids. Reacts with unstable organic and inorganic

compounds.

**HAZARDOUS** DECOMPOSITION PRODUCTS:

Corrosive fumes of potassium oxide.

**HAZARDOUS** POLYMERIZATION:

Will not occur at ambient temperatures and pressures.

P/N 4594900

**REVISION DATE 9/92** REV 4



# MATERIAL SAFETY DATA SHEET:

Eisctrachemical Sensors containing Potassium Hydroxide Electrolyte

SECTION I Manufacturer:

Address:

National Drasger, Inc.

101 Technology Drive Pittsburgh, PA 15275

Chamtrac Emergency Number: Telaphone Number for Information:

Fax Number:

(800) 424-9300 (412) 787-8389 (412) 787-2207

SECTION IN HAZARDOUS INGREDIENT STIDENTITY INFORMATION

HAZARDOUS COMPONENT:

Potassium Hydroxide

< 50%

CHEMICAL FORMULA:

KOH

CAS # 1310-58-3

EXPOSURE LIMITS: 2 mg/m² OSHA Ceiling: 2 mg/m² ACGIH Ceiling CERCLA RATINGS (SCALE 0-3): Health = 3 Fire = 0 Reactivity

Health = 3 Fire = 0 Reactivity = 1

Persistence = 0

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BOILING POINT:
MELTING POINT:
SPECIFIC GRAVITY (H.O = 1);
PERCENT, VOLATILE BY VOLUME:
VAPOR PRESSURE:
VAPOR DESIGN.

VAPOR DENSITY: SOLUBILITY IN WATER:

THERMAL DECOMPOSITION: APPEARANCE AND ODOR:

-150°C <-40°C -1.5

>50% Not Available Not Available

infinitaly soluble >400°C

Coloriess, odoriess, strong base liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Negligible fire hazard when exposed to heat or flame,

FLASH POINT:

Non-combustible

EXTINGUISHING MEDIA:

Use an extinguisher which is appropriate for surrounding fire,

SPECIAL FIRE

FIGHTING PROCEDURES:

Wear personal protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

SECTION V - REACTI

Stable under ambient temperatures and pressure, exothermic reaction during dilution.

INCOMPATIBILIES:

Reacts with amphotoric metals such as aluminum and zinc to form flammable hydrogen gas. Reacts violently with strong acids. Reacts with unstable organic and inorganic compounds.

HAZARDOUS DECOMPOSITION

PRODUCTS:

Corrosive fumes of patessium oxide.

HAZAHDOUS

POLYMERIZATION:

Will not occur at ambient temperatures and pressures.

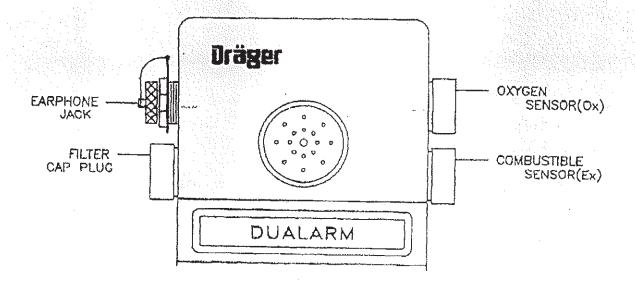
# DUALARM FILTER CAP PLUG INSTRUCTION SHEET

# General Description

The Dualarm filter cap plug permits the sampling adaptor accessory to be used with a Dualarm instrument.

# Attachment

The filter cap plug simply snaps into place on the Dualarm as shown.



National Dragger, Inc. 101 Technology Drive P.O. Box 120 Pitteburgh, PA 15230-0120 TELEPHONE: (412) 787-8383 CUSTOMER SERVICE TEL: (412) 787-8389 Mr. Robert Mathias September 23, 1997 Page 2

SECOR trusts that this provides sufficient information for your needs. Should you have any questions, please contact the undersigned at (425) 641-9900.

Sincerely,

**SECOR International Incorporated** 

Peter Jewett

Principal Project Manager

PJ:je

cc: Don Abbott/Washington State Department of Ecology

Angela Cote/Time Oil Mike Condon/Texaco Mike Whelan/ARCO

Bill Groggin/SGB Engineering

# Dräger

# SAMPLING ADAPTORS INSTRUCTION SHEET

General Description:
The sampling adaptors are optional accessories for the National Draeger series of multi-gas personal monitors. The sampling adaptors enable the user to sample gas from a remote location. Various regulations require These sampling adaptors enable the user to sample gas from a remote location and area to ensure it is safe before entering. These sampling adaptors safely pull an workers to sample gas from an area to ensure it is safe before entering. These sampling adaptors safely pull an air sample from a remote location (up to 50 ft (15 meters)) and pass it over the sensors of the instrument. National Draeger offers the sampling adaptors in two versions: a manual pump version and a battery pump version.

Both versions are attached to the back of the instrument (the side opposite the alarm horn) with the double sensor manifold on the left. Grasp the two sections of the adaptor and gently spread apart until it can fit past the sensor housings. Align the adaptor manifolds over the sensor housings and let the sections spring back together. Ensure that the adaptor manifolds are properly seated over the sensor housings by gently pushing the two sections together.

# Operations

A. Manual Fump:
Hook up the necessary length of tubing (P/N 4594707) and end piece (acrylic rod P/N 4594732 or floating proba
P/N 6802337) to the hand pump. Gently and steadily squeeze the hand pump at a rate of approximately thirty
P/N 6802337) to the hand pump. Gently and steadily squeeze the hand pump at a rate of approximately thirty
P/N 6802337) to the hand pump. Gently and steadily squeeze the hand pump at a rate of approximately thirty
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P/N 6802337) to the hand pump at a rate of approximately thirty
P/N 6802337) to the hand pump at a rate of approximately thirty inr each sample taken.

B. Battery Pump:
Hook up the necessary length of tubing (P/N 4594707) and end piece (acrylic roo P/N 4594732 or floating probe P/N 6802337) to the fitting on the pump module. Turn the pump on and sample for three (3) to five (5) minutes P/N 6802337) to the fitting on the pump module. Turn the pump on and sample for three (3) to five (6) minutes to flush the lines and get a stable reading. With the unit upright, check the low battery indicator and the flow indicator and the battery has indicator. Ensure there is gas flowing to the instrument (indicated by a bouncing ball) and the battery has sufficient charge (battery indicator-green). If the battery indicator is green and the flow indicator indicating ball flow, the unit will have a correct flow for the instrument. If the battery is charged, but the flow-indicating ball is not visibly bouncing:

Ensure that the ball can freely move.

Check the dust filters for damage that prevents proper sealing to the manifolds. Replace if necessary. Check the dust filters for damage that prevents proper sealing to the manifolds. Replace if necessary. Check if sensors are seated properly into their holders by removing the filters and looking for proper hits.

Check all plumbing.
If no visible problem is seen but a leak is still suspected, further troubleshooting will be necessary. Contact National Draeger Technical Service Department.

If the battery indicator is red, the battery is low and needs to be recharged. Turn the unit off and plug in battery charger for 14 to 16 hours. If the unit will not run for 8 to 10 hours, deep discharge the unit by leaving it on until the motor stops running. Recharge unit for at least 16 hours. If the unit still does not operate for 10 hours, it is defective. Heturn the unit to National Draeger for repair.

# CAUTION: DO NOT CHARGE UNIT IN A HAZARDOUS ENVIRONMENT!

# Sampling Adaptors

Remote Sampling Adaptor, manual pump, Dualarm/Trialarm Remote Sampling Adaptor, battery pump, Dualarm/Trialarm Remote Sampling Adaptor, battery pump, Quadalarm P/N 4509620 P/N 4509621 4509103

#### Accessories

Charger, 110V AC, US Version Charger, 220V AC, European Version Tubing Acrylic Rod Floating Probe

National Disease, Inc. 101 Yechnidoy Dilva, P.O. Box 120 Pittaburch, PA 18330-0120 TELEPHONE: 1012) 787-8383 CUSTOMER SERVICE 121: 10121 787-8388 15LEX: 10 0704 PAX: (412) 707-2207

P/N 4509269 P/N 4509268 P/N 4594707 P/N 4594732

SECTION III. SPECIFIC SITE INFORMATION	•
SPECIFIC TANK SYSTEM INFORMATION:  AGE: 18 YEARS ±  Age/Size/Capacity of Tanks and Piping: 1@ 8,000 GAL.  4@ 4,000 GAL.  Contents of Tank: GASOLINE  Other (Specify):	
TYPE OF SITE CHECK ALL APPROPRIATE:	
ActiveTSDF  InactiveR & D Facility  Industrial facilityMilitary base  Gas stationOther (Specify)	
RELEASE HISTORY	
No evidence of leaks or soil contamination ( )	
Suspected or known leaks and soil contamination	
Known groundwater contamination ( )	

그는 말병들 회원들이 가득 항상 가장 하는 수는 그리고 말하다.	ESCRIPTION OF ANY PRE			NGIDENGE:
BACKGROUND INFORM	MATION STATUS: 💢	COMPLETE	( )	INCOMPLETE
SECTION IV. POTEN	TIAL HEALTH AND SAFI	ETY HAZARDS		
ANTICIPATED PHYSIC	AL HAZARDS OF CONCE	IRN: (CHECK ALL	THAT APPL	Y AND DESCRIBE)
Heat (high ambient Cold Noise Oxygen depletion Asphyxiation	temp.)	X Heavy equipr X Physical in from movin	nent jury and tra g machinery	uma resulting r
Excavation Oave-ins Falls, trips, slipp	plng	General cons Physical ir Electrical i	ijury and tra	uma
X Handling and trans products	sfer of petroleum	Confined spa Explosions		
Explosions		Other (Speci	fy)	

ANTICIPATED BIG	DLOGICAL HAZARDS: (LIST BEL	_OW)	
Snakes Insects Rodents		Poisonous plants Cother NUNC	
NARRATIVE:	(Provide all information which of integrity of dikes, terrain, etc.)	could impact Health and	Safety e.g., power lines,
ANTICIPATED CH	HEMICAL HAZARDS: (LIST BELC TY DATA SHEETS-MSDS)	OW ALL CHEMICALS PR	ESENT ON SITE; ATTACH
	TACHED		
2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.			
4.			
5.			
6,			
7.			
8.			
9,			
10.			

# PART II

Section V should only be completed by persons with technical expertise in health and safety.

# SECTION V. EVALUATION OF POTENTIAL HAZARDS

# CHEMICALS OF CONCERN

Chemical Highest
Observable PEL/
Concentration (media) TLV

GASOUNG
OASOUNG

Symptoms/ Effects of Acute Exposure

DIZZINGSS, DROWSINGSS SKIN IANDATION

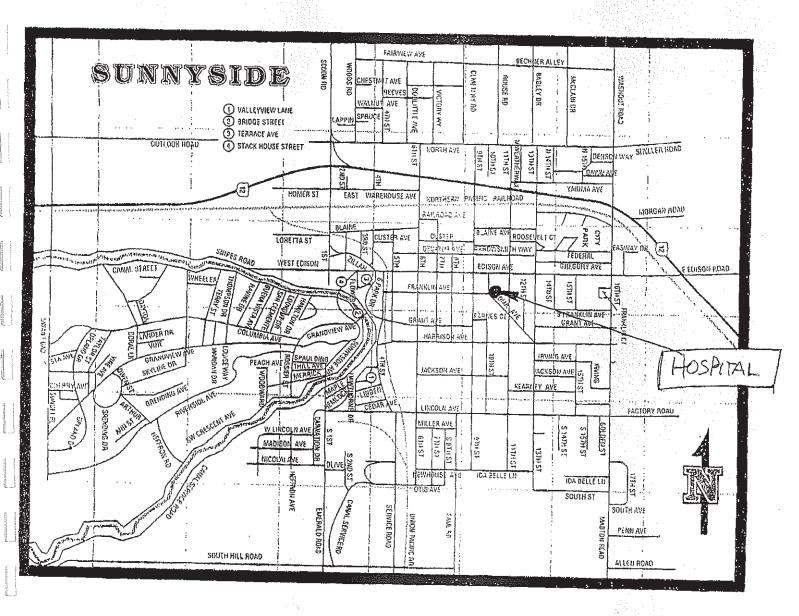
PART III		
Sections VI and VII should	be completed by the UST Inspector	prior to the site visit.
SECTION VI. METHODS	TO CONTROL POTENTIAL HEALTH A	ND SAFETY HAZARDS
MONITORING INSTRUMENT	TATION: (NOTE: MONITORING INSTR APPROPRIATE RATIONALE OR RESTR	UMENTS MUST BE USED FOR RICTIONS ARE PROVIDED).
Organic Vapor Anal		
Photoionization Det	ector	
Combustible Gas Ir	dicator (CGI)	
Xoxygen Meter		
Hydrogen Sulfide M	eter	
Detector Tubes (sp	ecify)	
Other, specify (toxi	gas, air sampling pumps, etc.)	
IF MONITORING INSTRUM ACTIVITY/AREA RESTRICT	ENTS ARE NOT USED, SPECIFY RATIONS.	DNALE OR JUSTIFICATION <u>OR</u>
ACTION LEVELS (breath	ng zone):	
Combustible Gas Indicat	or ·	
	olosion Hazard al Explosion Hazard; Notify Site Health	and Safety Officer
>25% LEI Explosi	on Hazard: Interrupt Task/Evacuate	

CTION LEVELS	(breathing zone): c	ontinued	
oxygen Meter			
<21.0% O <sub>2</sub> <21.0% O <sub>2</sub> <19.5% O <sub>2</sub>	Oxygen Normal Oxygen Deficient; No Oxygen Deficient; In	otify Site Health and Safety Officer terrupt Task/Evacuate	
Photolonization Detector ( ) ( ) ( ) ( )	Specify: 11.7 ev 10.2 ev 9.8 ev		
Flame ionization Detector Type:	Specify:		
Detector Tubes	Specify:		
Type Type Type			
PERSONAL PRO Minimum person  1. Hardhat 2. Safety glass 3. Steel toed/si 4. Flame retard	nal protective equipm es/goggles nank shoes or boots	olugs)	
ls additional PF	E required?	YES / NO	

HALF MASK RESPIRATORY

PERSONAL PROTECTIVE EQUIPMENT continued	
Check all additional necessary items:	
Uncoated tyvek coveralls  Saranex tyvek coveralls  Rubber boots Overboots Surgical (inner) gloves  Butyl/neoprene/viton/nitrile outer gloves  Vype of cartridge: off- type off	VAPINE.
VII. EMERGENCY INFORMATION	
Emergency Contact: ROGETR SCHWAB, FIRE CHIEF Fire/Rescue: 911 Ambulance: 911 Police: 911	
Hazardous Waste Material Response Units	
Health and Safety Director: ISD DOVGLAS	
Poison Control Center: MA	
On-site medical facility (clinic): YES /NO	
Facility health and safety officer: YES NO	
Name: (30 )006LAS  Phone number: (509) 698-3312	
Hospital Name and Address: SUNNYSIDE COMMUNITY HOSP	PIJAC
Directions to hospital (include a map):	
PART IV	
SECTION VIII. PLAN APPROVAL	
Plan prepared by: Sallary (Date)	9-25-97
Plan approved by:	
Plan approved by: (Date)	





# FIRE AND TRAFFIC PLAN

# DOWNING CONSTRUCTION (tank removal job)

- 1. The right turn lane of sixth street heading EAST and turning into the south bound lane of Yakima Valley Highway be coned off at approximately 200 ft from the corner and ending approximately 100 ft in the south bound right lane of Yakima Valley Highway.
- 2. Construction ahead sign(2) be placed 1000 ft from intersection of 6th and Yak Valley Hightway. Right lane closed ahead sign (3) placed 500ft from intersection of 6th and Yakima Valley highway. A Construction ahead sign (2) be placed 1000 ft north of intersection in the south bound lane of Yakima Valley Highway and a Merge Left sign or Right lane closed ahead sign (3) be placed 500ft from intersection of 6th of same lane.
- 3. Emergency Fire Equipment parking as indicated. Route to area by either of the three entrances into the store parking lot from 6th or the entrance from the south on Yakima Valley Highway. If nearer distance is required the use of the right turn lane of 6th will be clear.

All traffic controls are from the Uniform Traffic Control manual.

4. FLAGMAN. A flag person will be placed in the vicinity of the Fire Parking area to remove traffic cones or type 1 barricade when necessary to allow Fire Equipment access to contruction area if required.



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Range in %

#### TEXACO MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Name: 00364 PREMIUM UNLEADED GASOLINE

Chemical Name and/or Family or Description: Automotive Lead-Free Gasoline

Manufacturer's Name and Address: Texaco Refining and Marketing, Inc. P.O. Box 1404 Houston, TX 77251

Telaphone Numbers:

(914) 831-3400

CHEMTREC. (800) 424-9300

TRANSPORTATION EMERGENCY Company: (914) 83 HCALTH EMERGENCY Company: (914) 831-3400 GENERAL MSDS ASSISTANCE (914) 838-7204

TECHNICAL INFORMATION Fuels: (914) 838-7336; Lubricants/Antifreezes: (914) 838-7509 Chemicals: (512) 459-6543

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CHRONIC HAZARDS (CARCINOGENIC, TERATOGENIC, MUTAGENIC, NEUROTOXIC AND SENSITIZERS) ARE LISTED WHEN PRESENT AT 0.01% OR GREATER: ACUTE HAZARDS ARE LISTED WHEN PRESENT AT 1.0% OR GREATER AND NON-HAZARDOUS COMPONENTS ARE LISTED WHEN PRESENT AT 3.0% OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE.

OTHER. NONE OSHA TARC NTP X X <u>X</u> .

Product and/or Component(s) Carcinogenic According to:

Gasoline consists mainly of straight chain

and branched paraffinic hydrocarbons, ole-

zene content normally varies from 0.2-3.5% with a typical value of 1.4%. The MTBE con-

fins, cycloparaffins and aromatics. The ben-

Composition:

CAS No. Exposure Limit MIXTURE 300ppm TWA USHA 500ppm STEL OSHA

300 ppm TWA ACGIH. 100 ppm TWA Texaco

Product is hazardous according to OSHA (1910,1200).

Component(s) is hazardous according to OSHA or one or more state Right-to-Know laws.

3. HAZARD IDENTIFICATION

Chemical/Common Name

EMERGENCY OVERVIEW

tent varies from 0-15%.

Appearance and Odor: Light straw to light red liquid

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PRODUCT NAME: PREMIUM UNLEADED GASOLINE

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# 3. HAZARD IDENTIFICATION (CONT)

# WARNING STATEMENT

DANGER!

EXTREMELY FLAMMABLE LIQUID AND VAPOR

VAPOR MAY CAUSE FLASH FIRE

HARMFUL IF INHALED

MAY CAUSE DIZZINESS AND DROWSINESS MAY CAUSE EYE AND SKIN IRRITATION
MAY BE HARMFUL IF ABSORBED THROUGH SKIN

ASPIRATION HAZARD IF SWALLOWED -- CAN ENTER

LUNGS AND CAUSE DAMAGE

ATTENTION! POSSIBLE CANCER HAZARD MAY CAUSE CANCER BASED ON ANIMAL DATA

HMIS

NEPA

Health: Flammability:

Reactivity: 0 Health: Special: Flammability: 3

Reactivity:

Special:

POTENTIAL HEALTH EFFECTS

Primary Route of Exposure:

EYE SKIN INHALATION INGESTION Х X Х

Effects of Overexposure Acute

Eyes:

May cause irritation. experienced as mild discomfort and seen as slight

Skin:

Prolonged or Widespread skin contact may result in the absorption of potentially harmful amounts of material.

Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Inhalation:

vapors or mist may cause irritation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria or mist may cause in the constitution of mist may cause in the constitution, vomitting, dizziness, drowsiness, suphoria, loss of coordination. and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. Ingestion:

Ingestion:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, if more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage. Sensitization Properties:

Chronic:

No adverse effects anticipated.

Medical Conditions Aggravated by Exposure:

Medical Conditions Aggravated by exposure:

Because of its irritating properties, repeated skin contact may aggravate
an eviction denmatities (skin condition) Other Remarks:

Other Remarks:
This product contains benzene. Prolonged and repeated exposure to benzene has been associated with anemia and leukemia in humans. This product contains penzene. Prototiged and repeated has been associated with anemia and leukemia in humans.

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PRODUCT NAME: PREMIUM UNLEADED GASOLINE

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#### 4. FIRST AID MEASURES

#### Eves:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

#### Skin:

Wash skin with plenty of soap and water until all traces of material are removed. Remove and clear contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

#### Indestion:

If swallowed, get immediate medical attention. ONLY induce vomiting as directed by a doctor. Never give anything by mouth to an unconscious or convulsing person.

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention.

## Other Instructions:

NOTE TO PHYSICIAN: Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

## 5. FIRE-FIGHTING MEASURES

Ignition Temp. Degrees F.: 850 F Flash Point Degrees F. (Method): -40F (COC) Flammable Limits (%) Lower: 1.4% Upper: 7.5%

Recommended Fire Extinguishing Agents And Special Procedures:
According to NFPA Guide, use dry chemical, foam, or carbon dioxide. Water may be ineffective on flames, but should be used to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop the leak.

When handling, use non-sparking tools, ground and bond all containers.

# Unusual or Explosive Hazards:

Gasoline vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Flowing gasoline can generate static electricity and cause a fire explosion if a spark occurs in a flammable vapor-air atmosphere. When handling, use non-sparking tools, ground and bond all containers. Consult NFPA 77 for the proper handling precautions.

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6. ACCIDENTAL RELEASE MEASURES (Transportation Spills Call: CHEMTREC (800) 424-8300)

Procedures in Case of Accidental Release, Breakage or Leakage: Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapor. Wear selfcontained breathing apparatus. Avoid contact with skin, eyes or clothing. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Contain spill if possible. Remove with inert absorbent. Prevent entry into sewers and waterways.

#### 7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Transport, handle, and store in accordance with OSHA Regulation 1910, 106 and applicable DOT Regulations. Ground and bond shipping container. transfer line, and receiving container. Use spark-proof tools. Keep away from heat, sparks, flame and other sources of ignition. Material may be at elevated temperatures and/or pressures. Exercise due care when opening bloeders and sampling ports.

# B. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Protective Equipment (Type)

Eye/Face Protection:

Chemical-type goggles or face shield recommended to prevent eye contact.

## Skin Protection:

Gloves resistant to petroleum distillates are recommended to minimize skin contact. The most effective glove materials are Nitrile rubber. Teflon, or Viton for prolonged contact with gasoline. Protective clothing such as uniforms, coveralls, or boots should be also be worn where contact with product is likely. Launder or dry clean soiled clothes.

### Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. vapor, mist or dust is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined See below for applicable permissible concentrations,

## Ventilation:

Adequate to meet recommended occupational exposure limits (see below)

# Exposure Limit for Total Product:

The ACGIH TWA for gasoline is 300 ppm; OSHA TWA is 300 ppm, OSHA STEL is 500 ppm; Texaco recommends a TWA of 100 ppm.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Light straw to light red liquid

Boiling Point (Degrees F.): >90

Specific Gravity: 0.7-.77 (H2D=1) pH of undiluted product: N.A.

Vapor Pressure: 465-775 @ 100' Fmmhg

Viscosity: < 1.4 c5t @ 100F

Percent VDC: 100

Vapor Density: 3-4.0

Solubility in Water: slight

Air=1

Other: N.D.

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#### 10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If others is checked below, see comments for details) Water Heat Strong Oxidizers Others None of These Y

Comments: None

Products Evolved When Subjected to Heat or Combustion: Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

DCCUR DO NOT OCCUR

Hazardous Polymerizations:

X

#### 11. TOXICOLOGICAL INFORMATION.

TOXICOLOGICAL INFORMATION(ANIMAL TOXICITY DATA)

Median Lethal Dose (LD50 LC50) (Species)

believed to be > 5 g/kg (rat); practically non-toxic Orali

Inhalation: N.D.

believed to be > 3 g/kg (rabbit); practically non-toxic Dermal:

Irritation Index, Estimation of Irritation (Species)

believed to be >0.5-3/8.0 (rappit); slightly irritating Skin:

believed to be <15/110 (rabbit); no appreciable effect. Eves:

Sensitization: N.D.

Other:

Studies in laboratory rats and mice exposed to constant levels of wholly vaporized unleaded gasoline for six hours per day, five days per week for two years caused kidney damage and kidney cancer in male rats and liver tumors in female mice. Many scientists do not believe that the male rat is an appropriate predictor of human kidney disease and are not in agreement on the relationship between liver tumors in lacoratory animals and humans.

Prolonged and repeated exposure to benzene has caused anemia, lymphoma, and other cancers, in laboratory animals. Benzene has been shown to cause embryo/fetal toxicity and birth defects in jaboratory animals, but only at doses which cause maternal toxicity (i.e., illness in the mother).

MTBE has been shown to dause embryo/fetal toxicity and birth defects in mice, but only at maternally toxic doses. No developmental effects were seen in rabbits at the same exposure levels. Prolonged and repeated exposure to high levels of MTBE (8.000ppm for over 15 months) resulted in excess mortality (82%) in male rats. Preliminary evaluation showed a chronic progressive nephrosis (kidney damage) as the possible cause of

The Synthetic Organic Chemical Manufacturers Association (SOCMA), on behalf of members of the MTBE Committee, has filed 2 notices of substantial nisk under TSCA Section 8(e) concerning an 18 month oncogenicity study in mice. In male mice, prolonged and repeated exposure to high levels of MTBE vapor produced a higher than expected mortality due to uninary tract obstruction believed caused by physical non-neoplastic plockage of the unethral danal. In females, preliminary unaudited data indicate increased incidence of hepatocellular adenomas (benigh liver tumors). Similar effects at the same exposure levels have not been shown in rats. Although the significance of these findings is unclear, workers should minimize exposure to MTBE vapor.

Additional or repeat studies are planned or underway to better define the toxic potential of this product, or to verify the results obtained from: previous animal studies.

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## 12. DISPOSAL CONSIDERATIONS

#### WASTE DISPOSAL METHODS

This product (as presently constituted) has the RORA classification of pengene toxicity and ignitability. If discarded in its present form, it would have the hazardous waste numbers D018 and D001 respectively. Under RCRA . It is the responsibility of the user of the product to determine , at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may change the classification to non-hazardous, or hazardous for reasons other than, or in addition to benzene toxicity and ignitabilty.

REMARKS

None

# 13. TRANSPORT INFORMATION

TRANSPORTATION

DOT: PROPER SHIPPING NAME: Gasoline

HAZARD CLASS: Flammable liquid, UN 1203

IDENTIFICATION NUMBER N.D.

LABEL REQUIRED: N.D.

IMDG: PROPER SHIPPING NAME: N.D.

IATA: PROPER SHIPPING NAME: N.D.

TDG: PROPER SHIPPING NAME: N.D.

#### 14. REGULATORY INFORMATION

A. SARA TITLE III

Title III Section 302/304 Extremely Hazardous Substance; Component CAS No. Percent RO (1bs) TPO (1bs)

CERCLA Section 102(a) Hazardous Substance Component CAS No. Percent RQ (1bs) Cumene 98828 < 160 ppm

Title III Section 311 Hazard Categorization

Acute Chronic Fire Pressure Reactive Not Applicable

X.

Title III Section 313 Toxic Chemicals

Component	CAS No. Percent
Benzene	71432 1-3,99
Toluene	108883 4-10.99
Ethylbenzene	100414 1-3.99
Xylene	1330207 4-10.98
Pseudocumene	95636 1-3,99
Methyl tert-butyl ether	1634044 0-15(vo1%)

- B. WHMIS CLASSIFICATION NΑ
- C. MICHIGAN CRITICAL MATERIALS 1.4% benzene, toluene and xylene from 4-10.99% each.

#### 15. OTHER INFORMATION

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## THIS PRODUCT IS INTENDED FOR USE AS A MOTOR FUEL DNLY.

Texaco recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls procedures to avoid any potential adverse health effects.

Texaco has notified EPA of a TSCA 8(e) Notice of Substantial Risk to Health on the basis of results from a range finding developmental toxicity study for this product or a component of this product. A definitive developmental toxicity study is underway.

WARNING ! This product contains detectable amounts of benzene and toluene, which are known to the State of California to cause cancer and/or reproductive toxicity.

This product may be subject to export notification(s) under TSCA section 12(b); contains 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, cumene, and a C9 aromatic fraction.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILTLY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS. YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 06-25-92 Date Printed: 12-04-92 \_ New

X Revised, Supersedes: 05-02-91

Inquiries regarding MSDS should be directed to: Texaco Inc. Manager, Product Safety

P.O. Box 509 Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

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## 16. PRODUCT LABEL

# READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

00364 PREMIUM UNLEADED GASOLINE

DANGERI

WARNING STATEMENT EXTREMELY FLAMMABLE LIQUID AND VAPOR VAPOR MAY CAUSE FLASH FIRE HARMFUL IF INHALED MAY CAUSE DIZZINESS AND DROWSINESS . MAY CAUSE EYE AND SKIN IRRITATION MAY BE HARMFUL IF ABSORBED THROUGH SKIN ASPIRATION HAZARD IF SWALLOWED -- CAN ENTER LUNGS AND CAUSE DAMAGE

ATTENTION 1: POSSIBLE CANCER HAZARD MAY CAUSE CANCER BASED ON ANIMAL DATA

PRECAUTIONARY MEASURES

AVOID PROLONGED BREATHING OF MIST OR VAPOR AVOID CONTACT WITH EYES, SKIN, AND CLOTHING KEEP CONTAINER CLOSED USE WITH ADEQUATE VENTILATION NEVER SIPHON BY MOUTH WASH THOROUGHLY AFTER HANDLING KEEP AWAY FROM HEAT, SPARKS AND FLAME FIRST AID

INGESTION:

If swallowed, get immediate medical attention. ONLY induce vomiting as directed by a doctor. Never give anything by mouth to an unconscious or convulsing person,

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention,

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

SKIN CONTACT:

wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

NOTE TO PHYSICIAN:

Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

In case of fire, use foam, dry chemical, or CO2. Use water spray to keep containers cool,

Chemical/Common Name Gasoline consists mainly of straight chain and branched paraffinic hydrocarbons, olefins, cycloparaffins and aromatics. The benzene content normally varies from 0.2-3.5% with a typical value of 1.4%. The MTBE content varies from 0-15%.

CAS No. Range in % MIXTURE

Product is hazardous according to DSHA (1910.1200). Component(s) is hazardous according to QSHA or one or more state Right-to-Know laws.

HM15

Health : 2 Reactivity : 0. Flammability: 4 Special

National Fire Protection Association Health : 1 Reactivity : 0 Flammability: 3 Special

N.D. - Not Determined

Page: 8 N.A. - Not Applicable

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PRODUCT NAME: PREMIUM UNLEADED GASOLINE

Date Issued:

06/25/92 Supensedes: 05/02/91

## 16. PRODUCT LABEL (CONT)

DOT Proper Shipping Name: Gasoline

DOT Hazardous Class : Flammable liquid. UN 1203

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Manufacturer's Name: Texaco Refining and Marketing, Inc.

P.O. Box 1404 Houston, TX 77251

TRANSPORTATION EMERGENCY Company: (914) 831-3400

CHEMTREC: (800) 424-9300

HEALTH EMERGENCY Company: (914) 831-3400

P/N 4594900

**REVISION DATE 9/92 REV 4** 



# MATERIAL SAFETY DATA SHEET:

Electrochemical Sensors containing Potassium Hydroxide Electrolyte

SECTION I Manufacturer:

Address:

National Draeger, Inc. 101 Technology Drive Pittsburgh, PA 15275

Chemtrec Emergency Number: Telephone Number for Information: Fax Number:

(800) 424-9300 (412) 787-8389 (412) 787-2207

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT:

Potassium Hydroxide

< 50%

CHEMICAL FORMULA:

KOH

CAS # 1310-58-3

EXPOSURE LIMITS: 2 mg/m³ OSHA Ceiling; 2 mg/m³ ACGIH Ceiling CERCLA RATINGS (SCALE 0-3): Health = 3 Fire = 0 Reactivity = 1

Persistence = 0

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:

MELTING POINT:
SPECIFIC GRAVITY (H<sub>2</sub>O = 1):
PERCENT, VOLATILE BY VOLUME:
VAPOR PRESSURE:

VAPOR DENSITY: SOLUBILITY IN WATER: THERMAL DECOMPOSITION: APPEARANCE AND ODOR:

~150°C <-40°C --1.5

>50% Not Available Not Available

infinitely soluble

>400°C

Colorless, odorless, strong base liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DAT

Negligible fire hazard when exposed to heat or flame.

FLASH POINT:

Non-combustible

**EXTINGUISHING MEDIA:** 

Use an extinguisher which is appropriate for surrounding fire.

SPECIAL FIRE

FIGHTING PROCEDURES:

Wear personal protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND

**EXPLOSION HAZARDS:** 

None

SECTION V - REACTIVITY DATA STABILITY: Sta

Stable under ambient temperatures and pressure, exothermic reaction during dilution.

INCOMPATIBILIES:

Reacts with amphoteric metals such as aluminum and zinc to form flammable hydrogen gas. Reacts violently with strong acids. Reacts with unstable organic and inorganic

compounds.

**HAZARDOUS** DECOMPOSITION

PRODUCTS:

Corrosive fumes of potassium oxide.

**HAZARDOUS** 

POLYMERIZATION:

Will not occur at ambient temperatures and pressures.

P/N 4594900

**REVISION DATE 9/92 REV 4** 



# MATERIAL SAFETY DATA SHEET:

Electrochemical Sensors containing Potassium Hydroxide Electrolyte

SECTION I Manufacturer:

Address:

National Draeger, Inc. 101 Technology Drive

Pittsburgh, PA 15275

Chemtrec Emergency Number:

Telephone Number for Information: Fax Number:

(800) 424-9300 (412) 787-8389

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**HAZARDOUS COMPONENT:** 

Potassium Hydroxide

< 50%

CHEMICAL FORMULA:

KOH

CAS # 1310-58-3

EXPOSURE LIMITS:  $2 \text{ mg/m}^3$  OSHA Ceiling;  $2 \text{ mg/m}^3$  ACGIH Ceiling CERCLA RATINGS (SCALE 0-3): Health = 3 Fire = 0 Reactivity = 1 Persistence = 0

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:
MELTING POINT:
SPECIFIC GRAVITY (H,O=1):
PERCENT, VOLATILE BY VOLUME:
VAPOR PRESSURE:
VAPOR DENSITY:
SOLUBILITY IN WATER:
THERMAL DECOMPOSITION:
APPEARANCE AND ODOR:

-150°C <-40°C

~1.5

>50%

Not Available Not Available

infinitely acluble >400°C

Colorless, odorless, strong base liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Negligible fire hazard when exposed to heat or flame.

FLASH POINT:

Non-combustible

**EXTINGUISHING MEDIA:** 

Use an extinguisher which is appropriate for surrounding fire.

SPECIAL FIRE

FIGHTING PROCEDURES:

Wear personal protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND

EXPLOSION HAZARDS:

None

SECTION V - REACTIVITY DATA STABILITY: Sta

Stable under ambient temperatures and pressure, exothermic reaction during dilution.

INCOMPATIBILIES:

Reacts with amphoteric metals such as aluminum and zinc to form flammable hydrogen gas. Reacts violently with strong acids. Reacts with unatable organic and inorganic compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:

Corrosive fumes of potassium oxide.

**HAZARDOUS** 

POLYMERIZATION:

Will not occur at ambient temperatures and pressures.

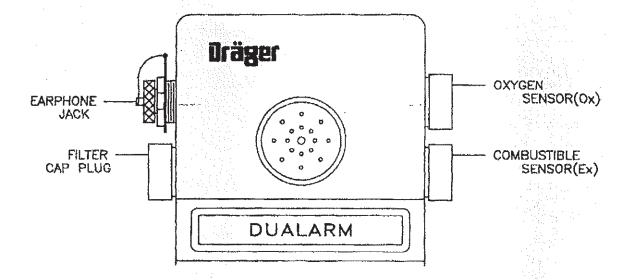
# DUALARM FILTER CAP PLUG INSTRUCTION SHEET

# **General Description**

The Dualarm filter cap plug permits the sampling adaptor accessory to be used with a Dualarm instrument.

# **Attachment**

The filter cap plug simply snaps into place on the Dualarm as shown.



National Draeger, Inc. 101 Technology Drive P.O. Box 120 Pittsburgh, PA 15230-0120 TELEPHONE: (412) 787-8383 CUSTOMER SERVICE TEL: (412) 787-8389

# Dräger

# SAMPLING ADAPTORS INSTRUCTION SHEET

General Description:
The sampling adaptors are optional accessories for the National Draeger series of multi-gas personal monitors. The sampling adaptors enable the user to sample gas from a remote location. Various regulations require These sampling adaptors enable the user to sample gas from a remote location. These sampling adaptors safely pull an workers to sample gas from an area to ensure it is safe before entering. These sampling adaptors safely pull an air sample from a remote location (up to 50 ft (15 meters)) and pass it over the sensors of the instrument. National Draeger offers the sampling adaptors in two versions: a manual pump version and a battery pump version.

Attachment:
Both versions are attached to the back of the instrument (the side opposite the alarm horn) with the double sensor manifold on the left. Grasp the two sections of the adaptor and gently spread apart until it can fit past the sensor housings. Align the adaptor manifolds over the sensor housings and let the sections spring back together. Ensure that the adaptor manifolds are properly seated over the sensor housings by gently pushing the two sections together.

## Operation:

A. Manual Pump:
Hook up the necessary length of tubing (P/N 4594707) and end piece (acrylic rod P/N 4594732 or floating probe P/N 6802337) to the hand pump. Gently and steadily squeeze the hand pump at a rate of approximately thirty P/N 6802337) to the hand pump. Gently and steadily squeeze the hand pump at a rate of approximately thirty (30) times per minute for three [3] to five (5) minutes. This will provide enough sample flow to flush out the top of the careful states. Continue pumping if a longer reading is desired. This procedure is to be followed too careful sample. for each sample taken,

B. Battery Pump:
Hook up the necessary length of tubing (P/N 4594707) and end piece (acrylic rod P/N 4594732 or floating probe Hook up the necessary length of tubing (P/N 4594707) and end piece (acrylic rod P/N 4594732 or floating probe P/N 6802337) to the fitting on the pump module. Turn the pump on and sample for three [3] to tive (5) minutes to flush the lines and get a stable reading. With the unit upright, check the low battery indicator and the flow indicator and the battery has indicator. Ensure there is gas flowing to the instrument (indicated by a bouncing ball) and the battery has sufficient charge (battery indicator-green). If the battery indicator is green and the flow indicator indicates gas sufficient will have a correct flow for the instrument. If the battery is charged, but the flow-indicating ball is not visibly bouncing:

Ensure that the ball can freely move.

Check adaptor alignment.

Check the dust filters for damage that prevents proper sealing to the manifolds. Replace if necessary. Check the dust filters for damage that prevents proper sealing to the manifolds. Replace if necessary. Check if sensors are seated properly into their holders by removing the filters and looking for proper fits.

Check all plumbing.
If no visible problem is seen but a leak is still suspected, further troubleshooting will be necessary. Contact National Draeger Technical Service Department.

If the battery indicator is red, the battery is low and needs to be recharged. Turn the unit off and plug in battery charger for 14 to 18 hours. If the unit will not run for 8 to 10 hours, deep discharge the unit by leaving it on until the motor stops running. Recharge unit for at least 16 hours. If the unit still does not operate for 10 hours, it is defective. Return the unit to National Draeger for repair.

# CAUTION: DO NOT CHARGE UNIT IN A HAZARDOUS ENVIRONMENT!

### Sampling Adaptors

Remote Sampling Adaptor, manual pump, Dualarm/Trialarm	P/N 4509620
Remote Sampling Adaptor, battery pump, Dualarm/Trialarm	P/N 4509621
Remote Sampling Adaptor, battery pump, Quadalarm	P/N 4509103

#### Accessories |

Charger, 110V AC, US Version Charger, 220V AC, European Version Tubing Acrylic Rod Floating Probe

National Drouger, Inc. 101 Technology Orles, P.O. Box 120 Pitteburgh, PA 16230-0120 TELEPHONE: [412] 797-8383 CUSTOMER SERVICE TEL: [412] 787-8389 TELEX: 88 8704 FAX: [412] 787-2207

P/N: 4509269 P/N 4509268 P/N 4594707 4594732 6802337

P/N 4609616

# APPENDIX F:

Site Safety Officer Report

# SITE PROGRAM AND PROCEDURES

SITE- 6th & GR Valley Huy Jungiside WA Ctank Homoval
DATE-10-6-97
FOREMAN-Daniel Daniel
CREW-The coind Tim Stouter Deputichnel
Face Konen John Wetleld of Hard
mike Hartley regest
Bill Gogging
W.J. ADAMS
The following information is prepared to inform you of what is required on this job., any infractions will result in termination according to Company Policy.  a. Hard hats will be present on the Job site at all times, b. Hard hats will be worn by all Employees engaged in the trenching/  operations. c. At least short sleeve shirts and long pants will be worn during working hours and while at the job site. d. All excavations will be protected by barricades or fences when left unattended when deeper then 4 foot. e. Excavation Inspections will be conducted daily and after every rain fall to ensure safe conditions. This Inspection will be recorded below. f. Employees exposed to vehicular traffic shall wear high visiblity vest. Insp Date  Time  Conducted by
1946/93 1950 Early Diving Stated Remarks Degan
Magnet are Eracul and

PERSON COMPLETING THIS SITE PROCEDURE

Title

Date Prepared.

MATHER TEXAS TEXAEL CONTROL PAN 10-6-47 Pringi MART Job Site CD Type I Barricede

# APPENDIX G:

MTCA Method A Action Levels for Petroleum Releases

Table 8-1. Action Levels for Petroleum Releases

	A SA		1995/1995
Indicator Constituent	CAS <u>Number</u> 1	Groun <b>dwater</b> Action <u>Level</u>	Soil Action <u>Level</u>
Benzene	71-43-2	1 μg/L <sup>2,4</sup>	0.5 mg/kg <sup>3</sup>
Ethylbenzene	100-41-4	30 μg/L	20 mg/kg
Toluene	108-88-3	40 μg/L	40 mg/kg
Xylene	1330-20-7	20 μg/L	20 mg/kg
TPH		1,000 μg/L	(j. 1941) (j. 1941)
TPH (gasoline)	4 화사 : 19 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	***	100 mg/kg
TPH (diesel) TPH (heavier			200 mg/kg
than diesel)			200 mg/kg
Lead	7439-92-1	5.0 µg/L	250 mg/kg

CAS number is the Chemical Abstracting Service number; "---" means no CAS number has been defined for these constituents.

µg/L can also be expressed as ppb.

mg/kg can also be expressed as ppm.

Groundwater quality based criteria (Chapter 173-200 WAC).

<sup>2</sup> 

<sup>3</sup> 

<sup>4</sup> 

# APPENDIX H:

SECOR Site Access Request



September 23, 1997

Mr. Robert Mathias 471 West Woodin Road Sunnyside, WA 98944

RE: ACCESS FOR FIELD OPERATIONS

UNDERGROUND STORAGE TANK DECOMMISSIONING

MATHIAS SITE

NORTH 6TH AND YAKIMA VALLEY HIGHWAY

SUNNYSIDE, WASHINGTON SECOR PN: 00600-002-08

Dear Mr. Mathias:

SECOR International Incorporated (SECOR) has prepared this letter on behalf of the ARCO, Texaco, and Time Oil (PLP Group) to confirm access to the Mathias site located on the southeast corner of North 6th Street and Yakima Valley Highway in Yakima, Washington during the decommissioning of the underground storage tanks (USTs). SECOR has been engaged by the PLP Group to assist with the preparation of the Corrective Action Plan (CAP) for remediation of the Manhole 34 Area (MH 34) as required by the Washington State Department of Ecology (Ecology). As part of the remediation process, Mr. Don Abbott, Project Manager at Ecology for the MH 34 Project, has requested that the PLP Group engage SECOR to observe the UST decommissioning at the Mathias site.

SECOR understands that you have engaged SGB Engineering to oversee the UST decommissioning. This letter has been prepared to confirm that SECOR will be on-site during the UST decommissioning. SECOR will conduct the following while on-site:

- Prepare a health and safety plan for SECOR personnel
- Observe the UST decommissioning
- Photograph and note visual observations
- Record field measurements collected by SGB Engineering
- Collect split samples of all samples collected by SGB Engineering

SECOR will not direct, oversee, or impede the UST decommissioning in any way. All work will be under the direction of SGB Engineering. The information obtained by SECOR will be available for you and/or SGB Engineering.