WRITTEN CONTAMINATION INCIDENT FOLLOW-UP REPORT (Page 1 of 2)

RETURNSOUTH DAKOTA DEPARTMENTCOMPLETEDGROUND WATER QUALITY PROFORMJOE FOSS BUILDINGTO523 EAST CAPITOL AVENUEPIERRE SD 57501-3182	OF ENVIRONMENT AND NATURAL RES OGRAM	SOURCES
SITE NAME: TransCanada Keystone Pipeline	- Ferney Pump Station	
SPILL LOCATION: 41461 144th Street, Andove	r, SD 57442	
LATITUDE/LONGITUDE:		
LEGAL LOCATION (TOWNSHIP/RANGE):	R059W S017	
RESPONSIBLE PARTY: TransCanada Keysto	one Pipeline, LP	
MAILING ADDRESS: 13710 FNB Parkway, Suite 3	0	
CITY: Omaha, NE 68154		
TELEPHONE:(H	OME)(402) 492-7300	(WORK)
DATE OF SPILL OR WHEN DETECTED:) am
QUANTITY RELEASED: 2 gallons		
CHEMICAL NAME: Canadian Sour Crude CAS# 8002.05.09	CAS #:	
IS SUBSTANCE ON THE "SARA 302 LIST"? "CERCLA HAZARDOUS SUBSTANCE LIST"? "SOUTH DAKOTA REGULATED SUBSTANC!	YES NO X DON'T KNO YES NO DON'T KNO YES NO DON'T KNO YES NO DON'T KNO	DW DW DW
CONSULTANT:		
IDENTIFY KNOWN HEALTH RISKS:		
WHAT PERTINENT MEDICAL ADVICE WAS IS	SUED? None Required	
LAND USE (RESIDENTIAL, INDUSTRIAL, RURAL, OT	IER):	
UTILITIES INVESTIGATED (WATER, SEWER, TELE Leak occurred in a rural setting within the boundaries of the pump station):

FOLLOW-UP REPORT CONTINUED

(Page 2 of 2)

DENR FILE #: 2,011.004

ENVIRONMENTAL MEDIA IMPACTED (SURFACE SOIL, SUBSURFACE SOIL > 3' BELOW GROUND, GROUND WATER, SURFACE WATER, INDOOR AIR, OUTDOOR AIR, ETC.): Oil sprayed on pump equipment in the immediate area of the seal leak, on concrete pump foundation, and snow adjacent to foundation.

DISTANCE TO AND NAME OF CLOSEST SURFACE WATER OR DRAINAGE:

Road ditch along County Rd. 22

DEPTH/DISTANCE TO AND NAME OF CLOSEST AQUIFER: Unknown

DEPTH/DISTANCE TO NEAREST DRINKING WATERWELL:

CUBIC YARDS OF SOIL EXCAVATED/TREATED: ____

WAS FREE PHASE OR POOLED PRODUCT PRESENT? Yes, limited to surface of pump, concrete pad, snow.

DIMENSIONS OF EXCAVATION: NA

CONTAMINATED MATERIALS DISPOSAL SITE: Two 55-gallon drums of oily absorbent / rags and snow

DATE MATERIAL WAS DISPOSED OF: Pending waste characterization results - scheduled for week of 02-14-2011.

IMMEDIATE CORRECTIVE ACTION TAKEN AND ADDITIONAL WORK PLANNED:

TransCanada technician, upon arrival onsite at 8:00am 01-05-2011, observed the indications of a seal leak. The pump was not operating

(was shutdown for no demand at 5:30am 01-05-2011). The technician closed associated suction and discharge valves and immediately

initiated remedial activities to contain and clean oil from the pump foundation using absorbent material. Also visually stained snow

around the foundation was shoveled up and drummed. A spill cleanup contractor was mobilized to the site to clean off the oiled

pump surface and adjacent piping using a non-hazardous citrus based cleaner. Pump and piping cleanup was concluded on 01-06-2011.

Photo 1 is provided as a reference, showing extent of the leak and oil stained equipment.

FORM COMPLETED BY:

Robert M. Baumgartner

February 2, 2011 DATE:





DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES

PMB 2020 JOE FOSS BUILDING 523 EAST CAPITOL PIERRE, SOUTH DAKOTA 57501-3182 www.state.sd.us/denr

March 9, 2011

Robert Baumgartner TransCanada Keystone Pipeline, LP 13710 FNB Parkway Omaha NE 68154

Subject: Closure of Department of Environment and Natural Resources File 2011.004 – TransCanada Keystone Pipeline – Ferney Pump Station

Dear Mr. Baumgartner,

The Department of Environment and Natural Resources reviewed all information submitted regarding the above referenced spill. The department has determined the case is closed.

On January 5, 2011, TransCanada staff noticed indications of a leaking seal at the Ferney Pump Station. In response to the two-gallon release, TransCanada staff isolated and stopped the leak and initiated cleanup activities. Six drums of oiled absorbents, rags and snow were collected and properly disposed of. There were no soil or water impacts resulting from the release.

The department has concluded based on the clean-up activities TransCanada conducted, this crude oil spill poses no risk at this time. Therefore, the department will not require TransCanada to take any additional action in this matter. If problems arise because of any remaining contamination, TransCanada may be responsible for conducting additional assessment and remediation.

Please contact Brian Walsh of my staff at (605) 773-3296, if you have any questions. Thank you for your efforts and cooperation regarding this spill.

Sincerely,

Bid Marily

Bill Markley, Administrator
Ground Water Quality Program
(605) 773-3296
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	safe	tu-kieen®		ORIGINAL IN	IVOICE	Page 1 of 1
		SAFETY-KLEEN SYSTEMS, INC 360 LEGACY DRIVE	Account Number	Invoice Number	Invoice Date	Terms
	F	2LANO, TX 75024 DUNS NO: 05-397-6551 FED ID NO: 39-6090019	0003276060	53273316	02/16/11	Net 30
BILL TO ADDRESS RANSCANADA KEYS ATTN ROBERT BAUMO		SERVICE LOCATION TRANSCANADA KEYSTON 41461 144TH ST	E PIPELINE LP	SK Service Facili BR SIOUX FALLS	ty Speci	al Billing Code # NS 001 56
717 TEXAS ST 10USTON, TX 77002-1	2761	ANDOVER, SD 57442		Facility Phone 605-332-0231	Service Date 02/14/2011	Service Numbe 0010014341
Department #	Department	Release #	Transporter	Manifest # 003826920fle	Tax Status/#	PO Number
QUANTITY	DESC./REFE	RENCE NUMBER		PRICE PER	SALES TAX	ITEM TOTAL
3.000	LANDFILL -NON	I-USDOT HAZ/NON-RCRA LIC 07-040465775-0875480	UIDS	197.0000 DR	35.46	626.46
3.000	LANDFILL -NON	-USDOT HAZ/NON-RCRA LIC 07-040465778-0875480	UIDS	197.0000 DR	35.46	626.46
1.000	FEE, FUEL SURC			12.2600 EA	0.74	13.00
4.000		AD 55GL - BLACK - USED 24-000000000-0000000		75.0000 EA	18.00	318.00
1.000	PROFILE, MANU 0000082100-2	IAL OR PAPER 24-000000000-0000000		0.0000 EA	0.00	0.00
	To Pary cit h. Bour			SUBTOTAL		1,494.26
Fe	INEY PUMP	57071 onl - 1-5 1222000	"-II LEAK MOD WASTE DISPOS	TOTAL TAX Total amount du	E	89.66 \$1,583.92

The leading provider of responsible cleaning, environmental and re-refining solutions.



Please detach and enclose this coupon with your payment.

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ensure that all payments are received by the invoice due date.

		Account Number	Invoice Number	Invoice Date	Service Number	
	SAFETY-KLEEN SYSTEMS, INC 5360 LEGACY DRIVE	0003276060	53273316	02/16/11	0010014341	
	PLANO, TX 75024	PLEASE RETURN THIS PORTION WITH PAYMENT. MAKE ANY ADDRESS CORRECTIONS BELOW.		Date Due	Amount Due]
fetų-kleen	6		· · · · · ·	03/18/11	\$1,583.92	

000532733160003276060700001583925

7514 0100 MULTI RP 17 02172011 YNNNNNN 0003478 51 T11 3478 1 MB 0.379

P00001-0000049

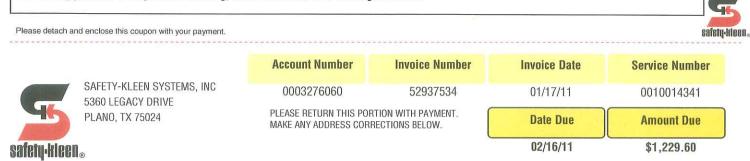
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		•Kleen®		ORIGINAL IN		Page 1 of 1
	5360 LI	Y-KLEEN SYSTEMS, INC EGACY DRIVE	Account Number	Invoice Number	Invoice Date	Terms
	DUNS	0, TX 75024 NO: 05-397-6551 NO: 39-6090019	0003276060	52937534	01/17/11	Net 30
BILL TO ADDRESS TRANSCANADA ATTN ROBERT BAUMGA	TR	RVICE LOCATION ANSCANADA KEYSTONE 461 144TH ST	PIPELINE LP	SK Service Facili BR SIOUX FALLS	ity Speci	al Billing Code # NS 001 56
13710 FNB PKWY STE 3 OMAHA, NE 68154-5298	800 AN	IDOVER, SD 57442		Facility Phone 605-332-0231	Service Date 01/17/2011	Service Number 0010014341
Department #	Department	Release #	Transporter	Manifest #	Tax Status/#	PO Number
QUANTITY	DESC./REFEREN	CE NUMBER		PRICE PER	SALES TAX	ITEM TOTAL
2.000	TCLP VOLATILE ORG			318.0000 EA	38.16	674.16
2.000	TCLP METALS (RCR. 0000870805-07-0	A 8) 00000000-0000000		228.0000 EA	27.36	483.36
2.000	FLASH/IGNITIBILITY 0000870813-07-0	(D001) 00000000-0000000		34.0000 EA	4.08	72.08
	OK Rolt	To poy M. Kot #	97209	SUBTOTAL TOTAL TAX TOTAL AMOUNT D	UE	1,160.00 69.60 \$1,229.60
	FORN	64 Pump SZOT	10N - 1/5/11	Seal LEAK -	WASTE CHURCH	ton Transit

Comments

Please be advised delinquent payments may result in a Late Payment Charge of \$25.00. To avoid a Late Payment Charge and service interruptions, please ensure that all payments are received by the invoice due date.

The leading provider of responsible cleaning, environmental and re-refining solutions.



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7518 OLOO MULTI RE 18 OL182011 YNNNNN ODDOO SI TE 30 1 AB 0.357

Customer #: 10014341 Analytical Part #:	WASTE M.		KLEEN AL PROFILE	<i>PROFILE</i> #: 40465778	<u>}</u>
Sales Name: Kevin Gjoraas Employee #: 43	6054 Rej	o Email:	kevin.gjoraas@safety-kleen.com	Location/Branch #: 7123 - BR Sioux Fa	alls
A. CUSTOMER INFORMATION			Check if Billi	ng Same	
Generator TRANSCANADA KEYSTONE PIPELINE			Billing Company		_
Facility Address (No P.O. Box) 41461 144TH ST			Billing Address		_
			City/State/Zip		-
City/State/Zip ANDOVER / SD / 57442		.	Billing Contact		_
Technical Contact BOB BAUMGARTNER			Phone	FAX	_
Phone 402-492-7464 FAX			Email		_
	G EPA III	# <u>CES</u>	QG	State ID#	-
B. SHIPPING INFORMATION US DOT Shipping Name			÷		
Hazardous Class/Division # UN/	NA #		Packing Group	RQ	
Size 55 - GALLONS Container Type STEEL		(Quantity 3	Frequency ONE-TIME ONLY	
C. GENERAL MATERIAL & REGULATORY INFORMA	TION				
Name of Material SPILL CLEAN UP - FERN 2					
Process Generating the Material SPILL CLEAN UP					
Yes No			No		
Regulated or Licensed Radioactive Waste		_		tituents of Concern: List in section D	:
Regulated Medical/Infectious Waste			Exempt Waste: If yes	, list ref. 40 CFR	
□ ✓ Waste Subject to Benzene NESHAP regulation	IS				
TSCA Regulated PCB Waste: List PCB level i	in section D		State Hazardous Wast	e: List Codes	:
Regulated Ozone Depleting Substance			EPA Hazardous Wast	e: List Codes	
CERCLA Regulated (Superfund) Waste		—	Code G Form Code V		
D. MATERIAL COMPOSITION (Range Total > or = 1	00%) or ppm		. REACTIVE CHARACTI		
WATER/SNOW	10 - 40%	1 I	es□ No☑ React. Sulfides		ve .
DEBRIS OIL	20 - 50%	1 1	res□ No⊡ React. Cyanides		i
KITTY LIFTER '	1 - 30%	1	es No√ Water/Air (Pyro		
OILY ABSORBENTS	20 - 40%		Elemental Constituents		
SAND/DIRT	1 - 30%		No detectable Elements		Ì
			e NR _{Cd} NR	Cr NR Pb NR Hg NR	-
	· · · ·	1	i NR Se NR	Ag NR TI NR V NR	-
				P Total Analysis Generator Knowledge (no restin	ne)
			. PHYSICAL CHARACTE		
		1	lash Point:	pH Range: □ <u><</u> 2	
·····			73-<100 100-14		n
· · · · · · · · · · · · · · · · · · ·			2 142-<200 □ ≥200	□ >10-<12.5 □ ≥12.	I
· · · · · · · · · · · · · · · · · · ·		#	Phases 2	% Liquid 10 - 30% Viscosity cps 30.001-50.000	
Supporting documentation attached Total:	100%	9	6 Sludge	% Solid 40 - 80% % Halogens	-
		E	TU's/lb: <5000	Specific Gravity: >1	-
G. COMMENTS					
TCLP ANALYTICAL ATTACHED					
Customer Restrictions: 🛄 Yes 🛄 No					
H. GENERATOR'S CERTIFICATION					
I hereby certify that I am an authorized agent of the generator, supplements hereto is complete and accurate, and that all kno discrepancy between the waste received and any information s accordance with the terms and conditions of the contract betw additional expenses incurred by Safety-Kleen in order to m responsibility of the generator, including the return of the mater	wn or suspecte upplied on this ween Safety-Kl anage the was	d hazard form, th een and te in acc	s of the material(s) describe at either Safety-Kleen or the the generator, that this profi- ordance with Federal, State	d herein have been disclosed. I agree that if there generator may initiate further testing and evaluation le certification may be amended accordingly, and	isa nin that
Generator Signature: X				NER - EH & S MANAGER Date: 2/4/2011	-

TestAmerica The leader in environmental testing

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 118305/FERN 2

SK, Cust: TRANSCANADA

Lot #: C1A170436

Safety-Kleen

Safety-Kleen Systems, Inc PO Box 7813 Ocala, FL 34478-7813

TESTAMERICA LABORATORIES, INC.

Rathryn I. Bort Project Manager

January 24, 2011

CASE NARRATIVE

Safety-Kleen

Lot # C1A170436

Sample Receiving:

TestAmerica's Pittsburgh laboratory received one sample on January 17, 2011. The sample was received at 2.6°C.

TCLP GC/MS Volatiles:

There were no problems associated with the analysis.

TCLP Metals:

There were no problems associated with the analysis.

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General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C1A170436

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Flashpoint at 140 degF Mercury in Liquid Waste (Manual Cold-Vapor) Trace Inductively Coupled Plasma (ICP) Metals Volatile Organics by GC/MS	SW846 1020B SW846 7470A SW846 6010B SW846 8260B	SW846 1311/7470 SW846 1311/3010 SW846 1311/5030

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References:

SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical	
	Methods", Third Edition, November 1986 and its updates.	

SAMPLE SUMMARY

C1A170436

WO # Si	Mbre#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MDD5F	001	FERN 2	01/12/11	15:00

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NOTE (S):

- The analytical results of the samples listed above are presented on the following pages.

- All calculations are performed before rounding to avoid round-off errors in calculated results.

- Results noted as "ND" were not detected at or above the stated limit.

- This report must not be reproduced, except in full, without the written approval of the laboratory.

· Results for the following parameters are neve: reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, cdor,

paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SK,Cust:TRANSCANADA

118305/FERN 2

Lab Name:	TESTAMERICA PITTSBURGH	Lot Number:	C1A170436
Client Name:	Safety-Kleen Systems, Inc.	Date Received:	1/17/2011
Matrix:	SOLID	Date Sampled:	1/12/2011

GC/MS Volatile Organics in TCLP Leachate

Client	Sample 1Dr FERN 2	Sample Nember	Analysis Dute	Method Reference	Reg Umit	MDL	Revolu
PA Wene F	Analyte	001			mg/L	mg/L	ng/L
D029	1,1-Dichloroethene	1 ×	1/20/2011	SW846 82808	0.7	0.043	<0.20
D028	1,2-Dichloroethane		1/20/2011	SW846 8260B	0.5	0.038	<0.20
D027	1,4-Dichlorobenzene		1/20/2011	SW846 8260B	7,5	0.021	<0.20
D018	Benzene	• ;	1/20/2011	SW846 8260B	0.5	0.040	<0.20
D019	Carbon tetrachtoride		1/20/2011	SW846 8260B	0.5	0.043	<0.20
D021	Chlorobenzene		1/20/2011	SW846 8260B	100	0.021	<0.20
D022	Chloroform		1/20/2011	SW846 8260B	6	0.040	<0.20
D035	Methyl ethyl ketone		1/20/2011	SW846 8260B	200	0.043	<0.20
D039	Tetrachloroethene	: :	1/20/2011	SW846 8260B	0.7	0.033	<0.20
D040	Trichloroethene	:	1/20/2011	SW846 82608	0.5	0.032	<0.20
D043	Vinyl chloride	;	1/20/2011	SW846 8260B	0.2	0.052	<0.20

SK,Cust:TRANSCANADA

118305/FERN 2

Lab Name:	TESTAMERICA P TTSBURGH	Lut Number:	C1A170436
('licat Name:	Safety-Kleen Systems, Inc.	Date Received:	1/17/2011
Matrix:	SOLID	Date Sampled:	1/12/2011

Metals in TCLP Leachate

Client S	Sample 'D: FERN 2	Semple Number	Anahras Dahr	Meiluni Reference	Reg Limit	MDL	Result
EPA Watte P	Analyte	001			mg/L	mg/L	mg/L
D009	Mercury		1/19/2011	SW846 7470A	0.2	0.000038	<0.00020
D004	Arsenic		1/20/2011	SW846 6010B	5	0.0022	0.81
D005	Barium		1/20/2011	SW846 60108	100	0.00050	0.31
D006	Cadmium		1/20/2011	SW848 6010B	1	0.00024	<0.050
D007	Chromium		1/20/2011	SW846 6010B	5	0.00084	<0.050
· D008	Lead		1/20/2011	SW846 6010B	5	0.0014	<0.050
D010 .	Selenium	· · · ·	1/20/2011	SW846 60108	1	0.0021	<0.050
D011	Silver		1/20/2011	SW846 6010B	5	0.00058	<0.050
				:			

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General Chemistry

Client Sumple ID: FERN 2	Sample Number	Analysis Date	Method Reference	Reg Limit	MOL	Result	
TPA Wasse F Artofysp	001			deg F	deg F	deg F	
D001 Flashpoint at 140 degF		1/18/2011	SW846 1020B			[:] >140	
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TESTAMERICA PITTSBURGH

Results by method

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SAFETY WASTE MATE Customer #: 10014341 Analytical Part #:	
Sales Name: Kevin Gjoraas Employee #: 436054 Rep Emai	II: kevin.gjoraas@safety-kleen.com Location/Branch ±: 7123 - BR Sioux Falls
A. CUSTOMER INFORMATION	Check if Billing Same
Generator TRANSCANADA KEYSTONE PIPELINE	Billing Company
Facility Address (No P.O. Box) 41461 144TH ST	Billing Address
	City/State/Zip
City/State/Zip ANDOVER / SD / 57442	Billing Contact
Technical Contact BOB BAUMGARTNER	Phone FAX
Phone 402-492-7464 FAX	Email
CESQG SQG LQG EPAID# CE	SQG State ID#
B. SHIPPING INFORMATION US DOT Shipping Name	· · · · · · · · · · · · · · · · · · ·
Hazardous Class/Division # UN/NA #	Packing Group RQ
Size 55 - GALLONS Container Type STEEL	Quantity 7 Frequency ONE-TIME ONLY
C. GENERAL MATERIAL & REGULATORY INFORMATION	
Name of Material SPILL CLEAN UP - FERN 1	
Process Generating the Material SPILL CLEAN UP	
Yes No Yes	No
Regulated or Licensed Radioactive Waste	Contains UHCs/Constituents of Concern: List in section D
Regulated Medical/Infectious Waste	Exempt Waste: If yes, list ref. 40 CFR
□ ✓ Waste Subject to Benzene NESHAP regulations	
TSCA Regulated PCB Waste: List PCB level in section D	State Hazardous Waste: List Codes
Regulated Ozone Depleting Substance	EPA Hazardous Waste: List Codes
CERCLA Regulated (Superfund) Waste Sourc	e Code G Form Code W
D. MATERIAL COMPOSITION (Range Total > or = 100%) or ppm	E. REACTIVE CHARACTERITSTICS Yes No Oxidizer
WATER/SNOW 10 - 40%	Yes No React. Sulfides ppm Yes No Shock/Explosive
DEBRIS OIL 20 - 50%	Yes No React. Cyanides ppm Yes No Polymerizable
PLASTIC BAGS 20 - 50%	Yes No Water/Air (Pyrophoric) React. Yes No Other-Comments
SAND/DIRT 10 - 30%	Elemental Constituents (ppm):
	No detectable Elements Sb NR As NR Ba NR
	Be <u>NR</u> Cd <u>NR</u> Cr <u>NR</u> Pb <u>NR</u> Hg <u>NR</u>
	Ni <u>NR</u> Se <u>NR</u> Ag <u>NR</u> TI <u>NR</u> V <u>NR</u>
	Metals Data based on: TCLP Total Analysis Generator Knowledge (no testing)
	F. PHYSICAL CHARACTERISTICS
	Flash Point: pH Range: □ ≤2
	☐ 73-<100 ☐ 100-141 ☐ >2-4 [] >4-10
· · ·	[7] 142-<200 □≥200 □>10-<12.5 □≥12.5
	# Phases 2 % Liquid 10-40% Viscosity cps 30.001-50.000
Supporting documentation attached Total: 100%	% Sludge % Solid <u>30 - 70%</u> % Halogens
	BTU's/lb: <5000 Specific Gravity: >1
G. COMMENTS	
TCLP ANALYTICAL ATTACHED	
Customer Restrictions: Ves No	
supplements hereto is complete and accurate, and that all known or suspected haza discrepancy between the waste received and any information supplied on this form, accordance with the terms and conditions of the contract between Safety-Kleen an additional expenses incurred by Safety-Kleen in order to manage the waste in a responsibility of the generator, including the return of the material to the generator at a	
Generator Signature: X Printed Nar	ne and Title: Date: 2/4/2011

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Rev: 10/02/09

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 118305/FERN 1

SK, Cust: TRANSCANADA

Lot #: C1A170446

Safety-Kleen

Safety-Kleen Systems, Inc PO Box 7813 Ocala, FL 34478-7813

TESTAMERICA LABORATORIES, INC.

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Project Manager

January 24, 2011

CASE NARRATIVE

Safety-Kleen

Lot # C1A170446

Sample Receiving:

TestAmerica's Pittsburgh laboratory received one sample on January 17, 2011. The sample was received at 2.6°C.

TCLP GC/MS Volatiles:

There were no problem's associated with the analysis.

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TCLP Metals:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C1A170446

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Flashpoint at 140 degF	SW846 1020B	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 1311/7470
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 1311/3010
Volatile Organics by GC/MS	SW846 8260B	SW846 1311/5030

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References:

SW846	"Test Met	hods for Eval	uating Solid Waste,	Physical/Chemical
	Methods",	Third Edition	n, November 1986 an	d its updates.

SAMPLE SUMMARY

C1A170446

WO # SAMPLE# CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MDD59 001 FERN 1	01/12/11	15:00
NOTE (S) :		

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- The analytical results of the samples listed above are presented on the following pages.

- All calculations are performed before rounding to avoid round-off errors in calculated results.

- Results noted as "ND" were not detected at or above the stated limit.

- This report raust not be reproduced, except in full, without the written approval of the laboratory.

- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, (dor,

paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SK,Cust:TRANSCANADA

118305/FERN 1

Lab Name:	TESTAMERICA PITTSBURGH	Lot Number:	C1A170446
Client Name:	Safety-Kleen Systems, Inc.	Date Received:	1/17/2011
Matrix	SOLID	Date Sampled:	1/12/2011

GC/MS Volatile Organics in TCLP Leachate

Clicat	Sample ID: FERN 1	1 Sample Number	Analysia Date	Method Reference	Reg Limit	MD).	- Recubi
LPA Wente S	Analyte	001		:	mg/L	mg/1,	mg/L
D029	1,1-Dichloroethene	:	1/20/2011	SW846 8260B	0.7	0.043	· <0.20
D028	1,2-Dichloroethane		1/20/2011	SW846 82608	0.5	0.038	<0.20
D027	1,4-Dichlorobenzene		1/20/2011	SW848 8260B	75	0.021	<0.20
D018	Benzene		1/20/2011	SW846 8260B	0.5	0.040	<0.20
D019	Carbon tetrachloride		1/20/2011	SW846 8260B	0.5	0.043	<0.20
Ð021	Chlorobenzene		1/20/2011	SW846 82608	100	0.021	<0.20
D022	Chloroform		1/20/2011	SW846 8260B	6	0.040	<0.20
D035	Methyl ethyl ketone		1/20/2011	SW846 8260B	200	0.043	<0.20
D039	Tetrachioroethene	<i>.</i>	1/20/2011	SW846 8260B	0.7	0.033	<0.20
D040	"richloroethene		1/20/2011	SW846 82608	0.5	0.032	<0.20
D043	Vinyl chloride		1/20/2011	SW846 8260B	0.2	0.052	<0.20
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TESTAMERICA PITTSBURGH

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Results by method

SK,Cust:TRANSCANADA

118305/FERN 1

Lab Namé:	TESTAMERICA PITTSBURGH	Lot Number:	C1A170446
Client Name:	Safety-Kleen Systems, Inc.	Date Received:	1/17/2011
Matrix:	SOLID	Date Sampled:	1/12/2011

Metals in TCLP Leachate

Citent So	MpH (D FERN 1	Sample Number	A tabyin Date	Method Reference	Rog Limir	MDL	Result
EPA Weste C	Analyte	001			mg/L	mg/L	mg/1.
D009	Mercury	:	1/19/2011	SW846 7470A	0.2	0.000038	<0.00020
D004	Arsenic		1/20/2011	SW846 6010B	5	0.0022	0.17
D005	Bərium	• • • •	1/20/2011	SW846 6010B	100	0.00050	⁶ 0.31
D006	Cadmium		1/20/2011	SW846 60108	1,	0.00024	<0.050
D007	Chromium		1/20/2011	SW846 50108	5	0.00084	<0.050
D008	Lead		1/20/2011	SW846 6010B	5	0.0014	´<0.050
D010	Selenium		1/20/2011	SW846 6010B	t - '	0.0021	<0.050
D011	Silver	•	1/20/2011	SW846 6010B	5	0.00058	<0.050
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General Chemistry

Cheat Sample 10: FERN 1	Sample Number	Analysiu Date	Method Reference	Rrg Linii	MDL	Result	
EPAWeek # Analyte	001			deg F	deg F	deg F	
D001 Flashpoint at 140 degF		1/18/2011	SW846 1020B	•	,	>140	
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<pre>Safety-Kleen Systems, Inc. Biggery Drive Biggery Driv</pre>	BRANCH 7123 CSG 2 jstroch, 02/14/11 13:02 PAGE								
COUSTONER# 1001431 TRANSCAUADA REYSTONE DIPELLINE SEPCINE SIZE SINCE DATE: 02/14/11 13:01 PRODUCT / SERVICE PERFUNCE NUMBER VARCHAGE ONDER# TAREFERENCE NUME. PRODUCT/SERVICES SERVICE TERM TARE PRODUCT/SERVICES SERVICE TERM 7 MEER PRODUCT / QTY UNIT PRICE TAR EXEMPTION NER PRODUCT NON USDOT HAZMAT, N 3.000 197.0000 35.46 62.46 OUT NON USDOT HAZMAT, N 3.000 197.0000 35.46 G20505645 CONTS: 102084065958 QTY.05 VERVICE TERM 202205645 CONTS: 10208406598 QTY.05 QUADEST X5007 10202665 QUADEST MAZMAT, N 3.000 197.0000 35.46 G20505665 CONTS: 10208406598 QTY.05	Safety-Kleen Systems, Inc.								
CUSTOMER# 10014341 TRANSCANADA KEYSTONE PIPELLINE 5327301 ANDOVER 5D 57442 SRVC DREK: 2011-8 SRVC WEK: 2011-8 PURCHASE ORDER# TAX EXAMPTION NAR PURCHASE ORDER# TAX EXAMPTION NAR SENZICE/ PRODUCT QTY UNIT PRICE TAX EXAMPTION NAR 9065775/ 875480 LANOF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 PROMON NER:0 SENZICE/ PROMON NER:0 TAX EXAMPTION NAR 3.000 197.0000 35.46 626.46 VISTOMEN NER:0 SENZICE TEMP / WELEY 003820920F1E FORM CD: US SK SHIP# 203205645 CNTF: 110204065959 QTY: 55 WT/AUL C PROFILE: 0404637755KUDT 202663 40465778/ 875400 LANOF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 975400 LANOF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 00155: 3 TSDE: 7407 MAUEESTRE: 003820920F1E FORM CD: US SK SHIP# 203205645 CNTF: 11020406598 QTY/AUL C PROFILE: 040457755KUDT 202863 CNTF: 11020406598 QTY/AUL C PROFILE: 040457755KUDT 202863 CNTF: 11020406598 QTY/AUL C PROFILE: 040457755KUDT 202863 CNTF: 11020406598<	Building 2, Suite 100 Plano, Texas 75024 800-669-5740	www.							
ANDOVER SD 57442 SRVC DATE: 02/14/11 13:01 PURCHASE ORDER# PRODUCT/SERVICES SERVICE/ PRODUCT/SERVICES SERVICE TRM PROPURTIES SERVICE TRM PARALPESTR: 00320920F1e FORM CD: US SK SHIP# 203205645 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657755K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657758K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657758K00T 202863 CNT#: 110208406596 QIY: 55 WT/V0L G PROFILE: 0404657758K00T 202863 S003369 DRUM,55 0.H. WT-USED SRVCCE TEMN 7 WEEK S003369 DRUM,55 0.H. WT-USED SRVCCE TEMN 7 WEEK S003369 DRUM,55 0.H. WT-USED SRVCCE TEMN 7 WEEK S003369 DRUM,55 0.H. WT-USED SRVCCE TEMN 22 WEEK S003369 DRUM,55 0.H. WT-USED SRVCCE TEMN 52 WEEK S003369 DRUM,55 0.H. WT-USED SRVCE TEMN 52 WEEK SRVCE TEMN 52	CUSTOMER# 10014341 TRANSCANADA KEYSTONE PIPELINE 53273316	-							
PRODUCT/SERVICES SERVICE / PRODUCT TOTAL CHARGE 40455775/ 875480 LANDF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 40455775/ 875480 CANDF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 9000000000000000000000000000000000000	ANDOVER SD 57442 SRVC DATE: 02/14/11 13:00 PHONE 402-492-7464								
PRODUCT QTY UNIT PRICE TAX CHARGE 40465775/ 875480 LANDF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 PROMO NRR: 0 * CONTS: 3 TSDF: 7407 MANLFESTE: 003820920F1e FORM CD: US SK SHIP# 203205045 CNTS: 110208406594 QTY: 55 WT/VOL G PROFILE: 0404657755KD07 202863 CNTS: 110208406594 QTY: 55 WT/VOL G PROFILE: 0404657755KD07 202863 40465778/ 875480 LANDF NON USDOT HAZMAT, N 3.000 197.0000 35.46 626.46 SERVICE TERM 7 WEEK PROMO NUR: 0 * WT/VOL G PROFILE: 0404657755KD07 202863 CNTS: 110208406598 QTY: 55 WT/VOL G PROFILE: 0404657785KD007 202863 CNTS: 110208406599 QTY: 55 WT/VOL G PROFILE: 0404657785KD007 202863 CNTS: 110208406599 QTY: 55 WT/VOL G PROFILE: 0404657785KD007 202863 QTY: 55 WT/VOL G PROFILE: 0404657785KD007 202863 CNTS: 110208406590 QTY: 55 WT/VOL G PROFILE: 0404657785KD007 202863 QTY: 55 QTY/VOL G PROFILE: 0404657785KD007 202863 QTY: 55 QTY/VOL G PROFILE: 0404657785KD007 202863 QTY: 55	PRODUCT/SERVICES	safet							
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CREDITS 0.00 TOTAL DUE 1583.92 UNPAID BALANCE THIS RECEIPT 1583.92 UNPAID BALANCE THIS RECEIPT 1583.92 GENERATOR STATUS 0 - 220 lbs/month Customer certifies that (i) the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation and (ii) no material change has occurred either in the characteristics of the waste/material or in the process generating the waste/material. Customer agrees to pay the above charges and to be bound by the terms and conditions (1) set forth in (a) the General Terms and Conditions provided separately to Customer's account for this transaction. Customer agrees to pay the above fincerporated herein by reference. Unless otherwise indicated in the payment received section, SK is authorized to charge Customer's account for this transaction. Customer certifies that the individual signing this Service Acknowledgement is duly authorized to sign and bind Customer. The following provision is applicable to Safety-Kleen's parts cleaner and paint gun cleaner services: Customer agrees to hintroduction is incidental to the normal use of the machine. Customer further agrees that it will not clean parts/paint guns that have been contaminated with or otherwise introduce polychlorinated biphenyls QCB's), herbicides, pesticides, dioxins or listed hazardous waste into the solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts									
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GENERATOR STATUS 0 - 220 lbs/month Customer certifies that (i) the above-named materials are properly classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and (ii) no material change has occurred either in the characteristics of the waste/material or in the process generating the waste/material. Customer agrees to pay the above charges and to be bound by the terms and conditions (1) set forth in (a) the General Terms and Conditions provided separately to Customer or (b) any SK agreement signed by Customer and SK, and (2) incorporated herein by reference. Unless otherwise indicated in the payment received section. SK is authorized to charge Customer's account for this transaction. Customer certifies that the individual signing this Service Acknowledgement is duly authorized to sign and bind Customer. The following provision is applicable to Safety-Kleen's parts cleaner and paint gun cleaner services: Customer agrees that it will not introduce any substance into the solvent or aqueous cleaning solution, including without limitation any hazardous waste or hazardous waste constituent, except to the extent such introduction is incidental to the normal use of the machine. Customer further agrees that it will not clean parts/paint guns that have been contaminated with or otherwise introduce polychlorinated biphenyls (PCB's), herbicides, pesticides, dioxins or listed hazardous waste into the solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts									
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solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts	classified, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and (ii) no material change has occurred	>							
solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts	generating the waste/material. Customer agrees to pay the above charges and to be bound by the terms and conditions (1) set forth in (a) the General Terms and Conditions provided separately to Customer or (b) any SK agreement signed by Customer and SK, and (2)	vw.saf							
solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts	payment received section, SK is authorized to charge Customer's account for this transaction. Customer certifies that the individual signing this Service Acknowledgement is duly authorized to sign and bind Customer. The following provision is applicable to Safety-Kleen's	// wv							
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solvent or aqueous cleaning solution. Safety-Kleen has the capacity and is permitted to accept, store, and/or reclaim the spent parts	incidental to the normal use of the machine. Customer further agrees that it will not clean parts/paint guns that have been contaminated	safety							
and is permitter to accept, solvents and paints the spent parts washer solvent; paint thinners, solvents and paints generated by customer; or dry cleaning filter cartridges, powder, and still residues containing perchloroethylene, petroleum naphtha, or triflurotrichloroethane dry cleaning solvents. Safety-Kleen and customer agree that this agreement is intended to satisfy the requirements of 40 CFR 262.20(e). IN THE EVENT OF AN EMERGENCY CALL 24 HR EMERGENCY # 1-800-468-1760 (Safety-Kleen Contract # 94138) X MACHANCE Customer / GENERATOR :Brad LAST PAGE	herbicides, pesticides, dioxins or listed hazardous waste into the solvent or aqueous cleaning solution. Safety-Kleen has the capacity								
Iters futures Status Organization Orga	washer solvent; paint thinners, solvents and paints generated by customer; or dry cleaning filter cartridges, powder, and still	m							
HR EMERGENCY # 1-300-468-1760 (Safety-Kleen Contract # 94138) X Duffer CUSTOMER / GENERATOR :Brad	triflurotrichloroethane dry cleaning solvents. Safety-Kleen and customer agree that this agreement is intended to satisfy the	n.co							
X Marganet CUSTOMER / GENERATOR : Brad		klee							
CUSTOMER / GENERATOR : Brad		->							
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	X Profession	// www.safety-							

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LAST PAGE

R		TETY-KI ATERIA	LEEN L PROFILE	PRO	FILE #: 40465778
Customer #: 10014341 Analytical Part #: Sales Name: Kevin Gjoraes Employee #: 436	3054 <i>Ba</i>	n Email: to	in.gjoraas@safety-kieer	mm Locati	an/Dromah H. 7192 DD Sigury Calla
A. CUSTOMER INFORMATION	1654 16	p contant. Ke	_	f Billing Same	on/Branch #: 7 <u>123 - BR Sioux Falls</u>
Generator TRANSCANADA KEYSTONE PIPELINE			Billing Company	y binning sume	
Facility Address (No P.O. Box) 41461 144TH ST			Billing Address	, <u></u> ,	
			City/State/Zip		
City/State/Zip ANDOVER / SD / 57442			Billing Contact		
Technical Contact BOB BAUMGARTNER	-		-		FAX
Phone 402-492-7464 FAX					
		# CESQ		State ID#	
B. SHIPPING INFORMATION US DOT Shipping Name			.		
Hazardous Class/Division # UN/N	IA #		Packing Group		RQ
Size 55 - GALLONS Container Type STEEL		Qu	antity <u>3</u>	Frequency	DNE-TIME ONLY
C. GENERAL MATERIAL & REGULATORY INFORMA	TION				
Name of Material SPILL CLEAN UP - FERN 2		· · · · · · · · · · · · · · · · · · ·			
Process Generating the Material SPILL CLEAN UP Yes No		Vec Y			
Yes No Regulated or Licensed Radioactive Waste		Yes No		Constituents of Concern	List in pattion D
Regulated Medical/Infectious Waste Regulated Medical/Infectious Waste					LIST IN SECTION D
			200000	2 yo, intro. 40 01 it	
Waste Subject to Benzene NESHAP regulations		·			
TSCA Regulated PCB Waste: List PCB level in	n section D			-	
Regulated Ozone Depleting Substance		0 0		Waste: List Codes	
CERCLA Regulated (Superfund) Waste		Source Cod	e G Form C	ode W	
D. MATERIAL COMPOSITION (Range Total > or = 1(WATER/SNOW	00%) or ppm 10 - 40%	3	EACTIVE CHAR	•	Yes No Oxidizer
DEBRIS OIL	20 - 50%			ides ppm	
KITTY LITTER	1 - 30%			nides ppm	· · · · · · · · · · · · · · · · · · ·
OILY ABSORBENTS	20 - 40%		No Vater/Air		Yes No Other-Comments
SAND/DIRT	1 - 30%		emental Constitu No detectable Elen		As NR Ba NR
		Be			Pb NR Hg NR
				IR Ag NR	TI NR V NR
					Generator Knowledge (no testing)
			HYSICAL CHARA		Service relevined to (out)
			Point:		pH Range: 🗍 😒
				0-141	□ >2-4 ☑ >4-10
			42-⊲200 □≥		□>10-<12.5 □≥12.5
		# Ph	ases 2	% Liquid 10-309	K Viscosity cps 30.001-50.005
Supporting documentation attached Total:	100%	% SI	udge	% Solid 4 <u>0 - 8</u>	0%% Halogens
· · · · · · · · · · · · · · · · · · ·		BTU	's/lb: <u><5000</u>	Specific Gravity:	<u>>1</u>
G. COMMENTS					
TCLP ANALYTICAL ATTACHED					
Customer Restrictions: 🖸 Yes 🗋 No			······		
H. GENERATOR'S CERTIFICATION I hereby certify that I am an authorized agent of the generator, as supplements hereto is complete and accurate, and that all know discrepancy between the waste received and any information sup accordance with the terms and conditions of the contract between the terms and conditions of the contract between the terms and conditions of the contract between terms are constructed to the terms and conditions of the contract between the terms and conditions of the contract between terms are constructed to the terms and conditions of the contract between terms are constructed to the terms and conditions of the contract between terms are constructed to the terms and conditions of the contract between terms are constructed to the terms are constructed to terms are constructed to terms are	n or suspected pplied on this :	i hazards of form, that e	the material(s) des ther Safety-Kleen o	ribed herein have been the generator may initi	disclosed. I agree that if there is a ate further testing and evaluation in
additional expenses incurred by Safety-Kleen in order to mar responsibility of the generator, including the return of the materia	hage the waste I to the general	e in accords tor at genera	ance with Federal, tor's expense. BOB BAUMO	State, and Local regula	tory requirements will be the sole
Generator Signature: X KEN_ M. BY	Printe	d Name and	Title:		Date: 2/4/2011
Rev: 10/02/09					

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Customer #: 10014341 Analytical Part #	WASTE N	FETY-KLEEN IATERIAL PROFILE	PROFILE #: 40465775
Sales Name: Kevin Gjoraas Employee #: 43		ep Email: kevin.gjoraas@salety-kleen.com	Location/Branch =: 7123 - BR Sioux Falls
A. CUSTOMER INFORMATION		Check if Bil	
Generator TRANSCANADA KEYSTONE PIPELIN	E	Billing Company	-
Facility Address (No P.O. Box) 41461 144TH ST		Billing Address	
		City/State/Zip	·····
City/State/Zip ANDOVER / SD / 57442		Billing Contact	
Technical Contact BOB BAUMGARTNER		Phone	FAX
Phone 402-492-7464 FAX		Email	
	QG EPA I	D# CESQG	State ID#
B. SHIPPING INFORMATION US DOT Shipping Name			
	'NA # ·	Packing Group	RQ
Size <u>55 - GALLONS</u> Container Type <u>STEEL</u>	-	Quantity 7	Frequency ONE-TIME ONLY
C. GENERAL MATERIAL & REGULATORY INFORMA	TION		
Name of Material SPILL CLEAN UP - FERN 1			
Process Generating the Material SPILL CLEAN UP			
Yes No Regulated or Licensed Radioactive Waste		Yes No	the set of Company that is a star to be
Regulated Medical/Infectious Waste Regulated Medical/Infectious Waste		Contains Uncs/Cons Exempt Waste: If yes	stituents of Concern: List in section D
			5, 151 161, 40 CFA
Waste Subject to Benzene NESHAP regulation			
TSCA Regulated PCB Waste: List PCB level	in section D	State Hazardous Was	te: List Codes
Regulated Ozone Depleting Substance		EPA Hazardous Was	
CERCLA Regulated (Superfund) Waste		Source Code G Form Code V	W
. MATERIAL COMPOSITION (Range Total > or =)			ERITSTICS Yes No Oxidizer
WATER/SNOW DEBRIS OIL	10 - 40%	Yes Nor Keact. Suindes	ppm Yes No Shock/Explosive
PLASTIC BAGS	20 - 50%	Yes No React. Cyanides	
SAND/DIRT	20 - 50%	Yes No Water/Air (Pyro	ophoric) React. Yes No Other-Comments
	10 - 3076	Elemental Constituents	
· · ·		No detectable Elements	······································
· · · · · · · · · · · · · · · · · · ·	<u> </u>	Be NR Cd NR	Cr_ <u>NR</u> Pb_ <u>NR</u> Hg_ <u>NR</u>
	ļ <u></u>	Ni <u>NR</u> Se <u>NR</u>	Ag_ <u>NR</u> TI_ <u>_NR</u> V_ <u>_NR</u> _
			P Total Analysis Generator Knowledge (no testing)
		F. PHYSICAL CHARACTE	RISTICS
		Flash Point:	pH Range: □ ≤2
-		□ 73-<100 □ 100-14	
······································		I 142-<200 □ ≥200	□>10-<12.5 □≥12.5
Supporting documentation attached Total:	100%	# Phases 2 % Sludge	% Liquid 10-40% Viscosity cps 30.001-50.000
Supporting documentation attached Total:		BTU's/ib: <5000	% Solid 3 <u>0 - 70%</u> % Halogens Specific Gravity: >1
		B10 \$10: \$5000	Specific Gravity: >1
COMMENTS			
Customer Restrictions: Yes No			
GENERATOR'S CERTIFICATION			
hereby certify that I am an authorized agent of the generator, a pplements hereto is complete and accurate, and that all know	and warrant on	behalf of the generator that the inform	nation supplied on this form and on any attachments or
iscrepancy between the waste received and any information su	polied on this	form, that either Safety-Kleen or the	senerator may initiate further testing and evaluation in
coordance with the terms and conditions of the contract betw Iditional expenses incurred by Safety-Kleen in order to ma	veen Safety-Kl	een and the generator, that this profil	le certification may be amended accordingly; and that
sponsibility of the generator, including the return of the materi	al to the genera	ator at generator's expense.	
enerator Signature: X K. D. M. B.	<u> </u>	ed Name and Title:	RTNER - EH & S MANAGER Date: 2/4/2011
Rev: 10/02/09			

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