TestAmerica (Sludge)

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-91557-1
Client Project/Site: Libman - Arcola

For:
Safety-Kleen Systems, Inc
500 West Anthony Drive
Urbana, Illinois 61801

Attn: Matt Smith

Authorized for release by:
2/4/2015 3:23:57 PM

Bonnie Stadelmann, Senior Project Manager
(708)534-5200
bonnie.stadelmann@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Job ID: 500-91557-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-91557-1

Comments
No additional comments.

Receipt
The sample was received on 1/30/2015 3:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.2° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Client Sample ID: LI 16081 **Lab Sample ID: 500-91557-1**

No Detections.

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This Detection Summary does not include radiochemical test results.

Method Summary

Client: Safety-Klean Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Method	Method Description	Protocol	Laboratory
6010B	TCLP Metals (ICP)	SW846	TAL CHI
7470A	TCLP Mercury	SW846	TAL CHI

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Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-91557-1	LI 16081	Waste	01/28/15 13:00	01/30/15 15:00

Client Sample Results

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Client Sample ID: LI 16081
Date Collected: 01/28/15 13:00
Date Received: 01/30/15 15:00

Lab Sample ID: 500-91557-1
Matrix: Waste

Method: 6010B - TCLP Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.25		mg/L		02/03/15 14:30	02/04/15 12:31	1
Barium	ND		2.5		mg/L		02/03/15 14:30	02/04/15 12:31	1
Cadmium	ND		0.025		mg/L		02/03/15 14:30	02/04/15 12:31	1
Chromium	ND		0.13		mg/L		02/03/15 14:30	02/04/15 12:31	1
Lead	ND		0.25		mg/L		02/03/15 14:30	02/04/15 12:31	1
Selenium	ND		0.25		mg/L		02/03/15 14:30	02/04/15 12:31	1
Silver	ND		0.13		mg/L		02/03/15 14:30	02/04/15 12:31	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/03/15 12:00	02/04/15 08:33	1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Metals

Leach Batch: 274308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-91557-1	LI 16081	TCLP	Waste	1311	
500-91557-1 DU	LI 16081	TCLP	Waste	1311	
500-91557-1 MS	LI 16081	TCLP	Waste	1311	
LB3 500-274308/1-C	Method Blank	TCLP	Waste	1311	
LB3 500-274308/1-E	Method Blank	TCLP	Waste	1311	

Prep Batch: 274422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-91557-1	LI 16081	TCLP	Waste	7470A	274308
LB3 500-274308/1-C	Method Blank	TCLP	Waste	7470A	274308
LCS 500-274422/13-A	Lab Control Sample	Total/NA	Waste	7470A	
MB 500-274422/12-A	Method Blank	Total/NA	Waste	7470A	

Prep Batch: 274487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-91557-1	LI 16081	TCLP	Waste	3010A	274308
500-91557-1 DU	LI 16081	TCLP	Waste	3010A	274308
500-91557-1 MS	LI 16081	TCLP	Waste	3010A	274308
LB3 500-274308/1-E	Method Blank	TCLP	Waste	3010A	274308
LCS 500-274487/2-A	Lab Control Sample	Total/NA	Waste	3010A	

Analysis Batch: 274619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-91557-1	LI 16081	TCLP	Waste	7470A	274422
LB3 500-274308/1-C	Method Blank	TCLP	Waste	7470A	274422
LCS 500-274422/13-A	Lab Control Sample	Total/NA	Waste	7470A	274422
MB 500-274422/12-A	Method Blank	Total/NA	Waste	7470A	274422

Analysis Batch: 274643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-91557-1	LI 16081	TCLP	Waste	6010B	274487
500-91557-1 DU	LI 16081	TCLP	Waste	6010B	274487
500-91557-1 MS	LI 16081	TCLP	Waste	6010B	274487
LB3 500-274308/1-E	Method Blank	TCLP	Waste	6010B	274487
LCS 500-274487/2-A	Lab Control Sample	Total/NA	Waste	6010B	274487

QC Sample Results

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Method: 6010B - TCLP Metals (ICP)

Lab Sample ID: LCS 500-274487/2-A
Matrix: Waste
Analysis Batch: 274643

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	2.00	1.79		mg/L		90	80 - 120
Cadmium	0.0500	0.0449		mg/L		90	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Lead	0.100	0.0968		mg/L		97	80 - 120
Selenium	0.100	0.0868		mg/L		87	80 - 120
Silver	0.0500	0.0461		mg/L		92	80 - 120

Lab Sample ID: LB3 500-274308/1-E
Matrix: Waste
Analysis Batch: 274643

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 274487

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.050		mg/L		02/03/15 14:30	02/04/15 12:22	1
Barium	ND		0.50		mg/L		02/03/15 14:30	02/04/15 12:22	1
Cadmium	ND		0.0050		mg/L		02/03/15 14:30	02/04/15 12:22	1
Chromium	ND		0.025		mg/L		02/03/15 14:30	02/04/15 12:22	1
Lead	ND		0.050		mg/L		02/03/15 14:30	02/04/15 12:22	1
Selenium	ND		0.050		mg/L		02/03/15 14:30	02/04/15 12:22	1
Silver	ND		0.025		mg/L		02/03/15 14:30	02/04/15 12:22	1

Lab Sample ID: 500-91557-1 MS
Matrix: Waste
Analysis Batch: 274643

Client Sample ID: LI 16081
Prep Type: TCLP
Prep Batch: 274487

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.500	0.543		mg/L		109	50 - 150
Barium	ND		10.0	10.2		mg/L		99	50 - 150
Cadmium	ND		0.250	0.236		mg/L		94	50 - 150
Chromium	ND		1.00	1.13		mg/L		101	50 - 150
Lead	ND		0.500	0.569		mg/L		108	50 - 150
Selenium	ND		0.500	0.466		mg/L		93	50 - 150
Silver	ND		0.250	0.194		mg/L		77	50 - 150

Lab Sample ID: 500-91557-1 DU
Matrix: Waste
Analysis Batch: 274643

Client Sample ID: LI 16081
Prep Type: TCLP
Prep Batch: 274487

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	ND		ND		mg/L		NC	20
Barium	ND		ND		mg/L		NC	20
Cadmium	ND		ND		mg/L		NC	20
Chromium	ND		ND		mg/L		NC	20
Lead	ND		ND		mg/L		NC	20
Selenium	ND		ND		mg/L		NC	20
Silver	ND		ND		mg/L		NC	20

QC Sample Results

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-274422/12-A
Matrix: Waste
Analysis Batch: 274619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 274422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/03/15 12:00	02/04/15 08:26	1

Lab Sample ID: LCS 500-274422/13-A
Matrix: Waste
Analysis Batch: 274619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 274422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00216		mg/L		108	80 - 120

Lab Sample ID: LB3 500-274308/1-C
Matrix: Waste
Analysis Batch: 274619

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 274422

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		02/03/15 12:00	02/04/15 08:29	1

Lab Chronicle

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Client Sample ID: LI 16081
Date Collected: 01/28/15 13:00
Date Received: 01/30/15 15:00

Lab Sample ID: 500-91557-1
Matrix: Waste

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			274308	01/31/15 12:00	CMV	TAL CHI
TCLP	Prep	3010A			274487	02/03/15 14:30	PJH	TAL CHI
TCLP	Analysis	6010B		1	274643	02/04/15 12:31	PJ1	TAL CHI
TCLP	Leach	1311			274308	01/31/15 12:00	CMV	TAL CHI
TCLP	Prep	7470A			274422	02/03/15 12:00	RLL	TAL CHI
TCLP	Analysis	7470A		1	274619	02/04/15 08:33	RLL	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: Safety-Kleen Systems, Inc
Project/Site: Libman - Arcola

TestAmerica Job ID: 500-91557-1

Laboratory: TestAmerica Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Waste	Mercury

500-91557 COC

safety-kleen

TestAmerica

SAMPLE CHAIN-OF-CUSTODY RECORD

500-91557

COLLECTION INFORMATION

SAMPLE ID #	GENERATOR NAME & SAMPLING LOCATION	DATE	TIME	DESCRIPTION OF SAMPLE	NO. OF CONTAINERS & SIZE	SIGNATURE OF COLLECTOR
LI 16081	LIBMAN - ARCOLA	1-28-15	1:00	PAINT LINE PIT	1 QT	Matt Smith

Was sample kept chilled until relinquished for shipment to lab? (Circle One) (yes) NO

If No, Explain:

ANALYSIS REQUEST (PLACE CHECKS BY TESTS REQUIRED)

___TCLP Volatiles (SPN 870807)
___TCLP Semivolatiles - Aq/solids (SPN 870808)
___TCLP Semivolatiles - Organics (SPN 870809)
X TCLP RCRA Metals (spn 870805)
___TCLP Pesticides (SPN 870810)
___TCLP Herbicides (SPN 870811)
___Biochemical Oxygen Demand (BOD) (SPN 870826)
___Chemical Oxygen Demand (COD) (SPN 870827)

Flashpoint/Ignitability for D001 (SPN 870813)
___Pensky Martins (Temp at Flash)
___SetaFlash (Screen @</>140)

___Total Metals RCRA 8 (SPN 870806)
___Total Cyanide for D003 (SPN 870814)
___Total Sulfide for D003 (SPN 870815)
___pH/Corrosivity for D002 (SPN 870812)
___Paint Filter (SPN 870821)
___Specific Gravity/Bulk Density (SPN 870818)
___PCBs (including wipes) (SPN 870820)
___BTEX (SPN 870819)
___Heat of Combustion (BTU) (SPN 870822)
___% Water by Karl Fischer (SPN 870823)
___Total Organic Carbon (TOC) (SPN 870824)
___Oil and Grease (HEM) (SPN 870816)

___Total Petroleum Hydrocarbons (TPH) (SPN 870817)
___Total Organic Halogens (TOX) (SPN 870825)
___Gasoline Range Organics (GRO) (SPN 870828)
___Diesel Range Organics (DRO) (SPN 870829)

Branch #: 503301
Branch Address: 500 W anthony Drive
Branch Fax 217-202-7211
Sales Specialist Name:Matt Smith
Sales Specialist Phone
Email Address: matt.smith@safety-kleen.com

ADDITIONAL TESTING REQUIREMENTS: 3 DAY TURN

SAMPLE TRANSFER RECORD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Matt Smith	1-29-15	3:30	[illegible]	1/30/15	1500

LAB USE ONLY

TEMPERATURE WHEN RECEIVED_____°C

SAMPLE KIT OPENED AND CHECKED IN BY_____AT____:____ON____/____/____

C.O.C. SEALS SIGNED, DATED, AND INTACT ON ALL SAMPLES JARS? YES_____ NO_____ IF NO, EXPLAIN:_____

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TCLP chain of custody, 7/11/07 2/4/2015

Login Sample Receipt Checklist

Client: Safety-Kleen Systems, Inc

Job Number: 500-91557-1

Login Number: 91557
List Number: 1
Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.2
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

safety-kleen. A Clean Harbors Company

WASTE MATERIAL PROFILE SHEET

Profile No. 3307149

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # *ILR000025270* GENERATOR NAME: *Libman Broom*

GENERATOR CODE (Assigned by Clean Harbors) *LI16081* CITY *Arcola* STATE/PROVINCE *IL* ZIP/POSTAL CODE *61910*

ADDRESS *220 N Sheldon St* PHONE: (217) 268-4200

CUSTOMER CODE (Assigned by Clean Harbors) *LI17434* CUSTOMER NAME: *Libman Broom*

ADDRESS *220 N Sheldon St* CITY *Arcola* STATE/PROVINCE *IL* ZIP/POSTAL CODE *61910*

B. WASTE DESCRIPTION

WASTE DESCRIPTION: *PAINT LINE PIT*

PROCESS GENERATING WASTE: **CLEANING PARTS**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 2 3

% BY VOLUME (Approx.)

TOP	*0.00*
MIDDLE	*0.00*
BOTTOM	*0.00*

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

varies

ODOR
- NONE
- [x] MILD
- STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- 1-9%
- >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
DIRT	0.0000000	--	60.0000000	%
OIL	0.0000000	--	1.0000000	%
OTHER	1.0000000	--	1.0000000	PPM
WATER	0.0000000	--	39.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES [x] NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. *G09* SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. *W319*

E. CONSTITUENTS

Are these values based on testing or knowledge? [✓] Knowledge Testing

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and or detailed process or operating procedures which generate the waste.

Knowledge of process chemistry or MSDS

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				[✓]
D005	BARIUM	100.0				[✓]
D006	CADMIUM	1.0				[✓]
D007	CHROMIUM	5.0				[✓]
D008	LEAD	5.0				[✓]
D009	MERCURY	0.2				[✓]
D010	SELENIUM	1.0				[✓]
D011	SILVER	5.0				[✓]

	VOLATILE COMPOUNDS	
D018	BENZENE	0.5
D019	CARBON TETRACHLORIDE	0.5
D021	CHLOROBENZENE	100.0
D022	CHLOROFORM	6.0
D028	1,2-DICHLOROETHANE	0.5
D029	1,1-DICHLOROETHYLENE	0.7
D035	METHYL ETHYL KETONE	200.0
D039	TETRACHLOROETHYLENE	0.7
D040	TRICHLOROETHYLENE	0.5
D043	VINYL CHLORIDE	0.2

	SEMI-VOLATILE COMPOUNDS	
D023	o-CRESOL	200.0
D024	m-CRESOL	200.0
D025	p-CRESOL	200.0
D026	CRESOL (TOTAL)	200.0
D027	1,4-DICHLOROBENZENE	7.5
D030	2,4-DINITROTOLUENE	0.13
D032	HEXACHLOROBENZENE	0.13
D033	HEXACHLOROBUTADIENE	0.5
D034	HEXACHLOROETHANE	3.0
D036	NITROBENZENE	2.0
D037	PENTACHLOROPHENOL	100.0
D038	PYRIDINE	5.0
D041	2,4,5-TRICHLOROPHENOL	400.0
D042	2,4,6-TRICHLOROPHENOL	2.0

	PESTICIDES AND HERBICIDES	
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.03
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			[✓]
CHLORINE			[✓]
FLUORINE			[✓]
IODINE			[✓]
SULFUR			[✓]
POTASSIUM			[✓]
SODIUM			[✓]
AMMONIA			[✓]
CYANIDE AMENABLE			[✓]
CYANIDE REACTIVE			[✓]
CYANIDE TOTAL			[✓]
SULFIDE REACTIVE			[✓]

HOCs

[✓] NONE

< 1000 PPM

>= 1000 PPM

PCBs

[✓] NONE

< 50 PPM

>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES [✓] NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES [✓] NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES	EXPLOSIVE	FUMING	OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	[✓] NONE OF THE ABOVE

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES ☑ NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(ii))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES ☑ NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES ☑ NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >=.3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES ☑ NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES ☑ NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES ☑ NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON DOT REGULATED

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY ☑ OTHER *varies'*

CONTAINERIZED

0-0 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:

CUBIC YARD BOX PALLET

TOTE TANK DRUM

OTHER:

DRUM SIZE: *0*

☑ **BULK LIQUID**

GALLONS/SHIPMENT: ***500.00 Min -500.00 Max*** GAL

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: *0 Min - 0 Max*

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge.I also certify that any samples submitted are representative of the actual waste.If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE

safety-kleen
A Clean Harbors Company

WASTE MATERIAL PROFILE SHEET

Profile No. 931747

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # *ILR000025270* GENERATOR NAME: *Libman Broom*

GENERATOR CODE (Assigned by Clean Harbors) *LI16081* CITY *Arcola* STATE/PROVINCE *IL* ZIP/POSTAL CODE *61910*

ADDRESS *220 N Sheldon St* PHONE: (217) 268-4200

CUSTOMER CODE (Assigned by Clean Harbors) *LI17434* CUSTOMER NAME: *Libman Broom*

ADDRESS *220 N Sheldon St* CITY *Arcola* STATE/PROVINCE *IL* ZIP/POSTAL CODE *61910*

B. WASTE DESCRIPTION

WASTE DESCRIPTION: *Powder paint line pit*

PROCESS GENERATING WASTE: **separator holding tank clean out**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- SOLID WITHOUT FREE LIQUID
- POWDER
- MONOLITHIC SOLID
- [x] LIQUID WITH NO SOLIDS
- LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- SLUDGE
- GAS/AEROSOL

NUMBER OF PHASES/LAYERS
[x] 1 2 3

% BY VOLUME (Approx.)

TOP	*0.00*
MIDDLE	*0.00*
BOTTOM	*0.00*

VISCOSITY (If liquid present)
- [x] 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR
grey

ODOR
- [x] NONE
- MILD
- STRONG

Describe:

BOILING POINT ºF (ºC)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- [x] >= 130 (>54)

MELTING POINT ºF (ºC)
- < 140 (<60)
- 140-200 (60-93)
- > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- 1-9%
- [x] >= 10%

FLASH POINT ºF (ºC)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- [x] > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- [x] 7 (Neutral)
- 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- [x] 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- > 20
- [x] Unknown

BTU/LB (MJ/kg)
- [x] < 2,000 (<4.6)
- 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	–	MAX	UOM
DIRT / FLOOR DUST	10.0000000	–	20.0000000	%
WATER	80.0000000	–	90.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. *G33* SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. *W113*

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0				☑
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑
	VOLATILE COMPOUNDS					
D018	BENZENE	0.5				
D019	CARBON TETRACHLORIDE	0.5				
D021	CHLOROBENZENE	100.0				
D022	CHLOROFORM	6.0				
D028	1,2-DICHLOROETHANE	0.5				
D029	1,1-DICHLOROETHYLENE	0.7				
D035	METHYL ETHYL KETONE	200.0				
D039	TETRACHLOROETHYLENE	0.7				
D040	TRICHLOROETHYLENE	0.5				
D043	VINYL CHLORIDE	0.2				
	SEMI-VOLATILE COMPOUNDS					
D023	o-CRESOL	200.0				
D024	m-CRESOL	200.0				
D025	p-CRESOL	200.0				
D026	CRESOL (TOTAL)	200.0				
D027	1,4-DICHLOROBENZENE	7.5				
D030	2,4-DINITROTOLUENE	0.13				
D032	HEXACHLOROBENZENE	0.13				
D033	HEXACHLOROBUTADIENE	0.5				
D034	HEXACHLOROETHANE	3.0				
D036	NITROBENZENE	2.0				
D037	PENTACHLOROPHENOL	100.0				
D038	PYRIDINE	5.0				
D041	2,4,5-TRICHLOROPHENOL	400.0				
D042	2,4,6-TRICHLOROPHENOL	2.0				
	PESTICIDES AND HERBICIDES					
D012	ENDRIN	0.02				
D013	LINDANE	0.4				
D014	METHOXYCHLOR	10.0				
D015	TOXAPHENE	0.5				
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D017	2,4,5-TP (SILVEX)	1.0				
D020	CHLORDANE	0.03				
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008				

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

☑ NONE
< 1000 PPM
>= 1000 PPM

PCBs

☑ NONE
< 50 PPM
>=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

YES ☑ NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES	EXPLOSIVE	FUMING	OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	☑ NONE OF THE ABOVE

safety-kleen. A Clean Harbors Company

Profile No. 931747

F. REGULATORY STATUS

YES ☑ NO USEPA HAZARDOUS WASTE?

YES ☑ NO DO ANY STATE WASTE CODES APPLY?

Texas Waste Code

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

YES ☑ NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?

LDR CATEGORY: ***Not subject to LDR***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES ☑ NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261:2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES ☑ NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

YES ☑ NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?

Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

NON-REGULATED LIQUID, POWDER PAINT LINE PIT

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY ☑ QUARTERLY YEARLY OTHER

CONTAINERIZED

0-0 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:

CUBIC YARD BOX PALLET

TOTE TANK DRUM

OTHER:

DRUM SIZE:

☑ **BULK LIQUID**

GALLONS/SHIPMENT: ***1000.00 Min -1500.00 Max*** GAL

BULK SOLID

SHIPMENT UOM: TON YARD

TONS/YARDS/SHIPMENT: ***0 Min - 0 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:
Please run for SKVS

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
	Mark Wetter	Safety	1-15-15