WASTE ANALYSIS DECISION

____ Initial ____ Renewal

APPROVAL SIGNATURES

Don Venturini		4/4/11
Laboratory - Print	Sign	Date
Zambia Logero		6-9-11
Safety - Print	Sign	Date
Vincent Wagaba		4/4/11
Environmental - Print	Sign	Date
Steve Lorah		6/9/11
Operations - Print	Sign	Date

COMMENTS

Type Text

____ Conditional Acceptance

Conditions for acceptance:

W331800
~~W288291~~
W330546

WASTE ANALYSIS RESULTS

Identification	Measured Value	Possible Waste Codes	Total Constituent Analysis	TCLP
A. ANIONS				
Bromide, PERCENT	<0.1			
Chloride, PERCENT	0.2			
Fluoride, PERCENT	<0.1			
Iodine, PERCENT	<0.1			
Sulfur, PERCENT	1.6			
Sulfides, PPM	>20			
Cyanides, PPM	<20			
B. METALS				
			SOLID Mg/Kg	LIQUID Mg/l
Antimony, PPM	<50			
Arsenic, PPM	66	D004 ARSENIC	100	5.0
Barium, PPM	222	D005 BARIUM	2000	100
Beryllium, PPM	<5			
Cadmium, PPM	<1	D006 CADMIUM	20	1.0
Calcium, PPM	25969			
Chromium, PPM	66	D007 CHROMIUM	100	5.0
Copper, PPM	447			
Lead, PPM	137	D008 LEAD	100	5.0
Lithium, PPM	547			
Mercury, PPM	7.3	D009 MERCURY	4	0.2
Nickel, PPM	73			
Phosphorous, PPM	3734			
Potassium, PPM	1364			
Selenium, PPM	<1	D010 SELENIUM	20	1.0
Silver, PPM	<5	D011 SILVER	100	5.0
Sodium, PPM	1144			
Thallium, PPM	<10			
Zinc, PPM	<50			
C. PHYSICAL PROPERTIES				
Flashpoint, DEGREES F	NA			
Btu/lb, BTU/LB	5200			
Water, PERCENT	9			
Viscosity, CENTIPOISE	NA			
Ash, PERCENT	71.5			
Density, G/ML	<			
pH, STD. UNITS	NA			
Settleable Solids, PERCENT	<10			
PCB Total, PPM	NA			
Paint Filter	PAS			
D. REACTIVITY				
Water	NO			
Acid	NO			
Alkali	NO			
Oxidizers, PPM	<100			
E. FREONS				
Dichlorodifluoromethane				
Trichlorofluoromethane				
Bromoform				

GENERATOR INFORMATION

Name: TOLEDO REFINING COMPANY LLC

Address (site): 1819 WOODVILLE ROAD OREGON, OH 43616 UNITED STATES

Address (mail): Same

US EPA ID: OHD005046511

Regulatory Status: LARGE QUANTITY

Technical Contact: STEVE SHELT **Phone:** (419)697-6493

Short Name: SIOO

WASTESTREAM INFORMATION - GENERAL

Common Name: BUNDLE SOLIDS

Waste Class: 000 - GENERAL STORAGE

Generating Process: CLEANING SOLIDS FROM TUBE BUNDLES FROM REFINERY OP

EPA Source Code: G09 - OTHER PRODUCTION OR SERVICE-RELATED PROCESSES...

EPA Form Code: W409 - OTHER ORGANIC SOLIDS (SPECIFY IN COMMENTS)

Physical State @ 70F: SOLID

Odor: NONE

Estimated Annual Volume: 1000 LBS

Conditional Approval?: N

MANAGEMENT SYSTEM ASSIGNMENTS

Product Code - Desc		Put Away Area		Cont Type
8034	SOLIDS REFINERY BULK	A	GENERAL STORAGE	CM
8080	PUSHER DRUM	A	GENERAL STORAGE	CM, DF, DM

EPA HAZARD CODES

K050, F037, F038

SAFETY INFORMATION

HMIS Information	Description
HEALTH	3* - SERIOUS HAZARD-CARCINOGEN
FLAMMABLE	1 - SLIGHT HAZARD
REACTIVE	0 - MINIMAL HAZARD
PPE	J2 - OV SUPER CART-NEOPRENE

* = Carcinogen
@ = Water Reactive

COMMENTS

Type	Text
ER	EMERGENCY RESPONSE TO A HAZARDOUS SOLID PPE-K6
PE	TYVEK SUIT

ER - EMERGENCY RESPONSE
PE - PROTECTIVE EQUIPMENT

TRANSPORTATION INFORMATION

Shipping Description: RQ,NA3077,HAZARDOUS WASTE, SOLID, N.O.S.,9,PGIII,(BENZENE),(F037 F038),ERG#171

HERITAGE-WTI SURVEY RESPONSES

Question	Reply	Question	Reply
Asbestos	NO	Dioxins, Furans, or pre-cursors	NO
Explosive	NO	Gas	NO
Infectious Agents	NO	Radioactive	NO
Is this a dust hazard ?	NO	Air Reactive	NO
Water Reactive	NO	Carcinogen	YES
Lab Pack	NO	Oxidizer	NO
PCBs ? (If Yes, specify range)	NO	Pyrophoric	NO
Shock Sensitive	NO	Strong Odor	NO
Does WS Contain Benzene?	YES	Does WS Contain Water>=10%	NO
Is WS subject to control requirements of 40CFR61.340 to 61.358 ?	YES	If this is a liquid are there multiple layers ?	N/A
Is the waste pumpable ?	NO	Will heat improve the flow ?	NO
Will solids pass through a 1/8-inch screen ?	NO	Flash Point	>=200
Boiling Point	>100	pH	>2 to <12.5
BTU/lb	<3000	Miscellaneous Special Waste	NO

CHEMICAL CONSTITUENTS

Using specific chemical names, list all constituents present in the wastestream. Attach available analyses or Material Safety Data Sheets (MSDSs). **Total composition must equal or exceed 100%.**

TYPE - GENERATOR

Constituents	Range	Units	CAS#	EHS
ARSENIC	0.024 - 0.024	MG/L	7440-38-2	
BARIUM	0.26 - 0.26	MG/L	7440-39-3	
BENZENE	0 - .5	PERCENT	71-43-2	
CADMIUM	0.02 - 0.02	MG/L	7440-43-9	
CHROMIUM	0.02 - 0.02	MG/L	7440-47-3	
FREE LIQUID RANGE	0 - 0	PERCENT		
LEAD	0.1 - 0.1	MG/L	7439-92-1	
MERCURY	0.0005 - 0.0005	MG/L	7439-97-6	
PPE	1 - 2	PERCENT		
SELENIUM	0.1 - 0.1	MG/L	7782-49-2	
SILVER	0.02 - 0.02	MG/L	7440-22-4	
TUBE BUNDLE SOLIDS FROM TUBE CLEANING	96 - 98	PERCENT		
VACUUM HOSE	1 - 2	PERCENT		

EHS - Extremely Hazardous Substance
CAS - Chemical Abstracts Service

CERTIFICATION

I hereby certify that all information submitted herein and attached contains true, accurate and complete descriptions of this waste. Any sample submitted for analysis is representative of the waste material being offered for approval as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the posession of the generator has been disclosed. I authorize a sample to be obtained from any waste shipment for purposes of recertification. I will provide advance notice if the generator status or any other information on this form changes. Waste quantity information is a best estimate, and is not used as a limitation for receipt of waste shipments or quantities in excess of these estimated amounts. I have reviewed the physical facilities, administrative practices, and operational procedures (or have directed the completion of such a review) and based on this review do willingly make this certification.

Signature (Print) Steve Shett

Signature (Sign) Signature on file Date 3.30.2011

Company

Title

The Environmental Quality Company
Belleville Laboratory
49350 N. I-94 Service Drive
Belleville, MI 48111

LAB SAMPLE RESULTS

Sample ID: AA52109

Generator:

EQ Tracking Number: 387014
Waste Description: BUNDLE SLUDGE
ATTN: Heidi Steudle
Report Date : 03/22/2011

% Ash by Bomb Calorimeter

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
% Ash by Bomb Calorimeter	70			%wt	03/21/2011

% Ash by Furnace

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
% Ash by Furnace	Not analyzed			%wt	03/21/2011

% Sediment by Extraction

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
% Sediment by Extraction	71			%wt	03/17/2011

% Volatiles By Oven

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
% Volatiles By Oven	19			% wt	03/19/2011

% Water by Distillation

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
% Water by Distillation	21			%wt	03/17/2011

Heat of Combustion

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Heat of Combustion	2388			BTU/lb	03/21/2011

Library Search Report

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Library Search Report	Completed			Completed	03/19/2011

PCB Solid

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date

TOTAL PCBs	Less than	0.1		MG/KG	03/20/2011

pH

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
pH	7.98	0.10		SI UNITS	03/21/2011

PNA Solid

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Acenaphethylene	Less Than	32	3.4	MG/KG	03/19/2011
Acenaphthene	Less Than	32	3.4	MG/KG	03/19/2011
Anthracene	Less Than	32	3.4	MG/KG	03/19/2011
Benzo(a)anthracene	Less Than	32	3.4	MG/KG	03/19/2011
Benzo(a)pyrene	Less Than	32	3.4	MG/KG	03/19/2011
Benzo(b)fluoranthene	Less Than	32	6.8	MG/KG	03/19/2011
Benzo(ghi)perylene	Less Than	32	1.8	MG/KG	03/19/2011
Benzo(k)fluoranthene	Less Than	32	6.8	MG/KG	03/19/2011
Chrysene	35	32	3.4	MG/KG	03/19/2011
Dibenzo((a,h)anthracene	Less Than	32	8.2	MG/KG	03/19/2011
Flouranthene	Less Than	32	3.4	MG/KG	03/19/2011
Fluorene	Less Than	32	3.4	MG/KG	03/19/2011
Indeno(1,2,3-cd)pyrene	Less Than	32	3.4	MG/KG	03/19/2011
Naphthalene	100	32	5.6	MG/KG	03/19/2011
Phenanthrene	55	32	5.6	MG/KG	03/19/2011
Pyrene	Less Than	32	8.2	MG/KG	03/19/2011

Pre-approval Fingerprint

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Pre-approval Fingerprint	complete				03/21/2011

Simulated Distillation

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Simulated Distillation	Completed			Completed	03/19/2011

SUBPART DD ANALYSIS FID Solid Sample

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Diethylene glycol diethyl ether	Less Than	20	5.0	MG/KG	03/18/2011
Ethylene glycol monobutyl ether acetate	Less Than	20	5.0	MG/KG	03/18/2011
Ethylene glycol monomethyl ether acetate	Less Than	20	5.0	MG/KG	03/18/2011
Isobutanol	83	20	170	MG/KG	03/18/2011
Methanol	Less Than	7.5	0.75	MG/KG	03/18/2011
n-Butanol	40	20	2.6	MG/KG	03/18/2011
tert-Butanol	Less Than	10		MG/KG	03/18/2011

SUBPART DD Semivol Solid Sample

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date

1,2,4-trichlorobenzene	Less Than	32	19	MG/KG	03/21/2011
2,4,5-trichlorophenol	Less Than	32	7.4	MG/KG	03/21/2011
2,4,6-trichlorophenol	Less Than	32	2.0	MG/KG	03/21/2011
2,4-dinitrophenol	Less Than	80	160	MG/KG	03/21/2011
2,4-dinitrotoluene	Less Than	32	0.13	MG/KG	03/21/2011
Acetophenone	Less Than	32	9.7	MG/KG	03/21/2011
Benzotrichloride (isomers and mixture)	Less Than	32	5.0	MG/KG	03/21/2011
Biphenyl	Less Than	32	5.0	MG/KG	03/21/2011
Cresol (total)	Less Than	96	11.2	MG/KG	03/21/2011
Dibenzofurans	Less Than	32	5.0	MG/KG	03/21/2011
Dichloroethyl ether (bis 2-chloroethyl e	Less Than	32	6.0	MG/KG	03/21/2011
Hexachlorobenzene	Less Than	32	0.13	MG/KG	03/21/2011
Hexachlorobutadiene	Less Than	32	0.50	MG/KG	03/21/2011
Hexachloroethane	Less Than	32	3.0	MG/KG	03/21/2011
Isophorone	Less Than	32	5.0	MG/KG	03/21/2011
Isopropylbenzene (Cumene)	Less Than	32	5.0	MG/KG	03/21/2011
n,n-dimethylaniline	Less Than	32	5.0	MG/KG	03/21/2011
Naphthalene	100	32	5.6	MG/KG	03/21/2011
Nitrobenzene	Less Than	32	14.0	MG/KG	03/21/2011
o-Toludine	Less Than	32	5.0	MG/KG	03/21/2011
Pentachloronitrobenzene (Quintobenzene)	Less Than	32	4.8	MG/KG	03/21/2011
Pentachlorophenol	Less Than	80	7.4	MG/KG	03/21/2011
Pyridine	Less Than	32	5.0	MG/KG	03/21/2011
Strene Oxide	Less Than	32	5.0	MG/KG	03/21/2011

SUBPART DD Volatile Solid Sample

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
1,1,1-trichloroethane	Less Than	10	6.00	MG/KG	03/18/2011
1,1,2,2-tetrachloroethane	Less Than	10	6.00	MG/KG	03/18/2011
1,1,2-trichloro-1,2,2-trifluoroethane	Less Than	10	30.0	MG/KG	03/18/2011
1,1,2-trichloroethane	Less Than	10	6.0	MG/KG	03/18/2011
1,1-dichloroethane (Ethylidene dichlorid	Less Than	10	6.0	MG/KG	03/18/2011
1,1-dichloroethylene	Less Than	10	6.0	MG/KG	03/18/2011
1,2,4-trichlorobenzene	Less Than	10	19	MG/KG	03/18/2011
1,2-dibromo-3-chloropropane	Less Than	10	15	MG/KG	03/18/2011
1,2-dibromoethane (Ethylene dibromide)	Less Than	10	15	MG/KG	03/18/2011
1,2-dichlorobenzene (o-dichlorobenzene)	Less Than	10	6.0	MG/KG	03/18/2011
1,2-dichloroethane	Less Than	10	6.0	MG/KG	03/18/2011
1,2-dichloropropane (Propylene dichlorid	Less Than	10	18	MG/KG	03/18/2011
1,3-dichlorobenzene (m-dichlorobenzene)	Less Than	10	6.0	MG/KG	03/18/2011
1,3-dichloropropene (cis and trans)	Less Than	10	18	MG/KG	03/18/2011
1,4-dichlorobenzene (p-dichlorobenzene	Less Than	10	6.0	MG/KG	03/18/2011
1,4-dioxane	Less Than	0.00	170	MG/KG	03/18/2011
2,2,4-trimethylpentane	Less Than	0.00	NA	MG/KG	03/18/2011
2-chloro-1,3-buradiene (Chloroprene)	Less Than	0.00	0.28	MG/KG	03/18/2011
2-chloroethyl vinyl ether	Less Than	0.00	NA	MG/KG	03/18/2011
2-nitropropane	Less Than	10	NA	MG/KG	03/18/2011
Acetaldehyde	Less Than	0.00	NA	MG/KG	03/18/2011
Acetone	Less Than	10	160	MG/KG	03/18/2011

Acetonitrile	Less Than	800	38	MG/KG	03/18/2011
Acrolein	Less Than	0.00	NA	MG/KG	03/18/2011
Acrylonitrile	Less Than	10	84	MG/KG	03/18/2011
Allyl chloride (3-chloropropylene)	Less Than	10	30	MG/KG	03/18/2011
Benzene	Less Than	10	10	MG/KG	03/18/2011
Benzyl chloride	Less Than	0.00	6.0	MG/KG	03/18/2011
Bromodichloromethane	Less Than	10	15	MG/KG	03/18/2011
Bromomethane (Methyl bromide)	Less Than	10	15	MG/KG	03/18/2011
Carbon disulfide	Less Than	10	4.8 MG/L	MG/KG	03/18/2011
Carbon tetrachloride	Less Than	10	6.0	MG/KG	03/18/2011
Chlorobenzene	Less Than	10	6.0	MG/KG	03/18/2011
Chlorodibromomethane	Less Than	10	15	MG/KG	03/18/2011
Chloroethane (Ethyl chloride)	Less Than	10	6.0	MG/KG	03/18/2011
Chloroform	Less Than	10	6.0	MG/KG	03/18/2011
Chloromethane (Methyl chloride)	Less Than	10	30	MG/KG	03/18/2011
Chloromethyl methyl ether b	Less Than	10	NA	MG/KG	03/18/2011
Cyclohexane	Less Than	0.00	0.75 MG/L	MG/KG	03/18/2011
Dimethyl carbamoyl chloride c	Less Than	0.00	NA	MG/KG	03/18/2011
Epichlorohydrin	Less Than	0.00	NA	MG/KG	03/18/2011
Ethyl acrylate	Less Than	10	NA	MG/KG	03/18/2011
Ethyl benzene	50	10	10	MG/KG	03/18/2011
Ethylene oxide	Less Than	400	NA	MG/KG	03/18/2011
Hexane	Less Than	40	NA	MG/KG	03/18/2011
Methyl ethyl ketone	Less Than	10	36	MG/KG	03/18/2011
Methyl iodide (Idomethane)	Less Than	10	65	MG/KG	03/18/2011
Methyl isobutyl ketone	Less Than	10	33	MG/KG	03/18/2011
Methyl methacrylate	Less Than	10	160	MG/KG	03/18/2011
Methyl tert butyl ether	Less Than	10	NA	MG/KG	03/18/2011
Methylene chloride	Less Than	10	30	MG/KG	03/18/2011
Propionaldehyde	Less Than	0.00	NA	MG/KG	03/18/2011
Propylene oxide	Less Than	0.00	NA	MG/KG	03/18/2011
Styrene	Less Than	10	NA	MG/KG	03/18/2011
Tetrachloroethylene	21	10	6.0	MG/KG	03/18/2011
Toluene	140	10	10	MG/KG	03/18/2011
trans 1,2-dichloroethylene	Less Than	10	30	MG/KG	03/18/2011
Tribromomethane (Bromoform)	Less Than	10	15	MG/KG	03/18/2011
Trichloroethylene	Less Than	10	6.0	MG/KG	03/18/2011
Trichloromonofluoromethane	Less Than	10	30	MG/KG	03/18/2011
Vinyl acetate	Less Than	0.00	NA	MG/KG	03/18/2011
Vinyl bromide	Less Than	10	NA	MG/KG	03/18/2011
Vinyl chloride	Less Than	10	6.0	MG/KG	03/18/2011
Xylene	365	30	30	MG/KG	03/18/2011

Sulfur by XRF

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
Sulfur by XRF	15300	50		mg/kg	03/18/2011

TCLP METALS--RCRA/MDNR LIST

Analyte Name	Result	Detection Limit	Regulatory Limit	Units	Analysis Date
ANTIMONY	Less Than	0.02	1.15	mg/L	03/18/2011
ARSENIC	Less Than	0.024	5.0	mg/L	03/18/2011
BARIUM	0.26	0.016	21	mg/L	03/18/2011
BERYLLIUM	Less Than	0.012	1.22	mg/L	03/18/2011
CADMIUM	Less Than	0.02	0.11	mg/L	03/18/2011
CHROMIUM	Less Than	0.02	0.60	mg/L	03/18/2011
COPPER	Less Than	0.04		mg/L	03/18/2011
LEAD	Less Than	0.1	0.75	mg/L	03/18/2011
MERCURY	Less Than	0.0005	0.025	mg/L	03/18/2011
NICKEL	0.21	0.02	11	mg/L	03/18/2011
SELENIUM	Less Than	0.1	1.00	mg/L	03/18/2011
SILVER	Less Than	0.02	0.14	mg/L	03/18/2011
THALLIUM	Less Than	0.02	0.20	mg/L	03/18/2011
ZINC	3.3	0.022	4.3	mg/L	03/18/2011

TOTAL ACID/BASE Solid Sample

Analyte Name	Result	Detection Limit	Regulatory Limit	Units	Analysis Date
1,4-DICHLORBENZENE	Less Than	96		MG/KG	03/19/2011
2,4 DINITROTOLUENE	Less Than	32	0.13	MG/KG	03/19/2011
2,4,5 TRICHLOROPHENOL	Less Than	32	7.4	MG/KG	03/19/2011
2,4,6 TRICHLOROPHENOL	Less Than	32	7.4	MG/KG	03/19/2011
BIS 2 ETHYL HEXYL PHTHALATE	Less Than	32	28	MG/KG	03/19/2011
DI-N-BUTYL PHTHALATE	Less Than	32	28	MG/KG	03/19/2011
DI-N-OCTYL PHTHALATE	Less Than	32	28	MG/KG	03/19/2011
HEXACHLOROBENZENE	Less Than	32	0.13	MG/KG	03/19/2011
HEXACHLOROBUTADIENE	Less Than	32	0.50	MG/KG	03/19/2011
HEXACHLOROETHANE	Less Than	32	3.0	MG/KG	03/19/2011
M-CRESOL	Less Than	64	5.6	MG/KG	03/19/2011
NITROBENZENE	Less Than	32	14.0	MG/KG	03/19/2011
O-CRESOL	Less Than	32	5.6	MG/KG	03/19/2011
P-CRESOL	Less Than	64	5.6	MG/KG	03/19/2011
PENTACHLOROPHENOL	Less Than	80	7.4	MG/KG	03/19/2011
PHENOL	Less Than	32	5.6	MG/KG	03/19/2011
PYRIDINE	Less Than	32	5.0	MG/KG	03/19/2011

TOTAL METALS

Analyte Name	Result	Detection Limit	Regulatory Limit	Units	Analysis Date
ANTIMONY	Less Than	50		ppm	03/18/2011
ARSENIC	14	2.6		ppm	03/18/2011
BARIUM	18	1.6		ppm	03/18/2011
BERYLLIUM	Less Than	2.0		ppm	03/18/2011
CADMIUM	3.5	2.0		ppm	03/18/2011
CHROMIUM	73	2.0		ppm	03/18/2011
LEAD	42	2.0		ppm	03/18/2011
MERCURY	0.25	0.05		ppm	03/18/2011

NICKEL	89	2.0		ppm	03/18/2011
SELENIUM	Less Than	20		ppm	03/18/2011
SILVER	Less Than	10		ppm	03/18/2011
THALLIUM	Less Than	2.0		ppm	03/18/2011
VANADIUM	67	4.0		ppm	03/18/2011
ZINC	460	2.2		ppm	03/18/2011

TOTAL ORGANIC HALIDES

Analyte Name	Result	Reporting Limit	Regulatory Limit	Units	Analysis Date
TOTAL ORGANIC HALIDES	66	5		mg/kg	03/18/2011

Validated By:

Eric Salla
Chemist II

EQ

OPERATOR: CHEMIST

ANALYSED: 3/18/2011 2:46:49 PM

SAMPLE: 387014

Analysis Method: TDUMETALS

Analyte Concentration Table

Element	Concentration	Intensity
Na	606 mg/kg	3.0 cps
Mg	2582 mg/kg	27.0 cps
Al	1.42 Wt %	577.0 cps
Si	5616 mg/kg	2776.0 cps
P	7744 mg/kg	1412.0 cps
S	1.53 Wt %	17605.0 cps
Cl	0 mg/kg	0.0 cps
K	500 mg/kg	1647.0 cps
Ca	2.10 Wt %	17177.0 cps
Sc	288 mg/kg	5.0 cps
Ti	106 mg/kg	28.0 cps
V	106 mg/kg	5.0 cps
Cr	199 mg/kg	11.0 cps
Mn	300 mg/kg	46.0 cps
Fe	4.51 Wt %	8636.0 cps
Co	165 mg/kg	73.0 cps
Ni	50 mg/kg	16.0 cps
Cu	385 mg/kg	191.0 cps
Zn	315 mg/kg	255.0 cps
As	12 mg/kg	13.0 cps
Se	0 mg/kg	0.0 cps
Br	0 mg/kg	0.0 cps
Mo	18 mg/kg	47.0 cps
Ag	0 mg/kg	0.0 cps
Cd	0 mg/kg	0.0 cps
Sn	1 mg/kg	1.0 cps
Sb	0 mg/kg	0.0 cps
Ba	28 mg/kg	3.0 cps
Hg	0 mg/kg	0.0 cps
Pb	62 mg/kg	27.0 cps

Higgins, John

From: Baker (HES), Rob
Sent: Wednesday, June 08, 2011 1:49 PM
To: Higgins, John
Cc: Cedoz, Bill; Maheu, Chris
Subject: TRC - Bundle solids Approval
Importance: High
Attachments: TRC - EQ - Bundle Sludge Analysis.PDF

JT –

Steve Shelt with TRC sent over the following lab analysis that was run on the same roll-off of material that was shipped to us on the bundle solids.

EQ ran the analysis and it includes both TCLP and total metals along with the other RCRA organic parameters.

The TCLP shows the mercury to be below the RCRA threshold. Based on these results, the D009 code would not apply.

We would like to have this approval completed today/tomorrow if possible.

From previous discussions with Chris, there was some latitude given to us to price this material.

We would like to price this material at $0.175/lb (plus $2/ton tax) as trial load with minimum disposal pricing per the contract. If customer gives final okay of trial load pricing, they will want to ship a box of this in the next week. Contract has 4% EIS in it.....Chris, do we keep at 4%?

Freight = $875/load plus fuel
Demurrage after one hour loading = $75/hr

Please make note on final approval for customer to see:
"Material must pass paint filter test upon receipt by TSDF or incur additional TSDF handling fees to be quoted case by case". "Incineration process surcharges waived for initial trial loads pending evaluation for future loads"

Thanks - Rob

Higgins, John

From: Kale, Daniel
Sent: Wednesday, May 04, 2011 6:48 PM
To: Higgins, John
Subject: mercury recheck

JT

Sample w331800 was reprepped and I got 5.1 ppm mercury.

Higgins, John

From: Kinsey, Maria
Sent: Tuesday, April 05, 2011 12:52 AM
To: Higgins, John
Subject: results

HI JT,

Here are the results you asked for

W330546 Bariun = 126ppm

L404099 Chloride = 4.8%

The 2 samples that you wanted for flashpoint were both solids. We corrected the lims entry from NSQ to NA.

HERITAGE ENVIRONMENTAL SERVICES

HERITAGE ENVIRONMENTAL SERVICES, LLC
WASTESTREAM SURVEY FORM
(877)436-8778
www.heritage-enviro.com
Please review instructions before completing this form.

Heritage Use Only	
Quote #:	WS#:2484-102
Business Type: Repeatable: ☒	Non-Repeatable: ☐
Product Code:	Price:

Preferred TSD Location *:	Charlotte, NC ☐	Coolidge, AZ ☐	Indianapolis, IN ☐	Kansas City, MO ☐	Roachdale, IN Hazardous Landfill ☐	Heritage-WTI ☒
Service Location *:	Albany, NY ☐	East Liverpool, OH ☐	Lemont, IL ☐	Louisville, KY ☐	Signal Hill, CA ☐	
	St. Louis, MO ☐	Toledo, OH ☒	Tulsa, OK ☐			

1. GENERATOR INFORMATION (Heritage# 2484)*	
Generator Name	Toledo Refining Company LLC
Address	1819 WOODVILLE ROAD
City, State, Zip	OREGON, OH 43616
Tech. Contact Name	STEVE SHELT
Phone (419)697-6493	Fax (419)697-6423
24 Hour Emergency Number	
E-mail Address	Steven.Shelt@pbfenergy.com
US EPA ID Number	OHD005046511
State ID Numbers	
Status LQG ☒ SQG ☐ CESQG ☐ Non-hazardous ☐	

2. BILLING INFORMATION (Heritage #)*	
Customer Name	Same
Address	Same as generator address
City, State, Zip	
Contact Name	
Phone	Fax
E-mail Address	
3. MANIFEST MAIL ADDRESS *(If different from generator)*	
Contact Name	
Company Name	
Address	
City, State, Zip	

4. Generator SIC Code 2911	If 3312, do you perform Coke Oven Byproduct Recovery Operations? Yes ☐ No ☒	If 28__, 2911, 3312, or 4953, what is the Total Annual Benzene (TAB) in Megagrams/year? 41.94

5. Common Name Bundle Solids

6. Process Generating Waste Cleaning Solids from tube bundles from refinery operations

7. DOT Description * (*if available*)
RQ,NA3077, HAZARDOUS WASTE, SOLID, N.O.S.,9, PG III (F037) ERG#171

8.	Identify US EPA waste codes K050, F037, F038	
9.	If D001-D043, are any Underlying Hazardous Constituents (UHCs) present? Yes ☐ No ☐ NA ☒ If yes, list in Section 13.	
10.	If F001-F005, or F039, list the F-listed hazardous constituents in Section 13.	
11.	US EPA Form Code * W409	US EPA Source Code * G09
12.	Identify state waste codes None	

13. Waste Composition: Using specific chemical names and/or descriptions of waste composition, list all constituents present in the wastestream, and identify those that are underlying hazardous constituents (UHCs), or F001-F005/F039 hazardous constituents. Attach available analysis or MSDSs. **Total composition must equal or exceed 100%.**

Constituents	Range	Units	UHC?	F-Listed?
Tube bundle solids from heat exchanger tube cleaning	100	%	Yes ☐	Yes ☐
Used PPE	1-2	%	Yes ☐	Yes ☐
Discarded vacuum hose (dimensions to be in less than 2ft x 2ft x 6 inches)	1-2	%	Yes ☐	Yes ☐
Benzene total	0.1 to 10	ppm	Yes ☒	Yes ☐
			Yes ☐	Yes ☐
Waste approval sample provided			Yes ☐	Yes ☐
			Yes ☐	Yes ☐

14.	Color VARIES	Appearance Solids	Odor Mild

15.

15a. Chemical Properties

Flash Point (F°)		BTU/lb	
< 73	☐	< 2,000	☐
< 100	☐	2,000-6,000	☒
100-140	☐	6,000-10,000	☐
141-200	☐	> 10,000	☐
> 200	☒		

Boiling Point (F°)		pH Range
< 100	☐	NA
> 100	☒	

15b. Physical Properties at 70°F

Solid	☒	Free Liquids?	Yes ☐ No ☒
Liquid	☐	Will waste dump out of drums?	Yes ☒ No ☐
Sludge	☐	Is the waste pumpable?	Yes ☐ No ☒
Semi-solid	☐	Debris?(List type in Section 13)	Yes ☒ No ☐
Powder	☐	Is the waste dusty?	Yes ☐ No ☒
Gas	☐		

% Solids 100 | % Liquids <1

Note: * These sections will be completed by Heritage if left blank.

Common Name (same as Item #5): Bundle Solids

16. Check all that apply. Marking any of these may require additional documentation or follow-up information.

16a.

Aerosols	☐	Metal Powders	☐
Air Reactive	☐	Oxidizer	☐
Ammonia	☐	Pathogen	☐
Asbestos	☐	Pesticide	☐
Autoignitable	☐	Polymerizable	☐
Biological	☐	Pyrophoric	☐
Carcinogen	☐	Radioactive	☐
Chelating Agent	☐	Sanitary	☐
Compressed Gas	☐	Sharps	☐
Dioxins	☐	Shock Sensitive	☐
Etiological	☐	Spontaneously Combustible	☐
Explosive	☐	Sulfide	☐
Herbicide	☐	Temperature Control Required	☐
Infectious	☐	Temperature Sensitive	☐
Insecticide	☐	Water Reactive	☐
Lab Pack	☐		
Medical	☐		
Metal Fines	☐		

16b.
Used oil? (per 40 CFR 279) Yes ☐ No ☒
Used oil mixed with hazardous waste? Yes ☐ No ☐
Total Halogens (TX) concentration? < 1000 PPM ☐ > 1000 PPM ☐

16c.
PCBs? (per 40 CFR 761) Yes ☐ No ☒
If yes, PCB concentration? < 50 PPM ☐ > 50 PPM ☐
Greater than 50 PPM source? Yes ☐ No ☐

16d.
Does this material require any special handling? Yes ☐ No ☒
If yes, explain:

16e.
Volatile Organic Compound > 500 PPM? Yes ☒ No ☐
Subject to Subpart CC? (per 40 CFR 265.1080-1091) Yes ☒ No ☐

16f.
Do any exclusions/exemptions apply? Yes ☐ No ☒
If yes, note the exclusion/exemption:

16g.
Generated from electroplating process? Yes ☐ No ☒

16h. Additional Comments:

17. Transporter: Heritage Transport ☒ Other ☐ (Complete below)

Transporter Name: 8048 & 8000
Address:
City, State, Zip:
Contact/Phone:
US EPA ID No.:

18. Packaging:		Size:	19. Volume:
Bulk Liquid	☐		
Bulk Solid	☒	25yd	
Cu Yd Bag/Box	☐		200 tons/Year
Cylinder	☐		
Drum	☒	55 DM	15tons/Shipment
Tote (Metal)	☐		
Tote (Poly)	☐		

20. Check or List Attachments: Lab Data ☒ MSDS ☐ Cylinder Form ☐ Packing List ☐ Other (list) ☐

21. **CERTIFICATION** *Sign and date the certification.*

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator, that all information submitted herein and attached documentation contains true, accurate and complete descriptions of this material. Any sample submitted for analysis or attached laboratory data is representative of the material being offered for approval. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I will notify Heritage Environmental Services, LLC or Heritage-WTI, Inc. of any changes in generator status, any information on this form, or any information on the attachments. This certification and signature apply to this form, to all attachments checked in section 20, and to the land disposal restriction notification (LDR) generated from this information.

Signature	Printed Name	Date	Company
Steven Shelt	Steven Shelt	3-30-11	Toledo Refining Company LLC

22. **COMPLETE THIS SECTION FOR NON-HAZARDOUS MATERIAL BEING MANAGED TO A NON-HAZARDOUS PROCESS (EXAMPLE: SUBTITLE D LANDFILL or MASS-BURN)**

22a. Does this waste exhibit the chemical characterization of an oxidizer? Yes ☐ No ☐

22b. Is this waste a listed waste? (U, P, K, or F codes) Yes ☐ No ☐

22c. This waste is not characteristically hazardous for D001-D043 based on attached lab data (mark LD), attached MSDS (mark MSDS), or generator knowledge (mark GK).

D001 (Ignitability)						D038 Pyridine	
D002 (Corrosivity)		D018 Benzene		D023 o-Cresol		D041 2,4,5-Trichlorophenol	
D003 (Reactivity)		D019 Carbon Tetrachloride		D024 m-Cresol		D042 2,4,6-Trichlorophenol	
TCLP METALS		D021 Chlorobenzene		D025 p-Cresol		**HERBICIDES & PESTICIDES**	
D004 Arsenic		D022 Chloroform		D026 Cresol		D012 Endrin	
D005 Barium		D028 1,2-Dichloroethane		D027 1,4-Dichlorobenzene		D013 Lindane	
D006 Cadmium		D029 1,1-Dichloroethylene		D030 2,4-Dinitrotoluene		D014 Methoxychlor	
D007 Chromium		D035 Methyl Ethyl Ketone		D032 Hexachlorobenzene		D015 Toxaphene	
D008 Lead		D039 Tetrachloroethylene		D033 Hexachlorobutadiene		D016 2,4-D	
D009 Mercury		D040 Trichloroethylene		D034 Hexachloroethane		D017 2,4,5-TP(Silvex)	
D010 Selenium		D043 Vinyl Chloride		D036 Nitrobenzene		D020 Chlordane	
D011 Silver				D037 Pentachlorophenol		D031 Heptachlor	

Bickerton, Melody

From: Higgins, John
Sent: Thursday, March 31, 2011 8:19 AM
To: WTI Wastestream Setup
Subject: FW: Toledo Refining Bundle solids and Sewer solids samples to HWTI
Attachments: TRC Signed Heritage - Bundle Sludge 3_11.PDF; Sunoco Tube Bundle Solids - HES - WTI sample analytical.pdf; Sunoco Bundle Sludge Analysis.pdf; TRC Signed - Heritage - Sewer Sludge 3_11.PDF

Thanks

John (JT) Higgins

Heritage-WTI
Customer Coordinator
Ph: (330) 386-2145
Toll Free: 1-800-810-9983
Fax: 330-386-2167
jhiggins@heritage-wti.com

From: Baker (HES), Rob
Sent: Wednesday, March 30, 2011 7:18 PM
To: Higgins, John; Vallera, Lana
Cc: Fincher, Marcia; Metcalfe, Nichole
Subject: RE: Toledo Refining Bundle solids and Sewer solids samples to HWTI

JT, Lana,

Please see the attached signed profiles for the samples that were sent for TRC per below e-mails:

- Bundle solids w/HWTI WS data and past lab analytical (WS 102) and
- Sewer solids (New WS).

Let me know if there are any questions and if these might be approved on Monday.

I will be out on customer appointments all day Thursday without e-mail, call my cell if questions arise.

Thank you.

Rob

From: Metcalfe, Nichole
Sent: Wednesday, March 30, 2011 10:32 AM
To: Baker (HES), Rob; Higgins, John; Vallera, Lana
Cc: Fincher, Marcia

Subject: RE: Toledo Refining Bundle solids and Sewer solids samples to HWTI

Tra 34-40, Ron will off load it today and bring the samples over.

From: Baker (HES), Rob
Sent: Wednesday, March 30, 2011 10:28 AM
To: Higgins, John; Vallera, Lana
Cc: Metcalfe, Nichole
Subject: Toledo Refining Bundle solids and Sewer solids samples to HWTI

JT, Lana,

A sample of the Toledo Refining Company's bundle solids and sewer solids (2 quart jars) were sent out on a HT truck from Toledo's 10-day last Friday. Both were in the same 5 gal bucket with a note with them to go to you.

I am awaiting TRC to sign the attached two profiles so that I can send over to you.

Let me know if you have received the samples yet. They would like to get these two streams approved to determine price this week if possible and from there determine if they will ship.

Bundle Solids - WS – 102 was approved previously, Providing an updated profile and sample.
Sewer solids – A new waste stream is to be set up. Providing a new profile with sample.

Both would be coming in roll-offs from what I know at this point.

Thanks - Rob

WASTE ANALYSIS RESULTS

Identification	Measured Value	Possible Waste Codes	Total Constituent Analysis	TCLP
A. ANIONS				
Bromide, PERCENT	<0.1			
Chloride, PERCENT	<0.1			
Fluoride, PERCENT	<0.1			
Iodine, PERCENT	<0.1			
Sulfur, PERCENT	12.8			
Sulfides, PPM	<20			
Cyanides, PPM	<20			
B. METALS				
			SOLID Mg/Kg	LIQUID Mg/l
Antimony, PPM	<50			
Arsenic, PPM	<5	D004 ARSENIC	100	5.0
Barium, PPM	<50	D005 BARIUM	2000	100
Beryllium, PPM	<5			
Cadmium, PPM	<1	D006 CADMIUM	20	1.0
Calcium, PPM	6686			
Chromium, PPM	<5	D007 CHROMIUM	100	5.0
Copper, PPM	92			
Lead, PPM	<5	D008 LEAD	100	5.0
Lithium, PPM	<50			
Mercury, PPM	3.4	D009 MERCURY	4	0.2
Nickel, PPM	<50			
Phosphorous, PPM	872			
Potassium, PPM	<50			
Selenium, PPM	<1	D010 SELENIUM	20	1.0
Silver, PPM	<5	D011 SILVER	100	5.0
Sodium, PPM	1128			
Thallium, PPM	<10			
Zinc, PPM	<50			
C. PHYSICAL PROPERTIES				
Flashpoint, DEGREES F	>200			
Btu/lb, BTU/LB	2200			
Water, PERCENT	90			
Viscosity, CENTIPOISE	<24			
Ash, PERCENT	46.7			
Density, G/ML	1.020			
pH, STD. UNITS	7.4			
Settleable Solids, PERCENT	90			
PCB Total, PPM	NA			
Paint Filter	FAL			
D. REACTIVITY				
Water	NO			
Acid	YES			
Alkali	NO			
Oxidizers, PPM	<100			
E. FREONS				
Dichlorodifluoromethane				
Trichlorofluoromethane				
Bromoform				

JONES & HENRY LABORATORIES, INC. / 2567 TRACY ROAD, NORTHWOOD, OHIO 43619 / (419) 666-0411

March 01, 2007

Sunoco, Inc.
Toledo Refinery
P.O. Box 920
Toledo, OH 43693
ATTN: Mr. Steve Shelt

Below are the results of analysis of the indicated sample(s) submitted to this laboratory:

Project:
Purchase order number: Project account code: 165

Sample I.D. AE86589 Location Description: Bundle Sludge
Sample Collector: CLIENT Collection Date: 2/16/2007 Collection Time: 08:00
Lab Submittal Date: 2/16/2007 Submittal Time: 12:10 Received by: MH
Location code: SUNSW Validated by: FD Validation date: 3/01/2007

TEST PARAMETER	RESULT	UNITS	PQL	AN DATE	AN	REF METHOD
TCLP ZERO HEADSPACE EXTRACTION	Completed			02/23/07	CF	EPA 1311
TCLP NON-VOLATILE EXTRACTION	Completed			02/23/07	CF	EPA 1311
TCLP ARSENIC	0.34	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP BARIUM	0.30	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP CADMIUM	Not detected	mg/L	0.01	02/23/07	VW	EPA 6010B
TCLP CHROMIUM	Not detected	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP LEAD	Not detected	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP MERCURY	Not detected	mg/L	0.002	02/27/07	NJS	EPA7470
TCLP SELENIUM	Not detected	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP SILVER	Not detected	mg/L	0.1	02/23/07	VW	EPA 6010B
TCLP PHENOLICS/BASE NEUTRALS		mg/L		02/23/07	JR	EPA8270
TCLP o-CRESOL	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP m+p-CRESOL	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP 1,4-DICHLOROBENZENE	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP 2,4-DINITROTOLUENE	0.10	mg/L	0.05	02/23/07	JR	EPA8270
TCLP HEXACHLOROBENZENE	Not detected	mg/L	0.005	02/23/07	JR	EPA8270
TCLP HEXACHLOROBUTADIENE	Not detected	mg/L	0.01	02/23/07	JR	EPA8270
TCLP HEXACHLOROETHANE	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP NITROBENZENE	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP PENTACHLOROPHENOL	Not detected	mg/L	0.01	02/23/07	JR	EPA8270
TCLP PYRIDINE	Not detected	mg/L	0.01	02/23/07	JR	EPA8270
TCLP 2,4,5-TRICHLOROPHENOL	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
TCLP 2,4,6-TRICHLOROPHENOL	Not detected	mg/L	0.02	02/23/07	JR	EPA8270
Sur 0.267 mg/L 2-Fluorobiphenyl	0.151	mg/L		02/23/07	JR	EPA8270
Sur 0.267 mg/L 2-Fluorophenol	0.166	mg/L		02/23/07	JR	EPA8270
Sur 0.267 mg/L Nitrobenzene-D5	0.178	mg/L		02/23/07	JR	EPA8270
Sur 0.267 mg/L Phenol-D6	0.136	mg/L		02/23/07	JR	EPA8270
Sur 0.267 mg/L Terphenyl-D14	0.139	mg/L		02/23/07	JR	EPA8270
Sur 0.267 mg/L 2,4,6-Tribromophenol	0.141	mg/L		02/23/07	JR	EPA8270
TCLP VOLATILES		mg/L		02/26/07	TH	EPA 8260B
BENZENE	0.10	mg/L	0.05	02/26/07	TH	EPA 8260B
CARBON TETRACHLORIDE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
CHLOROBENZENE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
CHLOROFORM	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
1,4-DICHLOROBENZENE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
1,2-DICHLOROETHANE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B

Sample I.D. AE86589
Sample Collector: CLIENT
Lab Submittal Date: 2/16/2007
Location code: SUNSW

Location Description: Bundle Sludge
Collection Date: 2/16/2007
Submittal Time: 12:10
Validated by: FD

Collection Time: 08:00
Received by: MH
Validation date: 3/01/2007

TEST PARAMETER	RESULT	UNITS	PQL	AN DATE	AN	REF METHOD
1,1-DICHLOROETHENE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
METHYL ETHYL KETONE	0.28	mg/L	0.05	02/26/07	TH	EPA 8260B
TETRACHLOROETHENE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
TRICHLOROETHENE	Not detected	mg/L	0.05	02/26/07	TH	EPA 8260B
VINYL CHLORIDE	Not detected	mg/L	0.02	02/26/07	TH	EPA 8260B
S 0.50 mg/L Dibromofluoromethane	0.53	mg/L		02/26/07	TH	EPA 8260B
S 0.50 mg/L Toluene-D8	0.56	mg/L		02/26/07	TH	EPA 8260B
S 0.50 mg/L 4-Bromofluorobenzene	0.58	mg/L		02/26/07	TH	EPA 8260B

Please advise should you have questions concerning these data.

Respectfully submitted,

Fred W. Doering
President

HE865 89

Jones & Henry Laboratories, Inc.
2567 Tracy Road
Northwood, Ohio 43619
Phone: (419) 666-0411
FAX: (419) 666-1657

CHAIN OF CUSTODY RECORD

WHITE — ORIGINAL
PINK — LAB USE
YELLOW — LAB USE (MUST BE RETURNED W/REPORT)

(Please forward results to address at top left)

REPORT TO: STEVE SIEGEL

Client: SUNOCO Site:
Project: Project #:
Samplers:

SAMPLE MATRIX	PRESERVATIVES	METALS
1. WATER	A – Cool only, 4°C	F – FILTERED
2. SOIL	B – HNO_3 pH<2	N – NOT FILTERED
3. SLUDGE	C – H_2SO_4 pH<2	B – BOTH
4. OIL	D – NaOH pH>12	
5. TISSUE	E – ZnAcetate + NaOH, pH>9	
6. SEDIMENT	F – $Na_2S_2O_3$(0.008%)	
OTHER:	G – None	

With the exception of parameters not requiring preservation (G), all samples are kept at 4°C.

LAB SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	NO. OF SAMPLES	METALS	SAMPLING DATE/TIME	TCLP METALS	TCLP VOLATILES	TCLP SEMI VOLATILES									COMMENTS
2-16-07A	BUNDLE SLUDGE		1		2-16-07 10:00AM	X	X	X									

RELINQUISHED BY:	DATE: 2-16-07	RECEIVED BY:	DATE: 2-16-07
	TIME: 12-10 pm		TIME: -:-10
RELINQUISHED BY:	DATE: – –	RECEIVED BY:	DATE: – –
	TIME: – –		TIME: – –
RELINQUISHED BY:	DATE: – –	RECEIVED BY:	DATE: – –
	TIME: – –		TIME: – –
RELINQUISHED BY:	DATE: – –	RECEIVED FOR LAB BY:	DATE: – –
	TIME: – –		TIME: – –

Deliver To:
Method of Delivery:
Airbill Number:

NOTES: NO Heat + Test

FLD003.FRM

Jones & Henry Laboratories, Inc.
2567 Tracy Road
Northwood, Ohio 43619
Phone: (419) 666-0411
FAX: (419) 666-1657

CHAIN OF CUSTODY RECORD

WHITE — ORIGINAL
PINK — LAB USE
YELLOW — LAB USE (MUST BE RETURNED W/REPORT)

(Please forward results to address at top left)

REPORT TO: STEVE SHELT

Client: SUNOCO Site:
Project: Project #:
Samplers:

SAMPLE MATRIX	PRESERVATIVES	METALS
1. WATER	A – Cool only, 4° C	F – FILTERED
2. SOIL	B – HNO_3 pH<2	N – NOT FILTERED
3. SLUDGE	C – H_2SO_4 pH<2	B – BOTH
4. OIL	D – NaOH pH>12	
5. TISSUE	E – ZnAcetate + NaOH, pH>9	
6. SEDIMENT	F – $Na_2S_2O_3$(0.008%)	
OTHER:	G – None	

With the exception of parameters not requiring preservation (G), all samples are kept at 4° C.

ANALYSES / PRESERVATIVES

LAB SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	NO. OF SAMPLES	METALS	SAMPLING DATE/TIME	TCLP METALS	TCLP VOLATILES	TCLP SEMI VOLATILES									COMMENTS
2-16-07A	BUNDLE SLUDGE		1		2-16-07 8:00AM	X	X	X									

RELINQUISHED BY: [signature]	DATE: 2-16-07 TIME: 12-10 Am	RECEIVED BY: [signature]	DATE: 2-16-07 TIME: 12-10
RELINQUISHED BY:	DATE: – – TIME: – –	RECEIVED BY:	DATE: – – TIME: – –
RELINQUISHED BY:	DATE: – – TIME: – –	RECEIVED BY:	DATE: – – TIME: – –
RELINQUISHED BY:	DATE: – – TIME: – –	RECEIVED FOR LAB BY:	DATE: – – TIME: – –

Deliver To:
Method of Delivery: client
Airbill Number:

NOTES: NO HERB + PEST

FLD003.FRM

CORRECTIVE ACTIONS FORM FOR WASTE STREAMS

Waste Stream No.: _____

DATE REVIEWED	QUESTIONS/ OBSERVATIONS/ INITIALS	PROPOSED ACTION/INITIALS
	This was set up 9/2008	
	but never received final	
	approval	
	Material	
4-4-11	• ~~Profile~~ hit for Barium	- Does customer
	want to carry D005?	
	• ~~Profile~~ Material failed paint filter	- profile says
	solid	
	• Also looks like D001 applies since flash pt <73°F	
4/5/11	E-mailed Rob B.	
5-4-11	Material hit for mercury. Recommend D009	
5-4-4	Lab running new sample for Hg	
6/8/11	Received TCLP for Hg	
	Include data	
	from external	
	lab	

HERITAGE-WTI

HERITAGE-WTI, INC.
1250 St. George Street
East Liverpool, Ohio 43920-3400
Phone: 330-385-7337
Fax: 330-385-7813
Web Site: www.heritage-wti.com

OHSAS 18001: 2007
ISO 14001: 2004
ISO 9001: 2008

June 09, 2011

Sunoco, Inc.
1819 Woodville Road
Oregon, OH 43616

RE:	Generator ID Number:	OHD005046511
	Waste Profile:	2484-102
	Waste Name:	BUNDLE SOLIDS

Dear Steve Shelt

HES-WTI is providing you this written notice in accordance with 40 CFR 264.12(b) and OAC 3745-54-12(B). Under these regulations, the owner and operator of a treatment, storage, and disposal facility (TSDF) that receives hazardous waste from an off-site generator must inform the generator, in writing, that they have the appropriate permits and will accept the waste that the generator is shipping.

Heritage coordinated the approval of wastestream 2484-102 into our facility. HES-WTI has the appropriate permits and will accept wastestream 2484-102.

This waste will be treated on-site at HES-WTI's East Liverpool, Ohio facility.

Sincerely,

Zambia Logero

Zambia Logero
Waste Approval Manager
Heritage

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