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June 8, 2018

Mr. James R. Carroll Program Administrator Land Restoration Program Land Management Administration Maryland Department of the Environment 1800 Washington Boulevard, Suite 625 Baltimore, Maryland 21230 Ms. Ruth Prince, PhD Toxicologist 3LC10, Office of Remediation Land and Chemicals Division U.S. Environmental Protection Agency Region III 1650 Arch St. Philadelphia, Pennsylvania 19103-2029

Subject: Block E MH-9 Storm Drain Cleaning Report Middle River Complex, Middle River, Maryland

Dear Mr. Carroll/Ms. Prince,

In accordance with Lockheed Martin's March 3, 2017 submittal entitled *Protecting the Middle River Complex Sediment Remedy from PCBs in Storm Drains*, additional monitoring of accumulated sediment in the new manhole just upstream of Outfall 008 (designated MH-1A), and monitoring of inlets IL-1, IL-2, IL-3 (alternately identified as MH-10), and MH-9 was conducted in October 2017. The *Block E Storm Drain Monitoring Report: PCB Sediment Sampling of Storm Drain Systems for Outfalls 006 and 008*, dated February 13, 2018, documented results of that monitoring, and indicated that accumulated polychlorinated biphenyl (PCB)-impacted sediment in manhole MH-9 required cleanout. This letter report documents the cleaning of storm drain manhole MH-9, as completed by Tetra Tech, Inc (Tetra Tech) in April 2018.

Storm Drain Cleaning

Mobilization

Tetra Tech mobilized all personnel, equipment, material, services, and supplies required to clean MH-9 to Block E on April 11, 2018. Before starting field operations, appropriate Tetra Tech and subcontractor personnel reviewed the Tetra Tech site-specific health and safety plan (HASP).

Storm Drain Cleaning

On April 11, 2018, Tetra Tech oversaw subcontractor (Elite Environmental, LLC) cleanout of manhole MH-9; which entailed removal of water, sediment, and debris from the manhole and placing the removed material into drums. After cleaning was complete, Clean Harbors removed the drums and transported them to their facility in La Poite, Texas (see the section detailing investigation-derived waste below).

The construction of MH-9 is unique from other manhole, as its outflow pipe is at a higher elevation than its inflow pipe, so inspection of the inflow pipe was necessary to determine how to effectively plug it so that it could be cleaned without generating excess waste water. The inspection revealed that the inflow pipe for MH-9 consisted of an approximately 15-inch-diameter reinforced concrete pipe (RCP). Various debris (stone, brick, sand) in the inflow pipe was removed in an attempt to insert a small inflatable plug. However, the use of an inflatable plug was abandoned after multiple attempts, as unreachable debris in the inflow pipe (and the angle at which the pipe itself was placed) hindered water-tight placement of the plug. Therefore, sandbags were used to block the inflow pipe.

A confined space entry permit was obtained from facility operations by the field team, and a multi-gas meter was continuously used during confined space entry. When cleaning began, the water depth within MH-9 was 18 inches, and the sediment debris depth ranged from approximately three to eight inches. Water in MH-9 was pumped via a two-inch trash pump into United States Department of Transportation (USDOT)-approved 55-gallon steel drums. Once water was evacuated from the manhole, MH-9 was cleaned manually by hand digging. Accumulated debris, sediment, and brick was shoveled into a five-gallon bucket, the contents of which was then transferred into a USDOT-approved 55-gallon steel drum. This method was repeated until as much material as practical was removed; less than one-half inch of sediment remained in MH-9 after the cleaning process. The sandbags blocking the inflow pipe were then removed and placed in another 55-gallon steel drum, into which the personal protective equipment (PPE) used by the field team was also placed.

Investigation Derived Waste

All investigation-derived waste (IDW) drums were temporarily staged in Block E until they were removed from the site by Clean Harbors. IDW for this project consisted of sediment and water from the storm drain cleaning as well as sand bags used for blocking the pipes and PPE used by the field team. Two drums of waste water, one drum of sediment, and one drum of contaminated sand/PPE were generated from the cleaning process. The drums were removed from the site on May 30, 2018. Documentation of IDW management is included as Attachment A.

Please let me know if you have any questions. My office phone is (301) 548-2209.

Sincerely,

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Thomas D. Blackman Project Lead, Environmental Remediation

Enclosure: Attachment A

cc: (via email with enclosure) Gary Schold, MDE Mark Mank, MDE Lynnette Drake, Lockheed Martin Christine Kline, Lockheed Martin Norm Varney, Lockheed Martin Dave Brown, MRAS Michael Martin, Tetra Tech Cannon Silver, CDM Smith cc: (via mail with enclosure) Tom Green, LMCPI Mike Musheno, LMCPI cc: (via Secure Information Exchange) Jann Richardson, Lockheed Martin Scott Heinlein, LMCPI Christopher Keller, LMCPI Glen Harriel, LMCPI Terry Miller, Lockheed Martin RMS

ATTACHMENT A

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GENRE marke Export l certify rators/ ematio corter s nsporte orter 1 crepan screpa screpa screpa screpa	HIG39356 ERATOR'S/OFFEROR'S CEL d and labeled/placarded, and labeled/placarded, and lar, I certify that the contents is y that the waste minimization Offeror's Printed/Typed Name isignature (for exports only): er Acknowledgment of Receip Printed/Typed Name Printed/Typed Name Printed/Typed Name Roy ancy Indication Space Facility (or Generator) ne: e of Alternate Facility (or Generator) Name	ERCELO	I hereby declare that acts in proper conditionent conform to the twi itified in 40 CFR 262.	t the contents of this on for transport according erms of the attached 27(a) (if I am a large 	a consignment are fully ording to applicable int d EPA Acknowledgmer e quantity generator) of Signature Export from U.S. Signature Signature	and accurately de emational and na it of Consent. r (b) (if I am a sm Port of e Date lea Residue Manifest Referent ecycling systeme cept as noted in	escribed abo tional govern hall quantity y entry/exit: iving U.S.: hce Number: s)	ve by the proper internation regulation generator) is true	shipping nai ns. If export	me, and are shipment a	Classified, p nd I am the '	Day Day Day Day Day Day Day Day

Clear Hathors has the appropriate permits to and the



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1639356

A. GENERAL INFORMATION GENERATOR EPA ID #/REGISTRATION #	MDR000524413	GENER	RATOR NAME:	Middle River Com	plex		
GENERATOR CODE (Assigned by Clean Harbors)	MI5240	CITY	Baltimore	STATE/PROVINCE	MD	ZIP/POSTAL CODE	21220
ADDRESS 195 Chesapeake Park Plaza Rd				PHONE: (3	301) 528	-3021	
CUSTOMER CODE (Assigned by Clean Harbors)	TE0740	CUSTO	MER NAME:	Tetra Tech Inc			
ADDRESS 20251 Century Boulevard Sui	ite 200	CITY	Germantown	STATE/PROVINCE	MD	ZIP/POSTAL CODE	20874

B. WASTE DESCRIPTION

Storm Drain Cleaning Water/Sediment WASTE DESCRIPTION:

PROCESS GENERATING WASTE: **Storm Drain Cleaning**

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	NUMBER OF PHASES/LAYE 1 2 3 % BY VOLUME (Approx.)	RS TOP 99.00 MIDDLE 0.00 BOTTOM 1.00	VISCOSITY (If liquid present) 1 - 100 (e.g. Water) 101 - 500 (e.g. Motor Oil) 501 - 10,000 (e.g. Molasses) > 10.000	COLOR <u>varies</u>
% FREE LIQUID <u>1.00 - 5.00</u> % SETTLED SOLID <u>95.00 - 99.00</u> % TOTAL SUSPENDED SOLID SLUDGE GAS/AEROSOL	ODOR NONE MILD STRONG Describe:	BOILING POINT °F (°C) <= 95 (<=35) 95 - 100 (35-38) 101 - 129 (38-54) ✓ >= 130 (>54)	MELTING POINT °F (°C) < 140 (<60) 140-200 (60-93) > 200 (>93)	TOTAL ORGANIC CARBON <= 1% 1-9% >= 10%

FLASH POINT °F (°C)	pH -	SPECIFIC GRAVITY	ASH	BTU/LB (MJ/kg)
< 73 (<23) 73 - 100 (23-38) 101 -140 (38-60) 141 -200 (60-93) > 200 (>93)	<= 2 2.1 - 6.9 7 (Neutral) 7.1 - 12.4 >= 12.5	< 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)	 < 0.1 > 20 0.1 - 1.0 Inknown 1.1 - 5.0 5.1 - 20.0 	 < 2,000 (<4.6) 2,000-5,000 (4.6-11.6) 5,000-10,000 (11.6-23.2) > 10,000 (>23.2)

(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.) D. COMPOSITION

CHEMICAL	MIN		MAX	UO	M
1,2,3-TRICHLOROBENZENE	1.2000000		1.2000000	PP	M
1,2,4-TRICHLOROBENZENE	0.1300000		6.0000000	PP	M
1.2-DICHLOROBENZENE	0.0040000		0.0040000	PP	M
1.2-DICHLOROETHENE	0.0050000		0.0050000	%	,
1.4-DICHLOROBENZENE	0.0030000		0.0030000	PP	M
ACETONE	0.0270000		0.0270000	PP	M
AROCLOR-1260	0.0000000		100.0000000	PP	M
CHLOROFORM	0.0030000		0.0030000	PP	M
DIRT, SAND, PPE	95.0000000		100.0000000	%	0
METHYL TERT-BUTYL ETHER	0.0050000	-	0.0050000	PP	M
DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING > >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINF PIECES OF CONCRETE >3")?	1/4" THICK OR FORCING BAR (OR	YES	NO	
If yes, describe, including dimensions:					
DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM?			YES 🗸	NO	P.
DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PR FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY O	ODUCTS, BOD	Y	YES	NO	r÷.

POTENTIALLY INFECTIOUS MATERIAL?

			-	Dana 4 at 1
SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.	G19	SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE.	W301	
ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS	DOUBLE BAGGED	AND WETTED.	YES	NO
ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN	HARBORS BATTER	RY PACKAGING REQUIREMENTS.	YES	NO
Chemical disinfection or some other form of sterilization ha	s been applied to the	e waste.	YES	NO
The waste was never exposed to potentially infectious mate	erial.		YES	NO
I acknowledge that this waste material is neither infectious based on my knowledge of the material. Select the answer	nor does it contain a below that applies:	iny organism known to be a threat to human health. This certification is		



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 APP	LICABLE	7
D004	ARSENIC	5.0	0000000			~		
0005	BARIUM	100.0				7		
0006	CADMIUM	1.0			•••••	~~~~~		
0007	CHROMIUM	5.0						
008	LEAD	50						
	MEDCUDY							
009	MERCURY							
0010	SELENIUM	1.0						
011	SILVER	5.0				·····		
	VOLATILE COMPOUNDS			OTHER CONSTITUENT	TS	MAX	UOM	NOT
018	BENZENE	0.5						APPLICABLE
019	CARBON TETRACHLORIDE	0.5		BROMINE				
021	CHLOROBENZENE	100.0		CHLORINE				V
	CHIOROFORM	60	0.0020	FLUORINE				~
			0.0030	IODINE				
028	1,2-DICHLOROETHANE	0.5		SHIELD				
029	1,1-DICHLOROETHYLENE	0.7		DOTACOUNA				
035	METHYL ETHYL KETONE	200.0		PUTASSIUM				
039	TETRACHLOROETHYLENE	0.7		SODIUM				×
040	TRICHLOROETHYLENE	0.5		AMMONIA				¥
043	VINYL CHLORIDE	0.2		CYANIDE AMENABLE				
	SEMI-VOLATILE COMPOUNDS			CYANIDE REACTIVE				
023	o-CRESOL	200.0		CYANIDE TOTAL				
024	m-CRESOL	200.0		SULFIDE REACTIVE				
025	p-CRESOL	200.0		Luce		DCRC		
		200.0	0.0040	HOUS		FUDS		
026	CRESOL (TOTAL)	200.0	0.0040	NONE		N	ONE	
027	1,4-DICHLOROBENZENE	7.5		< 1000 PPM		<	50 PPM	
030	2,4-DINITROTOLUENE	0.13		>= 1000 PPM		V >	=50 PPM	
032	HEXACHLOROBENZENE	0.13				IF PCB	S ARE PRESEN	NT, IS THE
0033	HEXACHLOROBUTADIENE	0.5				WASTE	REGULATED	BY TSCA 40
034	HEXACHLOROETHANE	3.0				CFR 76	51?	7
0036	NITROBENZENE	2.0		1			YES	NO
037	PENTACHLOROPHENOL	100.0						
	DYDINE	50						
	PYRIDINE	5.0						
0041	2,4,5-TRICHLOROPHENOL	400.0						
0042	2,4,6-TRICHLOROPHENOL	2.0						
	PESTICIDES AND HERBICIDE	S						
0012	ENDRIN	0.02						
0013	LINDANE	0.4						
0014	METHOXYCHLOR	10.0						
015	TOXAPHENE	0.5						
016	2 4 D	10.0						
010		10.0						
	2,4,5-1P (SILVEX)							
0020	CHLORDANE	0.03						
0031	HEPTACHLOR (AND ITS EPOXIDE) 0.008						
ADDI	HIS WASTE HAVE ANY UNDISCLOSE	D HAZARDS OR PRIC	OR INCIDENTS	ASSOCIATED WITH IT, WHI	CH COULD A	FFECT THE W	AY IT SHOULD	BE HANDLED?
YE	S MO (If yes, explain)							
CHOC	DSE ALL THAT APPLY	A Contractor of the Contractor				177		ED CADOINOCENO
	A REGULATED SUBSTANCES	EXPLOSIVE		FUMING		V 0	SHA REGULAT	ED CARCINOGENS
DE							the state and the second se	PD 4751 497

UM	·····
A	2
AMENABLE	
REACTIVE	✓
TOTAL	
REACTIVE	
	PCBs
NE	NONE
000 PPM	< 50 PPM
1000 PPM	✓ >=50 PPM
	IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

.....



F. REGULATORY STATUS

YES NO DO ANY STATE WASTE CODES APPLY?	
MT01	
Texas Waste Code	
YES VO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?	
YES VO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 2687	
LDR CATEGORY: VARIANCE INFO: Not subject to LDR	
YES NO IS THIS A UNIVERSAL WASTE?	
YES NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS VERY SMALL QUANTITY GENERATOR (VSQG) OR A STATE EQUIVALENT DESIGNAT	LION?
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 VO 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 VO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?	
YES VIN IS THIS CERCLA REGULATED (SUPERFUND) WASTE?	
YES VIND IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?	
Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)	
VED. NO. 15 THE IS A US FOA HAZADDOUS WASTE DOES THIS WASTE STREAM CONTAIN BENZENE?	
YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE OTHER WOONTAIN DENZENE.	enzene
YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP of is this waste regulated under the sic 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:	
RQ, UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, 9, PG III (PCBS)	
H. TRANSPORTATION REQUIREMENTS ESTIMATED SHIPMENT FREQUENCY ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER OTHER	
CONTAINERIZED BULK LIQUID BULK SOLID	
5-20 CONTAINERS/SHIPMENT GALLONS/SHIPMENT: 0 Min -0 Max GAL. SHIPMENT UOM: TON	YARD
TONS/YARDS/SHIPMENT: 0 Min - 0 Max	
PORTABLE TOTE TANK BOXICARTONICASE	
CUBIC YARD BOX DRUM	
OTHER DRUM SIZE 55	
L SPECIAL REQUEST	
COMMENTS OR REQUESTS:	

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.





Addendum

D. COMPOSITION				
CHEMICAL	MIN		MAX	UOM
WATER	1.00000	-	5.0000	%
	 00		000	

G. DOT/TDG INFORMATION





/WINWEB/Profile\Waste Profile.rdl

Page 4 of 4



WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH1639340

A. GENERAL INFORMATION	MDD000524442	GENER	ATOR NAME:	Middle River Com	olex		
GENERATOR CODE (Assigned by Clean Harbors)	MDR000524413 MI5240	CITY	Baltimore	STATE/PROVINCE	MD	ZIP/POSTAL CODE	21220
ADDRESS 195 Chesapeake Park Plaza Rd				PHONE: (3	301) 528	-3021	
CUSTOMER CODE (Assigned by Clean Harbors)	TE0740	CUSTO	MER NAME:	Tetra Tech Inc		ZID/DOSTAL CODE	20874
ADDRESS 20251 Century Boulevard Sui	te 200	CITY	Germantown	STATE/PROVINCE	MD	ZIP/POSTAL CODE	20014

B. WASTE DESCRIPTION

WASTE DESCRIPTION: Storm Drain Cleaning Water with PCBs

PROCESS GENERATING WASTE: Storm Drain Cleaning

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	NUMBER OF PHASES/LAYE ✓ 1 2 3 % BY VOLUME (Approx.)	RS 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	Varies
% FREE LIQUID % SETTLED SOLID % TOTAL SUSPENDED SOLID SLUDGE GAS/AEROSOL	ODOR NONE MILD STRONG Describe:	BOILING POINT °F (°C) <= 95 (<=35) 95 - 100 (35-38) 101 - 129 (38-54) >= 130 (>54)	MELTING POINT °F (°C) < 140 (<60) 140-200 (60-93) > 200 (>93)	OTAL ORGANIC ARBON <= 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 > 20 0.1 - 1.0 V Unknown 1.1 - 5.0 5.1 - 20.0	 STO/LB (WJ/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,

CHEMICAL	MIN -	MA	UOM
1,2,3-TRICHLOROBENZENE	34.000000	1200.0000) PPB
1,2,4-TRICHLOROBENZENE	130.0000000 -	6000.0000 0	PPB
	0.0000000 -	4.000000	PPB
1,2-DICHLOROBENZENE	0.0000000	5.000000	PPB
1,2-DICHLOROETHENE	0.0000000	3.000000	D PPB
1,4-DICHLROROBENZENE	15.0000000	27.000000	O PPE
ACETONE	0.0000000	3.000000	0 PPE
CHLOROFORM	0.0000000	0.000000	0 PPE
LEAD	0.0000000	5.000000	0 PPE
METHYL T-BUTYL ETHER	284 0000000	77000 000	O PPE
PCBS	304.000000	00	0
	AFTAL DUATE OF DIDING STAT THICK OR	VES	NO
OES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER BRIDE VALUES, PIPE FI 12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FI IECES OF CONCRETE >3")?	ITTINGS, CONCRETE REINFORCING BAR OR		
If yes, describe, including dimensions:		YES	V NO
DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM?	A A A A A A A A A A A A A A A A A A A	VED	M NO
DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUN POTENTIALLY INFECTIOUS MATERIAL?	HUMAN BLOOD, BLOOD PRODUCTS, BODT IS OR PROTEINS OR ANY OTHER	YES	V NO
I acknowledge that this waste material is neither infectious nor does it contain any organism known to be based on my knowledge of the material. Select the answer below that applies:	e a threat to human health. This certification is		NO
		YES	NO
The waste was never exposed to potentially infectious material.		YES	NO
The waste was never exposed to potentially infectious material. Chemical disinfection or some other form of sterilization has been applied to the waste.		VEC	NO
The waste was never exposed to potentially infectious material. Chemical disinfection or some other form of sterilization has been applied to the waste.	REMENTS.	YES	NO
The waste was never exposed to potentially infectious material. Chemical disinfection or some other form of sterilization has been applied to the waste. I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUI	REMENTS.	YES	
The waste was never exposed to potentially infectious material. Chemical disinfection or some other form of sterilization has been applied to the waste. I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUINATION OF A COMPARISON OF A COMPARIS	REMENTS. HE FORM CODE ASSOCIATED WITH THE WASTI	YES YES E. 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.

	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL		APPLICADLE	
0004	ARSENIC	5.0					
0005	BARIUM	100.0					
0006	CADMIUM	1.0				1.4	
0007	CHROMIUM	5.0				×	
8000	LEAD	5.0				×	
0009	MERCURY	0.2				×	
D010	SELENIUM	1.0				×	
D011	SILVER	5.0					
	VOLATILE COMPOUNDS			OTHER CONSTITUENTS		MAX UOM	APPLICABLE
D018	BENZENE	0.5		RROMINE			
D019	CARBON TETRACHLORIDE	0.5					
D021	CHLOROBENZENE	100.0		CHLORINE			·····
D022	CHLOROFORM	6.0		FLUORINE			
D028	1.2-DICHLOROETHANE	0.5		IODINE			
D029	1,1-DICHLOROETHYLENE	0.7		SULFUR			
D035	METHYL ETHYL KETONE	200.0		POTASSIUM			
D039	TETRACHLOROETHYLENE	0.7		SODIUM			
D040	TRICHLOROETHYLENE	0.5		AMMONIA			
D043	VINYL CHLORIDE	0.2		CYANIDE AMENABLE			
	SEMI-VOLATILE COMPOLINI	DS		CYANIDE REACTIVE			
0000	OCRESOI	200.0		CYANIDE TOTAL			
D023	U-CRESOL	200.0		SULFIDE REACTIVE			
D024	m-CRESOL	200.0		Luco	P	CBs	
D025	p-CRESOL			- HOUS			
D026	CRESOL (TOTAL)			- V NONE		NONE	
D027	1,4-DICHLOROBENZENE	1.5		- < 1000 PPM		< 50 PPM	
D030	2,4-DINITROTOLUENE	0.13		- >= 1000 PPM		>=50 PPM	
D032	HEXACHLOROBENZENE	0.13		-	IF	PCBS ARE PRESE	BY TSCA 40
D033	HEXACHLOROBUTADIENE	0.5		-	Ċ	FR 761?	
D034	HEXACHLOROETHANE	3.0		-		YES	NO
D036	NITROBENZENE	2.0		-		ha	
D037	PENTACHLOROPHENOL	100.0		-			
D038	PYRIDINE	5.0					
D041	2,4,5-TRICHLOROPHENOL	400.0					
D042	2,4,6-TRICHLOROPHENOL	2.0		-			
	PESTICIDES AND HERBICI	DES					
D012	ENDRIN	0.02					
D013	LINDANE	0.4					
D014	METHOXYCHLOR	10.0					
D015	TOXAPHENE	0.5					
D016	24-D	10.0					
0010	2 4 5 TD (SILVEY)	1.0					
D017		0.03		•••			
D020	CHLORDANE	IDE) 0.008					
D031 ADI DOES	DITIONAL HAZARDS	OSED HAZARDS OR P	RIOR INCIDEN	TS ASSOCIATED WITH IT, WHICH	I COULD AFFECT	THE WAY IT SHOUL	D BE HANDLED?
,	ES NO (If yes, explain)						
СН	OOSE ALL THAT APPLY						TED CARCINOGENS
	DEA REGULATED SUBSTANCES	EXPLOSIVE		FUMING			ABOVE
1		TIDIO COTIVE		REACTIVE MATER	KIAL	THOME OF THE	



F. REGULATORY STATUS

YES	-												
YES	5	NO	DO	ANY STATE WASTE	ODES AP	PLY?							
			MT	01									
			Tex	as Waste Code									
YES	5	NO	DO	DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?									
	-	7								O CER PART 2682			
YE	S 💌	NO	IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 200?										
				VARIANCE INFO:	Not subje	ect to LDR			-				
YE	s	NO	IS	HIS A UNIVERSAL V	ASTE?								
YE	S	NO	IS	HE GENERATOR OF	THE WAS	TE CLASSIFI	ED AS VERY SMAL	L QUANTITY GE	NERATOR	VSQG) OR A STATE	EQUIVAL	ENT DESIGNA	TION?
YE	S	NO	IS	HIS MATERIAL GOI	G TO BE M	ANAGED AS	S A RCRA EXEMPT	COMMERCIAL P	RODUCT,	WHICH IS FUEL (40 C	FR 261.2	(C)(2)(II))?	
YE	s	NO	DC	ES TREATMENT OF	THIS WAST	E GENERAT	E A F006 OR F019	SLUDGE?					
VE	S	NO	IS	HIS WASTE STREA	SUBJECT	TO THE INC	ORGANIC METAL B	EARING WASTE	PROHIBITI	ON FOUND AT 40 CF	R 268.3(C	;)?	
VE	s [NO	DC	ES THIS WASTE CO	TAIN VOC	'S IN CONCE	NTRATIONS >=50	0 PPM?					
VE	S	NO	DC	ES THE WASTE CON	TAIN GRE	ATER THAN	20% OF ORGANIC	CONSTITUENTS	WITH A VA	POR PRESSURE >=	.3KPA (.0	44 PSIA)?	
1C	0		00	ER THIS WARTE CO		BGANIC CO	NSTITUENT WHIC	H IN ITS PURE F	ORM HAS A	VAPOR PRESSURE	= > 77 KPA	A (11.2 PSIA)?	
YE	5	V NO	DC	ES THIS WASTE CO									
YE	S	NO NO	IS	THIS CERCLA REGU	ATED (SU	PERFUND) \	WASTE?	DI II E C 2					
	S	V NO	IS	THE WASTE SUBJEC	T TO ONE	OF THE FOL	LOWING NESHAP	RULEST	cole product	ion (subnart GGG)			
YE													
YE				Hazardous Organic	NESHAP (HON) rule (su	ibpart G)	Pharmaceut	cais produci				
YE	s	NC) IF	Hazardous Organic	NESHAP (HON) rule (su WASTE, DOI	ibpart G) ES THIS WASTE S	TREAM CONTAIN	N BENZENE	?			
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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.





Addendum

D. COMPOSITION			
CHEMICAL	MIN -	MAX	UOM
WATED	99.0000 -	- 100.00	%
WAIER	000	00000	

G. DOT/TDG INFORMATION

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